

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-K

(Mark One)

☒ ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2025

OR

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period from _____ to _____

Commission File Number 001-40440

Senti Biosciences, Inc.

(Exact name of registrant as specified in its charter)

Delaware

86-2437900

(State or other jurisdiction of
incorporation or organization)

(I.R.S. Employer
Identification Number)

2 Corporate Drive, First Floor

South San Francisco, CA 94080

(Address of principal executive offices and zip code)

(650) 239-2030

(Registrant’s telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common stock, par value \$0.0001 per share	SNTI	The Nasdaq Capital Market

Securities registered pursuant to 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes ☐ No ☒

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes ☐ No ☒

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (Section 232.405 of this chapter) during the preceding 12 months (or such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company or an emerging growth company. See the definitions of “large accelerated filer,” “accelerated filer,” “smaller reporting company,” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer	☐	Accelerated filer	☐
Non-accelerated filer	☒	Smaller reporting company	☒
		Emerging growth company	☒

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☒

Indicate by check mark whether the registrant has filed a report on and attestation to its management’s assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C.7262(b)) by the registered public accounting firm that prepared or issued its audit report. ☐

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements. ☐

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant’s executive officers during the relevant recovery period pursuant to §240.10D-1(b). ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

As of June 30, 2025, the last business day of the registrant’s most recently completed second fiscal quarter, the aggregate market value of common stock held by non-affiliates of the registrant was approximately \$53.2 million (based on the closing price of the registrant’s common stock as reported on The Nasdaq Capital Market on that date).

As of March 19, 2026 there were 31,144,497 shares of the registrant’s common stock, par value \$0.0001 per share, issued and outstanding.

SENTI BIOSCIENCES, INC.
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FORWARD LOOKING STATEMENTS

This Annual Report on Form 10-K (“Annual Report” or “Form 10-K”) and some of the information incorporated by reference, includes forward-looking statements regarding, among other things, the plans, strategies, and prospects, both business and financial, of Senti Biosciences, Inc. (“Senti” or the “Company”). These statements are based on the beliefs and assumptions of the management of Senti. Although Senti believes that their respective plans, intentions, and expectations reflected in or suggested by these forward-looking statements are reasonable, it cannot assure you that it will achieve or realize these plans, intentions, or expectations. Forward-looking statements are inherently subject to risks, uncertainties, and assumptions. Generally, statements that are not historical facts, including statements concerning possible or assumed future actions, business strategies, events or results of operations, and any statements that refer to projections, forecasts, or other characterizations of future events or circumstances, including any underlying assumptions, are forward-looking statements. These statements may be preceded by, followed by or include the words “believes”, “estimates”, “expects”, “projects”, “forecasts”, “may”, “might”, “will”, “should”, “seeks”, “plans”, “scheduled”, “possible”, “anticipates”, “intends”, “aims”, “works”, “focuses”, “aspires”, “strives” or “sets out” or similar expressions. Forward-looking statements are not guarantees of performance. You should not put undue reliance on these statements which speak only as of the date hereof. Forward-looking statements contained in this Annual Report include, for example, statements about:

- the initiation, cost, timing, progress and results of our clinical trials, preclinical studies or research and development activities with respect to our current and potential future product candidates;
- the therapeutic potential of our product candidates, and the disease indications for which we intend to develop our product candidates;
- our ability to develop and advance our gene circuit platform technologies and to identify product candidates using our gene circuit platform technologies;
- our ability to advance our current and potential future product candidates into, and successfully initiate, conduct, enroll and complete clinical trials;
- our ability to develop and commercialize product candidates that we identify;
- our ability to obtain and maintain regulatory approval of our current and potential future product candidates, and any related restrictions, limitations and/or warnings in the label of an approved product candidate;
- our ability to manufacture our product candidates for clinical development and, if approved, for commercialization, and the timing and costs of such manufacture;
- our ability to source clinical and, if approved, commercial materials and supplies used to manufacture our product candidates;
- the performance of third parties in connection with the development of our product candidates, including third parties conducting our clinical trials as well as third-party suppliers;
- our ability to realize the benefits expected from the Framework Agreement and subsequent amendment, dated August 7, 2023 and December 10, 2024, respectively, by and among us, GeneFab, LLC and Valere Bio, Inc. and the transactions contemplated thereunder;
- our projected financial information, anticipated growth rate, and market opportunities;
- the accuracy of our estimates and projections of financial information, including expenses, capital requirements, cash utilization, need for additional financing and market opportunities;

- our ability to maintain the listing of our common stock on Nasdaq, and the potential liquidity and trading of such securities;
- our ability to file and obtain clearance for any additional investigational new drug application, (“IND”), for any additional product candidates we may identify, and to successfully complete our ongoing Phase 1 clinical trial for SENTI-202 and additional clinical trials for any potential future product candidates;
- our ability to grow and effectively manage the growth of our operations;
- our ability to raise financing to fund our operations, if and when needed;
- our ability to obtain and maintain intellectual property protection for our technologies and any of our product candidates;
- our ability to successfully commercialize our current and any potential future product candidates;
- the rate and degree of market acceptance of our current and any potential future product candidates;
- regulatory developments in the United States and international jurisdictions;
- the potential benefits of strategic collaboration agreements and our ability, and the ability of our collaborators, to successfully develop technologies and product candidates under the respective collaborations;
- the potential liability from lawsuits and penalties related to our technologies, product candidates and current and future relationships with third parties, including relationships under strategic and financing transactions;
- our success in retaining or recruiting, or adapting to changes in, our officers, key employees, or directors;
- our ability to attract and retain key scientific and management personnel;
- our ability to contract with third-party suppliers and manufacturers and their ability to perform adequately under those arrangements;
- our ability to compete effectively with existing competitors and new market entrants;
- our future financial performance and capital requirements;
- our ability to implement and maintain effective internal controls;
- the impact of supply chain disruptions;
- the impact of any global health crises on our business, including our ongoing and potential future clinical trials and preclinical studies;
- any impacts on our business from unfavorable global economic conditions, including significant political, trade or regulatory developments, inflationary pressures, market volatility, acts of war and civil and political unrest;
- our ability to implement remediation plans to address the material weaknesses that are described in this Annual Report;
- our expectations regarding the period during which we qualify as a “smaller reporting company” as defined by Rule 12b-2 of the Securities Exchange Act of 1934 and “emerging growth company” under the Jumpstart Our Business Startups Act of 2012 (the “JOBS Act”); and

- other factors detailed under the section entitled “Risk Factors.”

These and other factors that could cause actual results to differ from those implied by the forward-looking statements in this Annual Report described under the heading “Risk Factors” and elsewhere in this Annual Report. The risks described under the heading “Risk Factors” are not exhaustive. New risk factors emerge from time to time and it is not possible to predict all such risk factors, nor can we assess the impact of all such risk factors on the business of Senti or the extent to which any factor or combination of factors may cause actual results to differ materially from those contained in any forward-looking statements. All forward-looking statements attributable to Senti or to persons acting on our behalf are expressly qualified in their entirety by the foregoing cautionary statements. We undertake no obligations to update or revise publicly any forward-looking statements, whether as a result of new information, future events, or otherwise, except as required by law.

PART I

Item 1. Business

Unless the context otherwise requires, for purposes of this section, the terms “we,” “us,” “our,” “our Company,” “the Company” or “Senti” refer to Senti Biosciences, Inc. and its subsidiaries.

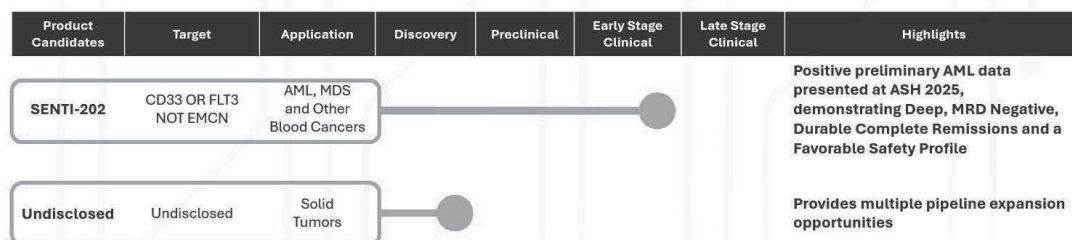
Overview

We are a clinical-stage biotechnology company developing next-generation cell and gene therapies engineered with our gene circuit platform technologies for patients living with incurable diseases. Our mission is to create a new generation of smarter medicines that outsmart complex diseases using novel and unprecedented approaches. To accomplish this mission, we have built a synthetic biology platform that we believe may enable us to program next-generation cell and gene therapies with gene circuits. These gene circuits, which we created from novel and proprietary combinations of DNA sequences, are designed to reprogram cells with biological logic to sense inputs, compute decisions and respond to their respective cellular environments. Using gene circuits, our product candidates are designed to precisely kill cancer cells, spare healthy cells, increase specificity to target cells and control the expression of drugs even after administration.

We are applying our gene circuit technologies to develop a pipeline of medicines that use chimeric antigen receptor (“CAR”) white blood cells with the goal of addressing major challenges and providing potentially lifesaving treatments for people living with cancer. Our lead product candidates utilize off-the-shelf healthy adult donor derived natural killer (“NK”) cells to create CAR-NK cells outfitted with gene circuit technologies in several oncology indications with high unmet need.

Our Pipeline

Our lead product candidate, SENTI-202, is a potentially first-in-class Logic Gated off-the-shelf CAR-NK cell therapy for the treatment of blood cancers currently being studied in an open-label, multi-center Phase 1 clinical trial in the United States and Australia for the treatment of relapsed/refractory hematological malignancies, including Acute Myeloid Leukemia (“AML”). Our pipeline also includes additional preclinical programs: (i) a solid tumor cell therapy program, (ii) our partnered programs related to cell therapies for regenerative medicines with BlueRock Therapeutics, Inc. (“BlueRock Therapeutics”). Our most advanced program, SENTI-202, originates from our internal pipeline of programs.



Our Strategy

Our goal is to maintain and build upon our leadership position in the cell and gene therapy landscape utilizing our proprietary gene circuit technology and synthetic biology expertise. We are pursuing this goal by leveraging our unique approach to programming gene circuits, which we believe may be broadly applicable toward engineering optimal efficacy, precision and control into cell or gene-based medicines, rapidly advancing our pipeline of cell

therapies for oncology indications and establishing strategic collaborations/partnerships to support our non-oncology programs and manufacturing.

We plan to develop and, if approved, commercialize cell therapy products for the treatment of cancer. We believe achieving this goal will play a critical role in addressing major challenges in oncology and providing potentially lifesaving treatments for people living with cancer.

Key elements of our strategy include:

- Advance internal pipeline of CAR-NK cell therapies for blood cancer indications through the clinical development of our lead product candidate, SENTI-202;
- Advance the development of additional solid tumor cell therapy programs utilizing the gene circuit technologies and strategies similar to those in our clinical stage program SENTI-202;
- Leverage partnering to support indications beyond oncology, including our ongoing partnership with BlueRock Therapeutics to develop cell therapies for regenerative medicines;
- Establish additional value-creating collaborations to access the full potential of our technology in additional modalities including T cells, tumor infiltrating lymphocytes (“TILs”), stem cells including induced Pluripotent Stem Cells (“iPSCs”) and Hematopoietic Stem Cells (“HSCs”), in vivo gene therapy such as adeno associated virus (“AAV”), and messenger ribonucleic acid (“mRNA”).

SENTI-202 for the Potential Treatment of Hematologic Malignancies including Acute Myeloid Leukemia

Overview

Our lead product candidate SENTI-202 is a potentially first-in-class Logic Gated off-the-shelf CAR-NK cell therapy designed to selectively target and eliminate CD33 and/or FLT3 expressing hematologic malignancies, including AML, while sparing healthy bone marrow cells, even if they express CD33 and/or FLT3 due to our unique NOT gate design. SENTI-202 is currently being studied in an open-label Phase 1 clinical trial in the United States and Australia for the treatment of relapsed/refractory hematologic malignancies, including AML. We reported clinical data for this trial in 2024 and 2025, which included twenty AML patients treated in our Phase 1 clinical trial protocol (the “Phase 1 Patients”). The initial clinical data showed that of the Phase 1 Patients, there was a 50% overall response rate during our Phase 1 clinical trial, 42% of the Phase 1 Patients achieved a CR/CRh (with 100% of the CRs and 83% of all responses being assessed as measurable residual disease (“MRD”) negative at the recommended phase 2 dose (“RP2D”), with a 7.6 months median duration of composite Complete Remission across all patients. All patients treated with SENTI-202 showed a favorable safety profile.

On June 18, 2025, we announced that the FDA has granted Orphan Drug Designation to SENTI-202 for the treatment of relapsed/refractory hematologic malignancies including acute myeloid leukemia. Also, on December 9, 2025, we announced that the FDA has granted SENTI-202 Regenerative Medicine Advanced Therapy (“RMAT”) designation. The FDA granted the RMAT designation based on data from the Company’s ongoing Phase 1 clinical trial of SENTI-202 in adult patients with relapsed or refractory (R/R) CD33 and/or FLT3 expressing hematologic malignancies, including AML.

SENTI-202 has been designed to incorporate three chimeric proteins using a Logic Gated gene circuit and delivered through a single retrovirus.

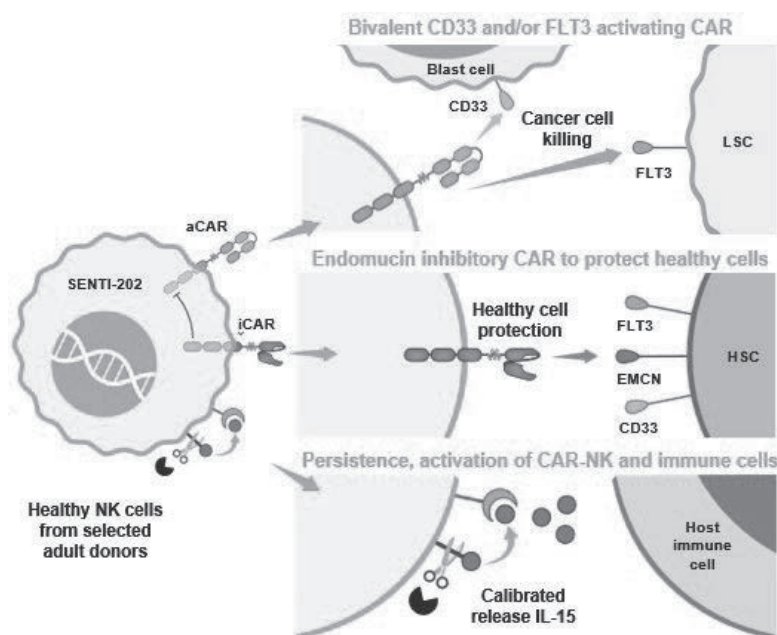
The first chimeric protein that we have engineered SENTI-202 to express is a bivalent CAR as an OR GATE directed against the tumor-associated antigens (“TAAs”), CD33 and/or FLT3, where one or both are expressed in 95% of AML patients. CD33 is typically found on bulk AML blasts and FLT3 is typically found on leukemic stem cells (“LSCs”). LSCs are a rare sub-population of AML cells that possess stem cell like properties of self-renewal

and drug resistance, contributing to relapse and poor prognosis after treatment. We believe that targeting FLT3 in addition to CD33 could result in deeper and more prolonged remissions.

In addition to attacking cancer cells, in an attempt to protect the healthy cells that express FLT3 during treatment, the second chimeric protein we have engineered SENTI-202 to include is an inhibitory CAR (“iCAR”), which we refer to as a NOT Gate, to protect the healthy cells from potential on-target/off-tumor toxicity. The iCAR is designed to recognize the healthy cell surface protein endomucin (“EMCN”). EMCN was chosen as the protective antigen using a multi-step unbiased bioinformatics pipeline designed to identify a cell surface antigen specifically expressed on healthy HSCs but absent on AML tumor cells including both blasts and LSCs. EMCN is expressed on healthy cells, specifically HSCs (and early progenitors) which we believe will confer protection from an activating CAR (“aCAR”) mediated cytotoxicity on EMCN-expressing cells, even if those cells express CD33 and/or FLT3, thus expected to impart selectivity to SENTI-202 anti-cancer cytotoxicity.

The final protein in the SENTI-202 Gene Circuit is a calibrated release interleukin-15 (“crIL15”), an engineered protein technology that is designed with a protease cleavage site to be able to express and release cytokines from the cell in a calibrated fashion via a protease ubiquitously expressed by the cell. We believe that crIL15 stimulates surrounding immune cells and promotes CAR-NK cell expansion, persistence, and tumor killing activity. The SENTI-202 gene circuit design was systematically optimized through evaluation of over 500 constructs by initially optimizing each component separately and then together.

The following figure illustrates the design of SENTI-202 Logic Gating gene circuits to kill AML LSCs and blasts, while sparing healthy HSCs via (CD33 OR FLT3) NOT EMCN logic.



Acute Myeloid Leukemia: an Unmet Medical Need

Almost 10% of new cancer cases in the United States each year are hematologic malignancies, including leukemia, lymphoma and myeloma. AML is a type of acute leukemia characterized by an accumulation of malignant immature white blood cells. It is the most common type of acute leukemia in adults, constituting 80% to 85% of

cases, and is the second most common—as well as the deadliest—in children. Due to the absence of highly efficacious therapies, AML has poor prognosis with a low five-year survival rate at just 31.9%.

Patients with CD33 and/or FLT3 expressing malignancies, which includes myeloid malignancies such as AML, have a grim prognosis and a high unmet need. AML is typically a disease of the elderly with a median age of diagnosis being approximately 65 years. The treatment at diagnosis for the majority of patients who cannot tolerate the toxicities of intensive chemotherapy includes either hypomethylating agents or low-dose cytosine arabinoside (“Ara-C”, also known as cytarabine), as monotherapy or in combination with venetoclax, or best supportive care. In patients who can tolerate more intensive treatments, the goal of treatment is to induce a complete response (“CR”) with intensive chemotherapy and consolidate with allogeneic hematopoietic cell transplantation (“HCT”). Treatment is combined with the respective targeted agents in patients who have CD33-positive disease or a FLT3-mutated disease (Mylotarg USPI; Rydapt USPI; Xospata USPI). Other therapies for AML include targeted agents for the minority of patients with either isocitrate dehydrogenase (IDH)-1 or IDH-2 mutated disease. Despite these therapies being recently approved for patients with AML, the prognosis continues to be poor with the majority of patients refractory to or relapsing from front-line therapy and a median overall survival (OS) of five months at relapse.

Development of targeted AML treatments is difficult because the disease is highly heterogeneous. More than 200 types of chromosome translocations and mutations have been identified in AML patients. As such, therapies targeting a single TAA are often insufficient to kill all the cancer cell subsets in AML, leading to eventual disease relapse. To drive patients into deeper remissions and prevent relapses, therapies designed to target multiple AML antigens are needed. Additionally, recent studies suggest relapse is associated with the less targeted AML subpopulation of LSCs; however, while the development of therapies targeting AML LSCs is much needed, this strategy has been particularly challenging because LSC targets are often expressed on healthy cells, such as HSCs, leading to on-target, off-tumor treatment-induced toxicities.

CAR Cell Therapy for AML

The therapeutic administration of CAR cell therapies has considerably advanced the treatment of certain cancers, such as B-cell malignancies, but the successes of CAR cell therapies have not yet translated to successful treatment of AML, in part due to the absence of AML-specific target antigens. Due to their nonrestrictive expression, most AML antigens are also expressed on healthy HSCs or myeloid cells. Thus, on-target, off-tumor killing effects of the therapy may lead to the ablation of hematopoietic stem, progenitor or myeloid cells. This off-tumor killing of HSCs leads to serious clinical sequelae including sepsis and febrile neutropenia contributing to morbidity and mortality. Thus, the identification of antigens that enable more robust targeting of AML cells, including LSCs, along with new strategies to reduce off-target killing of HSCs, are critically needed to realize the promise of CAR cell therapies for AML treatment. These described challenges also extend to other potential AML therapeutic modalities, such as antibodies and bispecific T cell engagers.

SENTI-202 Clinical Data

We reported data from our Phase 1 clinical trial of SENTI-202 in 2024 and 2025. Initial data we reported included data related to the Phase 1 patients who were treated at various dose levels following lymphodepletion with fludarabine/cytarabine). Of the Phase 1 patients, there was a 50% overall response rate during our Phase 1 clinical trial, 42% of the Phase 1 patients achieved CR/CRh (with 100% of the CRs and 83% of all responses being assessed as measurable residual disease (“MRD”) negative at the recommended phase 2 dose (“RP2D”), with a 7.6 months median duration of composite Complete Remission across all patients. All patients treated with SENTI-202 showed a favorable safety profile.

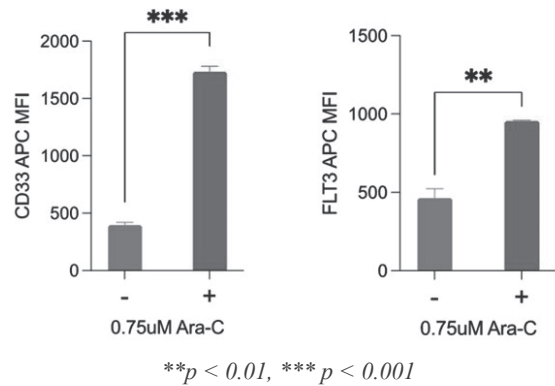
Development Plan and Key Next Steps for SENTI-202

In December 2023, our IND application for evaluation of SENTI-202 in patients with hematologic malignancies was cleared by the FDA, and we began dosing patients in an open-label Phase 1 clinical trial in the United States and Australia in the second quarter of 2024.

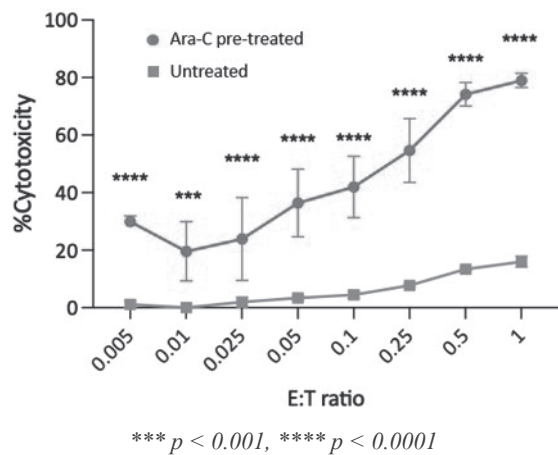
Our Phase 1 clinical trial aims to evaluate SENTI-202 in patients with relapsed/refractory CD33 and/or FLT3 positive hematologic malignancies including AML. Key features of the study design that are intended to increase the potential for deep, durable remissions for AML patients include:

- Disease-specific lymphodepletion (“LD”):** We plan to administer three-to-five doses of SENTI-202 following a disease-specific LD regimen known as fludarabine (flu) and cytarabine (ara-C), or flu/ara-C. The use of flu/ara-C is an NCCN Category 2a chemotherapy regimen for patients with relapse-refractory AML. In large Phase 3 randomized trials, where flu/ara-C with or without idarubicin, another chemotherapeutic agent approved for AML, has been administered as control arm chemotherapy, the regimen was well tolerated with mild non-hematologic toxicities, most commonly mucositis, and true CR rates of ~10% (cumulative CR rates including CR with incomplete bone marrow recovery of ~ 20%-30%) have been reported. Flu/ara-C LD conditioning followed by multiple doses of NK cell therapies have been well-tolerated, with CR rates in the range of 50-60%. Further, preclinical data reveals that pre-treatment with ara-C increases CD33 and FLT3 expression of a CD33/FLT3-negative AML cell line (e.g., KG-1a), leading to enhanced SENTI-202-mediated cytotoxicity in vitro, which could contribute to potential clinical synergistic anti-AML activity along with the additive debulking of AML blasts prior to administering SENTI-202 to potentially achieve deep responses.

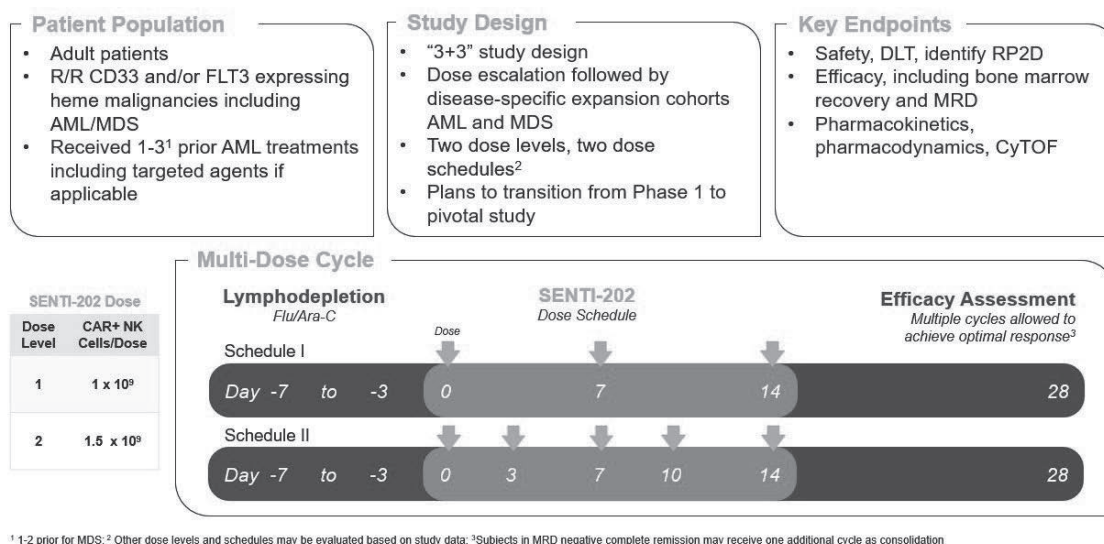
72h Ara-C Treatment Significantly Upregulated CD33 and FLT3 Expression in KG-1a Cells



Ara-C Pre-Treated KG-1a Cells Sensitized to SENTI-202-Mediated Cytotoxicity



- **Multi-dose and multi-cycle administration:** The SENTI-202 Phase 1 study is evaluating two dose levels (1 billion and 1.5 billion CAR+ NK cells per dose) administered after LD in either a three dose regimen (Schedule 1: Days 0, 7, 14) or a five dose regimen (Schedule 2: Days 0, 3, 7, 10, 14), followed by bone marrow assessment at the end of the fourth week (and these four weeks make up one cycle). At the end of a cycle, we will evaluate both efficacy and safety. Patients may be eligible to receive additional such cycles based on both tumor response and tolerability of treatment. The study will evaluate efficacy, pharmacodynamics and cytometry by Time-Of-Flight markers in addition to standard Phase 1 objectives of safety, pharmacokinetics and dose finding.
- **Adaptive design and seamless transition to pivotal:** The Phase 1 study design also includes the ability to evaluate an ultra-low dose IL2 cohort, which could further augment SENTI-202 activity and persistence. The study is designed to seamlessly expand and rapidly transition to a pivotal study assuming the data supports the expansion.



Our CAR-NK Cell Source

Our preferred cell source for SENTI-202, our off-the-shelf CAR-NK cell therapy program, is peripheral blood NK cells because it allows us to immediately leverage an established supply chain, a mature GMP process, and extensive clinical experience to develop our next generation CAR-NK cell therapies as described below.

Natural killer cells are an integral part of the innate immune system and comprise 5 to 20% of circulating lymphocytes. They play a key immune surveillance role by recognizing and killing malignantly or virally transformed cells by directed release of lytic granules or by inducing death receptor-mediated apoptosis. Unlike T cells, NK cells possess intrinsic or endogenous anti-cancer activity without engineering or specific antigen priming. NK cells sample potential target cells on a cell-by-cell basis to recognize transformed cells based on the balance of activating and inhibitory signals received by the NK cell from the individual target cell. Other key differences of NK

cells compared to T cells, which we believe make NK cells attractive candidates as cellular backbones for novel anti-cancer therapies, include:

- Lack of explosive proliferation and outpouring of cytokines when exposed to target cells, have shown to result in an improved safety profile and to allow repeat dosing due to a general lack of chimeric antigen receptor (“CAR”) T cell-like adverse events such as cytokine release syndrome (“CRS”) or immune effector cell-associated neurotoxicity syndrome (“ICANS”),
- Lack of a T cell receptor (“TCR”) in NK cells have shown to result in inability to initiate graft-versus-host disease (GvHD), enabling NK cells to be used in allogeneic therapies without need for additional genetic manipulation, and
- Allogeneic NK cells have shown to have a finite lifespan of approximately 2-3 weeks in patients when administered after LD due to clearance from host immune cell recovery, leading to decreased potential for long term side effects such as second primary malignancies.

Over 900 patients have safely received NK cell-based therapies since 2005. This includes over 800 patients across more than 30 single institution academic studies who received non-engineered allogeneic NK cell therapy, the majority from healthy adult donors, and 150+ patients who have received CAR NK cells via single and multi-center early phase trials.

NK and CAR NK cell products are generally well tolerated and show clinical efficacy as a stand-alone treatment, with 20-60% CR rate on average across a wide variety of oncological conditions, including in patients with AML. This clinical activity was enhanced under several different conditions: (1) when the NK cells had been engineered with CARs, (2) cultured with cytokines, (3) after ‘activation’ by co-culturing with K562 cell lines (themselves modified to express cytokines), (4) when NK cell doses increased, and (5) for AML patients when fludarabine/ara-C (flu/ara-C) LD was used as lymphodepleting conditioning. Key limitations of the clinical experience with NK cells in AML patients include limited persistence of the infused cells, short durability of the observed responses, and immune evasion of LSCs. Other challenges include manufacturing, with culturing and cryopreserving NK cells precluding higher or multiple doses.

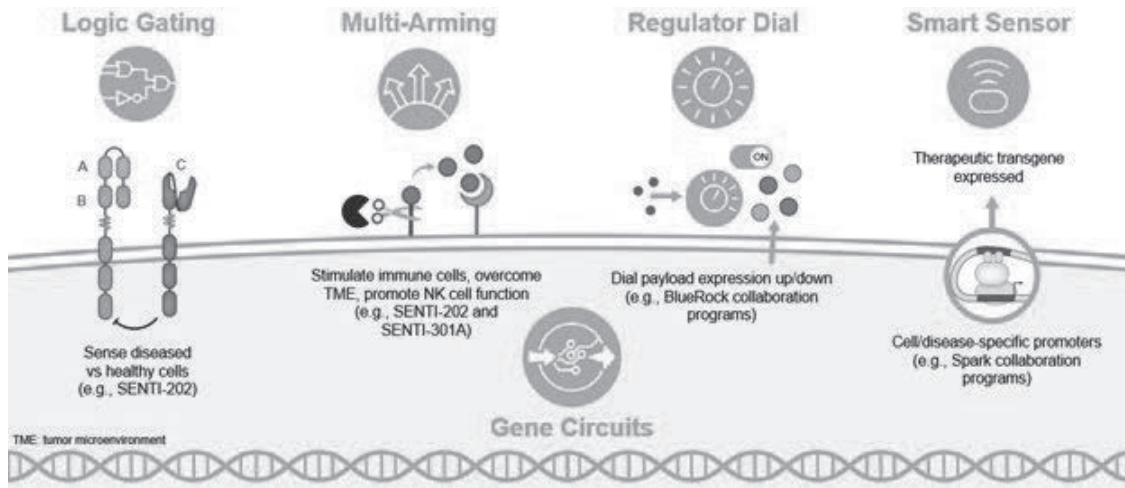
We also believe that our proprietary donor selection process could confer us unique advantages. The process begins with healthy donors screened by our vendor(s) via their protocol(s) for various viruses and ability to undergo leukapheresis. Senti then performs a manufacturing suitability assessment of a research use only leukopak from the healthy donors selected by the vendor(s). The results are then utilized to specify which healthy donors we would like to request for clinical grade leukopaks to be used in our GMP manufacturing process.

Gene Circuits Could Enhance Precision, Control, and Activity of Cell & Gene Therapies

Our Gene Circuit Solutions

In our pursuit to create a new generation of smarter medicines, we have built a toolbox of proprietary gene circuit platform technologies that we believe may enhance the risk benefit paradigm of cell and gene therapy products. Four core categories of gene circuits comprise our gene circuit platform: Multi-Arming, Logic Gating, Regulator Dials and Smart Sensors. Each of our gene circuit platform technologies is designed to confer greater clinical and therapeutic activity, precision and control to cell and gene therapies.

We believe that our core gene circuit platform technologies are the foundation of smarter medicines that are designed to precisely kill diseased cells, spare healthy cells, increase specificity to target cells and control the expression of drugs even after administration. These technologies can be categorized as follows:



Logic Gating: Logic Gating gene circuits are designed to enable cell and gene therapies to control their therapeutic activity in response to the presence or absence of multiple disease biomarkers. Below are examples of Logic Gates applied to cancer, although Logic Gating may also be applied to various other disease indications.



NOT GATE: NOT GATE gene circuits are designed to widen the therapeutic window by enabling effective killing of cancer cells while preserving healthy cells. The NOT GATE functions by recognizing Protective Antigens (PAs), or antigens that are selectively expressed on healthy cells and not on cancer cells, thus limiting on-target, off-tumor killing. By protecting healthy cells, the NOT GATE has the potential to enable more effective on-target, on-tumor killing of tumor cells that express TAAs. Generally, existing cancer drugs target only a single antigen, which means they can only be effectively and safely used in situations where that antigen is uniquely expressed on tumors and not in healthy cells, or where the on-target, off-tumor effects are tolerable.



OR GATE: OR GATE gene circuits are designed to address tumor heterogeneity and limit antigen escape. The OR GATE functions by killing tumor cells that express any one of multiple antigens. Generally, current medicines are unable to address more than one target at a time and are thus susceptible to tumor evasion.



Multi-Arming: Multi-Arming gene circuits are designed to incorporate multiple payloads into a single cell or gene therapy product. These gene circuits are intended to activate various biological pathways in complementary ways to prevent diseases from evading single-target treatments, and thereby potentially improve treatment efficacy. Existing combination therapies that target complex diseases require the application of multiple individual drugs, which is difficult due to research, clinical development, regulatory and pharmacology barriers.



Regulator Dial: Regulator Dial gene circuits are designed to enable the precise tuning of therapeutic activity from a cell or gene therapy product. For example, this can be implemented by regulating therapeutic payload expression in response to varying concentrations of FDA-approved drugs. Regulator Dials are expected to enable the exogenous regulation of next-generation cell and gene therapies even after they have been delivered in vivo. Existing cell and gene therapies cannot be modulated once they have been delivered into patients.



Smart Sensor: A Smart Sensor is a gene circuit, or combination of gene circuits, designed to precisely detect distinct cell types or disease environments, and thus distinguish between the “disease state” and “healthy state.” For example, Smart Sensors can be engineered to detect whether certain conditions, or disease biomarkers, are present before responding with a specific therapeutic response. Conventional medicines are generally unable to dynamically change their behavior in response to cell or disease specific conditions.

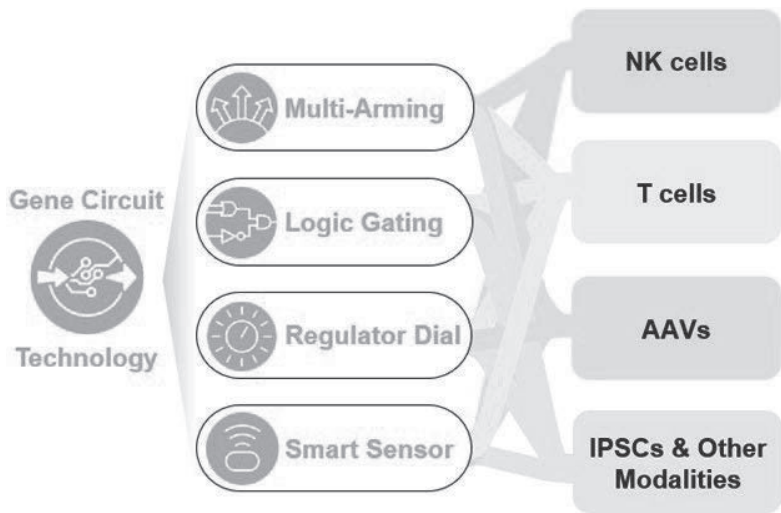
We Believe Our Gene Circuits May Have Broad Applicability in Multiple Treatment Modalities and Disease Areas

We believe that our gene circuit platform may have broad applicability across treatment modalities and disease areas, and is also potentially applicable toward engineering optimal efficacy, precision and control into cell or gene-based medicines.

Treatment Modalities: Our gene circuit platform technologies are designed to be applied in a modality-agnostic manner, with applicability to NK cells, T cells, TILs, stem cells including iPSCs and HSCs, *in vivo* gene therapy such as AAV, and mRNA. We have conducted research in multiple cell types and vector types, and the initial focus of our internal pipeline utilizes off-the-shelf CAR-NK cells outfitted with gene circuit technologies in oncology indications.

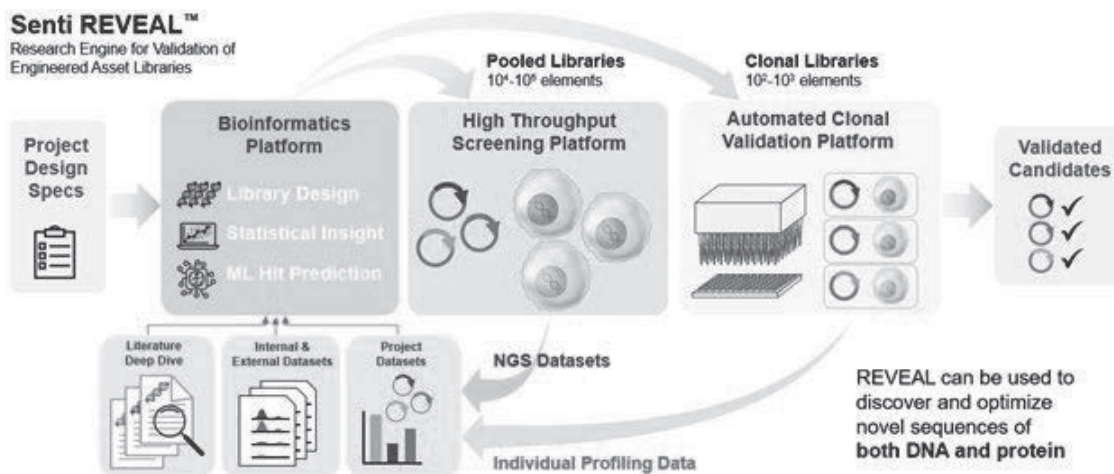
Disease Areas: Our gene circuits can be customized to address many aspects of disease biology. We have demonstrated and published applications of gene circuits across many different *in vivo* disease models. Thus, we believe that our gene circuit platform technologies can be used against a broad range of diseases that span therapeutic areas such as oncology, immunology, genetic diseases, neurology, cardiology, metabolic diseases, ophthalmology and regenerative medicine.

The following figure presents our perspective on how our gene circuit technologies can be utilized across modalities and corresponding therapeutic areas:



Portfolio Expansion Opportunities

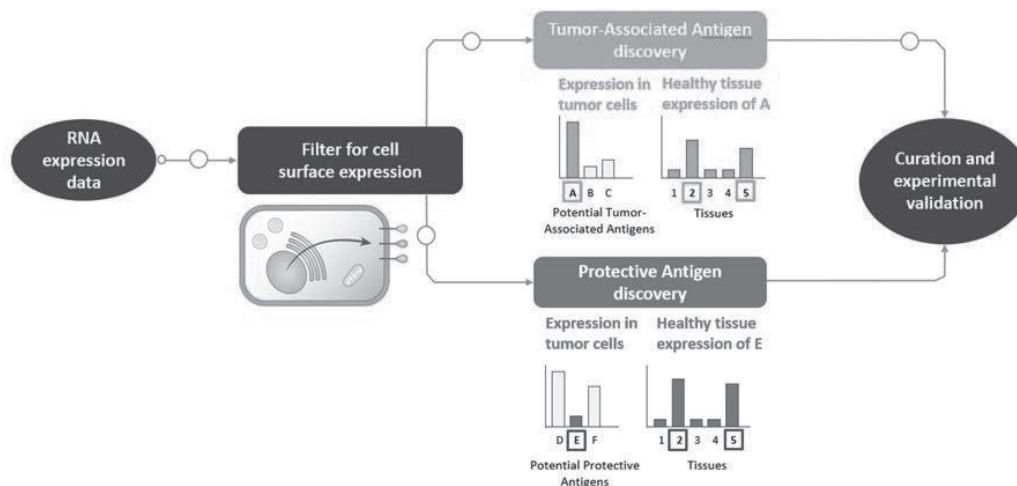
We have developed a proprietary, versatile, and robust internal research engine to enable development and adaptation of our gene circuits to address broad set of new disease and therapeutic modality challenges:



We believe that our REVEAL™ platform enables us to effectively explore innumerable application opportunities for gene circuits and efficiently optimize best-in-class solutions. Opportunities include, but are not limited to: (i) the application of the NOT GATE gene circuit toward new solid and/or liquid tumor CAR-NK or CAR-T cell therapies, (ii) the application of the Multi-Arming gene circuit to enhance and power new solid and/or liquid tumor CAR or TCR based cell therapies (iii) the development of promoters that are multi-fold stronger than current commonly used promoter benchmarks for various cell types, and (iv) cell-type and cell-state specific promoters for gene and cell therapies. We believe our platform can enable the development of multiple product candidates that harness the full breadth of our gene circuit platform beyond Logic Gating and Multi-Arming of CAR or TCR based cell therapies within oncology. Our additional discovery efforts are focused on a diverse set of cell and gene therapy applications outside of oncology. We previously entered into collaborations with Spark Therapeutics (subsidiary of Roche Holding AG) for the design of Smart Sensors for disease- and tissue-specific gene therapy. That collaboration has terminated. We also previously entered into a collaboration with BlueRock Therapeutics (subsidiary of Bayer AG) for the use of Smart Sensors and Regulator Dials for regenerative medicines.

Tumor-Associated Antigen and Protective Antigen Paired Discovery Platform

We have developed a proprietary TAA and PA paired discovery platform to select and validate NOT GATE antigen candidates, as shown in the figure below. We have built a generalizable bioinformatics pipeline that uses RNA transcriptomics data to discover and prioritize tumor and healthy tissue PAs. We identify TAAs that are highly expressed in cancer cells with minimal healthy tissue expression (antigen A in figure below). We then identify healthy tissue selective PAs (antigen E in figure below) that can protect those healthy tissues that express the TAAs (tissues 2 and 5 below). This process evaluates differences in PA gene expression in healthy versus tumor tissue. Leads are selected based on the co-expression of TAAs and PAs in healthy tissues, the localization of the PAs to the cell surface, PA topology (presence of extracellular domain) and PA-specific antibody availability. Prioritized TAA and PA pairs are further validated in primary cancer and primary healthy tissue samples. We leveraged this platform to identify PA targets for the SENTI-202 and other internal programs, thus demonstrating our ability to target both liquid and solid tumors. This approach allows us to potentially expand our NOT GATE approach to additional cancer indications in which existing single-target approaches, such as monoclonal antibodies, antibody-drug conjugates and single-target CAR cells, are inadequate due to a lack of specificity for cancer cells.



Manufacturing

In August 2023, we announced the sale of our manufacturing assets and a sublease of our 92,000 square foot manufacturing facility to Valere Bio, Inc. (“Valere Bio” or “Valere”) a wholly-owned subsidiary of Celadon Partners LLC (“Celadon Partners” or “Celadon”), a private equity group, who created a new independent contract manufacturing organization for cell and gene therapy, and synthetic biology biofoundry called GeneFab, LLC (“GeneFab”).

In connection with the transaction, we were entitled to receive total consideration of \$37.8 million, of which \$18.9 million was due at closing and was netted against a prepayment owed by us for manufacturing and research activities to GeneFab. We also received \$8 million in manufacturing services credit and subleased our 92,000 square foot good manufacturing practice (“cGMP”) facility in Alameda, CA to GeneFab. That facility lease has subsequently been amended to include approximately half of the original space for GeneFab to perform its manufacturing. Refer to Item 8. “Financial Statements and Supplementary Data — Notes to Consolidated Financial Statements — [Note 15](#) — Subsequent Events” in this Annual Report on Form 10-K for details on the lease and sublease amendments. The remaining consideration of \$18.9 million was waived by us and GeneFab in connection with an investment by Celadon Partners, the sole investor in GeneFab, into our 2024 PIPE transaction described herein. Refer to [Note 6](#). Stockholders’ Equity in Part II - Item 8, Financial and Supplementary Data - Notes to Consolidated Financial Statements of this Annual Report on Form 10-K, for additional details regarding the PIPE transaction.

The transaction has allowed us to focus on advancing our oncology programs into the clinic. GeneFab will conduct the clinical manufacturing of our CAR-NK pipeline in the United States, including SENTI-202, through a service contract.

Our Material Agreements

Exclusive/Co-Exclusive Patent License Agreement with the National Cancer Institute for FLT3 Technology

In July 2020, we entered into an Exclusive/Co-Exclusive Patent License Agreement, as amended, (“NCI FLT3 Agreement”) with the U.S. Department of Health and Human Services, as represented by the National Cancer Institute, or the NCI, under which the NCI granted us a worldwide, royalty-bearing, sublicensable license under the

NCI's patent rights related to FLT3-targeting chimeric antigen receptor, or CAR, technology (i) exclusively for the development of a universal or split CAR-based immunotherapy using T-cells or NK cells transduced with lentiviral vectors or other retroviral vectors, depending on the cell type, for the prophylaxis or treatment of cancers expressing FMS-like tyrosine kinase 3, or FLT3, where the CAR construct binds to specific domains and (ii) co-exclusively, with a third party, for the development of a multi-specific FLT3 CAR-based immunotherapy or FLT3-specific regulated or switch or Logic Gated CAR-based immunotherapy using T-cells or NK cells transduced with lentiviral vectors or other retroviral vectors, depending on the cell type, for the prophylaxis or treatment of FLT3-expressing cancers, where the CAR construct contains specific domains, in each case of (i) and (ii), to make and have made, use and have used, sell and have sold, offer to sell and import products covered by the licensed patent rights and to practice and have practiced processes covered by the licensed patent rights. In addition to the co-exclusive rights held by a third party, the foregoing license is subject to (a) certain rights of the United States government, including an irrevocable, non-exclusive, non-transferable, royalty-free license for the government to practice all licensed patent rights throughout the world and (b) the NCI's reserved rights to grant a non-exclusive license to practice the licensed patent rights for purposes of internal research (and not for purposes of commercial manufacture or distribution) at an academic or corporate facility.

Pursuant to the NCI FLT3 Agreement, we must use commercially reasonable efforts to adhere to a commercial development plan, including by achieving certain specified development and regulatory milestones by certain dates, provided that we may request to extend the timelines of such milestones, which the NCI shall not unreasonably deny if the request is supported by a reasonable showing of our diligent performance under the commercial development plan. Upon the first commercial sale of a licensed product or process, we must also use commercially reasonable efforts to make the licensed product or process reasonably accessible to the United States public.

In consideration for the rights granted to us under the NCI FLT3 Agreement, we paid the NCI a one-time, non-refundable license issue fee of \$75,000, and are required to pay the NCI a minimum flat annual royalty fee of a dollar amount in the low five digits. We are also obligated to pay the NCI certain development, regulatory and commercial milestone payments of up to an aggregate of \$4.6 million for the first licensed product to achieve the applicable event. We will also be required to pay the NCI a tiered royalty in the low-single digit percentages on net sales of each licensed product by us and our sublicensees, subject to specified reductions and offsets, including against the minimum annual royalty payments. Further, the NCI is entitled to receive a portion of the amounts – excluding royalties and certain payments – we receive as a result of the grant of a sublicense under the rights granted under the NCI FLT3 Agreement at a percentage ranging from the low-single digits to low-double digits, depending on the stage of development at which the sublicense is granted. Additionally, we are obligated to pay for a portion of patent expenses that NCI incurred with respect to the licensed patent rights.

The NCI FLT3 Agreement will expire, on a licensed product-by-licensed product and country-by-country basis, on the expiration of all licensed patent rights that claim the applicable licensed product in the applicable country. Licensed patent rights are currently expected to expire in 2037, absent patent term extension or adjustment. We may terminate the NCI FLT3 Agreement in its entirety or with respect to a country for any reason by providing 60 days' prior written notice to the NCI. The NCI may terminate the NCI FLT3 Agreement if (i) we breach any material obligations under the NCI FLT3 Agreement and fail to cure such breach within 90 days after receiving written notice thereof, or (ii) if the NCI reasonably determines that (a) we are not using commercially reasonable efforts to execute the commercial development plan, including the milestones specified therein, (b) we have willfully made a false statement or omitted a material fact in our license application or any report to the NCI, (c) we have committed a material breach of a covenant or agreement to the NCI, (d) we are not keeping the licensed products or licensed services reasonably available to the public after commercial use commences, or (e) we cannot reasonably justify a failure to comply with the domestic production requirement, in each case of (a) through (e), where we fail to alleviate the NCI's concerns in 90 days. Additionally, the NCI reserves the right to terminate or modify the NCI FLT3 Agreement if the NCI determines that such action is necessary to meet the requirements for public use specified by federal regulations issued after the date of the license and these requirements are not reasonably satisfied by us.

Exclusive Patent License Agreement with the National Cancer Institute for CD33 Technology

In May 2021, we entered into an Exclusive Patent License Agreement (“NCI CD33 Agreement”), with the U.S. Department of Health and Human Services, as represented by the NCI, under which the NCI granted us an exclusive, royalty-bearing, sublicensable, worldwide license under the NCI’s patent rights related to CD33 targeting CAR technology to make and have made, use and have used, sell and have sold, offer to sell and import products covered by the licensed patent rights and to practice and have practiced processes covered by the licensed patent rights, for the development of a CD33-specific logic-gated CAR-based immunotherapy using autologous human T cells transduced with lentiviral vectors or off-the-shelf human NK cells transduced with retroviral vectors for the prophylaxis or treatment of CD33-expressing cancers. The foregoing license is subject to (i) certain rights of the United States government, including an irrevocable, non-exclusive, nontransferable, royalty-free license for the government to practice all licensed patent rights throughout the world and (ii) the NCI’s reserved rights to grant a non-exclusive license to practice the licensed patent rights for purposes of internal research (and not for purposes of commercial manufacture or distribution) at an academic or corporate facility.

Pursuant to the NCI CD33 Agreement, we must use commercially reasonable efforts to adhere to a commercial development plan, including by achieving certain specified development and regulatory milestones by certain dates, provided that we may request to extend the timelines of such milestones, which the NCI shall not unreasonably deny if the request is supported by a reasonable showing of our diligent performance under the commercial development plan. Upon the first commercial sale of a licensed product or process, we must also use commercially reasonable efforts to make the licensed product or process reasonably accessible to the United States public.

In consideration for the rights granted to us under the NCI CD33 Agreement, we paid the NCI a one-time, non-refundable license issue fee of \$150,000, and are required to pay the NCI a minimum flat annual royalty fee of a dollar amount in the low five digits. We are obligated to pay the NCI certain development, regulatory and commercial milestone payments of an aggregate of \$3.5 million for the first licensed product to achieve the applicable events. We will also be required to pay the NCI a flat royalty in the low single-digit percentages on net sales of each licensed product by us and our sublicensees, subject to specified reductions and offsets, including against the minimum annual royalty payments. Further, the NCI is entitled to receive a portion of the amounts—excluding royalties and certain payments—we receive as a result of the grant of a sublicense under the rights granted under the NCI CD33 Agreement at a percentage ranging from the low-single digits to low-double digits, depending on the stage of development at which the sublicense is granted. Additionally, we are obligated to pay for patent expenses that NCI incurred with respect to the licensed patent rights.

The NCI CD33 Agreement will expire, on a licensed product-by-licensed product and country-by-country basis, on the expiration of all licensed patent rights that claim the applicable licensed product in the applicable country. Licensed patent rights are currently expected to expire in 2039, absent any patent term extension or adjustment. We may terminate the NCI CD33 Agreement in its entirety or with respect to a country for any reason by providing 60 days’ prior written notice to the NCI. The NCI may terminate the NCI CD33 Agreement if (i) we breach any material obligations under the NCI CD33 Agreement and fail to cure such breach within 90 days after receiving written notice thereof, or (ii) if the NCI reasonably determines that (a) we are not executing the commercial development plan, including the milestones specified therein, (b) we have willfully made a false statement or omitted a material fact in our license application or any report to the NCI, (c) we have committed a material breach of a covenant or agreement to the NCI, (d) we are not keeping the licensed products or licensed services reasonably available to the public after commercial use commences, (e) we cannot reasonably satisfy unmet health and safety needs, (f) we cannot reasonably justify a failure to comply with the domestic production requirement or (g) we have been found by a court to have violated antitrust laws in connection with our performance under the NCI CD33 Agreement, in each case of (a) through (f), where we fail to alleviate the NCI’s concerns in 90 days. Additionally, the NCI reserves the right to terminate or modify the NCI CD33 Agreement if the NCI determines that such action is necessary to meet the requirements for public use specified by federal regulations issued after the date of the license and these requirements are not reasonably satisfied by us.

Research Collaboration and License Agreement with Spark Therapeutics, Inc.

In April 2021, we entered into a Research Collaboration and License Agreement (“Spark Agreement”), with Spark Therapeutics. Under the Spark Agreement, we engaged in a collaborative research program with Spark

Therapeutics to design, build and test synthetic promoters that are intended to have each one of five sets of desired characteristics, or promoter profiles. Spark Therapeutics is obligated to reimburse us for our costs and expenses incurred in connection with the conduct of the research program. Upon completion of work under the research program for a particular promoter profile, Spark Therapeutics may select and designate, subject to a specified maximum, a certain number of synthetic promoters that are designed, built and tested or identified by us under the research program with respect to such promoter profiles as optioned promoters. On a promoter profile-by-promoter-profile basis, for each optioned promoters, Spark Therapeutics will have the right to obtain an exclusive, royalty-bearing, sublicensable, worldwide license under our intellectual property rights to develop, manufacture, commercialize and otherwise exploit, for the cure, treatment, palliation, prevention or diagnosis of specified indications, or a licensed field, *in vivo* gene therapy products incorporating such applicable optioned promoter with respect to such promoter profile and is directed towards specific cell types in the central nervous system, eye, or liver. Spark Therapeutics may exercise its option for any optioned promoter prior to the expiration of the applicable evaluation period. Spark Therapeutics opted to not exercise its option following completion of the research under this collaboration.

Pursuant to the Spark Agreement, we received an upfront payment from Spark Therapeutics of \$3 million. If Spark Therapeutics exercises an option for a particular promoter profile, it will be required to pay us an option exercise fee in the low to mid-single digit millions. For each licensed promoter-containing *in vivo* gene therapy product, or licensed product, developed and commercialized by Spark Therapeutics or its affiliates or sublicensees, we are eligible to receive development, regulatory and commercialization milestone payments from Spark Therapeutics up to an aggregate dollar amount in the tens of millions, and sales milestone payments from Spark Therapeutics up to an aggregate dollar amount in the low hundred millions. In total, we are potentially eligible to receive upfront, opt-in and milestone payments exceeding \$645 million if Spark Therapeutics exercises its options for all five promoter profiles and Spark Therapeutics, its affiliates and its sublicensees successfully develop and commercialize five licensed products; we will be eligible to receive additional milestone payments if additional licensed products are developed and commercialized by Spark Therapeutics, its affiliates and its sublicensees. Further, Spark Therapeutics will be obligated to pay us royalties in the low-single digits percentage on net sales of each licensed product sold by Spark Therapeutics, its affiliates and its sublicensees, subject to specified reductions and offsets. Spark Therapeutics' obligation to pay royalties to us will expire for each licensed product when certain licensed patents and regulatory exclusivities have expired in the country of sale and a minimum number of years has elapsed since the first commercial sale of such licensed product in such country. The Spark Agreement will expire at the end of the last evaluation period if Spark Therapeutics does not exercise any of its options. If Spark Therapeutics exercises at least one option, then the Spark Agreement will expire, on a licensed product-by- licensed product and country-by-country basis, upon the expiration of Spark Therapeutics' royalty obligation for such licensed product in such country. Spark Therapeutics may terminate the Spark Agreement in its entirety, or on a promoter profile-by-promoter profile or licensed promoter-by-licensed promoter basis, following a specified notice period. Either party may terminate the Spark Agreement in its entirety or in part if the other party fails to cure its material breach of the Spark Agreement within a specified cure period, or immediately if the other party becomes bankrupt or insolvent. We may terminate the Spark Agreement if Spark Therapeutics or any of its affiliates commences any action challenging the validity or enforceability of the licensed patents, other than in certain specified circumstances, or if Spark Therapeutics' sublicensee challenges our licensed patents, under certain specified circumstances.

Collaboration and Option Agreement with BlueRock Therapeutics LP

In May 2021, we entered into a Collaboration and Option Agreement ("BlueRock Agreement"), with BlueRock Therapeutics LP ("BlueRock"). BlueRock is a wholly-owned subsidiary of Bayer Healthcare LLC. Bayer Healthcare LLC's parent company is Bayer AG, which served as the lead investor in our Series B financing through its Leaps by Bayer unit. We amended the BlueRock Agreement effective September 4, 2025, to, among other things, extend BlueRock's research term in order to further facilitate its research thereunder. Under the BlueRock Agreement, we have engaged in three collaboration programs with BlueRock to research and develop gene circuits that have specified functions. We are responsible for up to \$10 million in costs and expenses incurred in connection with our conduct of research activities under an agreed-upon research plan. If the parties mutually agree to add new research activities to the research plan, then BlueRock will be obligated to reimburse us for the costs and expenses that we incur in connection with the agreed-upon additional research activities that, together with costs and expenses

incurred under the initial research plan, exceed \$10 million. We have not yet received any payment from BlueRock under the BlueRock Agreement and we do not have any obligations to make any payments to BlueRock under the BlueRock Agreement. We are obligated to use commercially reasonable efforts to conduct the research activities assigned to us under the research plan. If we materially breach that obligation and do not cure it within a specified period, BlueRock will have the right to receive a transfer of technology and perform the remainder of the research plan at its own expense.

Upon completion of work under a research plan for a collaboration program, the joint steering committee established by the parties will identify, subject to a specified maximum, a number of gene circuits per collaboration program, or option gene circuits, that have been successfully developed under such collaboration program. We have granted to BlueRock an option, on a collaboration program-by-collaboration program basis, to obtain an exclusive or non-exclusive license under our intellectual property rights to develop, manufacture and commercialize, for the prevention, treatment or palliation of specified indications, or a licensed field, cell therapy products that contain cells of specified types that incorporate an option gene circuit from such collaboration program or a closely related derivative gene circuit. For each collaboration program, BlueRock may conduct evaluation activities on the option gene circuits from such collaboration program to determine whether to exercise its option, and BlueRock may exercise its option to such option gene circuits together with certain closely related derivative gene circuits, or licensed gene circuits, prior to the expiration of a certain time period (the “option exercise period”), which includes a minimum amount of time after the expiration of the three-year research term, delivery of a data package to BlueRock, and completion of a transfer of technology to enable BlueRock’s evaluation activities, whichever happens last. If BlueRock exercises its option for a collaboration program, the parties shall negotiate the financial terms, which will be within certain pre-agreed parameters and may be determined by baseball arbitration if the parties do not reach agreement within the specified negotiation period, and enter into an otherwise agreed-upon written license agreement, or a commercial license. If the parties enter into a commercial license, BlueRock will be responsible, at its sole expense, for the development, manufacture and commercialization, in the applicable licensed field, of cell therapy products containing cells of an applicable type that incorporate an applicable licensed gene circuit, and we will be eligible to receive from BlueRock development, regulatory and commercialization milestone payments, in amounts to be agreed-upon before entry into the commercial license, and royalties, subject to negotiation, equal to low single digit percentages of net sales of applicable cell therapy products sold by BlueRock, its affiliates and its sublicensees, subject to specified reductions and offsets. If BlueRock does not exercise its option for a collaboration program prior to the expiration of the applicable option exercise period, then we will retain all rights to the gene circuits developed under such collaboration program without any further obligations to BlueRock.

For each collaboration program, we are obligated to work exclusively with BlueRock on the development, manufacture and commercialization, in the applicable licensed field, of cell therapy products that contain cells of specified types that incorporate the specific type of gene circuit for such collaboration programs. The end date for this exclusivity obligation for each collaboration program will depend upon whether BlueRock exercises its option for such collaboration program and, if it does, whether the parties enter into a commercial license for such collaboration program. If BlueRock does not exercise its option, then it will end on the expiration of the applicable option exercise period. If BlueRock exercises its option but the parties do not enter into a commercial license, then it will end after a specified time following expiration of the applicable negotiation or baseball arbitration period for the commercial license. If BlueRock exercises its option and the parties enter into a commercial license, then it will end a certain amount of time after the later of completion of research activities or execution of the commercial license.

In addition to the option described above, we granted a right of first negotiation to BlueRock, on a collaboration program-by-collaboration program basis, to obtain a license under our intellectual property rights to research, develop, manufacture and commercialize, for the prevention, treatment or palliation of a specified disease area (the “negotiation field”), cell therapy products containing cells of a specified type (“negotiation cells”), that incorporate an applicable efficacy gene circuit developed under such collaboration program. This right of first negotiation does not overlap with the option described above because it pertains to different combinations of fields, cell types and gene circuits. Starting from the effective date of the BlueRock Agreement and, on a collaboration program-by-collaboration program basis, continuing for 12 months or, if later, until the completion of a certain portion of the research plan for such collaboration program, we are obligated to work exclusively with BlueRock on the

development, manufacture and commercialization, in the negotiation field, of cell therapy products containing negotiation cells that incorporate the specific type of gene circuit for such collaboration program.

The BlueRock Agreement will expire, on a collaboration program-by-collaboration program basis, upon the earliest of the expiration of the option exercise period for such collaboration program, the effective date of the commercial license, the expiration of the applicable negotiation or baseball arbitration period for the commercial license, or the date the parties mutually agree to cease negotiations for the commercial license. Such expiration shall occur no later than January 2026 unless the parties mutually agree to extend the research term. BlueRock may terminate the BlueRock Agreement in its entirety, or on a collaboration program-by-collaboration program basis, following a specified notice period. Either party may terminate the BlueRock Agreement if the other party fails to cure its material breach of the BlueRock Agreement within a specified cure period, or immediately if the other party becomes bankrupt or insolvent. We may terminate the BlueRock Agreement if BlueRock or any of its affiliates commences any action challenging the validity or enforceability of our patents, other than in certain specified circumstances, or if BlueRock's sublicensee challenges our patents under certain specified circumstances.

National Cancer Institute (NCI) Contract to Support Development of SENTI-202 in Acute Myeloid Leukemia

In September 2021, we were awarded funding from the National Cancer Institute in the form of a Small Business Innovation Research ("SBIR") contract to support further development of SENTI-202 for AML towards clinical development. The Direct to Phase II SBIR contract provided funding over two years from the NCI of the National Institutes of Health ("NIH") and is titled: "Logic-Gated Chimeric Antigen Receptor- Natural Killer Cell Therapy for Acute Myeloid Leukemia." The period of funding and performance under this SBIR contract ended on July 31, 2023 and we received notice from the NIH that this SBIR contract has been administratively closed on February 26, 2024. As a result of the award of this contract, the SENTI-202 program was funded in part with Federal funds from the National Cancer Institute, National Institutes of Health, Department of Health and Human Services, under Contract No. 75N91021C00026.

Exclusive Patent License Agreement with the National Cancer Institute for GPC3 Technology

In February 2021, we entered into an Exclusive Patent License Agreement ("NCI GPC3 Agreement"), with the U.S. Department of Health and Human Services, as represented by the NCI, under which the NCI granted us an exclusive, royalty-bearing, sublicensable, worldwide license under the NCI's patent rights related to glypican-3, or GPC3, targeting CAR technology to make and have made, use and have used, sell and have sold, offer to sell and import products covered by the licensed patent rights and to practice and have practiced processes covered by the licensed patent rights, for the development, production and commercialization of a monospecific CAR-based immunotherapy for the prophylaxis and treatment of GPC3 expressing human cancers using unmodified, off-the-shelf natural killer cells transduced with a viral vector that expresses a CAR, and a gene circuit regulating the expression of one or more armoring payloads, specifically excluding the use of autologous T cells or T cells that have been genetically modified to become off-the-shelf. The foregoing license is subject to (i) certain rights of the United States government, including an irrevocable, non-exclusive, nontransferable, royalty-free license for the government to practice all licensed patent rights throughout the world and (ii) the NCI's reserved rights to grant a non-exclusive license to practice the licensed patent rights for purposes of internal research (and not for purposes of commercial manufacture or distribution) at an academic or corporate facility.

The NCI GPC3 Agreement will expire, on a licensed product-by-licensed product and country-by-country basis, on the expiration of all licensed patent rights that claim the applicable licensed product in the applicable country. Licensed patent rights are currently expected to expire in 2033, absent any patent term extension or adjustment. We may terminate the NCI GPC3 Agreement in its entirety or with respect to a country for any reason by providing 60 days' prior written notice to the NCI. The NCI may terminate the NCI GPC3 Agreement if (i) we breach any material obligations under the NCI GPC3 Agreement and fail to cure such breach within 90 days after receiving written notice thereof, or (ii) if the NCI reasonably determines that (a) we are not executing the commercial development plan, including the milestones specified therein, (b) we have willfully made a false statement or omitted a material fact in our license application or any report to the NCI, (c) we have committed a material breach of a covenant or agreement to the NCI, (d) we are not keeping the licensed products or licensed services reasonably

available to the public after commercial use commences, (e) we cannot reasonably satisfy unmet health and safety needs, (f) we cannot reasonably justify a failure to comply with the domestic production requirement or (g) we have been found by a court to have violated antitrust laws in connection with our performance under the NCI GPC3 Agreement, in each case of (a) through (f), where we fail to alleviate the NCI's concerns in 90 days. Additionally, the NCI reserves the right to terminate or modify the NCI GPC3 Agreement if the NCI determines that such action is necessary to meet the requirements for public use specified by federal regulations issued after the date of the license and these requirements are not reasonably satisfied by us.

Framework Agreement with GeneFab, LLC

On August 7, 2023, we entered into a framework agreement, (the "Framework Agreement"), with GeneFab, LLC, a Delaware limited liability company, or GeneFab, and Valere Bio, Inc., a Delaware corporation and the parent company of GeneFab, ("Valere"), which is wholly owned by a company managed by Celadon Partners, pursuant to which we, subject to the terms and conditions therein, (i) sold, assigned and transferred its rights, title and interest in certain of the assets and contractual rights to GeneFab, including all of our equipment and leasehold improvements at our facilities in Alameda, California (the "Alameda Facility") and certain of our intellectual property related to the schematics for and design of the Alameda Facility, and (ii) subleased to GeneFab its premises under the lease, which has subsequently been amended in March 2026, for the Alameda Facility (a portion of which is subject to the satisfaction of certain conditions), or collectively, the Purchased Assets. Refer to Item 8. "Financial Statements and Supplementary Data —Notes to Consolidated Financial Statements — Note 15 — Subsequent Events" in this Annual Report on Form 10-K for details on the lease and sublease amendments. In addition, we agreed to grant a license to GeneFab under certain of its intellectual property rights to conduct manufacturing services and to research, develop, manufacture and commercialize products outside of oncology, pursuant to a license agreement under negotiation ("the License Agreement"). Donald Tang, a member of our Board of Directors appointed in December 2024, is a manager of Celadon Partners.

Pursuant to the Framework Agreement, we sold the Purchased Assets, and consummated, or will consummate, the other transactions contemplated thereby, for total consideration of \$37.8 million in cash. Fifty percent of the Cash Consideration, or \$18.9 million, was paid at closing and the parties waived payment of the remaining \$18.9 million in connection with Celadon's investment in the private placement in December 2024 as described in Part II - Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operation - *Recent Developments* of this Annual Report on Form 10-K.

GeneFab was also provided an option (which was subsequently assigned to Celadon Partners) to purchase up to 1,963,344 shares (i.e., up to \$20.0 million worth) of our common stock at an exercise price of \$10.18670, or the GeneFab Option. The GeneFab Option is exercisable upon the execution of the License Agreement, no later than August 7, 2026. The GeneFab Option may be exercised in installments of common stock equal to no more than 19.9% of our outstanding shares of common stock as of the closing date of the transaction.

As additional consideration for the transaction, we entered into a seller economic share agreement with GeneFab ("GeneFab Economic Share"), pursuant to which we will be entitled to receive ten percent of the realized gains of GeneFab's parent company arising and resulting from any cash or in-kind distributions from GeneFab in connection with a dividend or sale event, subject to the terms and conditions of the GeneFab Economic Share.

On December 10, 2024, in connection with the private placement described in further detail in Part II, Item 8. "Financial Statements and Supplementary Data —Notes to Consolidated Financial Statements — Note 6 — Stockholders' Equity" in this Annual Report on Form 10-K, we entered into an amendment of the GeneFab Framework Agreement with GeneFab and Valere Bio, Inc. As part of the agreement, the GeneFab Note Receivable was waived by the parties. Additionally, we entered into an amended and restated development and manufacturing services agreement with GeneFab.

Collaboration and Option Agreement with Celest Therapeutics, (Shanghai) Co. Ltd.

In November 2023, we entered into a Collaboration and Option Agreement (the “Celest Agreement”), with Celest Therapeutics. Under the Celest Agreement, we agreed to collaborate with Celest Therapeutics for Celest Therapeutics to carry out an investigator-initiated trial (“IIT”) of the SENTI-301A gene circuit in Celest Therapeutics’ SN301A product candidate (manufactured by Celest) in mainland China with certain technical support from us. Celest initiated a Phase 1 clinical trial for SN301A in China in 2024. Based on the observation of certain dose limiting toxicities in the SN301A Investigator Sponsored Trial (the “SN301A Trial”), Celest decided to cease enrollment of the clinical trial in April 2025.

Under our agreement with Celest, Celest Therapeutics has an exclusive option to obtain an exclusive, royalty-bearing, license in mainland China, Hong Kong, Macau, and Taiwan under our intellectual property rights to research, develop, manufacture, commercialize and otherwise exploit SN301A, an off-the-shelf CAR-NK cell therapy product candidate that consists of NK cells that have been engineered to express our CAR having an antigen binding portion that is directed to GPC3 and our crIL15. Celest Therapeutics may exercise its option prior to the expiration of a certain time period (the “option exercise period”). If Celest Therapeutics exercises its option during the option exercise period, the parties shall negotiate the terms of the license agreement, which will include and be consistent with pre-agreed financial terms, and Celest Therapeutics will be required to pay us an option exercise fee in the mid-single digit millions upon the execution of the license agreement. If the parties enter into a license agreement having terms consistent with the pre-agreed financial terms, we will be eligible to receive certain option exercise fee and milestone payments, in an aggregate amount of \$156.0 million, as well as certain tiered royalty payment. Based on the initial results of the SN301A Trial, we do not anticipate that Celest will exercise its option.

The Celest Agreement will expire upon the earliest of the expiration of the option exercise period, the expiration of the negotiation period of the license agreement, or on the date of execution of the license agreement. We may terminate the Celest Agreement if Celest Therapeutics does not proceed to certain IIT preparation stages or if there is a delay to meeting the target date for the IIT initiation and the parties are unable to agree to an extension target date. We may also terminate the Celest Agreement if Celest Therapeutics or any of its affiliates commences any action challenging the validity or enforceability of our patents, other than in certain specified circumstances. Either party may terminate the Celest Agreement if the other party fails to cure its material breach of the Celest Agreement within a specified cure period, or immediately if the other party becomes bankrupt or insolvent.

Competition

We are aware of other companies that are developing technologies that may compete with elements of our gene circuit platform technologies, including A2 Biotherapeutics, Inc., Arsenal Biosciences, Inc., Beam Therapeutics Inc., CRISPR Therapeutics AG, Encoded Therapeutics, Inc., ImmPACT Bio USA, Inc., Intellia Therapeutics, Inc., MeiraGTx Holdings plc, Obsidian Therapeutics, Inc. and Strand Therapeutics Inc. We are also aware of other companies that are focused on the application of engineered CAR-based immune cell therapies, including NK cells, to oncology, and such competitors include Allogene Therapeutics, Inc., Artiva Biotherapeutics, Inc., Atara Biotherapeutics, Inc., Bristol-Myers Squibb Company, Century Therapeutics, Inc., Caribou Biosciences, Inc., Cytovia Therapeutics, Inc., Fate Therapeutics, Inc., Gilead Sciences, Inc., Lyell Immunopharma, Inc., Nkarta, Inc., Sana Biotechnology, Inc., Shoreline Biosciences, Inc., Takeda Pharmaceutical Company and Vor Biopharma Inc. Some of these companies may have substantially greater financial and other resources than we have, such as larger research and development staff and well-established marketing and salesforces. Mergers and acquisitions in the biotechnology industry may result in even greater resource concentration among a smaller number of competitors. Smaller or early-stage companies may also prove to be significant competitors, either alone or through collaborative arrangements with large and established companies.

These companies compete with us in recruiting scientific and managerial talent. Our success will partially depend on our ability to obtain, maintain, enforce and defend patents and other intellectual property rights with respect to our product candidates. Our competitors may obtain FDA or other regulatory approval for their product candidates more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize products that are safer, more effective, have fewer or less severe side effects, are more convenient or are less expensive than any products that we may develop.

Intellectual Property

Intellectual property is critical to our differentiated technology. Our overall strategy is to own and control all intellectual property related to our gene circuits. We protect our proprietary technology and intellectual property rights through a combination of wholly-owned patent rights, licensed patent rights in particular fields of use, trademark rights, trade secrets and know-how, contractual provisions and confidentiality procedures. Our general strategy includes protecting our proprietary technology and intellectual property rights domestically and in certain key foreign markets. We continually grow and supplement our intellectual property portfolio with new filings and applications not only to strengthen the protection of proprietary technology and intellectual property rights, but also to protect and support the development and commercialization of current and future product candidates. In addition, we seek to protect our technological innovations and branding efforts by filing new patent and trademark applications at the appropriate time and in strategically relevant jurisdictions.

Our patent portfolio relates to our ongoing research and development activities and includes a combination of patents and pending patent applications licensed from third parties, jointly owned with third parties, and solely owned by us. The patents and pending patent applications in our portfolio can be categorized as relating to our gene circuit platform technologies, including Logic Gating gene circuits, Multi-Arming gene circuits, Regulator Dial gene circuits and Smart Sensor gene circuits; our product candidates, including SENTI-202 and SENTI-301A, as well as other possible pipeline product candidates; and alternative technologies, and our patents and patent application include claims directed to compositions, methods (including preparation, use, or treatment), processes, dosing and formulations. As of March 19, 2026, our in-licensed and owned patent portfolio consists of over 15 issued patents and 237 pending patent applications, of which we own or co-own 215 pending patent applications, and have licensed 3 patents and 22 pending patent applications.

The term of a patent in our patent portfolio varies depending upon a number of factors such as the date of filing of the patent application, the date of patent issuance and the legal term of patents in the countries in which they are obtained. Generally, patents issued from applications filed in the United States are effective for 20 years from the earliest non-provisional filing date of the patent application to which the patent claims priority. In the United States, a term of a patent may be lengthened by patent term adjustment (“PTA”), which compensates a patentee for administrative delays by the USPTO in examining and granting a patent, or may be shortened if a patent is terminally disclaimed over an earlier filed patent. In addition, in certain instances, the patent term of a U.S. patent that covers an FDA-approved drug may also be eligible for extension to recapture a portion of the term effectively lost as a result of clinical trials and the FDA regulatory review period, such extension is referred to as patent term extension (“PTE”). The restoration period cannot be longer than five years, and the total patent term, including the restoration period, must not exceed 14 years following FDA approval. Similar provisions are available in Europe and certain other foreign jurisdictions to extend the term of a patent that covers an approved drug. However there is no guarantee that the applicable authorities, including the FDA in the United States, will agree with our assessment of whether such extensions should be granted, and if granted, the length of such extensions. The duration of patents outside of the United States varies in accordance with provisions of applicable local law, but typically is also 20 years from the earliest non-provisional filing date of the patent application to which the patent claims priority. The actual protection afforded by a patent varies on a product-by-product basis, from country-to-country, and depends upon many factors, including the type of patent, the scope of its coverage, the availability of regulatory-related extensions, the availability of legal remedies in a particular country and the validity and enforceability of the patent.

We also utilize trademark rights to protect our brand and have filed trademark applications for the marks “SENTI,” “SENTI BIOSCIENCES,” “SENTI BIO,” and Senti’s “S” logo in the United States and in certain marks in foreign countries. As of March 19, 2026, we own six United States trademark registrations, one pending and/or allowed United States trademark applications, and five foreign trademark registrations. We have also registered multiple internet domain names to further supplement the protection of our brand.

Government Regulation

The U.S. Food and Drug Administration, or FDA, and other regulatory authorities at federal, state and local levels, as well as in foreign countries, extensively regulate, among other things, the research, development, testing,

manufacture, quality control, import, export, safety, effectiveness, labeling, packaging, storage, distribution, record keeping, approval, advertising, promotion, marketing, sampling post-approval monitoring and post-approval reporting of biologics such as those we are developing. Any product candidates that we develop must be approved by the FDA before they may be legally marketed in the United States and by the appropriate foreign regulatory agency before they may be legally marketed in those foreign countries. Generally, our activities in other countries will be subject to regulation that is similar in nature and scope as that imposed in the United States, although there can be important differences.

U.S. Biologics Regulation

In the United States, biological products are subject to regulation under the Federal Food, Drug, and Cosmetic Act, the Public Health Service Act, and other federal, state, local and foreign statutes and their implementing regulations. The process of obtaining regulatory approvals and the subsequent compliance with appropriate federal, state, local and foreign statutes and regulations require the expenditure of substantial time and financial resources. The process required by the FDA before biologics may be marketed in the United States generally involves the following:

- completion of preclinical laboratory tests and animal studies performed in accordance with the FDA's Good Laboratory Practice requirements, or GLP;
- submission to the FDA of an investigational new drug application, or IND, which must become effective before clinical trials may begin;
- approval by an institutional review board, or IRB, or ethics committee at each clinical site before the trial is commenced;
- performance of adequate and well-controlled human clinical trials according to the FDA's regulations commonly referred to as good clinical practice, or GCP, regulations and any additional requirements for the protection of human research subjects and their health information to establish the safety, purity and potency of the proposed biologic product candidate for its intended purpose;
- preparation of and submission to the FDA of a Biologics License Application, or BLA, after completion of all pivotal clinical trials;
- satisfactory completion of an FDA Advisory Committee review, if applicable;
- a determination by the FDA within 60 days of its receipt of a BLA to file the application for review;
- satisfactory completion of an FDA pre-approval inspection of the manufacturing facility or facilities at which the proposed product is produced to assess compliance with cGMP, and to assure that the facilities, methods and controls are adequate to preserve the biological product's continued safety, purity and potency and, if applicable, to assess compliance with the FDA's current Good Tissue Practice, or cGTP, requirements for the use of human cellular and tissue products, and of selected clinical investigation sites to assess compliance with GCPs;
- potential FDA audit of the nonclinical and clinical study sites that generated the data in support of the BLA; and
- FDA review and approval of the BLA to permit commercial marketing of the product for particular indications for use in the United States.

Before testing any biological product candidate in humans, the product candidate enters the preclinical testing stage. Preclinical tests, also referred to as nonclinical studies, include laboratory evaluations of product chemistry, toxicity and formulation, as well as animal studies to assess the potential safety and activity of the product candidate. The conduct of the preclinical tests must comply with federal regulations and requirements including GLPs.

Prior to beginning the first clinical trial with a product candidate in the United States, we must submit an IND to the FDA. An IND is a request for authorization from the FDA to administer an investigational new drug to humans. The central focus of an IND submission is on the general investigational plan and the protocol(s) for clinical studies. Some preclinical testing may continue even after the IND is submitted. The IND also includes results of animal and *in vitro* studies assessing the toxicology, pharmacokinetics, pharmacology and pharmacodynamic characteristics of the product; chemistry, manufacturing and controls information; and any available human data or literature to support the use of the investigational product. An IND must become effective before human clinical trials may begin. The IND automatically becomes effective 30 days after receipt by the FDA, unless the FDA, within the 30-day time period, raises safety concerns or questions about the proposed clinical trial. In such a case, the IND may be placed on clinical hold and the IND sponsor and the FDA must resolve any outstanding concerns or questions before the clinical trial can begin. Submission of an IND therefore may or may not result in FDA authorization to begin a clinical trial.

In addition to the submission of an IND to the FDA before initiation of a clinical trial in the United States, certain human clinical trials involving recombinant or synthetic nucleic acid molecules are subject to oversight of institutional biosafety committees, or IBCs, as set forth in the National Institutes of Health, or NIH, Guidelines for Research Involving Recombinant DNA Molecules (“NIH Guidelines”). Specifically, under the NIH Guidelines, supervision of human gene transfer trials includes evaluation and assessment by an IBC, a local institutional committee that reviews and oversees research utilizing recombinant or synthetic nucleic acid molecules at that institution. The IBC assesses the safety of the research and identifies any potential risk to public health or the environment, and such review may result in some delay before initiation of a clinical trial. While the NIH Guidelines are not mandatory unless the research in question is being conducted at or sponsored by institutions receiving NIH funding of recombinant or synthetic nucleic acid molecule research, many companies and other institutions not otherwise subject to the NIH Guidelines voluntarily follow them.

Clinical trials involve the administration of the investigational product to human subjects under the supervision of qualified investigators in accordance with GCPs, which include the requirement that all research subjects provide their informed consent for their participation in any clinical study. Clinical trials are conducted under protocols detailing, among other things, the objectives of the study, the parameters to be used in monitoring safety and the effectiveness criteria to be evaluated. A separate submission to the existing IND must be made for each successive clinical trial conducted during product development and for any subsequent protocol amendments. Furthermore, an independent IRB for each site proposing to conduct the clinical trial must review and approve the plan for any clinical trial and its informed consent form before the clinical trial begins at that site, and must monitor the study until completed. An IRB is charged with protecting the welfare and rights of trial participants and considers such items as whether the risks to individuals participating in the clinical trials are minimized and are reasonable in relation to anticipated benefits. The IRB also approves the informed consent form that must be provided to each clinical trial subject or his or her legal representative and must monitor the clinical trial until completed. Regulatory authorities, the IRB or the sponsor may suspend a clinical trial at any time on various grounds, including a finding that the subjects are being exposed to an unacceptable health risk or that the trial is unlikely to meet its stated objectives. Some studies also include oversight by an independent group of qualified experts organized by the clinical study sponsor, known as a data safety monitoring board, which provides authorization for whether or not a study may move forward at designated check points based on access to certain data from the study and may halt the clinical trial if it determines that there is an unacceptable safety risk for subjects or other grounds, such as no demonstration of efficacy. There are also requirements governing the reporting of ongoing clinical studies and clinical study results to public registries.

For purposes of BLA approval, human clinical trials are typically conducted in three sequential phases that may overlap or be combined:

- Phase 1—The investigational product is initially introduced into healthy human subjects or patients with the target disease or condition. These studies are designed to test the safety, dosage tolerance, absorption, metabolism and distribution of the investigational product in humans, the side effects associated with increasing doses, and, if possible, to gain early evidence on effectiveness. In the case of some products for severe or life-

threatening diseases, such as cancer, especially when the product may be too inherently toxic to ethically administer to healthy volunteers, the initial human testing is often conducted in patients.

- Phase 2—The investigational product is administered to a limited patient population with a specified disease or condition to evaluate the preliminary efficacy, optimal dosages, dose tolerance and dosing schedule and to identify possible adverse side effects and safety risks. Multiple Phase 2 clinical trials may be conducted to obtain information prior to beginning larger and more expensive Phase 3 clinical trials.
- Phase 3—The investigational product is administered to an expanded patient population to further evaluate dosage, to provide statistically significant evidence of clinical efficacy and to further test for safety, generally at multiple geographically dispersed clinical trial sites. These clinical trials are intended to establish the overall risk/benefit ratio of the investigational product and to provide an adequate basis for product approval. Generally, two adequate and well-controlled Phase 3 clinical trials are required by the FDA for approval of a BLA.

In March 2022, the FDA released final guidance titled “Expansion Cohorts: Use in First-In-Human Clinical Trials to Expedite Development of Oncology Drugs and Biologics,” which outlines how drug developers can utilize an adaptive trial design commonly referred to as a seamless trial design in early stages of oncology drug development (i.e., the first-in-human clinical trial) to compress the traditional three phases of trials into one continuous trial called an expansion cohort trial. Information to support the design of individual expansion cohorts are included in IND applications and assessed by FDA. Expansion cohort trials can potentially bring efficiency to drug development and reduce development costs and time.

In some cases, the FDA may require, or companies may voluntarily pursue, additional clinical trials after a product is approved to gain more information about the product in the intended therapeutic indication, particularly for long-term safety follow-up. Completion of these so-called Phase 4 studies may also be made a condition to approval of the BLA.

Concurrent with clinical trials, companies may complete additional animal studies and develop additional information about the biological characteristics of the product candidate, and must finalize a process for manufacturing the product in commercial quantities in accordance with cGMP requirements. The manufacturing process must be capable of consistently producing quality batches of the product candidate and, among other things, must develop methods for testing the safety, purity and potency of the final product. Additionally, appropriate packaging must be selected and tested, and stability studies must be conducted to demonstrate that the product candidate does not undergo unacceptable deterioration over its shelf life.

BLA Submission and Review by the FDA

Assuming successful completion of all required testing in accordance with all applicable regulatory requirements, the results of product development, nonclinical studies and clinical trials are submitted to the FDA as part of a BLA requesting approval to market the product for one or more indications. The BLA must include all relevant data available from preclinical and clinical studies, including negative or ambiguous results as well as positive findings, together with detailed information relating to the product’s chemistry, manufacturing, controls and proposed labeling, among other things. Data can come from company-sponsored clinical studies intended to test the safety and effectiveness of a use of the product, or from a number of alternative sources, including studies initiated by independent investigators. To support marketing approval, the data submitted must be sufficient in quality and quantity to establish the safety and effectiveness of the investigational drug product to the satisfaction of the FDA. The submission of a BLA requires payment of a substantial application user fee to the FDA, unless a waiver or exemption applies.

Within 60 days following submission of the application, the FDA reviews a BLA submitted to determine if it is substantially complete before the FDA accepts it for filing. The FDA may refuse to file any BLA that it deems incomplete or not properly reviewable at the time of submission and may request additional information. In this

event, the BLA must be resubmitted with the additional information. The resubmitted application also is subject to review before the FDA accepts it for filing.

Once a BLA has been accepted for filing, the FDA's goal is to review standard applications within ten months after the filing date, or, if the application qualifies for priority review, six months after the FDA accepts the application for filing. In both standard and priority reviews, the review process may also be extended by FDA requests for additional information or clarification. The FDA reviews a BLA to determine, among other things, whether a product is safe, pure and potent and the facility in which it is manufactured, processed, packed or held meets standards designed to assure the product's continued safety, purity and potency. The FDA may also convene an advisory committee to provide clinical insight on application review questions. An advisory committee is a panel of independent experts, including clinicians and other scientific experts, that reviews, evaluates and provides a recommendation as to whether the application should be approved and under what conditions. The FDA is not bound by the recommendations of an advisory committee, but it considers such recommendations carefully when making decisions.

Before approving a BLA, the FDA will typically inspect the facility or facilities where the product is manufactured. The FDA will not approve an application unless it determines that the manufacturing processes and facilities are in compliance with cGMP and adequate to assure consistent production of the product within required specifications. For a product candidate that is also a human cellular or tissue product, the FDA also will not approve the application if the manufacturer is not in compliance with cGTPs. These are FDA regulations that govern the methods used in, and the facilities and controls used for, the manufacture of human cells, tissues, and cellular and tissue based products, or HCT/Ps, which are human cells or tissue intended for implantation, transplant, infusion, or transfer into a human recipient. The primary intent of the GTP requirements is to ensure that cell and tissue based products are manufactured in a manner designed to prevent the introduction, transmission and spread of communicable disease. FDA regulations also require tissue establishments to register and list their HCT/Ps with the FDA and, when applicable, to evaluate donors through screening and testing. Additionally, before approving a BLA, the FDA will typically inspect one or more clinical sites to assure compliance with GCP. If the FDA determines that the application, manufacturing process or manufacturing facilities are not acceptable, it will outline the deficiencies in the submission and often will request additional testing or information. Notwithstanding the submission of any requested additional information, the FDA ultimately may decide that the application does not satisfy the regulatory criteria for approval.

After the FDA evaluates a BLA and conducts inspections of manufacturing facilities where the investigational product and/or its drug substance will be produced, the FDA may issue an approval letter or a Complete Response Letter, or CRL. An approval letter authorizes commercial marketing of the product with specific prescribing information for specific indications. A CRL indicates that the review cycle of the application is complete, and the application will not be approved in its present form. A CRL will describe all of the deficiencies that the FDA has identified in the BLA, except that where the FDA determines that the data supporting the application are inadequate to support approval, the FDA may issue the CRL without first conducting required inspections, testing submitted product lots, and/or reviewing proposed labeling. In issuing the CRL, the FDA may recommend actions that the applicant might take to place the BLA in condition for approval, including requests for additional information or clarification. The FDA may delay or refuse approval of a BLA if applicable regulatory criteria are not satisfied, require additional testing or information and/or require post-marketing testing and surveillance to monitor safety or efficacy of a product. If a CRL is issued, the sponsor must resubmit the BLA, addressing all of the deficiencies identified in the letter, or withdraw the application. Even if such data and information are submitted, the FDA may decide that the BLA does not satisfy the criteria for approval.

If regulatory approval of a product is granted, such approval will be granted for particular indications and may entail limitations on the indicated uses for which such product may be marketed. For example, the FDA may approve the BLA with a Risk Evaluation and Mitigation Strategy, or REMS, to ensure the benefits of the product outweigh its risks, or otherwise limit the scope of any approval. A REMS is a safety strategy implemented to manage a known or potential serious risk associated with a product and to enable patients to have continued access to such medicines by managing their safe use, and could include medication guides, physician communication plans or elements to assure safe use, such as restricted distribution methods, patient registries and other risk minimization

tools. The FDA also may condition approval on, among other things, changes to proposed labeling or the development of adequate controls and specifications. Once approved, the FDA may withdraw the product approval if compliance with pre- and post-marketing requirements is not maintained or if problems occur after the product reaches the marketplace. The FDA may require one or more Phase 4 post-market studies and surveillance to further assess and monitor the product's safety and effectiveness after commercialization, and may limit further marketing of the product based on the results of these post-marketing studies.

Expedited Development and Review Programs

The FDA offers a number of expedited development and review programs for qualifying product candidates. For example, new biological products are eligible for fast track designation if they are intended to treat a serious or life-threatening disease or condition and demonstrate the potential to address unmet medical needs for the disease or condition. Fast track designation applies to the combination of the product and the specific indication for which it is being studied. The sponsor of a new biologic may request that the FDA designate the biologic as a fast track product at any time during the clinical development of the product. The sponsor of a fast track product has opportunities for more frequent interactions with the applicable FDA review team during product development and, once a BLA is submitted, the product candidate may be eligible for priority review. A fast track product may also be eligible for rolling review, where the FDA may consider for review sections of the BLA on a rolling basis before the complete application is submitted, if the sponsor provides a schedule for the submission of the sections of the BLA, the FDA agrees to accept sections of the BLA and determines that the schedule is acceptable, and the sponsor pays any required user fees upon submission of the first section of the BLA.

A product candidate intended to treat a serious or life-threatening disease or condition may also be eligible for breakthrough therapy designation to expedite its development and review. A product candidate can receive breakthrough therapy designation if preliminary clinical evidence indicates that the product candidate, alone or in combination with one or more other drugs or biologics, may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. The designation includes all of the fast track program features, as well as more intensive FDA interaction and guidance beginning as early as Phase 1 and an organizational commitment to expedite the development and review of the product candidate, including involvement of senior managers.

Any marketing application for a biologic submitted to the FDA for approval, including a product candidate with a fast track designation and/or breakthrough therapy designation, may be eligible for other types of FDA programs intended to expedite development and review, such as priority review and accelerated approval. A product candidate is eligible for priority review if it has the potential to provide safe and effective therapy where no satisfactory alternative therapy exists or a significant improvement in the treatment, diagnosis or prevention of a disease compared to marketed products. The FDA will attempt to direct additional resources to the evaluation of an application for a new biological product designated for priority review in an effort to facilitate the review. For original BLAs, priority review designation means the FDA's goal is to take action on the marketing application within six months of the 60-day filing date (as compared to ten months under standard review).

Additionally, product candidates studied for their safety and effectiveness in treating serious or life-threatening diseases or conditions may receive accelerated approval upon a determination that the product has an effect on a surrogate endpoint that is reasonably likely to predict clinical benefit, or on a clinical endpoint that can be measured earlier than irreversible morbidity or mortality, that is reasonably likely to predict an effect on irreversible morbidity or mortality or other clinical benefit, taking into account the severity, rarity or prevalence of the condition and the availability or lack of alternative treatments. As a condition of accelerated approval, the FDA will generally require the sponsor to perform adequate and well-controlled post-marketing clinical studies to verify and describe the anticipated effect on irreversible morbidity or mortality or other clinical benefit. Under the Food and Drug Omnibus Reform Act of 2022, or FDORA, the FDA may require, as appropriate, that such trials be underway prior to approval or within a specific time period after the date of approval for a product granted accelerated approval. Under FDORA, the FDA has increased authority for expedited procedures to withdraw approval of a biologic or indication approved under accelerated approval if, for example, the sponsor fails to conduct the required post-marketing studies or if such studies fail to verify the predicted clinical benefit. In addition, for products being considered for

accelerated approval, the FDA generally requires, unless otherwise informed by FDA, that all advertising and promotional materials intended for dissemination or publication within 120 days of marketing approval be submitted to FDA for review during the pre-approval period.

The FDA established a new regenerative medicine advanced therapy, or RMAT, designation, which is intended to facilitate an efficient development program for, and expedite review of, any biologic that meets the following criteria: (i) the biologic qualifies as a RMAT, which is defined as a cell therapy, therapeutic tissue engineering product, human cell and tissue product, or any combination product using such therapies or products, with limited exceptions; (ii) the biologic is intended to treat, modify, reverse, or cure a serious or life-threatening disease or condition; and (iii) preliminary clinical evidence indicates that the biologic has the potential to address unmet medical needs for such a disease or condition. RMAT designation provides all the benefits of breakthrough therapy designation, including more frequent meetings with the FDA to discuss the development plan for the product candidate and eligibility for rolling review and priority review. Product candidates granted RMAT designation may also be eligible for accelerated approval on the basis of a surrogate or intermediate endpoint reasonably likely to predict long-term clinical benefit, or reliance upon data obtained from a meaningful number of clinical trial sites, including through expansion of trials to additional sites. RMAT-designated products that receive accelerated approval may, as appropriate, fulfill their post-approval requirements through submission of clinical evidence, clinical studies, patient registries, or other sources of real-world evidence (such as electronic health records); through the collection of larger confirmatory data sets; or via post-approval monitoring of all patients treated with such therapy prior to approval of such therapy.

Fast track designation, breakthrough therapy designation, priority review, accelerated approval, and RMAT designation, do not change the standards for approval but may expedite the development or approval process. Even if a product candidate qualifies for one or more of these programs, the FDA may later decide that the product no longer meets the conditions for qualification or decide that the time period for FDA review or approval will not be shortened.

Orphan Drug Designation and Exclusivity

Under the Orphan Drug Act, the FDA may grant orphan designation to a biologic intended to treat a rare disease or condition, defined as a disease or condition with a patient population of fewer than 200,000 individuals in the United States, or a patient population greater than 200,000 individuals in the United States and when there is no reasonable expectation that the cost of developing and making available the drug or biologic in the United States will be recovered from sales in the United States for that biologic. Orphan drug designation must be requested before submitting a BLA. After the FDA grants orphan drug designation, the generic identity of the therapeutic agent and its potential orphan use are disclosed publicly by the FDA. Orphan drug designation does not convey any advantage in or shorten the duration of the regulatory review and approval process. On June 18, 2025, we announced that the FDA has granted Orphan Drug Designation to SENTI-202 for the treatment of relapsed/refractory hematologic malignancies including acute myeloid leukemia.

In the United States, orphan drug designation entitles a party to financial incentives such as opportunities for grant funding towards clinical trial costs, tax advantages and user-fee waivers. In addition, if a product that has orphan drug designation subsequently receives the first FDA approval for a particular drug or biologic for the disease for which it has such designation, the product is entitled to orphan product exclusivity, which means that the FDA may not approve any other applications, including a full BLA, to market the same biologic for the same indication for seven years, except in limited circumstances, such as a showing of clinical superiority to the product with orphan drug exclusivity or if the FDA finds that the holder of the orphan drug exclusivity has not shown that it can assure the availability of sufficient quantities of the orphan drug to meet the needs of patients with the disease or condition for which the drug was designated. Orphan drug exclusivity does not prevent the FDA from approving a different drug or biologic for the same disease or condition, or the same drug or biologic for a different disease or condition. Competitors may receive approval of different products for the indication for which the orphan product has exclusivity or obtain approval for the same product but for a different indication for which the orphan product has exclusivity. Orphan product exclusivity also could block the approval of one of our products for seven years if a

competitor obtains approval of the same biological product as defined by the FDA or if our product candidate is determined to be contained within the competitor's product for the same indication or disease.

A designated orphan drug may not receive orphan drug exclusivity if it is approved for a use that is broader than the indication for which it received orphan designation. In addition, orphan drug exclusive marketing rights in the United States may be lost if the FDA later determines that the request for designation was materially defective or, as noted above, if a second applicant demonstrates that its product is clinically superior to the approved product with orphan exclusivity or the manufacturer of the approved product is unable to assure sufficient quantities of the product to meet the needs of patients with the rare disease or condition.

Regenerative Medicine Advanced Therapy (RMAT) Designation

As part of the 21st Century Cures Act, Congress created the Regenerative Medicine Advanced Therapy ("RMAT") designation to facilitate an efficient development program for, and expedite review of, a product candidate that meets the following criteria: (1) it qualifies as a RMAT, which is defined as a cell therapy, therapeutic tissue engineering product, human cell and tissue product, or any combination product using such therapies or products, with limited exceptions; (2) it is intended to treat, modify, reverse, or cure a serious or life-threatening disease or condition; and (3) preliminary clinical evidence indicates that the drug has the potential to address unmet medical needs for such a disease or condition. A sponsor may request that the FDA designate a drug as a RMAT concurrently with or at any time after submission of an IND. The FDA has 60 calendar days to determine whether the drug meets the criteria. A BLA for a regenerative medicine therapy that has received RMAT designation may be eligible for priority review or accelerated approval through use of surrogate or intermediate endpoints reasonably likely to predict long-term clinical benefit, or reliance upon data obtained from a meaningful number of sites. Benefits of RMAT designation also include early interactions with FDA to discuss any potential surrogate or intermediate endpoint to be used to support accelerated approval. A regenerative medicine therapy with RMAT designation that is granted accelerated approval and is subject to post-approval requirements may, as appropriate, fulfill such requirements through the submission of clinical evidence from clinical trials, patient registries, or other sources of real world evidence, such as electronic health records; the collection of larger confirmatory data sets; or post-approval monitoring of all patients treated with such therapy prior to its approval. Like some of FDA's other expedited development programs, RMAT designation does not change the standards for approval but may help expedite the development or approval process. The FDA granted SENTI-202 an RMAT designation in December 2025.

Post-Approval Requirements

Biologics are subject to pervasive and continuing regulation by the FDA, including, among other things, requirements relating to record-keeping, reporting of adverse experiences, periodic reporting, product sampling and distribution, and advertising and promotion of the product. After approval, most changes to the approved product, such as adding new indications or other labeling claims, are subject to prior FDA review and approval. There also are continuing, annual program fees for any marketed products. Biologic manufacturers and other entities involved in the manufacture and distribution of approved biological products, and those supplying products, ingredients, and components of them, are required to register their establishments with the FDA and certain state agencies, and are subject to periodic unannounced inspections by the FDA and certain state agencies for compliance with cGMP requirements and other laws, which impose certain procedural and documentation requirements upon us and our third-party manufacturers. Manufacturers and other parties involved in the drug supply chain for prescription drug products must also comply with product tracking and tracing requirements and for notifying the FDA of counterfeit, diverted, stolen and intentionally adulterated products or products that are otherwise unfit for distribution in the United States. Accordingly, manufacturers must continue to expend time, money, and effort in the area of production and quality control to maintain GMP compliance. Changes to the manufacturing process or facility are strictly regulated, and, depending on the significance of the change, may require prior FDA approval before being implemented. FDA regulations also require investigation and correction of any deviations from cGMP and impose reporting requirements upon us and any third-party manufacturers that we may decide to use. Accordingly, manufacturers must continue to expend time, money and effort in the area of production and quality control to maintain compliance with cGMP and other aspects of regulatory compliance.

The FDA may withdraw approval if compliance with regulatory requirements and standards is not maintained or if problems occur after the product reaches the market. Later discovery of previously unknown problems with a product, including adverse events of unanticipated severity or frequency, or with manufacturing processes, or failure to comply with regulatory requirements, may result in revisions to the approved labeling to add new safety information; imposition of post-market studies or clinical studies to assess new safety risks; or imposition of distribution restrictions or other restrictions under a REMS program. Other potential consequences include, among other things:

- restrictions on the marketing or manufacturing of the product, complete withdrawal of the product from the market or product recalls;
- fines, warning letters, or untitled letters;
- clinical holds on clinical studies;
- refusal of the FDA to approve pending applications or supplements to approved applications, or suspension or revocation of product license approvals;
- product seizure or detention, or refusal to permit the import or export of products;
- consent decrees, corporate integrity agreements, debarment or exclusion from federal healthcare programs;
- mandated modification of promotional materials and labeling and the issuance of corrective information;
- the issuance of safety alerts, Dear Healthcare Provider letters, press releases and other communications containing warnings or other safety information about the product; or
- injunctions or the imposition of civil or criminal penalties.

The FDA also may require post-marketing testing, known as Phase 4 testing, and surveillance to monitor the effects of an approved product. Discovery of previously unknown problems with a product or the failure to comply with applicable FDA requirements can have negative consequences, including adverse publicity, judicial or administrative enforcement, warning letters from the FDA, mandated corrective advertising or communications with doctors, and civil or criminal penalties, among others. Newly discovered or developed safety or effectiveness data may require changes to a product's approved labeling, including the addition of new warnings and contraindications, and also may require the implementation of other risk management measures.

The FDA closely regulates the marketing, labeling, advertising and promotion of biologics. A company can make only those claims relating to safety and efficacy, purity and potency that are approved by the FDA and in accordance with the provisions of the approved label. The FDA and other agencies actively enforce the laws and regulations prohibiting the promotion of off-label uses. The federal government has levied large civil and criminal fines against companies for alleged improper promotion of off-label use and has enjoined companies from engaging in off-label promotion. The FDA and other regulatory agencies have also required that companies enter into consent decrees or permanent injunctions under which specified promotional conduct is changed or curtailed. Failure to comply with these requirements can result in, among other things, adverse publicity, warning letters, corrective advertising and potential civil and criminal penalties. FDA sanctions could include refusal to approve pending applications, withdrawal of an approval, clinical hold, warning or untitled letters, product recalls, product seizures, total or partial suspension of production or distribution, injunctions, fines, refusals of government contracts, mandated corrective advertising or communications with doctors, debarment, restitution, disgorgement of profits, or civil or criminal penalties. Physicians may prescribe, in their independent professional and medical judgment, legally available products for uses that are not described in the product's labeling and that differ from those tested and approved by the FDA. Such off-label uses are common across medical specialties. Physicians may believe that such off-label uses are the best treatment for many patients in varied circumstances. The FDA does not regulate the

behavior of physicians in their choice of treatments. The FDA does, however, restrict manufacturer's communications on the subject of off-label use of their products.

Biosimilars and Reference Product Exclusivity

The Affordable Care Act, signed into law in 2010, includes a subtitle called the Biologics Price Competition and Innovation Act, or BPCIA, which created an abbreviated approval pathway for biological products that are biosimilar to or interchangeable with an FDA-licensed reference biological product. The FDA has issued several guidance documents outlining an approach to review and approval of biosimilars.

Biosimilarity, which requires that there be no clinically meaningful differences between the biological product and the reference product in terms of safety, purity and potency, can be shown through analytical studies, animal studies, and a clinical study or studies. Interchangeability requires that a product is biosimilar to the reference product and the product must demonstrate that it can be expected to produce the same clinical results as the reference product in any given patient and, for products that are administered multiple times to an individual, the biologic and the reference biologic may be alternated or switched after one has been previously administered without increasing safety risks or risks of diminished efficacy relative to exclusive use of the reference biologic. However, complexities associated with the larger, and often more complex, structures of biological products, as well as the processes by which such products are manufactured, pose significant hurdles to implementation of the abbreviated approval pathway that are still being worked out by the FDA.

Under the BPCIA, an application for a biosimilar product may not be submitted to the FDA until four years following the date that the reference product was first licensed by the FDA. In addition, the approval of a biosimilar product may not be made effective by the FDA until 12 years from the date on which the reference product was first licensed. During this 12-year period of exclusivity, another company may still market a competing version of the reference product if the FDA approves a full BLA for the competing product containing that applicant's own preclinical data and data from adequate and well-controlled clinical trials to demonstrate the safety, purity and potency of its product. The BPCIA also created certain exclusivity periods for biosimilars approved as interchangeable products. At this juncture, it is unclear whether products deemed "interchangeable" by the FDA will, in fact, be readily substituted by pharmacies, which are governed by state pharmacy law.

A biological product can also obtain pediatric market exclusivity in the United States. Pediatric exclusivity, if granted, adds six months to existing regulatory exclusivity periods for all formulations, dosage forms, and indications of the active moiety. This six-month exclusivity, which runs from the end of other exclusivity protection or patent term, may be granted based on the voluntary completion of a pediatric study in accordance with an FDA-issued "Written Request" for such a study, provided that at the time pediatric exclusivity is granted there is not less than nine months of term remaining. The BPCIA is complex and continues to be interpreted and implemented by the FDA. In addition, government proposals have sought to reduce the 12-year reference product exclusivity period. Other aspects of the BPCIA, some of which may impact the BPCIA exclusivity provisions, have also been the subject of recent litigation. As a result, the ultimate impact, implementation, and impact of the BPCIA is subject to significant uncertainty.

Coverage and Reimbursement

Our ability to successfully commercialize our product candidates will depend in part on the extent to which coverage and adequate reimbursement for these products and related treatments will be available from government health administration authorities, private health insurers and other organizations. Even if coverage is provided, the approved reimbursement amount may not be high enough to allow us to establish or maintain pricing sufficient to realize a sufficient return on our investment. Government authorities and third-party payors, such as private health insurers and health maintenance organizations, decide which medications they will pay for and establish reimbursement levels.

There is also significant uncertainty related to the insurance coverage and reimbursement of newly approved products and coverage may be more limited than the purposes for which the medicine is approved by the FDA or

comparable foreign regulatory authorities. In the United States, the principal decisions about reimbursement for new medicines are typically made by the Centers for Medicare & Medicaid Services, or CMS, an agency within the U.S. Department of Health and Human Services. CMS decides whether and to what extent a new medicine will be covered and reimbursed under Medicare and private payors tend to follow CMS to a substantial degree. Factors payors consider in determining reimbursement are based on whether the product is:

- a covered benefit under its health plan;
- safe, effective and medically necessary;
- appropriate for the specific patient;
- cost-effective; and
- neither experimental nor investigational.

Net prices for drugs may be reduced by mandatory discounts or rebates required by government healthcare programs or private payors and by any future relaxation of laws that presently restrict imports of drugs from countries where they may be sold at lower prices than in the United States. Increasingly, third-party payors are requiring that drug companies provide them with predetermined discounts from list prices and are challenging the prices charged for medical products. We cannot be sure that reimbursement will be available for any product candidate that we commercialize and, if reimbursement is available, the level of reimbursement. In addition, many pharmaceutical manufacturers must calculate and report certain price reporting metrics to the government, such as average sales price, or ASP, and best price. Penalties may apply in some cases when such metrics are not submitted accurately and timely. Further, these prices for drugs may be reduced by mandatory discounts or rebates required by government healthcare programs.

We expect that healthcare reform measures that may be adopted in the future may result in more rigorous coverage criteria and in additional downward pressure on the price that we receive for any approved product. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability, or commercialize our products. Legislative and regulatory proposals have been made to expand post-approval requirements and restrict sales and promotional activities for pharmaceutical products. We cannot be sure whether additional legislative changes will be enacted, or whether existing regulations, guidance or interpretations will be changed, or what the impact of such changes on the marketing approvals or clearances of our product candidates, if any, may be.

In addition, in some foreign countries, the proposed pricing for a drug must be approved before it may be lawfully marketed. The requirements governing drug pricing vary widely from country to country. For example, the European Union provides options for its Member States to restrict the range of medicinal products for which their national health insurance systems provide reimbursement and to control the prices of medicinal products for human use. To obtain reimbursement or pricing approval, some of these countries may require the completion of clinical trials that compare the cost effectiveness of a particular product candidate to currently available therapies. A Member State may approve a specific price for the medicinal product or it may instead adopt a system of direct or indirect controls on the profitability of the company placing the medicinal product on the market. There can be no assurance that any country that has price controls or reimbursement limitations for pharmaceutical products will allow favorable reimbursement and pricing arrangements for any of our product candidates. Historically, products launched in the European Union do not follow price structures of the United States and generally prices tend to be significantly lower.

Healthcare Reform

In the United States, there have been and continue to be a number of legislative initiatives to contain healthcare costs. For example, in 2010, the Patient Protection and Affordable Care Act (the “ACA”) was enacted, which substantially changed the way healthcare is financed by both governmental and private insurers, and significantly

impacted the U.S. pharmaceutical industry. Among the provisions of the ACA, of greatest importance to the pharmaceutical and biotechnology industry are the following:

- an increase in the statutory minimum rebates a manufacturer must pay under the Medicaid Drug Rebate Program to 23.1% and 13% of the average manufacturer price for most branded and generic drugs, respectively, and a cap on the total rebate amount for innovator drugs at 100% of the Average Manufacturer Price;
- extension of manufacturers' Medicaid rebate liability under the Medicaid Drug Rebate Program; and
- a Medicare Part D coverage gap discount program, in which manufacturers must agree to offer 70% point-of-sale discounts off negotiated prices of applicable brand drugs to eligible beneficiaries during their coverage gap period, as a condition for the manufacturer's outpatient drugs to be covered under Medicare Part D.

In addition, other legislative changes have been proposed and adopted in the United States since the ACA was enacted.

- The Budget Control Act of 2011 and subsequent legislation, among other things, created measures for spending reductions by Congress that include aggregate reductions of Medicare payments to providers of 2% per fiscal year, which remain in effect through 2031. The American Taxpayer Relief Act of 2012 further reduced Medicare payments to several providers, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years.
- On March 11, 2021, President Biden signed the American Rescue Plan Act of 2021 into law. Due to the Statutory Pay-As-You-Go Act of 2010, estimated budget deficit increases resulting from the American Rescue Plan Act of 2021, and subsequent legislation, Medicare payments to providers were further reduced starting on January 1, 2025; however, legislation has been introduced in the U.S. Congress that would, if enacted, reverse these payment reductions. In addition to provider payment cuts under Medicare, the American Rescue Plan Act of 2021 also eliminated the statutory Medicaid drug rebate cap, previously set at 100% of a drug's average manufacturer price, for single source and innovator multiple source drugs, beginning January 1, 2024. These laws and regulations may result in additional reductions in Medicare and other healthcare funding and otherwise affect the prices we may obtain for any of our product candidates for which we may obtain regulatory approval or the frequency with which any such product candidate is prescribed or used.
- On April 13, 2017, CMS published a final rule that gives states greater flexibility in setting benchmarks for insurers in the individual and small group marketplaces, which may have the effect of relaxing the essential health benefits required under the ACA for plans sold through such marketplaces.
- On May 30, 2018, the Right to Try Act was signed into law. The law, among other things, provides a federal framework for certain patients to access certain investigational new drug products that have completed a Phase 1 clinical trial and that are undergoing investigation for FDA approval. Under certain circumstances, eligible patients can seek treatment without enrolling in clinical trials and without obtaining FDA permission under the FDA expanded access program. There is no obligation for a pharmaceutical manufacturer to make its drug products available to eligible patients as a result of the Right to Try Act.
- On May 23, 2019, CMS published a final rule to allow Medicare Advantage Plans the option of using step therapy for Part B drugs beginning January 1, 2020.

Additionally, there has been increasing legislative and enforcement interest in the United States with respect to drug pricing practices. Specifically, there has been heightened governmental scrutiny over the manner in which manufacturers set prices for their marketed products, which has resulted in several U.S. Congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to drug pricing, reduce the cost of prescription drugs under Medicare, and review the relationship between pricing and manufacturer patient programs. The Inflation Reduction Act of 2022, or IRA, includes several provisions that may impact our business to varying degrees, including provisions that reduce the out-of-pocket spending cap for

Medicare Part D beneficiaries from \$7,050 to \$2,000 starting in 2025, thereby effectively eliminating the coverage gap; impose new manufacturer financial liability on certain drugs under Medicare Part D; allow the U.S. government to negotiate Medicare Part B and Part D price caps for certain high-cost drugs and biologics without generic or biosimilar competition; require companies to pay rebates to Medicare for certain drug prices that increase faster than inflation; and delay until January 1, 2032 the implementation of the HHS rebate rule that would have limited the fees that pharmacy benefit managers can charge. Further, under the IRA, orphan drugs are exempted from the Medicare drug price negotiation program, but only if they have one orphan designation and for which the only approved indication is for that disease or condition. If a product receives multiple orphan designations or has multiple approved indications, it may not qualify for the orphan drug exemption. The implementation of the IRA is currently subject to ongoing litigation challenging the constitutionality of the IRA's Medicare drug price negotiation program. The effects of the IRA on our business and the healthcare industry in general is not yet known.

At a federal level, President Trump reversed some of President Biden's executive orders including rescinding Executive Order 14087 entitled "Lowering Prescription Drug Costs for Americans." President Trump may issue new executive orders designed to impact drug pricing. President Trump has also implemented workforce reduction/cost saving measures which may impact our FDA review timelines. A number of these and other proposed measures may require authorization through additional legislation to become effective. Congress and the Trump administration have indicated that they will continue to seek new legislative measures to control drug costs.

There has also been heightened governmental scrutiny recently over the manner in which manufacturers set prices for their marketed products. For example, there have been several recent Congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to drug pricing, review the relationship between pricing and manufacturer patient programs, and reform government program reimbursement methodologies for drug products.

At the state level, individual states are increasingly aggressive in passing legislation and implementing regulations designed to control pharmaceutical and biological product pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access and marketing cost disclosure and transparency measures, and, in some cases, designed to encourage importation from other countries and bulk purchasing. In addition, regional health care authorities and individual hospitals are increasingly using bidding procedures to determine what pharmaceutical products and which suppliers will be included in their prescription drug and other health care programs. These measures could reduce the ultimate demand for our products, once approved, or put pressure on our product pricing, which could negatively affect our business, financial conditions, results of operation and prospects.

We expect that additional state and federal healthcare reform measures will be adopted in the future, any of which could limit the amounts that federal and state governments will pay for healthcare products and services, which could result in reduced demand for our current or future product candidates or additional pricing pressures.

Any denial in coverage or reduction in reimbursement from Medicare or other government-funded programs may result in a similar denial or reduction in payments from private payors, which may prevent us from being able to generate sufficient revenue, attain profitability or commercialize our products. It is not clear how other future potential changes to the ACA will change the reimbursement model and market outlook for our current and future product candidates.

Other U.S. Healthcare Laws

Healthcare providers, physicians and third-party payors, among others, will play a primary role in the prescription and recommendation of any product candidates for which we obtain marketing approval. Our arrangements with third-party payors, providers and customers, among others, may expose us to broadly applicable fraud and abuse and other healthcare laws and regulations in the future that may constrain the business or financial arrangements and relationships through which we market, sell and distribute our product candidates for which we

obtain marketing approval. Restrictions under applicable federal and state healthcare laws and regulations in the United States and other countries, include the following:

- the federal Anti-Kickback Statute, which prohibits, among other things, a person or entity from knowingly and willfully soliciting, offering, paying, receiving or providing remuneration, directly or indirectly, in cash or in kind, to induce or reward either the referral of an individual for, or the purchase, lease order, arranging for or recommendation of, any good, facility, item or service, for which payment may be made, in whole or in part, by a federal healthcare program, such as Medicare or Medicaid. A person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation. Violations are subject to civil and criminal fines and penalties for each violation, plus up to three times the remuneration involved, imprisonment, and exclusion from government healthcare programs;
- federal civil and criminal false claims laws, including the federal False Claims Act, which provides for civil whistleblower or qui tam actions, and civil monetary penalties laws, that impose penalties against individuals or entities for knowingly presenting, or causing to be presented, to the federal government, claims for payment that are false or fraudulent or making a false statement to avoid, decrease or conceal an obligation to pay money to the federal government. In addition, the government may assert that a claim including items and services resulting from a referral made in violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the False Claims Act; Manufacturers can be held liable under the federal False Claims Act even when they do not submit claims directly to government payors if they are deemed to “cause” the submission of false or fraudulent claims. The federal False Claims Act also permits a private individual acting as a “whistleblower” to bring actions on behalf of the federal government alleging violations of the federal False Claims Act and to share in any monetary recovery;
- HIPAA, which imposes criminal and civil liability for executing a scheme to defraud any healthcare benefit program, or knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false statement in connection with the delivery of or payment for healthcare benefits, items or services. Similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation;
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act (“HITECH”) and its implementing regulations, including the Final Omnibus Rule published in January 2013, which impose obligations on certain covered entity healthcare providers, health plans and healthcare clearinghouses as well as their business associates and their subcontractors that perform certain services involving the use or disclosure of individually identifiable health information, including mandatory contractual terms, with respect to safeguarding the privacy, security and transmission of individually identifiable health information, and require notification to affected individuals and regulatory authorities of certain breaches of security of individually identifiable health information. HITECH also created new tiers of civil monetary penalties, amended HIPAA to make civil and criminal penalties directly applicable to business associates, and gave state attorneys general new authority to file civil actions for damages or injunctions in federal courts to enforce the federal HIPAA laws and seek attorneys’ fees and costs associated with pursuing federal civil actions. In addition, there may be additional federal, state, and non-U.S. laws which govern the privacy and security of health and other personal information in certain circumstances, many of which differ from each other in significant ways and may not have the same effect, thus complicating compliance efforts;
- the federal false statements statute, which prohibits knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false statement in connection with the delivery of or payment for healthcare benefits, items or services;
- federal price reporting laws, which require manufacturers to calculate and report complex pricing metrics to government programs, where such reported prices may be used in the calculation of reimbursement and/or discounts on approved products;

- federal consumer protection and unfair competition laws, which broadly regulate marketplace activities and activities that potentially harm consumers;
- the federal physician payment transparency requirements, sometimes referred to as the “Sunshine Act” under the Affordable Care Act, require certain manufacturers of drugs, devices, biologics and medical supplies that are reimbursable under Medicare, Medicaid, or the Children’s Health Insurance Program to report to the CMS information related to transfers of value made to physicians (currently defined to include doctors, dentists, optometrists, podiatrists and chiropractors), certain other licensed health care practitioners and teaching hospitals, as well as ownership and investment interests of physicians and their immediate family members; and
- analogous local, state and foreign laws and regulations, such as state anti-kickback and false claims laws that may apply to healthcare items or services reimbursed by third party payors, including private insurers, local, state and foreign transparency laws that require manufacturers to report information related to payments and transfers of value to other healthcare providers and healthcare entities, marketing expenditures, or drug pricing, state laws that require pharmaceutical companies to register certain employees engaged in marketing activities in the location and comply with the pharmaceutical industry’s voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government, and state and foreign laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts.

Government Regulation Outside of the United States

In addition to regulations in the United States, we will be subject to a variety of regulations in other jurisdictions governing, among other things, clinical studies and any commercial sales and distribution of our products. Because biologically sourced raw materials are subject to unique contamination risks, their use may be restricted in some countries.

Whether or not we obtain FDA approval for a product, we must obtain the requisite approvals from regulatory authorities in foreign countries prior to the commencement of clinical studies or marketing of the product in those countries. Certain countries outside of the United States have a similar process that requires the submission of a clinical study application much like the IND prior to the commencement of human clinical studies.

The requirements and process governing the conduct of clinical studies, product licensing, pricing and reimbursement vary from country to country. In all cases, the clinical studies are conducted in accordance with GCP and the applicable regulatory requirements and the ethical principles that have their origin in the Declaration of Helsinki.

Similar to the United States, the various phases of preclinical and clinical research in the European Union are subject to significant regulatory controls. In April 2014, the European Union adopted a Clinical Trials Regulation (EU) No 536/2014, which replaced the Clinical Trials Directive 2001/20/EC on January 31, 2022. The Clinical Trials Regulation is directly applicable in all Member States (and so does not require national implementing legislation in each Member State), and aims at simplifying and streamlining the approval of clinical studies in the European Union. For example, a single application is now made through the Clinical Trials Information System, for clinical trial authorization in up to 30 European Economic Area (“EEA”) (comprised of the EU Member States plus Norway, Iceland and Liechtenstein) countries at the same time and with a single set of documentation.

To obtain regulatory approval of a medicinal product under European Union regulatory systems, we must submit a marketing authorization application. The application used to file the BLA in the United States is similar to that required in the European Union. In the European Union, medicinal products can only be commercialized after obtaining a marketing authorization. There are two types of marketing authorization:

- The centralized marketing authorization is issued by the European Commission through the centralized procedure, based on the opinion of the Committee for Medicinal Products for Human Use (“CHMP”) of the European Medicines Agency (“EMA”), and is valid throughout the entire territory of the EU. The centralized

procedure is mandatory for certain types of products, such as biotechnology medicinal products, orphan medicinal products, advanced therapy medicinal products (gene-therapy, somatic cell-therapy or tissue-engineered medicines) and medicinal products containing a new active substance indicated for the treatment of HIV, AIDS, cancer, neurodegenerative disorders, diabetes, auto-immune and other immune dysfunctions and viral diseases. The centralized procedure is optional for products containing a new active substance not yet authorized in the European Union, or for products that constitute a significant therapeutic, scientific or technical innovation or which are in the interest of public health in the European Union. Under the centralized procedure, the maximum timeframe for the evaluation of a marketing authorization application by the EMA is 210 days, excluding clock stops, when additional written or oral information is to be provided by the applicant in response to questions asked by the CHMP. Clock stops may extend the timeframe of evaluation of a marketing authorization application considerably beyond 210 days. Where the CHMP gives a positive opinion, the EMA provides the opinion together with supporting documentation to the European Commission, who makes the final decision to grant a marketing authorization, which is issued within 67 days of receipt of the EMA's recommendation. Accelerated assessment might be granted by the CHMP in exceptional cases, when a medicinal product is expected to be of a major public health interest, particularly from the point of view of therapeutic innovation. The timeframe for the evaluation of a marketing authorization application under the accelerated assessment procedure is 150 days, excluding clock stops, but it is possible that the CHMP may revert to the standard time limit for the centralized procedure if it determines that the application is no longer appropriate to conduct an accelerated assessment.

- National marketing authorizations, which are issued by the competent authorities of the Member States of the European Union and only cover their respective territory, are available for products not falling within the mandatory scope of the centralized procedure. Where a product has already been authorized for marketing in a Member State of the European Union, this national marketing authorization can be recognized in other Member States through the mutual recognition procedure. If the product has not received a national marketing authorization in any Member State at the time of application, it can be approved simultaneously in various Member States through the decentralized procedure.

Under the above described procedures, before granting the marketing authorization, the EMA or the competent authorities of the Member States of the European Union make an assessment of the risk-benefit balance of the product on the basis of scientific criteria concerning its quality, safety and efficacy.

The European Union also provides opportunities for market exclusivity. For example, in the European Union, upon receiving marketing authorization, new chemical entities or innovative medicinal products generally receive eight years of data exclusivity and an additional two years of market exclusivity. If granted, data exclusivity prevents generic or biosimilar applicants from referencing the innovator's preclinical and clinical trial data contained in the dossier of the reference product when applying for a biosimilar or generic marketing authorization, for a period of eight years from the date on which the reference product was first authorized in the EU. During the additional two-year period of market exclusivity, a biosimilar or generic marketing authorization can be submitted, and the innovator's data may be referenced, but no biosimilar or generic product can be marketed in the EU until the expiration of the market exclusivity. The overall ten-year period will be extended to a maximum of 11 years if, during the first eight years of those ten years, the marketing authorization holder obtains an authorization for one or more new therapeutic indications which, during the scientific evaluation prior to their authorization, are determined to bring a significant clinical benefit in comparison with currently approved therapies. However, there is no guarantee that a product will be considered by the European Union's regulatory authorities to be a new chemical entity, and products may not qualify for data exclusivity. Even if a product gains the prescribed period of data exclusivity, another company may market another version of the product if such company obtained a marketing authorization based on an application with a complete and independent data package of pharmaceutical tests, preclinical tests and clinical trials.

The criteria for designating an "orphan medicinal product" in the European Union are similar in principle to those in the United States. Under Article 3 of Regulation (EC) 141/2000, the European Commission grants an orphan designation in respect of a product if its sponsor can establish that (1) the product is intended for the diagnosis, prevention or treatment of a life-threatening or chronically debilitating condition; (2) either (a) such

condition affects no more than five in 10,000 persons in the European Union when the application is made, or (b) the product, without the benefits derived from orphan status, would not generate sufficient return in the European Union to justify the necessary investment in its development; and (3) there exists no satisfactory method of diagnosis, prevention or treatment of such condition authorized for marketing in the European Union, or if such a method exists, the product will be of significant benefit to those affected by the condition, as defined in Regulation (EC) 847/2000. Orphan medicinal products are eligible for financial incentives such as reduction of fees or fee waivers and are, upon grant of a marketing authorization, entitled to ten years of market exclusivity during which no marketing authorization may be granted in the EU for a “similar medicinal product” to the authorized orphan product for the same therapeutic indication (subject to limited exceptions outlined below). A “similar medicinal product” is defined as a medicinal product containing a similar active substance or substances as contained in an authorized orphan medicinal product, and which is intended for the same therapeutic indication. An orphan product can also obtain an additional two years of market exclusivity in the European Union for pediatric studies submitted in compliance with an EMA-approved pediatric investigation plan. The application for orphan designation must be submitted before the application for marketing authorization. The applicant will receive a fee reduction for the marketing authorization application if the orphan designation has been granted, but not if the designation is still pending at the time the marketing authorization is submitted. Orphan designation does not convey any advantage in, or shorten the duration of, the regulatory review and approval process.

The 10-year market exclusivity may be reduced to six years if, at the end of the fifth year, it is established that the product no longer meets the criteria for orphan designation, for example, if the product is sufficiently profitable not to justify maintenance of market exclusivity. Additionally, marketing authorization may be granted to a similar medicinal product for the same indication as an authorized orphan product at any time if:

- The second applicant can establish that its product, although similar to the authorized orphan product, is safer, more effective or otherwise clinically superior;
- The marketing authorization holder for the authorized orphan product consents to a second orphan medicinal product application; or
- The marketing authorization holder for the authorized orphan product cannot supply enough orphan medicinal product.

The aforementioned European Union rules are generally applicable in the EEA.

The European Commission introduced legislative proposals in April 2023 that, if implemented, will replace the current regulatory framework in the European Union for all medicines (including those for rare diseases and for children). The European Commission has provided the legislative proposals to the European Parliament and the European Council for their review and approval. In October 2023, the European Parliament published draft reports proposing amendments to the legislative proposals, which will be debated by the European Parliament. Once the European Commission’s legislative proposals are approved (with or without amendment), they will be adopted into European Union law.

For other countries outside of the European Union, such as countries in Eastern Europe, Latin America or Asia, the requirements governing the conduct of clinical studies, product licensing, pricing and reimbursement vary from country to country. In all cases, again, the clinical studies are conducted in accordance with GCP and the applicable regulatory requirements and the ethical principles that have their origin in the Declaration of Helsinki.

If we fail to comply with applicable foreign regulatory requirements, we may be subject to, among other things, fines, suspension or withdrawal of regulatory approvals, product recalls, seizure of products, operating restrictions and criminal prosecution.

European Data Collection

The collection and processing of personal data (including health data) in the European Economic Area, or EEA and the United Kingdom, or UK is governed by the EU General Data Protection Regulation, or EU GDPR (with regards to the EEA) and the UK General Data Protection Regulation, or UK GDPR (with respect to the UK), as well as applicable data protection laws in effect in the Member States of the EEA and in the UK (including the UK Data Protection Act 2018). The EU and UK data protection regimes are independent of each other but remain largely aligned. However, the UK Government has introduced a Data Protection and Digital Information Bill, or Data Reform Bill into the UK legislative process to reform the UK data protection legal framework.

In this Form 10-K, “GDPR” refers to both the EU GDPR and the UK GDPR, unless specified otherwise. The GDPR applies to any company established in the EEA/UK and to companies established outside the EEA/UK that process personal data in connection with the offering of goods or services to data subjects in the EEA/UK or the monitoring of the behavior of data subjects in the EEA/UK. The GDPR imposes numerous stringent requirements on companies that process personal data, including requirements relating to processing health and other sensitive data, obtaining consent of data subjects, providing detailed information to data subjects about how personal data is used, conducting privacy impact assessments for “high risk” processing, implementing safeguards to protect the security and confidentiality of personal data, implementing limitations on the retention of personal data, providing mandatory data breach notification, implementing “privacy by design” requirements, and taking certain measures when engaging service providers acting as data processors. The GDPR also imposes strict rules on the transfer of personal data to countries outside of the EEA/UK that do not ensure an adequate level of protection, including the United States in certain circumstances, unless derogation exists or a valid GDPR transfer mechanism (for example, the European Commission approved Standard Contractual Clauses, or SCCs, and the UK International Data Transfer Agreement/Addendum, or UK IDTA) have been put in place. Where relying on the SCCs/UK IDTA for data transfers, transfer impact assessments are required to assess whether the recipient is subject to local laws which allow public authority access to personal data. Although the UK is regarded as a third country under the European Union’s GDPR, the European Commission has now issued a decision recognizing the UK as providing adequate protection under the EU GDPR and the UK government has issued a similar decision, therefore, transfers of personal data between the EU to the UK remain unrestricted.

Failure to comply with the requirements of the GDPR and the related national data protection laws of the EEA Member States and the UK may result in fines up to €20 million (€17.5 million for the UK GDPR) or 4% of a company’s global annual revenues for the preceding financial year, whichever is higher. The GDPR also confers a private right of action on data subjects and consumer associations to lodge complaints with supervisory authorities, seek judicial remedies, and obtain compensation for damages resulting from violations of the GDPR.

Employees and Human Capital Resources

As of March 19, 2026, we had 39 employees, all of whom were full-time, consisting of clinical, research, operations, regulatory, finance and business development personnel. 7 of our employees hold Ph.D. or M.D. degrees. None of our employees are subject to a collective bargaining agreement. We consider our relationship with our employees to be good.

Our human capital resources objectives include, as applicable, identifying, recruiting, retaining, incentivizing and integrating our existing and additional employees. The principal purposes of our equity incentive plans are to attract, retain and motivate selected employees, consultants and directors through the granting of stock-based compensation awards, in order to increase stockholder value and the success of our company by motivating such individuals to perform to the best of their abilities and achieve our objectives.

Facilities

We currently occupy approximately 40,000 square feet of office and research and development space in South San Francisco, CA under a lease that expires in April 2027, with an option to extend for an additional eight years. We entered into a sublease agreement with GeneFab to sublease approximately 7,400 square feet of our office space in South San Francisco expiring April 2027. On March 9, 2026, we and GeneFab agreed to terminate the sublease, effective March 31, 2026. We also entered into a sublease agreement with BKPBIOTECH, Inc. and JLSA2

Therapeutics, Inc. to sublease approximately 11,001 square feet of our office space in South San Francisco commencing October 2024 and also expiring April 2027. In June 2023, we completed the build-out of a cell therapy manufacturing facility designed to meet cGMP. We subsequently subleased this 92,000 square feet of manufacturing space under an agreement with GeneFab that was executed in August 2023, with such sublease expiring in September 2032. On March 17, 2026 we entered into a First Amendment to Lease (the “Lease Amendment”), a First Amendment to Sublease (the “Sublease Amendment”), a First Amendment to Landlord’s Consent to Sublease (the “Consent Amendment”) and a Letter Agreement (the “GeneFab Letter Agreement”) all related to the Alameda Facility with GeneFab and 1430 South Loop Owner, LLC (the “Landlord”), pursuant to which we reduced the leased premises from approximately 92,000 rentable square feet to approximately 46,000 rentable square feet. The Lease Amendment also reduces our future base rent obligations for the remaining term of the lease and modifies certain cost-sharing arrangements with respect to operating expenses, taxes, and utilities. We believe that this space, collectively, is sufficient to meet our existing needs.

Periodic Reporting and Financial Information

We are a “smaller reporting company” as defined in Item 10(f)(1) of Regulation S-K. Smaller reporting companies may take advantage of certain reduced disclosure obligations, including, among other things, providing only two years of audited financial statements. We will remain a smaller reporting company if (1) the market value of our common stock held by non-affiliates is less than \$250 million as of the last business day of the second fiscal quarter, or (2) our annual revenues in our most recent fiscal year completed before the last business day of our second fiscal quarter are less than \$100 million and the market value of our common stock held by non-affiliates is less than \$700 million as of the last business day of the second fiscal quarter.

Corporate Information

We were incorporated under the laws of the State of Delaware on June 9, 2016. Our principal executive office is located at 2 Corporate Drive, First Floor, South San Francisco, California 94080, and our telephone number is (650) 382-3281. Our website address is www.sentibio.com. References to our website address do not constitute incorporation by reference of the information contained on the website, and the information on the website is not part of this document.

On June 8, 2022, Dynamics Special Purpose Corp., a Delaware corporation, or DYNS, consummated a previously announced Merger pursuant to the terms of the Business Combination Agreement with Senti Sub I, Inc., formerly Senti Biosciences, Inc., and Explore Merger Sub, Inc., a Delaware corporation and wholly-owned subsidiary of DYNS, or Merger Sub. Pursuant to the terms of the Business Combination Agreement, Merger Sub merged with and into Senti Sub I, Inc., with Senti Sub I, Inc. surviving the merger as a wholly-owned subsidiary of DYNS. The Merger was approved by DYNS’s stockholders at a meeting held on June 7, 2022. In connection with the consummation of the Merger on the Closing Date, DYNS changed its name from DYNS to Senti Biosciences, Inc. On June 9, 2022, our common stock, formerly of DYNS, began trading on the Nasdaq Global Market under the trading symbol “SNTI.”

Available Information

Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and any amendments to these reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, are available free of charge on our website located at www.sentibio.com as soon as reasonably practicable after they are filed with or furnished to the Securities and Exchange Commission (the “SEC”). The SEC maintains an Internet website that contains reports, proxy and information statements, and other information regarding us and other issuers that file electronically with the SEC. The SEC’s Internet website address is www.sec.gov.

A copy of our Corporate Governance Guidelines, Code of Business Conduct and Ethics and the charters of the Audit Committee, Compensation Committee and Nominating and Corporate Governance Committee of our Board of Directors are posted on our website, www.sentibio.com, under “Investors”.

Item 1A. Risk Factors

Investing in our common stock involves a high degree of risk. Before you decide to invest in common stock, you should consider carefully the risks described below, together with the other information contained in this Annual Report on Form 10-K, including our financial statements and the related notes appearing in this Annual Report. We believe the risks described below are the risks that are material to us as of the date of this Annual Report. Factors that could cause our actual results to differ materially from those in this Annual Report are any of the risks described in this Item 1A below. Any of these factors could result in a significant or material adverse effect on our results of operations or financial condition. Additional risk factors not presently known to us or that we currently deem immaterial may also impair our business or results of operations. If any of the following risks actually occur, our business, results of operations and financial condition would likely be materially and adversely affected. In these circumstances, the market price of our common stock could decline, and you may lose part or all of your investment.

Summary Risk Factors

The risk factors set forth below represent a summary of some of the principal risk factors which potential investors in our securities should be aware of. Although each of these risks is important, this list is not and is not intended to be a substitute for investors reviewing all of the information in this Annual Report, including all risk factors which follow this summary.

- We are an early stage clinical biotechnology company with a history of losses. We expect to continue to incur significant losses for the foreseeable future and may never achieve or maintain profitability.
- Our history of recurring losses and anticipated expenditures raises substantial doubt about our ability to continue as a going concern. Our ability to continue as a going concern requires that we obtain sufficient funding to finance our operations.
- We previously identified a material weakness in our internal control over financial reporting. If we experience additional material weaknesses in the future or otherwise fail to maintain an effective system of internal controls in the future, we may not be able to accurately report our financial condition or results of operations, which may adversely affect investor confidence in us and, as a result, the value of our common stock.
- There can be no assurance that we will receive any or all of the anticipated payments under, or achieve any or all of the anticipated benefits of the transaction with GeneFab, and we could face unanticipated challenges.
- Members of our management team have limited experience in managing the day-to-day operations of a public company and, as a result, we may incur additional expenses associated with the management of our company.
- In December 2024 and April 2025, we announced initial clinical data from the Phase 1 clinical trial of our first product candidate, SENTI-202. Also in December 2024, we announced that the first patient was dosed in a clinical trial of SN301A in China under our collaboration with Celest Therapeutics where they manufactured SN301A under their own manufacturing process, and the rest of our current product candidates are in preclinical development. In April 2025, Celest Therapeutics decided to stop dosing in its SN301A clinical trial due to dose limiting toxicities observed. Other product candidates may also fail in clinical development or suffer delays that materially and adversely affect their ability to receive regulatory approval or to attain commercial viability.
- Clinical trials of our current or potential future product candidates may not demonstrate the safety, purity and potency, or efficacy, necessary to become approvable or commercially viable.
- Our gene circuit platform technologies are based on novel technologies that are unproven and may not result in approvable or marketable products, which exposes us to unforeseen risks and makes it difficult for us to predict the time and cost of product development and potential for regulatory approval.

- We may not be successful in our efforts to use and expand our gene circuit platform to expand our pipeline of product candidates.
- The market, physicians, patients, regulators and potential investors may not be receptive to our current or potential future product candidates and may be skeptical of the viability and benefits of our gene circuit pipeline technology because it is based on a relatively novel and complex technology.
- The occurrence of serious complications or side effects in connection with use of our product candidates, either in clinical trials or post-approval, could lead to discontinuation of our clinical development programs, refusal of regulatory authorities to approve our product candidates or, post-approval, revocation of marketing authorizations or refusal to approve applications for new indications, which could severely harm our business, prospects, operating results and financial condition.
- We and our collaborators may not achieve projected discovery and development milestones and other anticipated key events in the time frames that we or they announce or otherwise anticipate, which could have an adverse impact on our ability to receive payments under our collaboration agreements, harm our business and cause our stock price to decline.
- If we encounter difficulties enrolling patients in our clinical trials, our clinical development activities could be delayed or otherwise adversely affected.
- Despite receiving orphan drug designation for SENTI-202 for one indication, if we decide to seek orphan drug designation for one or more of our other product candidates, we may be unsuccessful or may be unable to maintain the benefits associated with orphan drug designation for our current or future product candidates that we may develop.
- We may not be able to conduct, or contract with others to conduct, animal testing in the future, which could harm our research and development activities.
- We currently rely, and intend to continue to rely on third parties to conduct our clinical trials and preclinical studies, and those third parties may not perform satisfactorily.
- Supply of our product candidates for preclinical and clinical development may become limited or interrupted or may not be of satisfactory quantity or quality, and we could experience delays relying on third-party manufacturers.
- We are exposed to a number of risks related to our supply chain for the materials required to manufacture our product candidates.
- We face competition from companies that have developed or may develop product candidates for the treatment of the diseases that we may target, including companies developing novel therapies and platform technologies. If these companies develop platform technologies or product candidates more rapidly than we do, or if their platform technologies or product candidates are more effective or have fewer side effects, our ability to develop and successfully commercialize product candidates may be adversely affected.
- Our business entails a significant risk of product liability, and our inability to obtain sufficient insurance coverage could have a material adverse effect on our business, financial condition, results of operations and prospects.
- Our business, operations and clinical development plans and timelines could be adversely affected by the impact of global economic and political developments, including inflation and capital market disruption, global geopolitical disruptions, including various armed conflicts, tariffs, economic sanctions and economic slowdowns or recession, potential global health crises or by the manufacturing, clinical trial and other business

activities performed by us or by third parties with whom we may conduct business, including our anticipated contract manufacturers, contract research organizations (“CROs”), shippers and others.

Risks Related to Our Limited Operating History and Financial Condition

We are an early stage clinical biotechnology company with a history of losses. We expect to continue to incur significant losses for the foreseeable future and may never achieve or maintain profitability.

We are an early clinical stage biotechnology company with a history of losses. Since our inception, we have devoted substantially all of our resources to research and development, preclinical studies, building our management team and building our intellectual property portfolio, and we have incurred significant operating losses. As of December 31, 2025 and 2024, we had an accumulated deficit of \$358.6 million and \$297.1 million, respectively. Our net losses were \$61.4 million and \$52.8 million for the years ended December 31, 2025 and 2024, respectively. Substantially all of our losses have resulted from expenses incurred in connection with our research and development programs and from general and administrative costs associated with our operations. To date, we have not generated any revenue from product sales, and we have not sought or obtained regulatory approval for any product candidate. Furthermore, we do not expect to generate any revenue from product sales for the foreseeable future, and we expect to continue to incur significant operating losses for the foreseeable future due to the cost of research and development, preclinical studies, clinical trials, manufacturing and the regulatory approval process for our current and potential future product candidates.

We expect our net losses to increase substantially as we:

- continue to advance our gene circuit platform technologies;
- initiate and conduct clinical trials of our current and future product candidates;
- continue preclinical development of our current and future product candidates and initiate additional preclinical studies;
- acquire and in-license technologies aligned with our gene circuit platform technologies;
- seek regulatory approval of our current and future product candidates;
- expand our operational, financial, and management systems and increase personnel, including personnel to support our preclinical and clinical development, and commercialization efforts;
- continue to develop, maintain, expand, and defend our intellectual property portfolio; and
- incur additional legal, accounting, or other expenses in operating our business, including the additional costs associated with operating as a public company.

However, the amount of our future losses is uncertain. Our ability to achieve or sustain profitability, if ever, will depend on, among other things, successfully developing product candidates, obtaining regulatory approvals to market and commercialize product candidates, ensuring our product candidates are manufactured on commercially reasonable terms, entering into potential future alliances, establishing a sales and marketing organization or suitable third-party alternatives for any approved product and raising sufficient funds to finance business activities. If we, or our existing or potential future collaborators, are unable to commercialize one or more of our product candidates, or if sales revenue from any product candidate that receives approval is insufficient, we will not achieve or sustain profitability, which could have a material adverse effect on our business, financial condition, results of operations and prospects.

We will need substantial additional funding, and there is substantial doubt about our ability to continue as a going concern. If we are unable to raise capital when needed on acceptable terms, or at all, we may be forced to

restructure our business or delay, reduce, or terminate our research and product development programs, future commercialization efforts or other operations.

We will need substantial additional funds to advance development of product candidates and our gene circuit platform, and we cannot guarantee that we will have sufficient funds available in the future to develop and commercialize our current or potential future product candidates and technologies.

The development of biotechnology product candidates is capital-intensive. If any of our current or potential future product candidates enter and advance through preclinical studies and clinical trials, we will need substantial additional funds to expand our development, regulatory, marketing and sales capabilities. We have used substantial funds to develop our gene circuit platform, SENTI-202 and other potential product candidates, and we will require significant funds to continue to develop our platform and conduct further research and development, including preclinical studies and clinical trials. In addition, we expect to incur significant additional costs associated with operating as a public company.

As of December 31, 2025, we had \$16.4 million in cash and cash equivalents. In connection with the preparation of this Annual Report, our management has concluded that there is substantial doubt as to whether we can continue as a going concern for 12 months following the filing of this Annual Report and that without additional financing, we may not be able to continue operations as planned past the second quarter of 2026. Our future capital requirements and the period for which our existing resources will support our operations may vary significantly from what we expect. Our monthly spending levels vary based on new and ongoing research and development and other corporate activities. Because the length of time and activities associated with successful research and development of platform technologies and product candidates are highly uncertain, we are unable to estimate the actual funds we will require for development and any approved marketing and commercialization activities. In addition, though we have reached agreement with GeneFab regarding the repayment of overdue payments from GeneFab under various agreements with GeneFab, a substantial amount of that repayment is expected to be in kind in exchange for various manufacturing services and not in cash. Our inability to collect all amounts owing from GeneFab in cash has negatively impacted our ability to continue as a going concern. If GeneFab fails to pay amounts owing to us in the future, our business will be substantially harmed further.

Our future capital requirements and the timing and amount of our operating expenditures will depend largely on:

- the timing and progress of preclinical and clinical development of our current and potential future product candidates;
- the timing and progress of our development of our gene circuit platforms;
- the number and scope of preclinical and clinical programs we decide to pursue;
- the terms of any current third-party manufacturing contract or biomanufacturing partnership or future manufacturing contract or biomanufacturing partnership we may enter into;
- our ability to collect rent and other payments under various agreements with GeneFab and other parties who occupy portions of the properties we currently lease from third parties;
- our ability to maintain our current licenses and collaborations, conduct our research and development programs and establish new strategic partnerships and collaborations;
- the progress of the development efforts of our existing strategic partners and third parties with whom we may in the future enter into collaboration and research and development agreements;
- the costs involved in obtaining, maintaining, enforcing and defending patents and other intellectual property rights;

- supply chain disruptions, global political and market conditions, tariffs and inflationary pressures on our business;
- GeneFab’s ability to continue operating as a going concern and to satisfy its obligations under various manufacturing agreements between us and GeneFab;
- the cost and timing of regulatory approvals; and
- our efforts to enhance operational systems and to hire and retain personnel, including personnel to support development of our product candidates and to satisfy our obligations as a public company.

To date, we have primarily financed our operations through the sale of equity securities and the sale of assets related to our manufacturing operations. We may seek to raise any necessary additional capital through a combination of public or private equity offerings, debt financings, collaborations, strategic alliances, licensing arrangements, grants and other marketing and distribution arrangements. Any additional capital raising efforts may divert our management from their day-to-day activities, which may adversely affect our ability to develop and commercialize our current and future product candidates, if approved.

We cannot assure you that we will be successful in acquiring additional funding at levels sufficient to fund our operations or on terms acceptable to us, if at all. If we are unable to obtain adequate financing when needed, our business, financial condition and results of operations will be harmed, and we may need to significantly modify our operational plans, or else we will not be able to continue as a going concern beyond 12 months from the issuance date of this Annual Report. For example, in January 2023 we announced a strategic plan to focus internal resources on SENTI-202 and SENTI-401 and to develop gene circuits for other programs with potential partners. In August 2023, we announced a transaction with GeneFab pursuant to which we transferred our in-house manufacturing operations and assets to GeneFab. We have had to delay certain work under planned statements of work (“SOWs”) with GeneFab due to a lack of funding in the past. We have plans to further engage GeneFab to perform work under these and new SOWs. However, there can be no assurance that we will have the funding available to us to do so. In January 2024, we announced a strategic plan to focus our resource allocation to investment in clinical development of SENTI-202 and on partnership of our SENTI-301A program in China which we have subsequently ceased developing. In September 2024, we subleased to BKBIOTECH, Inc., and JLSA2 Therapeutics, Inc., certain portions of our corporate headquarters. In the future, we may have to delay, reduce the scope of or suspend one or more of our preclinical studies, clinical trials, research and development programs, or commercialization efforts. Further, if we are unable to continue as a going concern, we might have to liquidate our assets, and the values we receive for our assets in liquidation or dissolution could be significantly lower than the values reflected in our consolidated financial statements. Because of the numerous risks and uncertainties associated with the development and commercialization of our current and potential future product candidates and the extent to which we may enter into collaborations with third parties to participate in their development and commercialization, we are unable to estimate the amounts of increased capital outlays and operating expenditures associated with our current and anticipated preclinical studies and clinical trials, including related manufacturing costs.

To the extent that we raise additional capital through collaborations, strategic alliances or licensing arrangements with third parties, we may have to relinquish valuable rights to our current and potential future product candidates, future revenue streams or research programs or grant licenses on terms that may not be favorable to us. If we do raise additional capital through public or private equity or convertible debt offerings, the ownership interest of our existing stockholders will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect our stockholders’ rights. If we raise additional capital through debt financing, we may be subject to covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends. Moreover, the issuance of additional securities by us, whether equity or debt, or the market perception that such issuances are likely to occur, could cause the market price of our common stock to decline.

We do not expect to realize revenue from product sales or royalties from licensed products for the foreseeable future, if at all, and unless and until our current and potential future product candidates are clinically tested, approved for commercialization and successfully marketed.

Our streamlining of business operations, including workforce reduction and re-prioritization plan announced in January 2024, may not result in anticipated savings, could result in total costs and expenses that are greater than expected and could disrupt our business.

In January 2024, we announced a reduction in workforce by approximately 37% in connection with streamlining our business operations to enable increased focus on SENTI-202 and to continue SENTI-301A program clinical development through a partnership in China. We incurred certain one-time estimated severance and related costs as part of this resource allocation effort. We also cannot guarantee that we will not have to undertake additional workforce reductions or re-prioritization activities in the future. Further, we may not be able to enter into partnerships for programs that we do not intend to develop internally on acceptable terms or within the timeframes that we expect, or we may not realize the anticipated benefits of those partnerships we do secure, and we may be forced to dedicate additional time and resources to the maintenance of these programs or to our efforts to enter new or additional partnerships. Furthermore, our streamlined strategic business plan may be disruptive to our operations. For example, our workforce reductions could yield unanticipated consequences, such as attrition beyond planned staff reductions, increased difficulties in our day-to-day operations and reduced employee morale. In addition, if there are unforeseen expenses associated with such realignments in our business strategies, and we incur unanticipated charges or liabilities, then we may not be able to effectively realize the expected cost savings or other benefits of such actions which could have an adverse effect on our business, operating results and financial condition. If employees who were not affected by the workforce reduction seek alternate employment, this could result in us seeking contract support resulting in unplanned additional expense or harm our productivity. Our workforce reductions could also harm our ability to attract and retain qualified management, scientific, clinical, and manufacturing personnel who are critical to our business. Any failure to attract or retain qualified personnel could prevent us from successfully developing our product candidates in the future.

We previously identified a material weakness in our internal control over financial reporting. If we experience additional material weaknesses in the future or otherwise fail to maintain an effective system of internal controls in the future, we may not be able to accurately report our financial condition or results of operations, which may adversely affect investor confidence in us and, as a result, the value of shares of our common stock.

As previously reported, in connection with our preparation and the audit of our consolidated financial statements as of and for the year ended December 31, 2024, we and our independent registered public accounting firm identified a material weakness, as defined under the Exchange Act and by the Public Company Accounting Oversight Board (United States), in our internal control over financial reporting. The material weakness related to a lack of sufficient and adequate resources in the finance and accounting function and while we remediated the material weakness in 2025, there can be no assurance that we will not have another material weakness in our finance and accounting functions.

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting such that there is a reasonable possibility that a material misstatement of our consolidated financial statements will not be prevented or detected on a timely basis.

We implemented a risk assessment process and measures designed to improve our internal control over financial reporting and remediate the control deficiencies that led to the material weakness, including hiring additional accounting personnel. However, the process of designing and implementing effective internal controls is a continuous effort that requires us to anticipate and react to changes in our business and the economic and regulatory environments and to expend significant resources to maintain a system of internal controls that is adequate to satisfy our reporting obligations as a public company. Moreover, the rules governing the standards that must be met for our management to assess our internal control over financial reporting are complex and require significant documentation, testing, and remediation. To maintain and improve the effectiveness of our financial reporting, we

will need to commit significant resources, implement and strengthen existing disclosure processes controls, reporting systems, and procedures, train personnel and provide additional management oversight, all of which may divert attention away from other matters that are important to our business.

We cannot be certain that the measures we have taken to date, and actions we may take in the future, will be sufficient to avoid in the future the control deficiencies that led to our material weakness in our internal control over financial reporting or that they will prevent or avoid potential future material weaknesses. In addition, an independent registered public accounting firm has not yet performed an evaluation of our internal control over financial reporting, though such an evaluation will be required when we lose our status as an “emerging growth company” and become an “accelerated filer” or a “large accelerated filer.” When an evaluation by an independent registered public accounting firm is performed, such firm may issue a report that is qualified if it is not satisfied with our controls or the level at which our controls are documented, designed, operated, or reviewed.

Our testing, or the subsequent testing by our independent registered public accounting firm, may reveal deficiencies in our internal controls over financial reporting that are deemed to be material weaknesses. A material weakness in internal controls could result in our failure to detect a material misstatement of our annual or quarterly consolidated financial statements or disclosures. We may not be able to conclude on an ongoing basis that we have effective internal controls over financial reporting in accordance with Section 404. If we are unable to conclude that we have effective internal controls over financial reporting, investors could lose confidence in our reported financial information, which could have a material adverse effect on the trading price of the shares of our common stock.

If we are unable to successfully remediate any future material weaknesses in our internal control over financial reporting, or identify any future material weaknesses, the accuracy and timing of our financial reporting may be negatively impacted, we may be unable to maintain compliance with securities law requirements regarding timely filing of periodic reports in addition to applicable stock exchange listing requirements, investors may lose confidence in our financial reporting and our stock price may decline as a result. If we are not able to implement the requirements of Section 404 in a timely manner or with adequate compliance, our independent registered public accounting firm when required may issue an adverse opinion due to ineffective internal controls over financial reporting, and we may be subject to sanctions or investigation by regulatory authorities, such as the SEC. As a result, there could be a negative reaction in the financial markets due to a loss of confidence in the reliability of our consolidated financial statements. In addition, we may be required to incur costs in improving our internal control system and the hiring of additional personnel. Any such action could negatively affect our results of operations and cash flows.

Members of our management team have limited experience in managing the day-to-day operations of a public company and, as a result, we may incur additional expenses associated with the management of our company.

Certain members of our management team have limited experience in managing the day-to-day operations of a public company. As a result, we may need to obtain outside assistance from legal, accounting, investor relations, or other professionals that could be more costly than planned. These compliance costs will make some activities significantly more time-consuming and costly. If we lack cash resources to cover these costs in the future, our failure to comply with reporting requirements and other provisions of securities laws could negatively affect our stock price and adversely affect our potential results of operations, cash flow and financial condition.

Our ability to use net operating loss carryforwards (“NOLs”) and credits to offset future taxable income may be subject to certain limitations.

Our NOLs could expire unused and be unavailable to offset future income tax liabilities because of their limited duration or because of restrictions under U.S. tax law. NOLs generated in taxable years beginning before January 1, 2018 are permitted to be carried forward for 20 taxable years under applicable U.S. federal income tax law. Under current U.S. federal income tax law, NOLs arising in tax years beginning after December 31, 2020 may not be carried back. Moreover, NOLs generated in taxable years beginning after December 31, 2017 may be carried forward indefinitely, but the deductibility of such NOLs generally will be limited in taxable years beginning after

December 31, 2020 to 80% of current year taxable income. As of December 31, 2025, we had NOLs for U.S. federal and state income tax purposes of approximately \$263.6 million and \$202.7 million, respectively, a portion of which expire beginning in 2036 if not utilized. NOLs for U.S. federal tax reporting purposes of approximately \$260.1 million have an indefinite life.

In general, under Section 382 of the Internal Revenue Code of 1986, as amended (the “Code”), a corporation that undergoes an “ownership change” (defined under Section 382 of the Code and applicable Treasury Regulations as a greater than 50 percentage point change (by value) in a corporation’s equity ownership by certain stockholders over a rolling three-year period) is subject to limitations on its ability to utilize its pre-change NOLs to offset future taxable income. We have not determined whether our NOLs are limited under Section 382 of the Code. We may have experienced ownership changes in the past and may experience ownership changes in the future, including as a result of the Merger or subsequent shifts in our stock ownership (some of which are outside our control). Furthermore, our ability to utilize NOLs of companies that we may acquire in the future may be subject to limitations. There is also a risk that due to regulatory changes, such as suspensions on the use of NOLs or other unforeseen reasons, our existing NOLs could expire or otherwise be unavailable to reduce future income tax liabilities, including for state tax purposes. For these reasons, we may not be able to utilize a material portion of the NOLs reflected on our balance sheets, even if we attain profitability, which could potentially result in increased future tax liability to us and could adversely affect our operating results and financial condition.

The U.S. Congress, the current U.S. presidential administration, or any subsequent administration may make substantial changes to fiscal, tax, and other federal policies that may adversely affect our business.

The U.S. rules dealing with federal, state, and local taxation are constantly under review by those involved in the legislative process, as well as by the U.S. Treasury Department. Changes to tax laws, which may have retroactive application, could adversely affect us or holders of our common stock. In recent years, many such changes have been made and change are likely to continue to occur in the future. For example, in 2017, the U.S. Congress and the Trump administration made substantial changes to U.S. policies, which included comprehensive corporate and individual tax reform. In addition, the Trump administration called for significant changes to U.S. trade, healthcare, immigration and government regulatory policy. With the transition to the Biden administration in early 2021, changes to U.S. policy occurred and since the start of the Trump Administration in 2025, U.S. policy changes have been implemented at a rapid pace and additional changes are likely. Future changes in tax laws could have a material adverse effect on our business, cash flow, financial conditions, or results of operations. The existence, timing, and content of new tax laws are unpredictable, and could cause an increase in our or our shareholders’ tax liability or require changes in the manner in which we operate in order to minimize or mitigate any adverse effects of changes in tax law. We urge investors to consult with their legal and tax advisers regarding the implications of potential changes in tax laws on an investment in our common stock. Changes to U.S. policy implemented by the U.S. Congress, the Trump administration or any new administration have impacted and may in the future impact, among other things, the U.S. and global economy, international trade relations, unemployment, immigration, healthcare, taxation, the U.S. regulatory environment, inflation and other areas. Although we cannot predict the impact, if any, of these changes to our business, they could adversely affect our business. Until we know what policy changes are made and whether those policy changes are challenged and subsequently upheld by the court system, we will not know if we will benefit from them or be negatively affected by them.

The sale or issuance of our common stock to Celadon Partners may cause significant dilution and the sale of the shares of common stock acquired by Celadon Partners, or the perception that such sales may occur, could cause the price of our common stock to fall.

Pursuant to an option under the transaction with GeneFab which was subsequently transferred to Celadon Partners, Celadon may choose to invest up to approximately \$20 million to purchase up to 1,963,344 shares of our common stock at a per share purchase price of \$10.18670, subject to certain limitations, including stockholder approval in certain circumstances and compliance with applicable law. The option becomes exercisable by Celadon upon the execution of the license agreement, no later than August 7, 2026. While we believe it is unlikely that the option will be exercised, if it is exercised, it could result in a significant increase in the number of outstanding shares of our common stock and substantially dilute the ownership interest of our existing stockholders. In addition, we

have agreed to register for resale these shares purchased by Celadon under their option, subject to certain restrictions. If Celadon chooses to sell its shares in the Company, the price of our shares could fluctuate based on the market price of the common stock during the period in which such sales occur. Additionally, the sale of a substantial number of shares of our common stock, or the anticipation of such sales, could make it more difficult for us to sell equity or equity-related securities in the future at a time and at a price that we might otherwise wish to effect sales.

Adverse developments affecting the financial services industry, such as actual events or concerns involving liquidity, defaults, or non-performance by financial institutions or transactional counterparties, could adversely affect our current and projected business operations and our financial condition and results of operations.

Events involving limited liquidity, defaults, non-performance or other adverse developments that affect financial institutions, transactional counterparties or other companies in the financial services industry or the financial services industry generally, or concerns or rumors about any events of these kinds or other similar risks, have in the past and may in the future lead to market-wide liquidity problems. As of December 31, 2025, we held a letter of credit with JPMorgan Chase Bank in the amount of approximately \$0.5 million related to the headquarter facility leases and a letter of credit with JPMorgan Chase Bank in the amount of approximately \$2.9 million related to Alameda facility lease. As part of a March 17, 2026 amendment to the Lease Agreement for that facility, this letter of credit will be reduced by \$2 million will be drawn down at the landlord's discretion from these immediately available funds. As of the date of this Annual Report, we hold certain funds in accounts with Silicon Valley Bank, or SVB. Due to the placement into receivership of SVB in March 2023, we may be unable to access such funds. In addition, if any parties with whom we conduct business are unable to access funds pursuant to instruments or lending arrangements with such a financial institution, such parties' ability to pay their obligations to us or to enter into new commercial arrangements requiring additional payments to us could be adversely affected. In this regard, counterparties to credit agreements and arrangements with banks in receivership or other financial difficulty, and third parties (such as beneficiaries of letters of credit, among others), may experience direct impacts from the closure of or reorganization of such financial institution and uncertainty remains over liquidity concerns in the broader financial services industry. Similar impacts have occurred in the past, such as during the 2008-2010 financial crisis.

Inflation and rapid increases in interest rates have led to a decline in the trading value of previously issued government securities with interest rates below current market interest rates. Although the U.S. Department of Treasury, FDIC and Federal Reserve Board have announced a program to provide up to \$25 billion of loans to financial institutions secured by certain of such government securities held by financial institutions to mitigate the risk of potential losses on the sale of such instruments, widespread demands for customer withdrawals or other liquidity needs of financial institutions for immediately liquidity may exceed the capacity of such program. Additionally, there is no guarantee that the U.S. Department of Treasury, FDIC and Federal Reserve Board will provide access to uninsured funds in the future in the event of the closure of other banks or financial institutions, or that they would do so in a timely fashion.

Although we assess our banking relationships as we believe necessary or appropriate, our access to funding sources in amounts adequate to finance or capitalize our current and projected future business operations could be significantly impaired by factors that affect us, the financial institutions with which we have or financial arrangements directly, or the financial services industry or economy in general. These factors could include, among others, events such as liquidity constraints or failures, the ability to perform obligations under various types of financial, credit or liquidity agreements or arrangements, disruptions or instability in the financial services industry or financial markets, or concerns or negative expectations about the prospects for companies in the financial services industry.

In addition, investor concerns regarding the U.S. or international financial systems could result in less favorable commercial financing terms, including higher interest rates or costs and tighter financial and operating covenants, or systemic limitations on access to credit and liquidity sources, thereby making it more difficult for us to acquire financing on acceptable terms or at all. Any decline in available funding or access to our cash and liquidity resources could, among other risks, adversely impact our ability to meet our operating expenses, financial obligations or fulfill our other obligations, result in breaches of our financial and/or contractual obligations or result in violations of federal or state wage and hour laws and otherwise have a material adverse impact on our business.

Risks Related to the Development and Clinical Testing of Our Product Candidates

Our current product candidates are in early clinical or preclinical development. One or all of our current product candidates may fail in clinical development or suffer delays that materially and adversely affect their commercial viability.

We have no products on the market or that have gained regulatory approval and we are in the early stages of the clinical development of SENTI-202, our lead product candidate. Our ability to achieve and sustain profitability depends on obtaining regulatory approvals for and successfully commercializing product candidates, either alone or with collaborators.

Before obtaining regulatory approval for the commercial distribution of our product candidates, we or a collaborator must conduct extensive preclinical studies, followed by clinical trials to demonstrate the safety, purity and potency, or efficacy of our product candidates in humans. There is no guarantee that the FDA will permit us to conduct clinical trials in accordance with our plans, or at all. Further, we cannot be certain of the timely completion or outcome of our clinical trials and preclinical studies and cannot predict if the FDA or other regulatory authorities will accept our proposed clinical programs, our clinical protocols or if the outcome of our clinical trials or preclinical studies will ultimately support the further development or commercialization of our programs or testing in humans. As a result, we cannot be sure that we will be able to submit IND or similar applications for our proposed clinical programs on the timelines we expect, if at all, and we cannot be sure that our submission of additional INDs or similar applications will result in the FDA or other regulatory authorities allowing clinical trials for our product candidates to begin.

Our current product candidates are in early clinical and preclinical development and we are subject to the risks of failure inherent in the development of product candidates based on novel approaches, targets and mechanisms of action. Although we received IND clearance for SENTI-202 from the FDA in December 2023 and announced initial results from the Phase 1 clinical trial for SENTI-202 in the fourth quarter of 2024, there is no guarantee that SENTI-202 or any potential future product candidates will prove effective in humans or will receive approval. Accordingly, you should consider our prospects in light of the costs, uncertainties, delays and difficulties frequently encountered by early clinical stage biotechnology companies such as ours.

We may not be able to access the financial resources to continue development of, or to enter into any collaborations for, any of our current or potential future product candidates. This may be exacerbated if we experience any issues that delay or prevent regulatory approval of, or our ability to commercialize, a product candidate, such as:

- negative or inconclusive results from our preclinical studies or clinical trials or the clinical trials of others for product candidates similar to ours, leading to a decision or requirement to conduct additional preclinical studies or clinical trials or abandon any or all of our programs;
- adverse events experienced by participants in our clinical trials or by individuals using therapeutics similar to our product candidates;
- delays in submitting INDs or comparable foreign applications, or delays or failures to obtain the necessary approvals from regulatory authorities to commence a clinical trial, or a suspension or termination of a clinical trial once commenced;
- conditions imposed by the FDA or other regulatory authorities regarding the scope or design of our clinical trials;
- delays in enrolling research subjects in clinical trials;
- high drop-out rates of research subjects;

- inadequate supply or quality of product candidate components or materials or other supplies necessary for the conduct of our clinical trials;
- conditioning patients with fludarabine in advance of administering our product candidates, which may be difficult to source, costly, or increase the risk of infections and other adverse side effects;
- chemistry, manufacturing and control (“CMC”) challenges associated with manufacturing and scaling up biologic product candidates to ensure consistent quality, stability, purity and potency among different batches used in clinical trials;
- greater-than-anticipated clinical trial costs;
- poor potency or effectiveness of our product candidates during clinical trials;
- unfavorable FDA or other regulatory authority inspection and review of a clinical trial or manufacturing site;
- delays as a result of a pandemic or other public health emergency, or events associated with a pandemic or other health emergency;
- failure of our third-party contractors or investigators to comply with regulatory requirements or otherwise meet their contractual obligations in a timely manner, or at all;
- delays and changes in regulatory requirements, policies and guidelines; or
- the FDA or other regulatory authorities interpreting our data differently than we do.

Further, we and any existing or potential future collaborator may never receive approval to market and commercialize any product candidate. Even if we or any existing or potential future collaborator obtains regulatory approval, the approval may be for targets, disease indications or patient populations that are not as broad as we intended or desired or may require labeling that includes significant use or distribution restrictions or safety warnings. We or an existing or potential future collaborator may also be subject to post-marketing testing requirements to maintain regulatory approval.

Clinical trials of our current or potential future product candidates may not demonstrate the safety, purity and potency, or efficacy, necessary for such product candidates to become approvable or commercially viable.

Other than SENTI-202, none of our current product candidates have ever been tested in humans. We may ultimately discover that our current product candidates do not possess certain properties that we believe are helpful for therapeutic effectiveness and safety or would otherwise support the submission of an IND on the timelines we expect, or at all. In early clinical trials with the Celest Therapeutics’ SN301A program which incorporates our SENTI 301A gene circuit, our partner, Celest Therapeutics observed certain dose limiting toxicities in some patients and decided to stop dosing patients in the SN301A clinical trial. We also do not know if the observations we have made regarding our gene circuits generally and our product candidates in particular will translate into any clinical response when tested in humans. As an example, while the TAA CD33 has been clinically validated as a target for an approved antibody-drug conjugate therapy, it has not been clinically validated as a target for CAR-NK or CAR-T therapies, and may not prove to be a clinically sufficient target for the CAR-NK therapies we are developing. As a result of these uncertainties related to our gene circuit platform technologies and our product candidates, we may never succeed in developing a marketable product based on our current product candidates. If any of our current or potential future product candidates prove to be ineffective, unsafe or commercially unviable, our entire pipeline could have little, if any, value, which could have a material adverse effect on our business, financial condition, results of operations and prospects.

Our gene circuit platform technologies are based on novel technologies that are unproven and may not result in approvable or marketable products, which exposes us to unforeseen risks and makes it difficult for us to predict the time and cost of product development and potential for regulatory approval.

We are seeking to identify and develop a broad pipeline of product candidates using our gene circuit platform technologies. The scientific research that forms the basis of our efforts to develop product candidates with our platforms is still ongoing. We are not aware of any FDA approved therapeutics utilizing similar technologies as ours. Further, the scientific evidence to support the feasibility of developing therapeutic treatments based on our platform technologies is preliminary. As a result, we are exposed to a number of unforeseen risks and it is difficult to predict the types of challenges and risks that we may encounter during development of our product candidates. For example, our current data is largely limited to animal models and preclinical cell lines, the results of which may not translate into humans. Further, relevant animal models and assays may not accurately predict the safety and efficacy of our product candidates in humans, and we may encounter significant challenges creating appropriate models and assays for demonstrating the safety and efficacy of our product candidates. In addition, our gene circuit technologies may have potential safety risks.

Given the novelty of our technologies, we intend to work closely with the FDA and comparable foreign regulatory authorities to evaluate our proposed approaches to obtain regulatory approval for our product candidates; however, due to a lack of comparable experiences, the regulatory pathway with the FDA and comparable regulatory authorities may be more complex and time-consuming relative to other more well-known therapeutics. Even if we obtain human data to support our product candidates, the FDA or comparable foreign regulatory agencies may lack experience in evaluating the safety and efficacy of our product candidates developed using our platforms, which could result in a longer than expected regulatory review process, increase our expected development costs, and delay or prevent commercialization of our product candidates. The validation process takes time and resources, may require independent third-party analyses, and may not be accepted or approved by the FDA and comparable foreign regulatory authorities. We cannot be certain that our approach will lead to the development of approvable or marketable products, alone or in combination with other therapies.

The occurrence of serious complications or side effects in connection with the use of our product candidates, either in clinical trials or post-approval, could lead to discontinuation of our clinical development programs, refusal of regulatory authorities to approve our product candidates, or, post-approval, revocation of marketing authorizations or refusal to approve applications for new indications, which could severely harm our business, prospects, operating results, and financial condition.

Undesirable side effects caused by any of our current or potential future product candidates could cause regulatory authorities to interrupt, delay, or halt clinical trials and could result in a more restrictive label or the delay or denial of regulatory approval by the FDA or other regulatory authorities. We announced initial results from the Phase 1 clinical trial for SENTI-202 and our partner Celest Therapeutics initiated and subsequently terminated a clinical trial for SN-301A in China. We have not initiated clinical trials for any other product candidates. It is likely that there will be side effects associated with the use of certain of our products. For example, Celest Therapeutics saw dose limiting toxicities in early results from its clinical trial of SN-301A and has decided to stop dosing patients in that trial. Further, if the NOT GATE gene circuit, engineered into one of our product candidates, such as SENTI-202, does not provide a clinically sufficient level of inhibition, it may kill healthy cells that it has been designed to preserve or may cause systemic immune cytotoxicity. It is possible that safety events or concerns such as these or others could negatively affect the development of our product candidates, including adversely impacting patient enrollment among the patient populations that we intend to treat. In such an event, our trials could be suspended or terminated, and the FDA or other regulatory authorities could order us to cease further development of or deny approval of a product candidate for any or all targeted indications. Such side effects could also affect patient recruitment or the ability of enrolled patients to complete the trial or result in potential product liability claims. To date, we have not observed any such effects in our preclinical studies, but there can be no guarantee that our current or future product candidates will not cause such effects in clinical trials. Any of these occurrences may materially and adversely impact our business and financial condition and impair our ability to generate revenues.

Further, clinical trials by their nature utilize a sample of the potential patient population. With a limited number of patients and limited duration of exposure, rare and severe side effects of a product candidate may only be uncovered when a significantly large number of patients are exposed to the product candidate or when patients are exposed for a longer period of time.

In the event that any of our current or potential future product candidates receives regulatory approval and we or others identify undesirable side effects caused by one of these products, any of the following events could occur, which could result in the loss of significant revenue to us and materially and adversely impact our results of operations and business:

- regulatory authorities may withdraw their approval of the product or seize the product;
- we may be required to recall the product or change the way the product is administered to patients;
- additional restrictions may be imposed on the marketing of the particular product or the manufacturing processes for the product or any component thereof;
- we may be subject to fines, injunctions, or the imposition of civil or criminal penalties;
- regulatory authorities may require the addition of labeling statements, such as a “black box” warning or a contraindication;
- we may be required to create a medication guide outlining the risks of such side effects for distribution to patients;
- we could be sued and held liable for harm caused to patients;
- the product may become less competitive; and
- our reputation may suffer.

Any of these events could prevent us from achieving or maintaining market acceptance of the particular product candidate, if approved, and could significantly harm our business, results of operations, and prospects.

We may not be successful in our efforts to use and expand our gene circuit platform to grow our pipeline of product candidates.

A key element of our strategy is to use and advance our gene circuit platform to design, test and build our portfolio of product candidates focused on allogeneic gene circuit-equipped CAR-NK cell therapies for the treatment of cancer. Although our research and development efforts to date have resulted in our discovery and preclinical development of SENTI-202, SENTI-301A, and other potential product candidates, we only received clearance of our IND for SENTI-202 in December 2023, and initiated our Phase 1 clinical trial for SENTI-202 in the second quarter of 2024. In addition, our partner in China, Celest Therapeutics, began dosing in a clinical trial for SN-301A in December 2024 but stopped dosing in that trial in April 2025 due to certain dose limiting toxicities observed in that clinical trial. We have not tested any other products in humans and we cannot assure you that any other existing product candidates will advance to clinical trials or, if they do, that such trials will demonstrate these product candidates to be safe or effective therapeutics, and we may not be able to successfully develop any product candidates. Even if we are successful in expanding our pipeline of product candidates, any additional product candidates that we identify may not be suitable for clinical development or generate acceptable clinical data, including as a result of being shown to have unacceptable effects or other characteristics that indicate that they are unlikely to be products that will receive marketing approval from the FDA or other regulatory authorities or achieve market acceptance. If we do not successfully develop and commercialize product candidates, we will not be able to generate product revenue in the future.

Although we intend to explore other therapeutic opportunities in addition to the product candidates that we are currently developing, we may fail to identify viable new product candidates for clinical development for a number of reasons. If we fail to identify additional potential product candidates, our business could be materially harmed.

Although a substantial amount of our efforts will focus on our ongoing and planned clinical trials and potential approval of the current and potential future product candidates we are evaluating, an element of our long term strategy is to discover, develop, and globally commercialize additional targeted therapies beyond our current product candidates to treat various conditions and in a variety of therapeutic areas. Even if we identify investigational therapies that initially show promise, we may fail to successfully develop and commercialize such products for many reasons, including the following:

- the research methodology used may not be successful in identifying potential investigational therapies;
- competitors may develop alternatives that render our investigational therapies obsolete;
- investigational therapies we develop may be covered by third parties' patents or other exclusive rights;
- an investigational therapy may, on further study, be shown to have harmful side effects or other characteristics that indicate it is unlikely to be effective or otherwise does not meet applicable regulatory criteria;
- it may take greater human and financial resources than we will possess to identify additional therapeutic opportunities for our product candidates or to develop suitable potential product candidates through internal research programs, thereby limiting our ability to develop, diversify and expand our product portfolio;
- an investigational therapy may not be capable of being produced in clinical or commercial quantities at an acceptable cost, or at all; and
- an approved product may not be accepted as safe and effective by patients, the medical community or third-party payors.

Identifying new investigational therapies requires substantial technical, financial and human resources, whether or not any investigational therapies are ultimately identified. Because we have limited financial and human resources, we may initially focus on research programs and product candidates for a limited set of indications. As a result, we may forgo or delay pursuit of opportunities with other product candidates or for other indications that later prove to have greater commercial potential or a greater likelihood of success. Our resource allocation decisions may cause us to fail to capitalize on viable commercial products or profitable market opportunities. For example, if we do not accurately evaluate the commercial potential or target market for a particular product candidate or technology, we may relinquish valuable rights to that product candidate or technology through collaborations, licensing or other royalty arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate or technology.

Accordingly, there can be no assurance that we will ever be able to identify additional therapeutic opportunities for our product candidates or to develop suitable potential product candidates through internal research programs, which could materially adversely affect our future growth and prospects. We may focus our efforts and resources on potential product candidates or other potential programs that ultimately prove to be unsuccessful.

The market, physicians, patients, regulators and potential investors may not be receptive to our current or potential future product candidates and may be skeptical of the viability and benefits of our gene circuit pipeline technology because it is based on a relatively novel and complex technology.

The market, physicians, patients, regulators and potential investors, may be skeptical of the viability and benefits of our gene circuit pipeline technology or our product candidates because they are based on a relatively novel and complex technology and there can be no assurance that our product candidates or platform technologies

will be understood, approved, or accepted. If potential investors are skeptical of the success of our pipeline products, our ability to raise capital and the value of our stock may be adversely affected. If physicians, patients, or regulators do not understand or accept our gene circuit platform technologies or our product candidates, we may be delayed in or unable to develop our product candidates.

Even if regulatory approval is obtained for a product candidate, including SENTI-202, we may not generate or sustain revenue from sales of approved products. Market acceptance of our gene circuit platform technologies and our current and potential future product candidates, if approved, will depend on, among other factors:

- the timing of our receipt of any marketing and commercialization approvals;
- the terms of any approvals and the countries in which approvals are obtained;
- the safety and efficacy of our product candidates and gene circuit technologies in general;
- the prevalence and severity of any adverse side effects associated with our product candidates;
- limitations or warnings contained in any labeling approved by the FDA or other regulatory authority;
- relative convenience and ease of administration of our product candidates;
- the success of our physician education programs;
- the availability of coverage and adequate government and third-party payor reimbursement;
- the pricing of our products, particularly as compared to alternative treatments; and
- availability of alternative effective treatments for the disease indications our product candidates are intended to treat and the relative risks, benefits and costs of those treatments.

If any product candidate we commercialize fails to achieve market acceptance, it could have a material adverse impact on our business, financial condition, results of operations, and prospects.

We may not be able to file additional INDs to commence clinical trials on the timelines we expect, and even if we are able to, the FDA may not permit us to proceed.

We cannot be sure that submission of an IND will result in the FDA allowing testing and clinical trials to begin, or that, once begun, issues will not arise that suspend or terminate such clinical trials. The manufacturing of our product candidates, including SENTI-202, remains an emerging and evolving field. Accordingly, we expect chemistry, manufacturing and control related topics, including product specifications, will be a focus of IND reviews, which may delay the clearance of any future INDs we may submit. Additionally, even if such regulatory authorities agree with the design and implementation of the clinical trials set forth in an IND or clinical trial application, we cannot guarantee that such regulatory authorities will not change their requirements in the future.

In addition to the submission of an IND to the FDA before initiation of a clinical trial in the United States, certain human clinical trials involving recombinant or synthetic nucleic acid molecules are subject to oversight of institutional biosafety committees (“IBCs”), as set forth in the National Institutes of Health (“NIH”), Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules, NIH Guidelines. Under the NIH Guidelines, recombinant and synthetic nucleic acids are defined as: (i) molecules that are constructed by joining nucleic acid molecules and that can replicate in a living cell (i.e., recombinant nucleic acids); (ii) nucleic acid molecules that are chemically or by other means synthesized or amplified, including those that are chemically or otherwise modified but can base pair with naturally occurring nucleic acid molecules (i.e., synthetic nucleic acids); or (iii) molecules that result from the replication of those described in (i) or (ii). Specifically, under the NIH Guidelines, supervision of human gene transfer trials includes evaluation and assessment by an IBC, a local institutional committee that

reviews and oversees research utilizing recombinant or synthetic nucleic acid molecules at that institution. The IBC assesses the safety of the research and identifies any potential risk to public health or the environment, and such review may result in some delay before initiation of a clinical trial. While the NIH Guidelines are not mandatory unless the research in question is being conducted at or sponsored by institutions receiving NIH funding of recombinant or synthetic nucleic acid molecule research, many companies and other institutions not otherwise subject to the NIH Guidelines voluntarily follow them.

Interim, topline and preliminary data that we announce or publish from time to time for any clinical trials that we initiate may change as more patient data become available or as additional analyses are conducted, and as the data are subject to audit and verification procedures that could result in material changes in the final data.

From time to time, we may publicly disclose interim, preliminary or topline data from our preclinical studies and clinical trials, which is based on a preliminary analysis of then-available data, and the results and related findings and conclusions are subject to change following a more comprehensive review of the data related to the particular study or trial. We also make assumptions, estimates, calculations and conclusions as part of our analyses of data, and we may not have received or had the opportunity to fully and carefully evaluate all data. As a result, the interim, preliminary or topline results that we report may differ from future results of the same study or trials, or different conclusions or considerations may qualify such results, once additional data have been received and fully evaluated. Topline data also remain subject to audit and verification procedures that may result in the final data being materially different from the preliminary data we previously published. As a result, topline data should be viewed with caution until the final data are available. Interim, topline or preliminary data from clinical trials that we may complete are subject to the risk that one or more of the clinical outcomes may materially change as patient enrollment continues and more patient data become available. Adverse differences between preliminary, topline or interim data and final data could significantly harm our business prospects.

Further, others, including regulatory agencies, may not accept or agree with our assumptions, estimates, calculations, conclusions or analyses or may interpret or weigh the importance of data differently, which could impact the value of the particular program, the approvability or commercialization of the particular product candidate or product and the value of our company in general. In addition, the information we choose to publicly disclose regarding a particular study or clinical trial is based on what is typically extensive information, and you or others may not agree with what we determine is the material or otherwise appropriate information to include in our disclosure, and any information we determine not to disclose may ultimately be deemed significant with respect to future decisions, conclusions, views, activities or otherwise regarding a particular product, product candidate or our business. If the topline data that we report differ from actual results, or if others, including regulatory authorities, disagree with the conclusions reached, our ability to obtain approval for, and commercialize, our product candidates may be harmed, which could harm our business, operating results, prospects or financial condition.

We and our collaborators may not achieve projected discovery and development milestones and other anticipated key events in the time frames that we or they announce, which could have an adverse impact on our business and could cause our stock price to decline.

From time to time, we expect that we will make public statements regarding the expected timing of certain milestones and key events, such as the commencement and completion of preclinical and IND-enabling studies in our own internally-developed programs or in our product candidate discovery programs with collaborators, as well as the submission and clearance of INDs and the commencement and completion of planned clinical trials in those programs. The actual timing of these events can vary dramatically due to a number of factors such as delays or failures in our or any future collaborators' product candidate discovery and development programs, the amount of time, effort and resources committed by us and any future collaborators, the availability of resources for us and our collaborators to commence and conduct clinical development and manufacturing activities, and the numerous uncertainties inherent in the development of therapies. As a result, there can be no assurance that our or any future collaborators' programs will advance or be completed in the time frames we or they announce or expect. If we or any collaborators fail to achieve one or more of these milestones or other key events as planned, our business could be materially adversely affected, and the price of our common stock could decline.

Clinical trials are expensive, time-consuming and difficult to design and implement.

Human clinical trials are expensive and difficult to design and implement, in part because they are subject to rigorous regulatory requirements. Because our current and potential future product candidates are based on new technologies and discovery approaches, we expect that they will require extensive research and development and have substantial manufacturing and processing costs. In addition, the FDA or other regulatory authorities may require us to perform additional testing before commencing clinical trials and be hesitant to allow us to enroll patients impacted with our targeted disease indications in our future clinical trials. If we are unable to enroll patients impacted by our targeted disease indications in our future clinical trials, we would be delayed in obtaining potential proof-of-concept data in humans, which could extend our development timelines. In addition, costs to treat patients and to treat potential side effects that may result from our product candidates may be significant. Accordingly, our clinical trial costs are likely to be high and could have a material adverse effect on our business, financial condition, results of operations and prospects.

If we encounter difficulties enrolling patients in our clinical trials, our clinical development activities could be delayed or otherwise adversely affected.

We may not be able to initiate or continue any clinical trials for our current or potential future product candidates if we are unable to locate and enroll a sufficient number of eligible patients to participate in these trials as required by the FDA or other regulatory authorities. We cannot predict how difficult it will be to enroll patients for trials in the indications we are studying. We may experience difficulties in patient enrollment in our clinical trials for a variety of reasons. The enrollment of patients depends on many factors, including:

- the severity of the disease under investigation;
- the patient eligibility criteria defined in the clinical trial protocol;
- the size of the patient population required for analysis of the trial's primary endpoints;
- the proximity and availability of clinical trial sites for prospective patients;
- willingness of physicians to refer their patients to our clinical trials;
- our ability to recruit clinical trial investigators with the appropriate competencies and experience;
- clinicians' and patients' perceptions as to the potential risks and benefits of the product candidate being studied in relation to other available therapies, including any new drugs that may be approved for the indications we are investigating;
- our ability to obtain and maintain patient informed consents;
- patient eligibility and exclusion criteria for the trials;
- ability to monitor patients adequately during and after treatment;
- the risk that patients enrolled in clinical trials will drop out of the trials before completion; and
- factors we may not be able to control, such as potential pandemics that may limit the availability of patients, principal investigators or staff or clinical sites to participate in our clinical trials.

In addition, our future clinical trials will compete with other clinical trials for product candidates that are in the same therapeutic areas as our product candidates, and this competition will reduce the number and types of patients available to us, because some patients who might have opted to enroll in our trials may instead opt to enroll in a trial being conducted by one of our competitors. Since the number of qualified clinical investigators is limited, we expect

to conduct some of our clinical trials at the same clinical trial sites that some of our competitors use, which will reduce the number of patients who are available for our clinical trials at such clinical trial sites. Additionally, because some of our clinical trials will be in patients with advanced disease who may experience disease progression or adverse events independent from our product candidates, such patients may be unevaluable for purposes of the trial and, as a result, we may require additional enrollment. Delays in patient enrollment may result in increased costs or may affect the timing or outcome of our ongoing and planned clinical trials, which could prevent completion of these trials and adversely affect our ability to advance the development of our product candidates.

If clinical trials for our product candidates are prolonged, delayed or stopped, we may be unable to seek or obtain regulatory approval and commercialize our product candidates on a timely basis, or at all, which would require us to incur additional costs and delay our receipt of any product revenue.

We may experience delays in our ongoing or future preclinical studies or clinical trials, and we do not know whether future preclinical studies or clinical trials will begin on time, need to be redesigned, enroll an adequate number of patients on time or be completed on schedule, if at all. The commencement or completion of these clinical trials could be substantially delayed or prevented by many factors, including:

- further discussions with the FDA or comparable foreign regulatory authorities regarding the scope or design of our clinical trials, including the endpoint measures required for regulatory approval and our statistical plan;
- the limited number of, and competition for, suitable study sites and investigators to conduct our clinical trials, many of which may already be engaged in other clinical trial programs with similar patients, including some that may be for the same indications as our product candidates;
- any delay or failure to obtain timely approval or agreement to commence a clinical trial in any of the countries where enrollment is planned;
- inability to obtain sufficient funds required for a clinical trial;
- clinical holds on, or other regulatory objections to, a new or ongoing clinical trial;
- delay or failure to manufacture sufficient quantities or inability to produce quantities of consistent quality, purity and potency of the product candidate for our clinical trials;
- inability to obtain sufficient quantities of consistent quality, purity and potency of the products used in our clinical trials prior to administration of our product, such as fludarabine;
- delay or failure to reach agreement on acceptable clinical trial agreement terms or clinical trial protocols with prospective sites or CROs, the terms of which can be subject to extensive negotiation and may vary significantly among different sites or CROs;
- delay or failure to obtain institutional review board (“IRB”) or ethics committee approval to conduct a clinical trial at a prospective site;
- the FDA or other comparable foreign regulatory authorities may require us to submit additional data or impose other requirements before permitting us to initiate a clinical trial;
- slower than expected rates of patient recruitment and enrollment;
- failure of patients to complete the clinical trial;
- the inability to enroll a sufficient number of patients in studies to ensure adequate statistical power to detect statistically significant treatment effects;

- unforeseen safety issues, including severe or unexpected drug-related adverse events experienced by patients, including possible deaths;
- lack of efficacy or failure to measure a statistically significant clinical benefit within the dose range with an acceptable safety margin during clinical trials;
- termination of our clinical trials by one or more clinical trial sites;
- inability or unwillingness of patients or clinical investigators to follow our clinical trial protocols;
- inability to monitor patients adequately during or after treatment by us or our CROs;
- our CROs or clinical trial sites failing to comply with regulatory requirements or meet their contractual obligations to us in a timely manner, or at all, deviating from the protocol or dropping out of a study;
- inability to address any noncompliance with regulatory requirements or safety concerns that arise during the course of a clinical trial;
- the impact of, and delays related to, health epidemics such as the COVID-19 pandemic;
- the need to suspend, repeat or terminate clinical trials as a result of non-compliance with regulatory requirements, inconclusive or negative results or unforeseen complications in testing; and
- the suspension or termination of our clinical trials upon a breach or pursuant to the terms of any agreement with, or for any other reason by, any future strategic collaborator that has responsibility for the clinical development of any of our product candidates.

Changes in regulatory requirements, policies and guidelines may also occur and we may need to significantly modify our clinical development plans to reflect these changes with appropriate regulatory authorities. These changes may require us to renegotiate terms with CROs or resubmit clinical trial protocols to IRBs for re-examination, which may impact the costs, timing or successful completion of a clinical trial. Our clinical trials may be suspended or terminated at any time by us, the FDA, other regulatory authorities, the IRB overseeing the clinical trial at issue, any of our clinical trial sites with respect to that site, or us.

Any failure or significant delay in commencing or completing clinical trials for our product candidates, any failure to obtain positive results from clinical trials, any safety concerns related to our product candidates, or any requirement to conduct additional clinical trials or other testing of our product candidates beyond those that we currently contemplate would adversely affect our ability to obtain regulatory approval and our commercial prospects and ability to generate product revenue will be diminished.

Despite receiving orphan drug designation for SENTI-202 for one indication, if we decide to seek orphan drug designation for one or more of our other product candidates, we may be unsuccessful or may be unable to maintain the benefits associated with orphan drug designation for our current or future product candidates that we may develop.

Under the Orphan Drug Act, the FDA may designate a product candidate as an orphan drug if it is a drug or biologic product intended to treat a rare disease or condition, which is generally defined as a patient population of fewer than 200,000 individuals annually in the United States, or where there is no reasonable expectation that the cost of developing the product will be recovered from sales in the United States. We received notice from the FDA that we received orphan drug designation for SENTI-202, we may also seek orphan drug designation for other indications for SENTI-202 or other product candidates in the future. Orphan drug designation neither shortens the development time or regulatory review time of a drug nor gives the drug any advantage in the regulatory review or approval process. Orphan drug designation can entitle a party to financial incentives such as opportunities for grant funding towards clinical trial costs, tax advantages and user-fee waivers.

In addition, if a product candidate with an orphan drug designation receives the first marketing approval for the indication for which it has such designation, the product is entitled to a period of marketing exclusivity, which precludes the FDA from approving another marketing application for the same drug for the same indication for seven years. The FDA may reduce the seven-year exclusivity if the same drug from a competitor demonstrates clinical superiority to the product with orphan exclusivity or if the FDA finds that the holder of the orphan exclusivity has not shown that it can assure the availability of sufficient quantities of the orphan product to meet the needs of patients with the disease or condition for which the drug was designated. Even if one of our product candidates receives orphan exclusivity, the FDA can still approve other drugs that have a different active ingredient for use in treating the same indication or disease.

In addition, exclusive marketing rights in the United States may be limited if we seek approval for an indication broader than the orphan-designated indication or may be lost if the FDA later determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantities of the product to meet the needs of patients with the rare disease or condition. Further, even if we obtain orphan drug exclusivity for a product, that exclusivity may not effectively protect the product from competition because different drugs with different active moieties can be approved for the same condition, and while we may seek orphan drug designation for our product candidates, we may never receive such designations. In addition, the FDA may reevaluate the Orphan Drug Act and its regulations and policies. We do not know if, when, or how the FDA may change the orphan drug regulations and policies in the future, and it is uncertain how any changes might affect our business. Depending on what changes the FDA may make to its orphan drug regulations and policies, our business could be adversely impacted.

We may not be able to conduct, or contract with others to conduct, animal testing in the future, which could harm our research and development activities.

Certain laws and regulations relating to drug development require us to test our product candidates on animals before initiating clinical trials involving humans. Animal testing activities have been the subject of controversy and adverse publicity. Animal rights groups and other organizations and individuals have attempted to stop animal testing activities by pressing for legislation and regulation in these areas and by disrupting these activities through protests and other means. To the extent the activities of these groups are successful, our research and development activities may be interrupted or delayed.

Risks Related to Our Reliance on Third Parties

There can be no assurance that we will achieve all of the anticipated benefits of the transactions with GeneFab and we could face unanticipated challenges.

We may not realize some or all of the anticipated benefits from the transactions with GeneFab and we may encounter post-closing risks. On March 17, 2026 we entered into a First Amendment to Lease, a First Amendment to Sublease, a First Amendment to Landlord's Consent to Sublease and a Letter Agreement all related to the Alameda Facility, pursuant to which GeneFab paid cash for certain outstanding, overdue rent amounts and agreed to provide prepaid manufacturing credits to Senti for the remaining outstanding, overdue rent payments. If GeneFab fails to pay ongoing rent for the Alameda Facility, we could be required to evict GeneFab from the Alameda Facility and GeneFab would be unable to perform its obligations under the Development and Manufacturing Services Agreement ("DMSA"). This could materially impact our ability to develop and commercialize any of our product candidates and may adversely impact our business, prospects, financial condition, results of operations and clinical operations. In addition, this non-payment or any other disagreements with GeneFab over its obligations to us could require or result in litigation or arbitration, which would be time-consuming and expensive and could also have a material adverse effect on our ability to develop and commercialize any of our product candidates and may adversely impact our business, prospects, financial condition, and results of operations.

Further, we may experience loss of institutional knowledge due to the transfer of a significant number of our employees to GeneFab, which could harm our business. Moreover, the transition to a new company may require significant time and resources from the employees of GeneFab, which may disrupt GeneFab's business and distract

its management from other responsibilities, which may then result in GeneFab's failure to achieve anticipated manufacturing production, which could adversely affect our timelines for clinical trials of our product candidates to the extent they are manufactured by GeneFab and our financial and operating results.

We currently rely and intend to continue to rely on third parties to conduct our clinical trials and preclinical studies, and those third parties may not perform satisfactorily.

We currently rely and expect to continue to rely on third-party clinical investigators, CROs, testing laboratories, clinical data management organizations and consultants to design, conduct, supervise and monitor our ongoing and planned clinical trials and preclinical studies. Because we intend to rely on these third parties and will not have the ability to conduct certain preclinical studies or clinical trials independently, we will have less control over the timing, quality and other aspects of such preclinical studies and clinical trials than we would have had we conducted them on our own. These investigators, CROs, testing laboratories, and consultants will not be our employees and we will have limited control over the amount of time and resources that they dedicate to our programs. Some of these third parties may terminate their engagements with us at any time. We also expect to have to negotiate budgets and contracts with CROs, clinical trial sites and contract manufacturing organizations and we may not be able to do so on favorable terms, which may result in delays to our development timelines and increased costs. If we need to enter into alternative arrangements with, or replace or add any third parties, it would involve substantial cost and require extensive management time and focus, or involve a transition period, and may delay our drug development activities, as well as materially impact our ability to meet our desired clinical development timelines. These third parties may have contractual relationships with other entities, some of which may be our competitors, which may draw time and resources from our programs. The third parties with which we may contract might not be diligent, careful or timely in conducting our preclinical studies or clinical trials, resulting in the preclinical studies or clinical trials being delayed or unsuccessful.

Despite our reliance on third parties, we will ultimately be responsible for ensuring that each of our studies and trials is conducted in accordance with applicable protocol, legal and regulatory requirements and scientific standards, including good laboratory practice, or GLP, good clinical practice, or GCP, current good manufacturing practice, or cGMP, and current good tissue practice, or cGTP. For example, we will remain responsible for ensuring that each of our clinical trials is conducted in accordance with the general investigational plan and protocols for the trial. Moreover, the FDA and other regulatory authorities require us to comply with GCP standards, regulations for conducting, recording and reporting the results of clinical trials to assure that data and reported results are reliable and accurate and that the rights, integrity and confidentiality of trial participants are protected. Regulatory authorities enforce these GCP requirements through periodic inspections of trial sponsors, principal investigators and trial sites. If we or any of our CROs, clinical sites and investigators fail to comply with applicable GCP requirements, the clinical data generated in our clinical trials may be deemed unreliable and the FDA, European Medicines Agency, or EMA, or other regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. There can be no assurance that upon inspection by a given regulatory authority, such regulatory authority will determine that any of our clinical trials substantially comply with GCP regulations. In addition, our clinical trials must be conducted with product candidates produced under cGMP regulations and will require a large number of test patients. Our failure or any failure by these third parties to comply with these regulations or to recruit a sufficient number of patients, may require us to repeat clinical trials, which would delay the regulatory approval process. Moreover, our business may be implicated if any of these third parties violates FDA regulatory requirements as well as federal or state healthcare laws and regulations or healthcare privacy and security laws.

If third parties do not successfully carry out their contractual duties, meet expected deadlines or conduct our clinical trials in accordance with regulatory requirements or our stated protocols, or if these third parties need to be replaced, we will not be able to obtain, or may be delayed in obtaining, marketing approvals for our product candidates and will not be able to, or may be delayed in our efforts to, successfully commercialize our product candidates. As a result, our financial results and the commercial prospects for our product candidates would be harmed, our costs could increase and our ability to generate revenue could be delayed.

In the past, we have depended on strategic partnerships and collaboration arrangements, such as our collaboration arrangements with BlueRock Therapeutics, Inc., or BlueRock, and Celest Therapeutics, for the application of our gene circuit platform technology to the development and commercialization of potential product candidates in certain indications, and if these arrangements are unsuccessful, this could impair our ability to generate revenues and harm our results of operations.

Our business strategy for exploiting the potential of our gene circuit platform technology has been dependent in part upon maintaining our current arrangements and establishing new arrangements with strategic partners, research collaborators and other third parties. We currently have collaboration agreements with BlueRock and Celest. These collaboration agreements provide for, as the case may be, among other things, research funding and significant future payments to us from our collaborators should certain development, regulatory and commercial milestones be achieved. Under these arrangements, our collaborators are typically responsible for, in the applicable territories and fields:

- electing to advance product candidates through preclinical and/or into clinical development;
- conducting clinical development and obtaining required regulatory approvals for product candidates; and
- commercializing any resulting products.

As a result, we may not be able to conduct these collaborations in the manner or on the time schedule we currently contemplate, which may negatively impact our business operations. For example, Celest has determined that it will not move forward with its clinical trial of SN301A, a product that incorporates some of our technology. In addition, Spark did not exercise its option to continue pursuing the products under collaboration with them. If other collaborations result in similar outcomes, our ability to generate revenue could be harmed.

In addition, the development and commercialization of other potential product candidates under our collaboration agreements could be substantially delayed, and our ability to receive future funding could be substantially impaired if one or more of our collaborators:

- shifts its priorities and resources away from our collaborations due to a change in business strategies, or a merger, acquisition, sale or downsizing of its company or business unit;
- ceases development in therapeutic areas which are the subject of our collaboration;
- fails to select a product candidate for advancement into preclinical development, clinical development, or subsequent clinical development into a marketed product;
- changes the success criteria for a particular product candidate, thereby delaying or ceasing development of such product candidate;
- significantly delays the initiation or conduct of certain activities which could delay our receipt of milestone payments tied to such activities, thereby impacting our ability to fund our own activities;
- develops a product candidate that competes, either directly or indirectly, with our product candidates;
- does not obtain the requisite regulatory approval of a product candidate;
- does not successfully commercialize a product candidate;
- encounters regulatory, resource or quality issues and is unable to meet demand requirements;
- exercises its rights under the agreement to terminate the collaboration, or otherwise withdraws support for, or otherwise impairs development under the collaboration

- disagrees on the research, development or commercialization of a product candidate resulting in a delay in milestones, royalty payments or termination of research and development activities for such product candidate; and
- uses our proprietary information or intellectual property in such a way as to jeopardize our rights in such property.

In addition, the termination of our existing collaborations or any future strategic partnership or collaboration arrangement that we enter into may prevent us from receiving any milestone, royalty payment, sharing of profits, and other benefits under such agreement. Furthermore, disagreements with these parties could require or result in litigation or arbitration, which would be time-consuming and expensive. Any of these events could have a material adverse effect on our ability to develop and commercialize any of our product candidates and may adversely impact our business, prospects, financial condition, and results of operations. Furthermore, pursuant to certain of our agreements, we are required to engage specified service providers in connection with certain activities under our collaboration agreements unless the parties determine that another party is unable to provide such services. If we license or otherwise grant rights to certain products developed by us to a third-party, we may need to impose this obligation on a third-party acquirer or strategic partner.

We may not be able to enter into additional strategic transactions on acceptable terms, if at all, which could adversely affect our ability to develop and commercialize current and potential future product candidates and technologies, impact our cash position, increase our expenses and present significant distractions to our management.

From time to time, we consider strategic transactions, such as collaborations, regional partnerships for the co-development and/or co-commercialization of our product candidates in selected territories, acquisitions of companies, asset purchases, joint ventures, out- or in-licensing of product candidates or technologies and partnerships involving our gene circuit platform technology. For example, we will evaluate and, if strategically attractive, seek to enter into collaborations, including with biotechnology or biopharmaceutical companies, contract development manufacturing organizations or hospitals. On November 6, 2023, we announced that we had entered into a strategic collaboration with Celest Therapeutics for the clinical development of the SENTI-301A gene circuit in the SN301A product manufactured by Celest to treat solid tumors in China. The competition for collaborators is intense, and the negotiation process is time-consuming and complex. If we are not able to enter into strategic transactions, or if we fail to realize a benefit from the collaboration with Celest or from a transaction with a different organization, we may not have access to required liquidity or expertise to further develop our potential future product candidates or our gene circuit platform. Any such collaboration, or other strategic transaction, may require us to incur non-recurring or other charges, increase our near- and long-term expenditures and pose significant integration or implementation challenges or disrupt our management or business.

We also may acquire additional technologies and assets, form strategic alliances or create joint ventures with third parties that we believe will complement or augment our existing business, but we may not be able to realize the benefit of acquiring such assets. Conversely, any new collaboration that we do enter into may be on terms that are not optimal for us, our product candidates or our technologies. These transactions would entail numerous operational and financial risks, including:

- exposure to unknown liabilities;
- disruption of our business and diversion of our management's time and attention in order to negotiate and manage a collaboration or develop acquired products, product candidates or technologies;
- incurrence of substantial debt or dilutive issuances of equity securities to pay transaction consideration or costs;
- higher-than-expected collaboration, acquisition or integration costs, write-downs of assets or goodwill or impairment charges, increased amortization expenses;

- difficulty and cost in facilitating the collaboration or combining the operations and personnel of any acquired business;
- impairment of relationships with key suppliers, manufacturers or customers of any acquired business due to changes in management and ownership; and
- the inability to retain key employees of any acquired business.

Accordingly, although there can be no assurance that we will undertake or successfully complete any transactions of the nature described above, any transactions that we do complete may be subject to the foregoing or other risks and our business could be materially harmed by such transactions. Conversely, any failure to enter into any collaboration or other strategic transaction that would be beneficial to us could delay the development and potential commercialization of our product candidates and technologies and have a negative impact on the competitiveness of any product candidate or technology that reaches market.

In addition, to the extent that any future collaborators terminate a collaboration agreement, we may be forced to independently develop our current and future product candidates and technologies, including funding preclinical studies or clinical trials, assuming marketing and distribution costs and maintaining, enforcing and defending intellectual property rights, or, in certain instances, abandon product candidates and technologies altogether, any of which could result in a change to our business plan and have a material adverse effect on our business, financial condition, results of operations and prospects.

We and the third parties with whom we work are subject to stringent and evolving U.S. and foreign laws, regulations, and rules, contractual obligations, industry standards, policies and other obligations related to data privacy and security. Our (or the third parties with whom we work) actual or perceived failure to comply with such obligations could lead to regulatory investigations or actions, litigation (including class claims) and mass arbitration demands, fines and penalties, disruptions of our business operations, reputational harm, loss of revenue or profits, and other adverse business consequences.

In the ordinary course of business, we collect, receive, store, process, generate, use, transfer, disclose, make accessible, protect, secure, dispose of, transmit, and share (collectively, “Process”) personal data and other sensitive information, including proprietary and confidential business data, trade secrets, intellectual property, data we collect about trial participants in connection with clinical trials, and sensitive third-party data. Our data processing activities subject us to numerous data privacy and security obligations, such as various laws, regulations, guidance, industry standards, external and internal privacy and security policies, contractual requirements and other obligations relating to data privacy and security, including in connection with clinical trials in the United States and abroad.

In the United States, federal state, and local governments have enacted numerous data privacy and security laws, including data breach notification laws, health information privacy laws, personal data privacy laws, consumer protection laws (e.g., Section 5 of the Federal Trade Commission Act), and other similar laws (e.g., wiretapping laws). For example, HIPAA imposes specific requirements relating to the privacy, security, and transmission of individually identifiable protected health information. In addition, we may obtain health information from third parties (including research institutions from which we obtain clinical trial data) which may be subject to privacy and security requirements under HIPAA. Depending on the facts and circumstances, we could be subject to significant penalties if we violate HIPAA.

Numerous U.S. states have enacted comprehensive privacy laws that impose certain obligations on covered businesses, including providing specific disclosures in privacy notices and affording residents with certain rights concerning their personal data. As applicable, such rights may include the right to access, correct, or delete certain personal data, and to opt-out of certain data processing activities, such as targeted advertising, profiling, and automated decision-making. The exercise of these rights may impact our business and ability to provide our products and services. Certain states also impose stricter requirements for processing certain personal data, including sensitive information, such as conducting data privacy impact assessments. These state laws allow for statutory fines for noncompliance. For example, the California Consumer Privacy Act of 2018 (“CCPA”) applies to personal data

of consumers, business representatives, and employees who are California residents, and requires businesses to whom the CCPA applies to provide specific disclosures in privacy notices and honor requests of such individuals to exercise certain privacy rights. The CCPA provides for fines and allows private litigants affected by certain data breaches to recover significant statutory damages. The CCPA and other comprehensive U.S. state consumer privacy laws exempt some data processed in the context of clinical trials, but these developments further complicate compliance efforts, and increase legal risk and compliance costs for us, the third parties with whom we work (including our collaborators). Similar laws have passed and are being considered in several other states, as well as at the federal and local levels, and we expect more states to pass similar laws in the future. Regulators are also increasingly scrutinizing certain personal data transfers and have proposed and enacted certain data localization or transfer requirements. For example, the U.S. Department of Justice issued a rule entitled the Preventing Access to U.S. Sensitive Personal Data and Government-Related Data by Countries of Concern or Covered Persons, which places additional restriction on certain data transactions involving countries of concern (e.g., China, Russia, Iran) and covered persons (i.e., individuals and entities who are designated as such by the U.S. Attorney General or considered “foreign persons” and are majority owned by, organized under the laws of, a primary resident in, or a contractor of, a covered person or country of concern, as applicable) that impacts certain business activities such as vendor engagements, sale or sharing of data, employment of certain individuals, and investor agreements. Violations of the rule could lead to significant civil and criminal fines and penalties. The rule applies regardless of whether data is anonymized, key-coded, pseudonymized, de-identified or encrypted, which presents particular challenges for companies like ours that operate in the clinical trial space and impacts our ability to engage in transactions or agreements with certain third parties.

Outside the United States, an increasing number of laws, regulations, and industry standards govern data privacy and security. For example, the European Union’s General Data Protection Regulation (“EU GDPR”), the United Kingdom’s GDPR (“UK GDPR”) (collectively, “GDPR”), Brazil’s General Data Protection Law (Lei Geral de Proteção de Dados Pessoais, or “LGPD”) (Law No. 13,709/2018), Australia’s Privacy Act, and China’s Personal Information Protection Law (“PIPL”) impose strict requirements for processing personal data. For example, under the GDPR, in the event of non-compliance, companies face temporary or definitive bans on data processing and other corrective actions; fines of up to 20 million Euros under the EU GDPR, 17.5 million pounds sterling under the UK GDPR or, in each case, 4% of annual global revenue, whichever is greater; and private litigation related to processing of personal data brought by classes of data subjects and consumer protection organizations authorized at law to represent their interests.

In Canada, the Personal Information Protection and Electronic Documents Act (“PIPEDA”) and various related provincial laws, as well as Canada’s Anti-Spam Legislation (“CASL”), apply to our operations. Australia’s Privacy Act also applies to our operations. We also conduct studies in Asia and are or may become subject to new and emerging data privacy regimes in Asia, including China’s PIPL and Korea’s Personal Information Protection Act (“PIPA”). For example, China’s PIPL imposes a set of specific obligations on covered businesses in connection with their processing and transfer of personal data and imposes fines of up to RMB 50 million or 5% of the prior year’s total annual revenue of the violator. India’s new privacy legislation, the Digital Personal Data Protection Act (“DPDP”), may also apply to our operations.

In the ordinary course of business, we transfer personal data from Europe and other jurisdictions to the United States and other countries. Europe and other jurisdictions have enacted laws requiring data to be localized or limiting the transfer of personal data to other countries. In particular, the European Economic Area (“EEA”) and the UK have significantly restricted the transfer of personal data to the United States and other countries whose privacy laws it generally believes are inadequate. Other jurisdictions may adopt or have already adopted similarly stringent data localization and cross-border data transfer laws.

Although there are currently various mechanisms that may be used to transfer personal data from the EEA and UK to the United States in compliance with law, such as the EEA standard contractual clauses, the UK’s International Data Transfer Agreement / Addendum, and the EU-U.S. Data Privacy Framework and the UK extension thereto (which allows for transfers to relevant U.S.-based organizations who self-certify compliance and participate in the Framework), these mechanisms are subject to legal challenges, and there is no assurance that we can satisfy or rely on these measures to lawfully transfer personal data to the United States.

If there is no lawful manner for us to transfer personal data from the EEA, the UK or other jurisdictions to the United States or other jurisdictions, or if the requirements for a legally-compliant transfer are too onerous, we could face significant adverse consequences, including the interruption or degradation of our operations, the need to relocate part of or all of our business or data processing activities to other jurisdictions (such as Europe) at significant expense, increased exposure to regulatory actions, substantial fines and penalties, the inability to transfer data and work with partners, vendors and other third parties, and injunctions against our processing or transferring of personal data necessary to operate our business. Additionally, companies that transfer personal data out of the EEA and UK to other jurisdictions, particularly to the United States, are subject to increased scrutiny from regulators, individual litigants, and activist groups. Some European regulators have ordered certain companies to suspend or permanently cease certain transfers out of Europe for allegedly violating the GDPR's cross-border data transfer limitations.

In addition to data privacy and security laws, we are and may become contractually subject to industry standards adopted by industry groups. We are also bound by contractual obligations related to data privacy and security, and our efforts to comply with such obligations may not be successful. Moreover, clinical trial subjects about whom we or the third parties with whom we work obtain information may contractually limit our ability to use and disclose such information.

Our personnel occasionally use generative artificial intelligence ("AI") technologies to perform their work, and the disclosure and use of personal data in AI technologies is subject to various privacy laws and other privacy obligations. Governments have passed and are likely to pass additional laws and regulations regulating AI technologies. Our use of this technology could result in additional compliance costs, regulatory investigations and actions, and lawsuits. If we are unable to use AI and/or automated decision-making technologies, it could make our business less efficient and result in competitive disadvantages.

We may at times fail (or be perceived to have failed) in our efforts to comply with our data privacy and security obligations. Moreover, despite our efforts, our personnel or third parties with whom we work may fail to comply with such obligations, which could negatively impact our business operations. If we, or the third parties with whom we work (including our collaborators and third-party providers) fail, or are perceived to have failed, to address or comply with applicable data privacy and security obligations, we could face significant consequences, including but not limited to: government enforcement actions (e.g., investigations, fines, penalties, audits, inspections, and similar); litigation (including class-action claims) and mass arbitration demands; additional reporting requirements and/or oversight; bans or restrictions on processing personal data; orders to destroy or not use personal data; and imprisonment of company officials.

Risks Related to Manufacturing

Manufacturing our current or future product candidates is complex and the third parties upon whom we rely to provide manufacturing services may encounter difficulties in production. If we encounter such difficulties, our ability to provide supply of our current or future product candidates for preclinical studies and clinical trials or, if approved, for commercial sale, for commercial purposes could be delayed or halted entirely.

The process of manufacturing our current or future product candidates is complex, difficult, variable, and highly regulated, and it requires significant expertise, including the development of advanced manufacturing techniques and process controls. The process of manufacturing our product candidates is also extremely susceptible to product loss due to contamination, equipment failure or improper installation or operation of equipment, operator error, contamination and inconsistency in yields, variability in product characteristics and difficulties in scaling the production process. Even minor deviations from normal manufacturing processes could result in reduced production yields, product defects and other supply disruptions. If microbial, viral or other contaminants are discovered in our product candidates or the manufacturing facilities in which they are made, the facilities may need to be closed for an extended period of time to investigate and remedy the contamination. As a result of the complexities, the cost to manufacture biologics in general, and our cell-based product candidates in particular, is generally higher than traditional small molecule chemical compounds, and the manufacturing process is less reliable and is more difficult to reproduce.

We do not have our own manufacturing facilities or personnel and currently rely, and expect to continue to rely on CMOs, and in particular GeneFab, for the manufacture of our current or future product candidates. Under our DMSA with GeneFab, we are obligated to engage GeneFab for certain manufacturing services subject to GeneFab's meeting of certain criteria. Currently, we do not have relationships with CMOs beyond GeneFab for the majority of our product manufacturing needs and even if we were to establish those relationships, other CMOs may not be able to provide adequate resources or capacity to meet our needs. If GeneFab or any other CMO with whom we contract fails to perform its obligations, we may be forced to enter into an agreement with a different CMO, which we may not be able to do in a timely manner or on reasonable terms, if at all. In addition, if we are required to evict GeneFab from its current space for non-payment under the GeneFab subleases, our clinical trial timelines could be adversely affected due to disruptions in manufacturing supply, and transitioning to an alternative contract manufacturing organization may result in delays and increased costs. In some cases, the technical skills required to manufacture our product candidates or products, if approved, may be unique or proprietary to the original CMO and we may have difficulty, or there may be contractual restrictions prohibiting us from, transferring such skills to a back-up or alternate supplier, or we may be unable to transfer such skills at all. In addition, if we are required to change CMOs for any reason, we will be required to verify that the new CMO maintains facilities and procedures that comply with quality standards, our product specifications and all applicable regulations.

Any adverse developments affecting manufacturing operations for our product candidates, if any are approved, may result in shipment delays, inventory shortages, lot failures, product withdrawals or recalls, or other interruptions in the supply of our products. We may also have to take inventory write-offs and incur other charges and expenses for products that fail to meet specifications, undertake costly remediation efforts or seek more costly manufacturing alternatives. Furthermore, it is too early to estimate our cost of goods sold. The actual cost to manufacture our product candidates could be greater than we expect because we are early in our development efforts.

Supply of our product candidates for preclinical and clinical development may become limited or interrupted or may not be of satisfactory quantity or quality, and we may experience delays if GeneFab is unable to consistently and reliably manufacture any current and future products and we are required to rely on third-party back-up manufacturers.

Initial manufacturing efforts under our agreements with GeneFab have and will focus on our lead program, SENTI-202. GeneFab has never operated a cGMP facility before. GeneFab may not have the ability or resources to consistently and reliably manufacture SENTI-202 in sufficient quality and quantity to support our ongoing and planned clinical trials, which could negatively impact our overall development timelines. On March 17, 2026 we entered into a First Amendment to Lease, a First Amendment to Sublease, a First Amendment to Landlord's Consent to Sublease and a Letter Agreement all related to the Alameda Facility, pursuant to which GeneFab paid cash for certain outstanding, overdue rent amounts and agreed to provide prepaid manufacturing credits to Senti for the remaining outstanding, overdue rent payments. If GeneFab fails to pay ongoing rent for the Alameda Facility, we could be required to evict GeneFab from the Alameda Facility and GeneFab would be unable to perform its obligations under the Development and Manufacturing Services Agreement. In addition, quality, reproducibility, stability, and consistency issues may arise during manufacturing activities and may result in lower yields than initially expected. We do not currently have arrangements in place for a redundant or second-source supply in the event the facility we sublease to GeneFab is not operational or GeneFab is otherwise unable to meet our supply requirements for our preclinical studies and planned clinical trials. Any delays in manufacturing our product candidates could impede, delay, limit or prevent our drug development efforts, which could harm our business, results of operations, financial condition and prospects.

We do not currently produce our product candidates in quantities sufficient for preclinical and clinical development. We cannot be sure that the manufacturing processes employed by GeneFab or the technologies incorporated for manufacturing will result in viable or scalable yields of our product candidates that will be safe, effective, and meet market demand. GeneFab and any other third-party manufacturers we may contract with must meet applicable manufacturing requirements and undergo rigorous facility and process validation tests required by regulatory authorities in order to comply with regulatory standards, such as cGMP and cGTP. We have no control over the ability of GeneFab or other third-party manufacturers we may contract with to maintain adequate control, quality assurance and qualified personnel required to meet our preclinical and clinical needs, if any. In the event that

we or any third-party manufacturer fails to comply with such requirements or to perform obligations in relation to quality, timing or otherwise, or if our supply of components or other materials becomes limited or interrupted for other reasons, we may be forced to or enter into an agreement with another third-party, which we may not be able to do on reasonable terms, or at all. In some cases, the technical skills or technology required to manufacture our current and future product candidates may be difficult or impossible to transfer to a third-party and a feasible alternative may not exist. If we are required to change manufacturing facilities or manufacturers for any reason, we will be required to verify that the new facilities and procedures comply with quality standards and with all applicable regulations and guidelines. We may also need to verify, such as through a manufacturing comparability study, that any new manufacturing process will produce our product candidate according to the specifications previously submitted to the FDA or another regulatory authority. The delays associated with the verification of a new manufacturing facility could negatively affect our ability to develop product candidates in a timely manner or within budget.

Furthermore, we rely on third parties to manufacture our product candidates and critical raw materials. These third parties may have limited experience working with companies similar to us, may not perform satisfactorily, and may not be able to meet the preclinical and clinical development timeline, resulting in delays. Our reliance on third-party manufacturers exposes us to potential risks, such as the following:

- we may be unable to contract with or maintain existing relationships with third-party manufacturers on acceptable terms, or at all, because the number of potential manufacturers is limited. Potential manufacturers of any product candidate that is approved will be subject to FDA compliance inspections and any new manufacturer would have to be qualified to produce our products;
- our third-party manufacturers might be unable to formulate and manufacture our product candidates and products in the volume and of the quality required to meet our clinical and commercial needs, if any; and
- our third-party manufacturers may not perform as agreed or may not remain in the contract manufacturing business for the time required to supply our clinical trials through completion or to successfully produce, store and distribute our commercial products, if approved.

Each of these risks could delay or have other adverse impacts on our clinical trials and the approval and commercialization of our product candidates, potentially resulting in higher costs, reduced revenues or both.

In addition, changes in manufacturers often involve changes in manufacturing procedures and processes, and to regulatory applications, which could require that we conduct bridging studies between our prior clinical supply used in our clinical trials and that of any new manufacturer, and therefore delay timelines. We may be unsuccessful in demonstrating the comparability of clinical supplies which could require the conduct of additional clinical trials.

If we receive regulatory approval for any product candidate and we are unable, for any reason, to have sufficient quantities of the product produced, or if we are unable to obtain or maintain third-party manufacturing arrangements on commercially reasonable terms, we may not be able to commercialize the product candidate successfully. Failure to execute on our manufacturing requirements and comply with cGMP and cGTP could adversely affect our business in a number of ways, including:

- an inability to initiate or continue clinical trials of product candidates under development;
- delay in submitting regulatory applications, or receiving regulatory approvals, for product candidates;
- loss of the cooperation of potential future collaborators;
- subjecting third-party manufacturing facilities to additional inspections by regulatory authorities;
- requirements to cease distribution or to recall batches of product candidates; and

- in the event of approval to market and commercialize a product candidate, an inability to meet commercial demands for our products.

GeneFab or any other third-party manufacturers that we use may be unable to successfully scale the manufacturing of our current or potential future product candidates in sufficient quality and quantity, which would delay or prevent us from developing our current and potential future product candidates and commercializing approved products candidates, if any. GeneFab has never operated a cGMP facility before.

In order to conduct clinical trials for our current and potential future product candidates or to commercialize any approved product candidates, we will need to manufacture large quantities of these product candidates. We currently rely exclusively on GeneFab to produce required quantities of SENTI-202. We, GeneFab, or any future manufacturing partners, may be unable to successfully scale-up the manufacturing process or to otherwise increase capacity for any current or potential future product candidate in a timely or cost-effective manner, or at all. Work performed by GeneFab for us represents the large majority of work GeneFab currently performs at its facilities, which are subleased by us to GeneFab. If GeneFab is unable to continue performing work for us or pay us under its sublease, as amended, for our Alameda Facility or if we are required to evict GeneFab from our Alameda facility for nonpayment of rent, we could be substantially harmed. On March 17, 2026 we entered into a First Amendment to Lease, a First Amendment to Sublease, a First Amendment to Landlord's Consent to Sublease and a Letter Agreement all related to the Alameda Facility, pursuant to which GeneFab paid cash for certain outstanding, overdue rent amounts and agreed to provide prepaid manufacturing credits to Senti for the remaining outstanding, overdue rent payments. As of the date of this report, GeneFab has not fully satisfied its obligations under certain other agreements with us. If GeneFab fails to pay the amounts owing under such other agreements or fails to pay ongoing rent for the Alameda Facility, we could be required to evict GeneFab from the Alameda Facility and GeneFab would be unable to perform its obligations under the Development and Manufacturing Services Agreement. If GeneFab fails to make future payments under its sublease obligations or is unable to perform its obligations under its agreements with us, we will be substantially harmed. In addition, quality, reproducibility, stability, consistency issues may arise during scale-up activities and may result in lower yields than initially expected. While we believe GeneFab will be able to sufficiently scale to produce quantities of SENTI-202 and future product candidates required to advance our preclinical studies and clinical trials, any significant revisions to the manufacturing process may create delays, which could negatively impact our overall development timelines.

We are exposed to a number of risks related to our supply chain for the materials required to manufacture our product candidates.

Manufacturing our product candidates is highly complex and requires sourcing specialty materials. Many of the risks associated with the complexity of manufacturing our final products are applicable to the manufacture and supply of the raw materials. In particular, these starting materials are subject to inconsistency in yields, variability in characteristics, contamination, difficulties in scaling the production process and defects. Similar minor deviations in the manufacturing process for these starting materials could result in supply disruption and reduced production yields for our final product. In addition, we rely on third parties for the supply of these materials exposing us to similar risks of reliance on third parties as described above with respect to the manufacturing and supply of our drug products.

Our manufacturing processes requires many reagents, some of which are drug substance intermediates used in our manufacturing processes to bring about chemical or biological reactions, and other specialty materials and equipment, some of which are manufactured or supplied by small companies with limited resources and experience to support commercial production. We currently depend on a limited number of vendors for certain materials and equipment used in the manufacture of our product candidates. Some of these suppliers may not have the capacity to support commercial products manufactured under cGMP by biopharmaceutical firms or may otherwise be ill-equipped to support our needs. Reagents and other key materials from these suppliers may have inconsistent attributes and introduce variability into our manufactured product candidates, which may contribute to variable patient outcomes and possible adverse events. We also do not have supply contracts with many of these suppliers and may not be able to obtain supply contracts with them on acceptable terms or at all. Accordingly, we may experience delays in receiving key materials and equipment to support clinical or commercial manufacturing.

For some of these reagents, equipment, and materials, we rely and may in the future rely on sole source vendors or a limited number of vendors. An inability to continue to source product from any of these suppliers, which could be due to regulatory actions or requirements affecting the supplier, adverse financial or other strategic developments experienced by a supplier, labor disputes or shortages, unexpected demands, or quality issues, could adversely affect our ability to satisfy demand for our product candidates, which could adversely and materially affect our product sales and operating results or our ability to conduct clinical trials, either of which could significantly harm our business. Regional or single-source dependencies may in some cases accentuate these risks. For example, the pharmaceutical industry generally, and in some instances we or our collaborators such as Celest or other third parties on which we rely, depend on China-based suppliers or service providers for certain materials, products and services, or other activities. Our ability or the ability of our collaborators or such other third parties to continue to engage these China-based suppliers or service providers for certain preclinical research programs and clinical development programs could be restricted due to geopolitical developments between the United States and China, including as a result of the escalation of tariffs or other trade restrictions or if the previously proposed federal legislation known as the BIOSECURE Act or similar law were to be enacted.

As GeneFab continues to develop and scale the manufacturing process for our product candidates, we expect that there will be a need to obtain rights to and supplies of certain materials and equipment to be used as part of that process. These rights may not be able to be obtained with respect to such materials on commercially reasonable terms, or at all, and if we are unable to alter our process in a commercially viable manner to avoid the use of such materials or find a suitable substitute, it would have a material adverse effect on our business. Even if we are able to alter our process so as to use other materials or equipment, such a change may lead to a delay in our clinical development and/or commercialization plans. If such a change occurs for a product candidate that is already in clinical testing, the change may require us to perform comparability studies and to collect additional data from patients prior to undertaking more advanced clinical trials.

Changes in methods of product candidate manufacturing or formulation may result in the need to perform new clinical trials, which would require additional costs and cause delay.

As product candidates are developed through preclinical to late-stage clinical trials towards approval and commercialization, it is common that various aspects of the development program, such as manufacturing methods and formulation, are altered along the way in an effort to optimize yield and manufacturing batch size, minimize costs and achieve consistent quality and results. Such changes carry the risk that they will not achieve these intended objectives. Any of these changes could cause our product candidates to perform differently and affect the results of ongoing, planned or future clinical trials conducted with the altered materials. We may also need to verify, such as through a manufacturing comparability study, that any changes to the manufacturing process will produce our product candidate according to the specifications previously submitted to the FDA or another regulatory authority. This could delay completion of clinical trials, require the conduct of bridging clinical trials or the repetition of one or more clinical trials, increase clinical trial costs, delay approval of our product candidates and jeopardize our ability to commence product sales and generate revenue.

Risks Related to Our Business and Operations

If the market opportunities for our current and potential future product candidates, including SENTI-202, are smaller than we believe they are, our future product revenues may be adversely affected, and our business may suffer.

Our understanding of the number of people who suffer from diseases that our current product candidates may be able to treat are based on estimates. These estimates may prove to be incorrect, and new studies may reduce the estimated incidence or prevalence of these diseases. The number of patients in the United States or elsewhere may turn out to be lower than expected, may not be otherwise amenable to treatment with our current or potential future product candidates or patients may become increasingly difficult to identify and access, all of which would adversely affect our business prospects and financial condition. In particular, the treatable population for our candidates may further be reduced if our estimates of addressable populations are erroneous or sub-populations of patients do not derive benefit from our product candidates.

Further, there are several factors that could contribute to making the actual number of patients who receive our current or potential future product candidates less than the potentially addressable market. These include the lack of widespread availability of, and limited reimbursement for, new therapies in many underdeveloped markets.

We face competition from companies that have developed or may develop product candidates for the treatment of the diseases that we may target, including companies developing novel therapies and platform technologies. If these companies develop platform technologies or product candidates more rapidly than we do, or if their platform technologies or product candidates are more effective, have fewer side effects, or less expensive our ability to develop and successfully commercialize product candidates may be adversely affected.

The development and commercialization of cell and gene therapies is highly competitive. We compete with a variety of large pharmaceutical companies, multinational biopharmaceutical companies, other biopharmaceutical companies and specialized biotechnology companies, as well as technology and/or therapeutics being developed at universities and other research institutions. Our competitors are often larger and better funded than we are. Our competitors have developed, are developing or will develop product candidates and processes competitive with ours. Competitive therapeutic treatments include those that have already been approved and accepted by the medical community and any new treatments that are currently in development or that enter the market. We believe that a significant number of product candidates are currently under development, and may become commercially available in the future, for the treatment of conditions for which we may try to develop product candidates. There is intense and rapidly evolving competition in the biotechnology and biopharmaceutical fields. We believe that while our gene circuit platform, its associated intellectual property portfolio, the characteristics of our current and potential future product candidates and our scientific and technical know-how together give us a competitive advantage in this space, competition from many sources remains.

Many of our competitors have significantly greater financial, technical, manufacturing, marketing, sales and supply resources or experience than we do. If we successfully obtain approval for any product candidate, we will face competition based on many different factors, including the safety and effectiveness of our product candidates, the ease with which our product candidates can be administered, the timing and scope of regulatory approvals for these product candidates, the availability and cost of manufacturing, marketing and sales capabilities, price, reimbursement coverage and patent position. Competing products and product candidates could present superior treatment alternatives, including by being more effective, safer, less expensive or marketed and sold more effectively than any products we may develop. Competitive products and product candidates may make any product we develop obsolete or noncompetitive before we recover the expense of developing and commercializing such product. Such competitors could also recruit our employees, which could negatively impact our level of expertise and our ability to execute our business plan.

Any inability to attract and retain qualified key management, technical personnel and employees would impair our ability to implement our business plan.

Our success largely depends on the continued service of key executive management, advisors and other specialized personnel, including Timothy Lu, our Chief Executive Officer and Kanya Rajangam, our President, Head of Research and Development and Chief Medical Officer. Our senior management may terminate their employment with us at any time. We do not maintain “key person” insurance for any of our employees. The loss of one or more members of our executive team, management team or other key employees or advisors could delay our research and development programs and have a material adverse effect on our business, financial condition, results of operations and prospects.

As previously disclosed by us in our Current Reports on Form 8-K filed with the SEC on April 26, 2024 and May 2, 2024, Deborah Knobelmann, Ph.D., our former Chief Financial Officer, Treasurer and Head of Corporate Development and our principal financial officer and principal accounting officer, resigned effective May 3, 2024. Following Dr. Knobelmann’s resignation, the Board appointed Dr. Lu, as the interim principal financial officer and principal accounting officer, effective as of May 4, 2024 until the filing of our quarterly report on form 10-Q for the quarter ended March 31, 2024. The Board also appointed Yvonne Li as Interim Chief Financial Officer, effective

May 4, 2024, and principal financial officer and principal accounting officer effective after our filing of our quarterly report on form 10-Q for the quarter ended March 31, 2024.

On January 31, 2025, the Consulting Agreement with Yvonne Li expired in accordance with its terms. As such, effective January 31, 2025, Ms. Li was no longer our principal financial officer and principal accounting officer. On February 5, 2025, we entered into a new consulting agreement pursuant to which Ms. Li will serve as a consultant until March 31, 2025.

On February 25, 2025, we announced the appointment of Jay Cross as our Chief Financial Officer effective March 3, 2025, and principal financial officer and principal accounting officer, effective following the filing date of the Annual Report for fiscal year 2024 on March 20, 2025.

The effectiveness of our Chief Financial Officer and our senior leadership team generally, following the transition could have a significant impact on our ability to operate the business effectively. The failure to ensure a smooth transition, including required knowledge transfers, could negatively affect our results of operations and financial condition as well as our ability to execute our business strategies.

Recruiting and retaining qualified scientific and clinical personnel and, if we progress the development of any of our product candidates, commercialization, manufacturing and sales and marketing personnel, will be critical to our success. The loss of the services of members of our senior management or other key employees could impede the achievement of our research, development and commercialization objectives and seriously harm our ability to successfully implement our business strategy. Furthermore, replacing members of our senior management and key employees may be difficult and may take an extended period of time because of the limited number of individuals in our industry with the breadth of skills and experience required to successfully develop, gain regulatory approval of and commercialize our product candidates. Our success also depends on our ability to continue to attract, retain and motivate highly skilled junior, mid-level and senior managers, as well as junior, mid-level and senior scientific and medical personnel. Competition to hire from this limited candidate pool is intense, and we may be unable to hire, train, retain or motivate these key personnel on acceptable terms given the competition among numerous pharmaceutical and biotechnology companies for similar personnel. We also experience competition for the hiring of scientific and clinical personnel from universities and research institutions. In addition, we rely on consultants and advisors, including scientific and clinical advisors, to assist us in formulating our research and development and commercialization strategy. Our consultants and advisors may have commitments under consulting or advisory contracts with other entities that may limit their availability to us. If we are unable to continue to attract and retain high-quality personnel, our ability to pursue our growth strategy will be limited.

We may experience difficulties in managing our growth and expanding our operations.

We have limited experience in therapeutic development. As our current and potential future product candidates enter and advance through preclinical studies and any clinical trials, we will need to expand our development and regulatory capabilities or contract with other organizations to provide these capabilities for us.

To execute on our anticipated operating plans, we will need to continue to implement and improve our managerial, operational, and financial systems, and continue to recruit and train additional qualified personnel. Due to our limited financial resources and the complexity in managing a company with such anticipated growth, we may not be able to effectively expand our operations, manage any expansion of our operations or recruit and train additional qualified personnel. The expansion of our operations may lead to significant costs and may divert our management and business development resources. Any inability to manage growth could delay the execution of our business plans or disrupt our operations.

In addition, future growth imposes significant added responsibilities on members of management, including: identifying, recruiting, integrating, maintaining, and motivating additional employees; managing our internal development efforts effectively, including the clinical and FDA review process for our product candidates, while complying with our contractual obligations to contractors and other third parties; and improving our operational, financial and management controls, reporting systems and procedures.

We may also experience difficulties in the discovery and development of potential future product candidates using our gene circuit platform if we are unable to meet demand as we grow our operations. In the future, we also expect to have to manage additional relationships with collaborators, suppliers and other organizations. Our ability to manage our operations and future growth will require us to continue to improve our operational, financial and management controls, reporting systems and procedures and secure adequate facilities for our operational needs. We may not be able to implement improvements to our management information and control systems in an efficient or timely manner and may discover deficiencies in existing systems and controls.

If any of our product candidates is approved for marketing and commercialization in the future and we are unable to develop sales, marketing and distribution capabilities on our own or enter into agreements with third parties to perform these functions on acceptable terms, we will be unable to successfully commercialize any such future products.

We currently have no sales, marketing or distribution capabilities or experience. We will need to develop internal sales, marketing and distribution capabilities to commercialize each current and potential future product candidate that gains, if ever, FDA or other regulatory authority approval, which would be expensive and time-consuming, or enter into collaborations with third parties to perform these services. If we decide to market any approved products directly, we will need to commit significant financial and managerial resources to develop a marketing and sales force with technical expertise and supporting distribution, administration and compliance capabilities. If we rely on third parties with such capabilities to market any approved products or decide to co-promote products with third parties, we will need to establish and maintain marketing and distribution arrangements with third parties, and there can be no assurance that we will be able to enter into such arrangements on acceptable terms or at all. In entering into third-party marketing or distribution arrangements, any revenue we receive will depend upon the efforts of the third parties and we cannot assure you that such third parties will establish adequate sales and distribution capabilities or be successful in gaining market acceptance for any approved product. If we are not successful in commercializing any product approved in the future, either on our own or through third parties, our business and results of operations could be materially and adversely affected.

Our commercial relationships with entities outside of the United States and our potential future international operations may expose us to business, political, operational and financial risks associated with doing business outside of the United States.

Our business is subject to risks associated with conducting business internationally. Some of our future clinical trials may be conducted outside of the United States and we may enter into key supply arrangements or do other business with persons outside of the United States. For example, in November 2023, we entered into a strategic collaboration with Celest, a China-based biotechnology company, for the clinical development of a product candidate for our SENTI-301A product to treat solid tumors in China. That collaboration did not result in a product that will continue clinical development in China. Furthermore, if we or any future collaborator succeeds in developing any products, we anticipate marketing them in the European Union and other jurisdictions in addition to the United States, including China. If approved, we or any future collaborator may hire sales representatives and conduct physician and patient association outreach activities outside of the United States, including China. Doing business internationally involves a number of risks, including but not limited to:

- multiple, conflicting and changing laws and regulations such as those relating to privacy, data protection and cybersecurity, tax laws, tariffs, export and import restrictions, employment laws, regulatory requirements and other governmental approvals, permits and licenses;
- failure by us to obtain and maintain regulatory approvals for the commercialization of our product candidates in various countries;
- rejection or qualification of foreign clinical trial data by the competent authorities of other countries;
- additional potentially relevant third-party patent rights;

- complexities and difficulties in obtaining, maintaining, protecting and enforcing our intellectual property rights;
- difficulties in staffing and managing foreign operations;
- complexities associated with managing multiple payor reimbursement regimes, government payors or patient self-pay systems;
- limits in our ability to penetrate international markets;
- financial risks, such as longer payment cycles, difficulty collecting accounts receivable, the impact of local and regional financial crises on demand and payment for our products and exposure to foreign currency exchange rate fluctuations;
- natural disasters, political and economic instability, including wars, terrorism and political unrest, outbreak of disease, boycotts, curtailment of trade and other business restrictions;
- certain expenses including, among others, expenses for travel, translation and insurance; and
- regulatory and compliance risks that relate to anti-corruption compliance and record-keeping that may fall within the purview of the U.S. Foreign Corrupt Practices Act, its accounting provisions or its anti-bribery provisions or provisions of anti-corruption or anti-bribery laws in other countries, including China among other countries.

In addition, legislation has been proposed that, if enacted, could negatively impact U.S. funding for certain biotechnology providers having relationships with foreign adversaries or which pose a threat to national security. The potential downstream adverse impacts on entities having only commercial relationships with any impacted biotechnology providers is unknown but may include supply chain disruptions or delays. Any of these factors could harm our ongoing international operations and supply chain, as well as any future international expansion and operations and, consequently, our business, financial condition, prospects and results of operations.

Our business entails a significant risk of product liability, and our inability to obtain sufficient insurance coverage could have a material adverse effect on our business, financial condition, results of operations and prospects.

As we conduct preclinical studies and future clinical trials of our current and potential future product candidates, we will be exposed to significant product liability risks inherent in the development, testing, manufacturing and marketing of these product candidates. Product liability claims could delay or prevent completion of our development programs. If we succeed in marketing products, such claims could result in an FDA investigation of the safety and effectiveness of our products, our manufacturing processes and facilities or our marketing programs and potentially a recall of our products or more serious enforcement action, limitations on the approved indications for which they may be used or suspension or withdrawal of approvals. Regardless of the merits or eventual outcome, liability claims may also result in decreased demand for our products, injury to our reputation, costs to defend the related litigation, a diversion of management's time and our resources, substantial monetary awards to trial participants or patients and a decline in our stock price. Any insurance we have or may obtain may not provide sufficient coverage against potential liabilities. Furthermore, clinical trial and product liability insurance is becoming increasingly expensive. As a result, we or any future collaborators may be unable to obtain sufficient insurance at a reasonable cost to protect us against losses caused by product liability claims that could have a material adverse effect on our business, financial condition, results of operations and prospects.

Our employees, principal investigators, consultants and commercial collaborators may engage in misconduct or other improper activities, including noncompliance with regulatory standards and requirements.

We are exposed to the risk of fraud or other misconduct by our employees, principal investigators, consultants and commercial collaborators. Misconduct by employees could include intentional failures to comply with FDA

regulations, provide accurate information to the FDA, comply with manufacturing standards we may establish, comply with federal and state healthcare fraud and abuse laws and regulations, report financial information or data accurately or disclose unauthorized activities to us. In particular, sales, marketing and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, kickbacks, self-dealing and other abusive practices. These laws and regulations may restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. Such misconduct could also involve the improper use of information obtained in the course of clinical trials, which could result in regulatory sanctions and serious harm to our reputation. It is not always possible to identify and deter misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to be in compliance with such laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a material adverse effect on our business and financial condition, including the imposition of significant criminal, civil and administrative fines or other sanctions, such as monetary penalties, damages, fines, disgorgement, imprisonment, exclusion from participation in government-funded healthcare programs, such as Medicare and Medicaid, integrity obligations, reputational harm and the curtailment or restructuring of our operations.

We depend on sophisticated information technology systems and data processing to operate our business. If we experience cybersecurity or data privacy breaches, security incidents or compromises, or other unauthorized or improper access to, use of, or destruction of our proprietary or confidential data, employee data or personal data, we may face costs, significant liabilities, harm to our brand and business disruption.

We rely on information technology systems and data processing that we or our service providers, collaborators, consultants, contractors or partners operate to collect, process, transmit and store electronic information in our day-to-day operations, including a variety of personal data, such as name, mailing address, email addresses, phone number and potentially clinical trial information. Additionally, we, and our service providers, collaborators, consultants, contractors or partners, do or will collect, receive, store, process, generate, use, transfer, disclose, make accessible, protect and share personal information, health information and other information to host or otherwise process some of our anticipated future clinical data and that of users, develop our products, to operate our business, for clinical trial purposes, for legal and marketing purposes, and for other business-related purposes. Despite the implementation of security measures, our internal computer systems and information technology systems and infrastructure and those of our third-party vendors, consultants, collaborators, contractors or partners, including future CROs upon which our business relies are vulnerable to breakdown or damage or interruption from, among other things, natural disasters, terrorism, war, telecommunication and electrical failures, and sophisticated cyberattacks, including the theft, fraud, and subsequent misuse of employee credentials, wrongful conduct by insider employees or vendors, denial-of-service attacks, ransomware attacks, business email compromises, social engineering (including phishing attacks), computer malware, malicious codes, viruses, wrongful intrusions, and data breaches. Like other companies in our industry, we, and our third-party vendors, have experienced and will continue to experience threats and cybersecurity incidents relating to our information technology systems and infrastructure. As the cyber-threat landscape evolves, these attacks are growing in frequency, level of persistence, sophistication and intensity, and are becoming increasingly difficult to detect. These risks may be increased as a result of pandemics, owing to an increase in personnel working remotely and higher reliance on internet technology. Furthermore, because the techniques used to obtain unauthorized access to, or to sabotage, systems change frequently and often are not recognized until launched against a target, we may be unable to anticipate these techniques or implement adequate preventative measures. We may also experience cybersecurity incidents or data breaches that may remain undetected for an extended period.

There can be no assurance that we, our service providers, collaborators, consultants, contractors or partners will be successful in efforts to detect, prevent or fully recover systems or data from all breakdowns, service interruptions, attacks, compromises, cybersecurity incidents or breaches of systems that could adversely affect our business and operations and/or result in the loss of critical or sensitive data. Any failure by us or our service providers, collaborators, consultants, contractors or partners to detect, prevent, respond to or mitigate cybersecurity incidents, compromises, breaches or improper access to, use of, or inappropriate disclosure of our information or other confidential or sensitive information, including patients' personal data, or the perception that any such failure has

occurred, could result in legal notifications, disclosures, claims, litigation, regulatory investigations and other proceedings, significant liability under state, federal and international law, and other financial, legal or reputational harm to us, including class action lawsuits from affected individuals. Further, such failures or perceived failures could result in liability and a material disruption of our development programs and our business operations, which could lead to significant delays or setbacks in our research, delays to commercialization of our product candidates, lost revenues or other adverse consequences, any of which could have a material adverse effect on our business, results of operations, financial condition, prospects and cash flow. For example, the loss or alteration of clinical trial data from future clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data.

Additionally, applicable laws and regulations relating to privacy, data protection or cybersecurity, external contractual commitments and internal privacy and security policies may require us to notify relevant stakeholders if there has been a cybersecurity incident or breach, including notification to affected individuals, business partners and regulators. Such disclosures are costly, and the disclosures or any actual or alleged failure to comply with such requirements could lead to a materially adverse impact on the business, including negative publicity, a loss of confidence in our services or security measures by our business partners or breach of contract claims. Our contracts may not contain limitations of liability, and even where they do, there can be no assurance that limitations of liability in our contracts are sufficient to protect us from liabilities, damages, or claims related to our privacy and data security obligations. Further, although we maintain cyber liability insurance, this insurance may not provide adequate coverage against potential liabilities related to any experienced cybersecurity incident or breach.

If we do not comply with laws regulating the protection of the environment and health and human safety, our business could be adversely affected.

Our research, development and manufacturing involve the use of hazardous materials and various chemicals. We maintain quantities of various flammable and toxic chemicals that are required for our research, development and manufacturing activities. We are subject to federal, state and local laws and regulations governing the use, manufacture, storage, handling and disposal of these hazardous materials. We believe our procedures for storing, handling and disposing of these materials comply with the relevant guidelines of the state of California and the Occupational Safety and Health Administration of the U.S. Department of Labor. Although we believe that our safety procedures for handling and disposing of these materials comply with the standards mandated by applicable regulations, the risk of accidental contamination or injury from these materials cannot be eliminated. If an accident occurs, we could be held liable for resulting damages, which could be substantial. We are also subject to numerous environmental, health and workplace safety laws and regulations, including those governing laboratory procedures, exposure to blood-borne pathogens and the handling of animals and bio hazardous materials. Although we maintain workers' compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees resulting from the use of these materials, this insurance may not provide adequate coverage against potential liabilities. Although we have some environmental liability insurance, we may not maintain adequate insurance for all environmental liability or toxic tort claims that may be asserted against us in connection with our storage or disposal of biological or hazardous materials. Additional federal, state and local laws and regulations affecting our operations may be adopted in the future. We may incur substantial costs to comply with, and substantial fines or penalties if we violate, any of these laws or regulations.

Unfavorable global economic conditions and government regulations could adversely affect our business, financial condition or results of operations.

Our results of operations could be adversely affected by general conditions in the global economy and in the global financial markets. Factors such as geopolitical events (including the ongoing wars in Iran, Ukraine, Russia and Israel and the risk of increased tensions between China and Taiwan), inflationary pressures, public health crises, and U.S. election cycles, and changes in government administration and policies have caused extreme volatility and disruptions in the capital and credit markets in recent years. Uncertainty or unfavorable global economic conditions could result in a variety of impacts to our business, including weakening demand for our products, and adversely impacting our ability to raise additional capital when needed on acceptable terms, if at all. A weak or declining economy has strained in the past and may in the future strain our manufacturers or suppliers, possibly resulting in

supply disruption, or cause our customers to delay making payments for our services. Further, the Trump administration has proposed or enacted tariffs and substantial changes to trade policies, which could adversely affect our business. For example, the Trump administration has imposed tariffs on certain foreign products, including from Canada, Mexico and China, that in the past have resulted in and may result in future retaliatory tariffs on U.S. goods and products. Additionally, on September 25, 2025, the current U.S. administration announced a 100% tariff on brand-name or patented drugs unless pharmaceutical companies expand their manufacturing operations in the U.S. and may impose more restrictions on goods. Although the pharmaceutical tariff is currently on hold, this could have a material adverse effect on our supply chain and business prospects as well as the larger biopharmaceutical industry. While certain tariffs have subsequently been suspended, modified or temporarily reduced, we cannot predict the results of the U.S. government's trade negotiations or the outcome of ongoing legal challenges to specific tariff policies. We cannot predict whether these policies will continue, or if new policies will be enacted, or the impact, if any, that any policy changes could have on our business. Any of the foregoing could harm our business and we cannot anticipate all of the ways in which the economic climate and financial market conditions could adversely affect our business.

There is also uncertainty surrounding potential changes to the healthcare regulatory environment in the United States, and it is not possible to predict how these changes may be implemented, and the ultimate effects of such changes on our business. In addition, the U.S. federal government and other governments may reduce funding for health care or other programs or make changes that adversely affect the number of persons eligible for certain programs, the services provided to enrollees in such programs and premiums we can charge. The levels of U.S. federal government spending are difficult to predict and are subject to significant risk. Considerable uncertainty exists regarding how future budget and program decisions will unfold, including the spending priorities of the new presidential administration and Congress, and what challenges budget reductions, if any, will present for our business and our industry generally. For example, on January 20, 2025, President Trump established by executive order the U.S. DOGE Service Temporary Organization ("DOGE") to reform federal government processes and reduce expenditures, and on February 5, 2025, the Centers for Medicare & Medicaid Services, or CMS, announced that it is collaborating with DOGE to determine where there may be opportunities for more effective and efficient use of resources. Further, there are reports that the administration is exploring and implementing policies which may put limits on, or freeze, credit card spending by government employees on behalf of government agencies. Additionally, the Trump administration took several Executive Actions, including the issuance of a number of Executive Orders, that imposed significant burdens on, or otherwise materially delayed, the FDA's ability to engage in routine oversight activities, such as implementing statutes through rulemaking, issuance of guidance, and review and approval of marketing applications. It is difficult to predict whether additional orders will be implemented, or how these orders will be rescinded and replaced under the current or future administrations.

Terrorist attacks, natural disasters, public health crises, political unrest or other catastrophic events outside of our control may adversely affect our business.

Terrorist attacks, natural disasters, including disasters attributable to climate change impacts, public health crises, political unrest or other catastrophic events outside of our control, including pandemics, and subsequent governmental responses to these events, could cause economic instability. These actions could adversely affect economic conditions both within and outside the United States. For example, the COVID-19 pandemic caused disruptions in local, regional, national and global markets and economies, including the United States. These events disrupted our normal operations and the operations of our CROs, suppliers and other third parties on whom we rely.

In addition, the impacts of political unrest, including as a result geopolitical tension, such as a deterioration in the relationship between the United States and China, escalation of tensions between China and Taiwan, or escalation in conflict between Russia and Ukraine or the conflict in Iran, including any resulting sanctions, export controls or other restrictive actions that may be imposed by the United States and/or other countries against governmental or other entities in, for example, Russia, also could lead to disruption, instability and volatility in the global markets, which may have an adverse impact on the Company's business or ability to access the capital markets. As a result of the ongoing military conflict between Russia and Ukraine, the United States and other countries have imposed significant sanctions on Russia and could impose even wider sanctions. Such sanctions could damage or disrupt international commerce and the global economy. We cannot predict the broader or longer-

term consequences of the conflicts in Ukraine or Iran, or of the sanctions imposed to date, which could include embargoes, regional instability, geopolitical shifts, exchange rate fluctuations, financial market disruptions and economic recession. Further, the conflict in Ukraine or Iran could exacerbate supply chain challenges, lead to an increase in cyberattacks, affect the global price and availability of key commodities, and have an adverse effect on our business and results of operations.

Various types of disasters, including earthquakes, fires, floods, riots, acts of terrorism and pandemics, may also affect our manufacturing and computer systems, and increase cybersecurity risks. In the event that our facilities or computer systems are affected by man-made or natural disasters, including pandemics, we may have difficulty operating our business and may be unable to manufacture products for continued development or meet operational timelines. If our manufacturing operations were curtailed or shut down entirely, it would seriously harm our business. Moreover, we may incur incremental costs following an unforeseen event which could adversely affect its results of operation.

Market volatility and economic downturns may harm our business and results of operations and negatively affect our stock price.

Our overall performance depends, in part, on worldwide economic conditions. In recent months, we have observed increased economic uncertainty in the United States and abroad. Impacts of such economic weakness include:

- declining overall demand for goods and services, leading to reduced profitability;
- reduced credit availability;
- higher borrowing costs;
- reduced liquidity;
- volatility in credit, equity and foreign exchange markets; and
- bankruptcies.

These developments could lead to supply chain disruption, inflation, higher interest rates, and uncertainty about business continuity, which may adversely affect our business and our results of operations and negatively affect our stock price.

Recent volatility in capital markets and lower market prices for our securities may affect our ability to access new capital through sales of shares of our common stock or issuance of indebtedness, which may harm our liquidity, limit our ability to grow our business, pursue acquisitions or improve our operating infrastructure and restrict our ability to compete in our markets.

Our operations consume substantial amounts of cash, and we intend to continue to make significant investments to support our business growth, respond to business challenges or opportunities, develop new solutions, retain or expand our current levels of personnel, improve our existing solutions, enhance our operating infrastructure, and potentially acquire complementary businesses and technologies. Our future capital requirements may be significantly different from our current estimates and will depend on many factors, including the need to:

- finance unanticipated working capital requirements;
- develop or enhance our technological infrastructure and our existing solutions;
- pursue acquisitions or other strategic relationships; and

- respond to competitive pressures.

Accordingly, we may need to pursue equity or debt financings to meet our capital needs. With uncertainty in the capital markets and other factors, such financing may not be available on terms favorable to us or at all. If we raise additional funds through further issuances of equity or convertible debt securities, our existing stockholders could suffer significant dilution, and any new equity securities we issue could have rights, preferences, and privileges superior to those of holders of our common stock. Any debt financing secured by us in the future could require us to pay high interest rates or involve additional restrictive covenants relating to our capital-raising activities and other financial and operational matters, which may make it more difficult for us to obtain additional capital and to pursue business opportunities, including potential acquisitions. If we are unable to obtain adequate financing or financing on terms satisfactory to us, we could face significant limitations on our ability to invest in our operations and otherwise suffer harm to our business.

Rising inflation rates could negatively impact our business. If our costs increase, our net losses would increase, which may have a material adverse effect on our business.

Inflation rates, particularly in the United States, have increased recently to levels not seen in years. Increased inflation may result in decreased demand for our products and services, increased operating costs (including our labor costs), reduced liquidity, and limitations on our ability to access credit or otherwise raise debt and equity capital. In addition, the United States Federal Reserve has raised, and may again raise, interest rates in response to concerns about inflation. Increases in interest rates, especially if coupled with reduced government spending and volatility in financial markets, may have the effect of further increasing economic uncertainty and heightening these risks.

Risks Related to Our Intellectual Property

If we are unable to obtain or protect intellectual property rights related to our technology and current or future product candidates, or if our intellectual property rights are inadequate, our competitors could develop and commercialize products and technology similar or identical to ours, and we may not be able to compete effectively in our market or successfully commercialize any product candidates we may develop.

Our success depends in part on our ability to obtain and maintain protection for our owned and in-licensed intellectual property rights and proprietary technology. We rely on a combination of patents, trademarks, trade secret protection and confidentiality agreements, including in-licenses of intellectual property rights and biologic materials of others, to protect our current or future platform technologies, product candidates, methods used to manufacture our current or future product candidates and methods for treating patients using our current or future product candidates.

We own or in-license patents and patent applications relating to our platform technologies and product candidates. There is no guarantee that any patents covering our platform technologies or product candidates will issue from the patent applications we own, in-license or may file in the future, or, if they do, that the issued claims will provide adequate protection for our platform technologies or product candidates, or any meaningful competitive advantage. Further, there cannot be any assurance that such patents issued will not be infringed, designed around, invalidated by third parties or effectively prevent others from commercializing competitive technologies, products or product candidates.

The patent prosecution process is expensive, complex and time-consuming. Patent license negotiations also can be complex and protracted, with uncertain results. We may not be able to file, prosecute, maintain, enforce or license all necessary or desirable patents and patent applications at a reasonable cost or in a timely manner or in countries that could provide meaningful protection. It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. The patent applications that we own or in-license may fail to result in issued patents, and, even if they do issue as patents, such patents may not cover our current or future technologies or product candidates in the United States or in other countries or provide sufficient protection from competitors. In addition, the coverage claimed in a patent application can be significantly reduced

before the patent is issued, and its scope can be reinterpreted after issuance. We do not have exclusive control over the preparation, filing and prosecution of patent applications under certain of our in-license agreements, and we may not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the rights to patents, that we out-license to third parties. Therefore, these patents and applications may not be prosecuted and enforced in a manner consistent with the best interests of our business. Even if our owned or in-licensed patent applications issue as patents, they may not issue in a form that will provide us with any meaningful protection, prevent competitors from competing with us or otherwise provide us with any competitive advantage. Our competitors may be able to circumvent our patents by developing similar or alternative product candidates in a non-infringing manner.

Further, although we make reasonable efforts to ensure patentability of our inventions, we cannot guarantee that all of the potentially relevant prior art relating to our owned or in-licensed patents and patent applications has been found. For example, publications of discoveries in scientific literature often lag behind the actual discoveries, and patent applications in the United States and other jurisdictions are typically not published until 18 months after filing, and in some cases not at all. Additionally, pending patent applications that have been published can, subject to certain limitations, be later amended in a manner that could cover our platform technologies, our product candidates, or the use of our technologies. We thus cannot know with certainty whether we or our licensors were the first to file for patent protection of such inventions. In addition, the United States Patent and Trademark Office, or USPTO, might require that the term of a patent issuing from a pending patent application be disclaimed and limited to the term of another patent that is commonly owned or names a common inventor. There is no assurance that all potentially relevant prior art relating to our owned or in-licensed patent applications has been found. For this reason, and because there is no guarantee that any prior art search is absolutely correct and comprehensive, we may be unaware of prior art that could be used to invalidate an issued patent or to prevent our owned or in-licensed patent applications from issuing as patents. Invalidation of any of our patent rights, including in-licensed patent rights, could materially harm our business.

Moreover, the patent positions of biotechnology companies like ours are generally uncertain because they may involve complex legal and factual considerations that have, in recent years, been the subject of legal development and change. The relevant patent laws and their interpretation, both inside and outside of the United States, is also uncertain. Changes in either the patent laws or their interpretation in the United States and other jurisdictions may diminish our ability to protect our platform technology or product candidates and could affect the value of such intellectual property. In particular, our ability to stop third parties from making, using, selling, offering to sell or importing products that infringe, misappropriate or otherwise violate our intellectual property will depend in part on our success in obtaining and enforcing patent claims that cover our platform technology, product candidates, inventions and improvements. We cannot guarantee that patents will be granted with respect to any of our owned or licensed pending patent applications or with respect to any patent applications we may file or license in the future, nor can we be sure that any patents that may be granted to us or our licensors in the future will be commercially useful in protecting our products, the methods of use or manufacture of those products. Additionally, third parties, including our former employees and collaborators, may challenge the ownership or inventorship of our patent rights to claim that they are entitled to ownership and inventorship interest, and we may not be successful in defending against such claims. However, we are not currently facing any such challenges. Moreover, issued patents do not guarantee the right to practice our technology in relation to the commercialization of our products. Issued patents only allow us to block—in some cases—potential competitors from practicing the claimed inventions of the issued patents.

The issuance, scope, validity, enforceability and commercial value of our pending patent rights are uncertain. The standards applied by the USPTO and foreign patent offices in granting patents are not always certain and moreover, are not always applied uniformly or predictably. For example, there is no uniform worldwide policy regarding patentable subject matter or the scope of claims allowable in patents. Our pending and future patent applications may not result in patents being issued in the United States or in other jurisdictions which protect our technology or products or which effectively prevent others from commercializing competitive technologies and products. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries may diminish the value of our owned or in-licensed patent applications or narrow the scope of any patent

protection we may obtain from our owned or in-licensed patent applications. In addition, the laws of foreign countries may not protect our rights to the same extent as the laws of the United States.

Further, patents and other intellectual property rights in the pharmaceutical and biotechnology space are evolving and involve many risks and uncertainties. For example, third parties may have blocking patents that could be used to prevent us from commercializing our product candidates and any future product candidates and practicing our proprietary technology, and any issued patents may be challenged, invalidated or circumvented, which could limit our ability to stop competitors from marketing related products or could limit the term of patent protection that otherwise may exist for our product candidate and any future product candidates. In addition, the scope of the rights granted under any issued patents may not provide us with protection or competitive advantages against competitors or other parties with similar technology. Additionally, our competitors may initiate legal proceedings, such as declaratory judgment actions in federal court or reexaminations or an inter partes review at the USPTO in an attempt to invalidate or narrow the scope of our patents. However, we are not currently facing any such proceedings. Furthermore, our competitors or other parties may independently develop similar technologies that are outside the scope of the rights granted under any issued patents. For these reasons, we may face competition with respect to our product candidates and any future product candidates. Moreover, because of the extensive time required for development, testing and regulatory review of a potential product, it is possible that, before any particular product candidate can be commercialized, any patent protection for such product candidate may expire or remain in force for only a short period following commercialization, thereby reducing the commercial advantage the patent provides.

Even if patents do successfully issue from our owned or in-licensed patent application, and even if such patents cover our current or any future technologies or product candidates, third parties may challenge their validity, enforceability or scope, which may result in such patents being narrowed, invalidated, or held unenforceable. Any successful challenge to these patents or any other patents owned by or licensed to us could deprive us of rights necessary for the successful commercialization of any current or future technologies or product candidates that we may develop. Likewise, if patent applications we own or have in-licensed with respect to our development programs and current or future technologies or product candidates fail to issue, if their breadth or strength is threatened, or if they fail to provide meaningful exclusivity, other companies could be dissuaded from collaborating with us to develop current or future technologies or product candidates. Lack of valid and enforceable patent protection could threaten our ability to commercialize current or future products and could prevent us from maintaining exclusivity with respect to the invention or feature claimed in the patent applications. Any failure to obtain or any loss of patent protection could have a material adverse impact on our business and ability to achieve profitability. We may be unable to prevent competitors from entering the market with a product that is similar or identical to any of our current or potential future product candidates or from utilizing technologies similar to those in our gene circuit platform technologies.

The filing of a patent application or the issuance of a patent is not conclusive as to its ownership, inventorship, scope, patentability, validity or enforceability. Issued patents and patent applications may be challenged in the courts and in the patent office in the United States and abroad. For example, our patent applications or patent applications filed by our licensors, or any patents that grant therefrom, may be challenged through third-party submissions, opposition or derivation proceedings. By further example, any issued patents that may result from our owned or in-licensed patent applications may be challenged through reexamination, inter partes review or post-grant review proceedings before the USPTO, or in declaratory judgment actions or counterclaims. An adverse determination in any such submission, proceeding or litigation could prevent the issuance of, reduce the scope of, invalidate or render unenforceable our owned or in-licensed patent rights, result in the loss of exclusivity, limit our ability to stop others from using or commercializing similar or identical platforms and product candidates, or allow third parties to compete directly with us without payment to us. In addition, if the breadth or strength of protection provided by any patents that might result from our owned or in-licensed patent applications is threatened, it could dissuade companies from collaborating with us to license, develop or commercialize current or future platforms or product candidates. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects.

Moreover, we currently co-own certain patent applications with third parties and may in the future co-own additional patents and patent applications with third parties. If we are unable to obtain an exclusive license to any

such third-party co-owners' interest in such patents or patent application, such co-owners may be able to license their rights to other third parties, including our competitors, and our competitors could market competing products and technology. We may need the cooperation of any such co-owners to enforce such patents against third parties, and such cooperation may not be provided to us. Any of the foregoing could have a material adverse effect on our competitive position, business prospects and financial conditions.

Our in-licensed patent rights may be subject to a reservation of rights by one or more third parties, such as the U.S. government. In addition, our rights in such inventions may be subject to certain requirements to manufacture product candidates embodying such inventions in the United States. Any exercise by the U.S. government of such rights could harm our competitive position, business, financial condition, results of operations and prospects.

The patent protection and patent prosecution for some of our product candidates and technologies may be dependent on third parties.

While we normally seek to obtain the right to control prosecution, maintenance and enforcement of the patents relating to our product candidates and technologies, there may be times when the filing and prosecution activities for patents and patent applications relating to our product candidates and technologies are controlled by our licensors or collaborators. Our licensors may not successfully prosecute the patent applications to which we are licensed. Even if patents are issued in respect of these patent applications, our licensors may fail to maintain these patents, may determine not to pursue litigation against other companies that are infringing these patents, or may pursue such litigation less aggressively than we would.

If any of our licensors or collaborators fail to prosecute, maintain and enforce such patents and patent applications in a manner consistent with the best interests of our business, including by payment of all applicable fees for patents covering our product candidates and technologies, we could lose our rights to the intellectual property or our exclusivity with respect to those rights, our ability to develop and commercialize those product candidates and technologies may be adversely affected and we may not be able to prevent competitors from making, using and selling competing product candidates. In addition, even where we have the right to control patent prosecution of patents and patent applications we have licensed to and from third parties, we may still be adversely affected or prejudiced by actions or inactions of our licensees, our current and future licensors and their counsel that took place prior to the date upon which we assumed control over patent prosecution.

Our licensed European patents and patent applications could be challenged in the Unified Patent Court, or UPC, for the European Union. Under our current license agreements, we may not have the final or sole decision as to whether we are able to opt out certain of our in-licensed European patents and patent applications from the UPC. Our licensors may decide not to opt out of the UPC, which would subject our in-licensed European patents and patent applications to the jurisdiction of the UPC. Furthermore, even if our licensors decide to opt out of the UPC, we cannot guarantee that our licensors will comply with the legal formalities and requirements for properly opting out of the UPC. Thus, we cannot be certain that our in-licensed European patents and patent applications will not fall under the jurisdiction of the UPC. Under the UPC, a single European patent would be valid and enforceable in numerous European countries. A challenge to the validity of a European patent in a central revocation proceeding under the UPC, if successful, could result in a loss of patent protection in numerous European countries, which could have a material adverse impact on our business and our ability to commercialize or license our technology and product candidates.

Further, we may have limited control over the manner in which our licensors initiate an infringement proceeding against a third-party infringer of the intellectual property rights, or defend certain of the intellectual property that is licensed to us. It is possible that the licensors' infringement proceeding(s) or defense activities may be less vigorous than had we conducted them ourselves.

We may be unable to acquire or in-license any relevant third-party intellectual property rights that we identify as necessary or important to our business operations.

Because our development programs may in the future require the use of proprietary rights held by third parties, the growth of our business may depend in part on our ability to acquire, in-license or use these third-party proprietary rights. We may be unable to acquire or in-license any compositions, methods of use, processes or other third-party intellectual property rights from third parties that we identify as necessary for our product candidates. The licensing of third-party intellectual property rights is a competitive area, and more established companies may pursue strategies to license or acquire third-party intellectual property rights that we may consider attractive or necessary. More established companies may have a competitive advantage over us due to their size, capital resources and greater clinical development and commercialization capabilities. In addition, companies that perceive us to be a competitor may be unwilling to assign or license rights to us. We also may be unable to license or acquire third-party intellectual property rights on terms that would allow us to make an appropriate return on our investment or at all. Even if we are able to obtain a license, it may be non-exclusive, thereby giving our competitors access to the same technologies licensed to us. If we are unable to license such technology, or if we are forced to license such technology on unfavorable terms, our business could be materially harmed. If we are unable to obtain a necessary license, we may be unable to develop or commercialize the affected current or future product candidates, which could materially harm our business, and the third parties owning such intellectual property rights could seek either an injunction prohibiting our sales, or, with respect to our sales, an obligation on our part to pay royalties or other forms of compensation. Any of the foregoing could harm our competitive position, business, financial condition, results of operations and prospects.

Further, our licensors may retain certain rights under their agreements with us, including the right to use the underlying technology for noncommercial academic and research use, to publish general scientific findings from research related to the technology, and to make customary scientific and scholarly disclosures of information relating to the technology. It is difficult to monitor whether our licensors limit their use of the technology to these uses, and we could incur substantial expenses to enforce our rights to our licensed technology in the event of misuse.

Additionally, some intellectual property that we have in-licensed or that we own may have been discovered through government funded programs and thus may be subject to federal regulations such as “march-in” rights, certain reporting requirements and a preference for U.S.-based companies. Compliance with such regulations may limit our exclusive rights, and limit our ability to contract with non-U.S. manufacturers.

As a result, the U.S. government may have certain rights to intellectual property embodied in our current or future product candidates pursuant to the Bayh-Dole Act of 1980, or Bayh-Dole Act, and implementing regulations. These U.S. government rights in certain inventions developed under a government-funded program include a non-exclusive, non-transferable, irrevocable worldwide license to use inventions for any governmental purpose. In addition, the U.S. government may have the right to require us or our licensors to grant exclusive, partially exclusive, or non-exclusive licenses to any of these inventions to a third-party if it determines that: (i) adequate steps have not been taken to commercialize the invention; (ii) government action is necessary to meet public health or safety needs; or (iii) government action is necessary to meet requirements for public use under federal regulations (also referred to as “march-in rights”).

The U.S. government has the right to take title to these inventions made through government funded programs if we, or the applicable licensor, fail to disclose the invention to the government and fail to file an application to register the intellectual property within specified time limits. These time limits have recently been changed by regulation, and may change in the future. Intellectual property generated under a government-funded program is also subject to certain reporting requirements, compliance with which may require us or the applicable licensor to expend substantial resources. In addition, the U.S. government requires that any products embodying the subject invention or produced through the use of the subject invention be manufactured substantially in the United States. The manufacturing preference requirement can be waived if the owner of the intellectual property can show that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible. This preference for U.S. manufacturers may limit our ability to contract

with non-U.S. product manufacturers for products covered by such intellectual property. To the extent any of our current or future intellectual property is generated through the use of U.S. government funding, the provisions of the Bayh-Dole Act may similarly apply.

We currently, and in the future may continue to, enter into agreements involving licenses or collaborations that provide for access or sharing of intellectual property. These intellectual property-related agreements may impose certain obligations and restrictions on our ability to develop and commercialize our product candidates and technologies that are the subject of such licenses.

We license rights from third parties to use certain intellectual property relevant to one or more of our current and future product candidates. In the future, we may need to obtain additional licenses from others to advance our research and development activities or allow the commercialization of our current and future product candidates we may identify and pursue. These existing license agreements impose, and any future license agreements we enter into are likely to impose, various development, commercialization, funding, milestone, royalty, diligence, sublicensing, insurance, patent prosecution and enforcement or other obligations on us. For example, we are a party to three license agreements with the U.S. Department of Health and Human Services, as represented by the National Cancer Institute, or NCI, for intellectual property relevant to our product candidates. For a more detailed description of the license agreements with NCI, see the section titled “*Business—Agreements*” in the Annual Report.

In addition, certain of our future agreements with third parties may limit or delay our ability to consummate certain transactions, may impact the value of those transactions, or may limit our ability to pursue certain activities. For example, we may in the future enter into license agreements that are not assignable or transferable, or that require the licensor’s express consent in order for an assignment or transfer to take place.

Further, we or our licensors, if any, may fail to identify patentable aspects of inventions made in the course of development and commercialization activities before it is too late to obtain patent protection on them. Therefore, we may miss potential opportunities to strengthen our patent position. It is possible that defects of form in the preparation or filing of our patents or patent applications may exist, or may arise in the future, for example with respect to proper priority claims, inventorship, claim scope, or requests for patent term adjustments. If we or our licensors fail to establish, maintain or protect such patents and other intellectual property rights, such rights may be reduced or eliminated. If our licensors are not fully cooperative or disagree with us as to the prosecution, maintenance or enforcement of any patent rights, such patent rights could be compromised. If there are material defects in the form, preparation, prosecution, or enforcement of our patents or patent applications, such patents may be invalid and/or unenforceable, and such applications may never result in valid, enforceable patents. Any of these outcomes could impair our ability to prevent competition from third parties, which may have an adverse impact on our business, financial conditions, results of operations and prospects.

Furthermore, we may not have the right to control the preparation, filing, prosecution, maintenance, enforcement and defense of patents and patent applications that we license from third parties. In certain circumstances, our licensed patent rights are subject to our reimbursing our licensors for their patent prosecution and maintenance costs. If our licensors and future licensors fail to prosecute, maintain, enforce and defend patents we may license, or lose rights to licensed patents or patent applications, our licensed rights may be reduced or eliminated. In such circumstances, our right to develop and commercialize any of our products or product candidates that is the subject of such licensed rights could be materially adversely affected. Even where we have the right to control prosecution of patents and patent applications under license from third parties, we may still be adversely affected or prejudiced by actions or inactions of our predecessors or licensors and their counsel that took place prior to us assuming control over patent prosecution.

Our technology acquired or licensed currently or in the future from various third parties is or may be subject to retained rights. Our predecessors or licensors do and may retain certain rights under their agreements with us, including the right to use the underlying technology for non-commercial academic and research use, to publish general scientific findings from research related to the technology, and to make customary scientific and scholarly disclosures of information relating to the technology. It is difficult to monitor whether our predecessors or licensors

limit their use of the technology to these uses, and we could incur substantial expenses to enforce our rights to our licensed technology in the event of misuse.

If we are limited in our ability to utilize acquired or licensed technologies, or if we lose our rights to critical in-licensed technology, we may be unable to successfully develop, out-license, market and sell our product candidates, which could prevent or delay new product introductions. Our business strategy depends on the successful development of acquired technologies and licensed technology into commercial product candidates. Therefore, any limitations on our ability to utilize these technologies may impair our ability to develop, out-license or market and sell our product candidates.

If we fail to comply with our obligations or disputes arise under any existing or future license, collaboration or other intellectual property-related agreements, we may be required to pay damages and could lose intellectual property rights that may be necessary for developing, commercializing and protecting our current or future technologies or product candidates or we could lose certain rights to grant sublicenses.

We have certain obligations to third-party licensors from whom we license certain patent rights that are relevant to one or more current and future product candidates. In the future, we may need to obtain additional licenses from other third parties to advance our research and development activities or allow the commercialization of our current and future product candidates. Our existing license agreements impose, and any future license agreements we enter into are likely to impose, various development, commercialization, funding, milestone, royalty, diligence, sublicensing, insurance, patent prosecution and enforcement or other obligations on us. For a more detailed description of our existing license agreements, see the section titled “*Business— Our Material Agreements*” in the Annual Report. If we breach any of these obligations, including diligence obligations with respect to development and commercialization of product candidates covered by the intellectual property licensed to us, or use the intellectual property licensed to us in an unauthorized manner or we are subject to bankruptcy-related proceedings, we may be required to pay damages and the licensor may have the right to terminate the respective agreement or materially modify the terms of the license, such as by rendering currently exclusive licenses non-exclusive. License termination or modification could result in our inability to develop, manufacture and sell products that are covered by the licensed intellectual property or could enable a competitor to gain access to the licensed intellectual property.

Our current or future licensors may own or control intellectual property that has not been licensed to us and, as a result, we may be subject to claims, regardless of their merit, that we are infringing, misappropriating or otherwise violating the licensor’s intellectual property rights. In addition, while we cannot currently determine the amount of the royalty obligations we would be required to pay on sales of future products if infringement or misappropriation were found, those amounts could be significant. The amount of our future royalty obligations will depend on the technology and intellectual property we use in products that we successfully develop and commercialize, if any. Therefore, even if we successfully develop and commercialize products, we may be unable to achieve or maintain profitability.

Disputes may arise between us and our present and future licensors regarding intellectual property subject to a licensing agreement, including:

- the scope of rights granted under the license agreement and other interpretation-related issues, including but not limited to our right to transfer or assign the license;
- whether and the extent to which our product candidates, technology and processes infringe intellectual property of the licensor that is not subject to the licensing agreement;
- our right to sublicense patents and other rights to third parties, including the terms and conditions thereof;
- our diligence obligations with respect to the development and commercialization of our product candidates that are covered by the license agreement, and what activities satisfy those diligence obligations;
- our right to transfer or assign the license;

- the inventorship and ownership of inventions and know-how resulting from the joint creation or use of intellectual property by our licensors and us and our collaborators; and
- the priority of invention of patented technology.

If disputes over intellectual property that we license in the future prevent or impair our ability to maintain our licensing arrangements on acceptable terms, we may not be able to successfully develop and commercialize the affected product candidates, which would have a material adverse effect on our business, financial condition, results of operations and prospects.

In addition, the agreements under which we currently license intellectual property or technology from the NCI are complex, and certain provisions in such agreements may be susceptible to multiple interpretations. The resolution of any contract interpretation disagreement that may arise could narrow what we believe to be the scope of our rights to the relevant intellectual property or technology, or increase what we believe to be our financial or other obligations under the relevant agreement, either of which could have a material adverse effect on our business, financial condition, results of operations and prospects. Moreover, if disputes over intellectual property that we have licensed prevent or impair our ability to maintain our current licensing arrangements on commercially acceptable terms, we may be unable to successfully develop and commercialize the affected product candidates, which could have a material adverse effect on our business, financial condition, results of operations and prospects.

In addition, while we currently do not have any liens, security interests, or other encumbrances on the intellectual property that we own, we may, in the future, need to obtain a loan or a line of credit that will require that we put up our intellectual property as collateral to our lenders or creditors. If we do so, and we violate the terms of any such loan or credit agreement, our lenders or creditors may take possession of such intellectual property, including the rights to receive proceeds derived from such intellectual property.

Patent terms may not be able to protect our competitive position for an adequate period of time with respect to our current or future technologies or product candidates.

Patents have a limited lifespan. The term of individual patents and applications in our portfolio depends upon the legal term of patents in the countries in which they are obtained. In most countries in which we file, including the United States, the patent term is 20 years from the earliest date of filing a non-provisional patent application. Extensions of patent term may be available, but there is no guarantee that we would have patents eligible for extension, or that we would succeed in obtaining any particular extension, and no guarantee any such extension would confer a patent term for a sufficient period of time to exclude others from commercializing product candidates similar or identical to ours. In the United States, the term of a patent may be eligible for patent term adjustment, which permits patent term restoration as compensation for delays incurred at the USPTO during the patent prosecution process. In addition, for patents that cover an FDA-approved drug, the Drug Price Competition and Patent Term Restoration Act of 1984 (the “Hatch-Waxman Act”) permits a patent term extension of up to five years beyond the expiration of the patent. While the length of the patent term extension is related to the length of time the drug is under regulatory review, patent term extension cannot extend the remaining term of a patent beyond a total of 14 years from the date of product approval, and only one patent per approved drug—and only those claims covering the approved drug, a method for using it or a method for manufacturing it—may be extended under the Hatch-Waxman Act. Similar provisions are available in Europe and other foreign jurisdictions to extend the term of a patent that covers an approved drug. In the future, if and when our products receive FDA approval or applicable approval in other jurisdictions, we expect to apply for patent term extensions on issued patents covering those products in the United States and other jurisdiction where such extensions are available; however, there is no guarantee that the applicable authorities, including the FDA in the United States, will agree with our assessment of whether such extensions should be granted, and if granted, the length of such extensions. We also may not be granted an extension because of, for example, failing to exercise due diligence during the testing phase or regulatory review process, failing to apply within applicable deadlines, failing to apply prior to expiration of relevant patents or otherwise failing to satisfy applicable requirements. If we are unable to obtain patent term extension or the term of any such extension is less than we request, the period during which we can enforce our patent rights for the applicable product candidate will be shortened and our competitors may obtain approval to market competing

products sooner. As a result, our revenue from applicable products could be reduced. Further, if this occurs, our competitors may be able to launch their products earlier by taking advantage of our investment in development and clinical trials along with our clinical and preclinical data. This could have a material adverse effect on our business and ability to achieve profitability.

The life of a patent and the protection it affords are limited. As a result, our owned and in-licensed patent portfolio provides us with limited rights that may not last for a sufficient period of time to exclude others from commercializing product candidates similar or identical to ours. Even if patents covering our product candidates are obtained, once the patent life has expired, we may be open to competition from competitive products, including generics or biosimilars. For example, given the large amount of time required for the research, development, testing and regulatory review of new product candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing products similar or identical to ours.

Changes in U.S. patent law or the patent law of other countries or jurisdictions could diminish the value of patents in general, thereby impairing our ability to protect our current or any future technologies or product candidates.

Changes in either the patent laws or interpretation of the patent laws in the United States or elsewhere could increase the uncertainties and costs surrounding the prosecution of patent applications and the enforcement or defense of issued patents. The United States has enacted and implemented wide-ranging patent reform legislation. On September 16, 2011, the Leahy-Smith America Invents Act (the “Leahy-Smith Act”) was signed into law, which could increase the uncertainties and costs surrounding the prosecution of our owned or in licensed patent applications and the enforcement or defense of any future owned or in-licensed issued patents. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These include provisions that affect the way patent applications are prosecuted, redefine prior art, may affect patent litigation and switch the U.S. patent system from a “first-to-invent” system to a “first-to-file” system. Under a first-to-file system, assuming the other requirements for patentability are met, the first inventor to file a patent application generally will be entitled to the patent on an invention regardless of whether another inventor had made the invention earlier. A third-party that files a patent application in the USPTO after March 16, 2013, but before us, could therefore be awarded a patent covering an invention of ours even if we had made the invention before it was made by such third-party. This will require us to be cognizant of the time from invention to filing of a patent application. Since patent applications in the United States and most other countries are confidential for a period of time after filing or until issuance, we cannot be certain that we or our licensors were the first to either (i) file any patent application related to our product candidates or (ii) invent any of the inventions claimed in our or our licensor’s patents or patent applications. The Leahy-Smith Act also allows third-party submission of prior art to the USPTO during patent prosecution and sets forth additional procedures to challenge the validity of a patent by USPTO-administered post-grant proceedings, including derivation, reexamination, inter partes review, post-grant review and interference proceedings. The USPTO developed additional regulations and procedures to govern administration of the Leahy-Smith Act, and many of the substantive changes to patent law associated with the Leahy-Smith Act, and, in particular, the first-to-file provisions, became effective on March 16, 2013. Accordingly, it is not clear what, if any, impact the Leahy-Smith Act will have on the operation of our business. The Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our owned or in-licensed patent applications and the enforcement or defense of our issued owned or in-licensed patents, all of which could have a material adverse impact on our business prospects and financial condition.

As referenced above, for example, courts in the U.S. continue to refine the heavily fact-and-circumstance-dependent jurisprudence defining the scope of patent protection available for therapeutics, narrowing the scope of patent protection available in certain circumstances or weakening the rights of patent owners in certain situations. This creates uncertainty about our ability to obtain patents in the future and the value of such patents. In addition, the patent positions of companies in the development and commercialization of pharmaceuticals are particularly uncertain. Recent U.S. Supreme Court rulings have narrowed the scope of patent protection available in certain circumstances and weakened the rights of patent owners in certain situations. This combination of events has created uncertainty with respect to the validity and enforceability of patents, once obtained. Depending on future actions by

the U.S. Congress, the federal courts and the USPTO, the laws and regulations governing patents could change in unpredictable ways that could have a material adverse effect on our existing patent portfolio and our ability to protect and enforce our intellectual property in the future. We cannot provide assurance that future developments in U.S. Congress, the federal courts and the USPTO will not adversely impact our owned or in-licensed patents or patent applications. The laws and regulations governing patents could change in unpredictable ways that could weaken our and our licensors' ability to obtain new patents or to enforce our existing owned or in-licensed patents and patents that we might obtain or in-license in the future. Similarly, changes in patent law and regulations in other countries or jurisdictions or changes in the governmental bodies that enforce them or changes in how the relevant governmental authority enforces patent laws or regulations may have a material adverse effect on our and our licensors' ability to obtain new patents or to protect and enforce our owned or in-licensed patents or patents that we may obtain or in-license in the future.

We may be subject to lawsuits or litigation to protect or enforce our patents or other intellectual property, which could result in substantial costs and liability and prevent us from commercializing our potential products.

Third parties may attempt to invalidate our or our licensors' intellectual property rights via procedures including but not limited to patent infringement lawsuits, declaratory judgment actions, interferences, oppositions and inter partes reexamination proceedings before the USPTO, U.S. courts and foreign patent offices or foreign courts. An adverse determination in any such submission or proceeding could reduce the scope or enforceability of, or invalidate, our patent rights, which could adversely affect our competitive position. Because of a lower evidentiary standard in USPTO proceedings compared to the evidentiary standard in United States federal courts necessary to invalidate a patent claim, a third-party could potentially provide evidence in a USPTO proceeding sufficient for the USPTO to hold a claim invalid even though the same evidence would be insufficient to invalidate the claim if first presented in a district court action. Accordingly, a third-party may attempt to use the USPTO procedures to invalidate our patent claims that would not have been invalidated if first challenged by the third-party in a district court action. Even if such rights are not directly challenged, disputes could lead to the weakening of our or our licensors' intellectual property rights. Our defense against any attempt by third parties to circumvent or invalidate our intellectual property rights could be costly to us, could require significant time and attention of our management, and could have a material and adverse impact on our profitability, financial condition and prospects or ability to successfully compete.

We or our licensors may find it necessary to pursue claims or to initiate lawsuits to protect or enforce our owned or in-licensed patent or other intellectual property rights. The cost to us in defending or initiating any litigation or other proceeding relating to our owned or in-licensed patent or other intellectual property rights, even if resolved in our favor, could be substantial, particularly in a foreign jurisdiction, and any litigation or other proceeding would divert our management's attention. Such litigation or proceedings could materially increase our operating losses and reduce the resources available for development activities or any future sales, marketing or distribution activities. Some of our competitors may be able to more effectively sustain the costs of complex patent litigation because they have substantially greater resources. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could delay our research and development efforts and materially limit our ability to continue our operations.

If we or our licensors were to initiate legal proceedings against a third-party to enforce a patent covering one of our product candidates or our technology, the defendant could counterclaim that such patent is invalid or unenforceable. In patent litigation in the United States, defendant counterclaims alleging invalidity or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, for example, claiming patent-ineligible subject matter, lack of novelty, indefiniteness, lack of written description, non-enablement, anticipation or obviousness. Grounds for an unenforceability assertion could be an allegation that someone connected with prosecution of the patent withheld relevant information from the USPTO or made a misleading statement during prosecution. The outcome of such invalidity and unenforceability claims is unpredictable. With respect to the validity question, for example, we cannot be certain that there is no invalidating prior art of which we or our licensors and the patent examiner were unaware during prosecution. If a defendant were to prevail on a legal assertion of invalidity or unenforceability, we could lose at least part, and perhaps all, of the patent protection for one or more of our product candidates or certain aspects of our platform.

technologies. Such a loss of patent protection could have a material adverse effect on our business, financial condition, results of operations and prospects. Patents and other intellectual property rights also will not protect our product candidates and technologies if competitors or third parties design around such product candidates and technologies without legally infringing, misappropriating or violating our owned or in-licensed patents or other intellectual property rights.

Our European patents and patent applications could be challenged in the UPC. Though we may decide to opt out our European patents and patent applications from the UPC, if certain formalities and requirements are not met, our European patents and patent applications could be challenged for non-compliance and brought under the jurisdiction of the UPC. Potentially, a single proceeding under the UPC could result in loss of patent protection in numerous European countries rather than each validated country separately. Such a loss of patent protection could have a material adverse impact on our business and our ability to commercialize or license our technology and product candidates.

We may not be able to protect our intellectual property rights throughout the world, which could negatively impact our business.

Filing, prosecuting and defending patents on current or future technologies or product candidates in all countries throughout the world would be prohibitively expensive, and our intellectual property rights in some countries outside the United States can be less extensive than those in the United States. In addition, the laws of some countries do not protect intellectual property rights to the same extent as laws in the United States. Consequently, we may not be able to prevent third parties from practicing our inventions in all countries outside the United States, or from selling or importing products made using our inventions in and into the United States or other countries. Competitors or other third parties may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products and, further, may export infringing product candidates to territories where we have patent protection or licenses, but enforcement is not as strong as that in the United States. These product candidates may compete with our products, and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Many companies have encountered significant difficulties in protecting and defending such rights in such jurisdictions. The legal systems of certain countries, including certain developing countries, do not favor the enforcement of patents and other intellectual property protection, particularly those relating to biotechnology, which could make it difficult for us to stop the infringement of any owned and in-licensed patents we may obtain in other countries, or the marketing of competing products in violation of our intellectual property and proprietary rights generally. Proceedings to enforce our owned or in-licensed intellectual property and proprietary rights in foreign jurisdictions could result in substantial costs and could divert our efforts and attention from other aspects of our business. Such proceedings could also put any owned or in-licensed patents at risk of being invalidated or interpreted narrowly, could put our owned or in-licensed patent applications at risk of not issuing, and could provoke third parties to assert claims against us or our licensors. We or our licensors may not prevail in any lawsuits or other adversarial proceedings that we or our licensors initiate, and the damages or other remedies awarded, if any, may not be commercially meaningful. Accordingly, our and our licensors' efforts to enforce such intellectual property and proprietary rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or in-license.

Further, many countries have compulsory licensing laws under which a patent owner may be compelled to grant licenses to third parties. In addition, many countries limit the enforceability of patents against government agencies or government contractors. In these countries, the patent owner may have limited remedies, which could materially diminish the value of its patents. If we or any of our licensors are forced to grant a license to third parties with respect to any patents relevant to our business, our competitive position in the relevant jurisdiction may be impaired and our business prospects may be materially adversely affected.

Third parties may initiate legal proceedings alleging that we are infringing, misappropriating or violating their intellectual property rights, the outcome of which would be uncertain and could have a material adverse impact on the success of our business.

Our commercial success depends, in part, upon our ability or the ability of our potential future collaborators to develop, manufacture, market and sell our current or any future product candidates and to use our proprietary technologies without infringing, misappropriating or violating the proprietary and intellectual property rights of third parties. There is a substantial amount of litigation, both within and outside the United States, involving patent and other intellectual property rights in the biotechnology and pharmaceutical industries, including patent infringement lawsuits, interferences, oppositions and inter partes review proceedings before the USPTO, U.S. courts, foreign patent offices or foreign courts. As the field of gene and cell therapies advances, patent applications are being processed by national patent offices around the world. There is uncertainty about which patents will issue, and, if they do, there is uncertainty as to when, to whom, and with what claims. Any claims of patent infringement asserted by third parties would be time consuming and could:

- result in costly litigation that may cause negative publicity;
- divert the time and attention of our technical personnel and management;
- cause development delays;
- prevent us from commercializing any of our product candidates until the asserted patent expires or is held finally invalid or not infringed in a court of law;
- require us to develop non-infringing technology, which may not be possible on a cost-effective basis;
- subject us to substantial damages for infringement, which we may have to pay if a court decides that the product candidate or technology at issue infringes on or violates the third-party's rights, and, if the court finds that the infringement was willful, we could be ordered to pay treble damages and the patent owner's attorneys' fees; or
- require us to enter into royalty or licensing agreements, which may not be available on commercially reasonable terms, or at all, or which might be non-exclusive, which could result in our competitors gaining access to the same technology.

Some of our competitors may be able to sustain the costs of complex patent litigation more effectively than we can because they have substantially greater resources. In addition, any uncertainties resulting from the initiation and continuation of any litigation could have a material adverse effect on our ability to raise the funds necessary to continue our operations or could otherwise have a material adverse effect on our business, results of operations, financial condition and prospects.

Numerous U.S. and foreign issued patents and pending patent applications, which are owned by third parties, exist in the fields in which we are pursuing development candidates. As the biotechnology and pharmaceutical industries expand and more patents are issued, the risk increases that we may be subject to claims of infringement of the patent rights of third parties. Because patent applications can take many years to issue, there may also be currently pending patent applications that may later result in issued patents that our technology or product candidates may infringe. Further, we cannot guarantee that we are aware of all patents and patent applications potentially relevant to our technology or products. We may not be aware of potentially relevant third-party patents or applications for several reasons. For example, U.S. applications filed before November 29, 2000, and certain U.S. applications filed after that date that will not be filed outside the U.S. remain confidential until a patent issues. Patent applications filed in the United States (after November 29, 2000) and elsewhere are published approximately 18 months after the earliest filing for which priority is claimed, with such earliest filing date being commonly referred to as the priority date. Therefore, patent applications covering our product candidates or platform technologies could have been filed by others without our knowledge. Any such patent application may have priority over our patent applications or patents, which could require us to obtain rights to issued patents covering such technologies.

Additionally, claims pending in patent applications that have been published can, subject to certain limitations, be later amended in a manner that could cover our platform, our product candidates or the use of our technologies.

Although no third-party has asserted a claim of patent infringement against us as of the date of this Annual Report, others may hold proprietary rights that could prevent our product candidates from being marketed. We or our licensors, or any future strategic collaborator, may be party to, or be threatened with, adversarial proceedings or litigation regarding intellectual property rights with respect to our current or any potential future product candidates and technologies, including derivation, reexamination, inter partes review or post-grant review before the USPTO and similar proceedings in jurisdictions outside of the United States such as opposition proceedings. In some instances, we may be required to indemnify our licensors for the costs associated with any such adversarial proceedings or litigation. Third parties may assert infringement claims against us, our licensors or our strategic collaborators based on existing patents or patents that may be granted in the future, regardless of their merit. There is a risk that third parties may choose to engage in litigation or other adversarial proceedings with us, our licensors or our strategic collaborators to enforce or otherwise assert their patent rights. Even if we believe such claims are without merit, a court of competent jurisdiction could hold that these third-party patents are not invalid, enforceable and infringed, which could have a material adverse impact on our ability to utilize our platform technologies or to commercialize our current or any future product candidates. In order to successfully challenge the validity of any such U.S. patent in federal court, we would need to overcome a presumption of validity by presenting clear and convincing evidence of invalidity. There is no assurance that a court of competent jurisdiction, even if presented with evidence we believe to be clear and convincing, would invalidate the claims of any such U.S. patent.

Further, we cannot guarantee that we will be able to successfully settle or otherwise resolve such adversarial proceedings or litigation. If we are unable to successfully settle future claims on terms acceptable to us, we may be required to engage in or to continue costly, unpredictable and time-consuming litigation and may be prevented from or experience substantial delays in marketing our product candidates. If we, or our licensors, or any future strategic collaborators are found to infringe, misappropriate or violate a third-party patent or other intellectual property rights, we could be required to pay damages, including treble damages and attorney's fees, if we are found to have willfully infringed. In addition, we, or our licensors, or any future strategic collaborators may choose to seek, or be required to seek, a license from a third-party, which may not be available on commercially reasonable terms, if at all. Even if a license can be obtained on commercially reasonable terms, the rights may be non-exclusive, which could give our competitors access to the same technology or intellectual property rights licensed to us, and we could be required to make substantial licensing and royalty payments. Parties making claims against us may obtain injunctive or other equitable relief, which could effectively block our ability to further develop and commercialize our current or future product candidates. We could be forced, including by court order, to cease utilizing, developing, manufacturing and commercializing our platform technologies or product candidates deemed to be infringing. We may be forced to redesign current or future technologies or products. Defense of these claims, regardless of their merit, would involve substantial litigation expense and would be a substantial diversion of employee resources from our business. Any of the foregoing could have a material adverse effect on our ability to generate revenue or achieve profitability and possibly prevent us from generating revenue sufficient to sustain our operations.

Thus, it is possible that one or more third parties will hold patent rights to which we will need a license, which may not be available on reasonable terms or at all. If such third parties refuse to grant us a license to such patent rights on reasonable terms or at all, we may be required to expend significant time and resources to redesign our technology, product candidates or the methods for manufacturing our product candidates, or to develop or license replacement technology, all of which may not be commercially or technically feasible. In such case, we may not be able to market such technology or product candidates and may not be able to perform research and development or other activities covered by these patents. This could have a material adverse effect on our ability to commercialize our product candidates and our business and financial condition.

Lastly, if our technology or products are found to infringe the intellectual property rights of third parties, these third parties may assert infringement claims against our licensees and other parties with whom we have business relationships, and we may be required to indemnify those parties for any damages they suffer as a result of these claims. The claims may require us to initiate or defend protracted and costly litigation on behalf of licensees and

other parties regardless of the merits of these claims. If any of these claims succeed, we may be forced to pay damages on behalf of those parties or may be required to obtain licenses for the products they use.

Intellectual property litigation may lead to unfavorable publicity that harms our reputation and causes the market price of our shares of our common stock to decline.

During the course of any intellectual property litigation, there could be public announcements of the initiation of the litigation as well as results of hearings, rulings on motions and other interim proceedings or developments in the litigation. If securities analysts or investors regard these announcements as negative, the perceived value of our existing product candidates, approved products, programs or intellectual property could be diminished. Accordingly, the market price of shares of our common stock may decline. Such announcements could also harm our reputation or the market for our future products, which could have a material adverse effect on our business.

Intellectual property rights of third parties could adversely affect our ability to commercialize our current or future technologies or product candidates, and we might be required to litigate or obtain licenses from third parties to develop or market our current or future technologies or product candidates, which may not be available on commercially reasonable terms or at all.

Because the gene and cell therapy landscape is still evolving, it is difficult to conclusively assess our freedom to operate without infringing, misappropriating or violating third-party rights. The scope of a patent claim is determined by an interpretation of the law, the written disclosure in a patent and the patent's prosecution history. Our interpretation of the relevance or the scope of a patent or a pending application may be incorrect. For example, we may incorrectly determine that our products are not covered by a third-party patent or may incorrectly predict whether a third-party's pending application will issue with claims of relevant scope. Also, our determination of the expiration date of any patent in the United States or abroad that we consider relevant may be incorrect.

There are numerous companies that have pending patent applications and issued patents broadly covering gene and cell therapy generally or covering related inventions that may be relevant for product candidates that we wish to develop. We are aware of third-party patents and patent applications that claim aspects of our current or potential future product candidates and modifications that we may need to apply to our current or potential future product candidates. There are also many issued patents that claim inventions that may be relevant to products we wish to develop. The holders of such patents may be able to block our ability to develop and commercialize the applicable product candidate unless we obtain a license or until such patent expires. In either case, such a license may not be available on commercially reasonable terms or at all, or it may be non-exclusive, which could result in our competitors gaining access to the same intellectual property.

Our competitive position may materially suffer if patents issued to third parties or other third-party intellectual property rights cover our current or future technologies, product candidates or elements thereof or our manufacture or uses relevant to our development plans. In such cases, we may not be in a position to develop or commercialize current or future technologies or product candidates unless we successfully pursue litigation to narrow or invalidate the third-party intellectual property right concerned, or enter into a license agreement with the intellectual property right holder, if available on commercially reasonable terms. There may be issued patents of which we are not aware, held by third parties that, if found to be valid and enforceable, could be alleged to be infringed by our current or future technologies or product candidates. There also may be pending patent applications of which we are not aware that may result in issued patents, which could be alleged to be infringed by our current or future technologies or product candidates. If such an infringement claim should successfully be brought, we may be required to pay substantial damages or be forced to abandon our current or future technologies or product candidates or to seek a license from any patent holders. No assurances can be given that a license will be available on commercially reasonable terms, if at all.

Third-party intellectual property right holders may also actively bring infringement, misappropriation, or other claims alleging violations of intellectual property rights against us. We cannot guarantee that we will be able to successfully settle or otherwise resolve such claims. If we are unable to successfully settle future claims on terms acceptable to us, we may be required to engage in or to continue costly, unpredictable and time-consuming litigation

and may be prevented from or experience substantial delays in marketing our product candidates. If we fail in any such dispute, in addition to being forced to pay damages, we may be temporarily or permanently prohibited from commercializing any of our current or future technologies or product candidates that are held to be infringing, misappropriating or otherwise violating third-party intellectual property rights. We might, if possible, also be forced to redesign current or future technologies or product candidates so that we no longer infringe, misappropriate or violate the third-party intellectual property rights. Any of these events, even if we were ultimately to prevail, could require us to divert substantial financial and management resources that we would otherwise be able to devote to our business, which could have a material adverse effect on our financial condition and results of operations.

If we are unable to protect the confidentiality of our trade secrets, our business and competitive position would be harmed.

In addition to seeking patent protection for certain aspects of our current or future technologies and product candidates, we rely on trade secrets, including confidential and unpatented know-how, technology and other proprietary information, to maintain our competitive position and to protect aspects of our business that are not amenable to, or that we do not consider appropriate for, patent protection. Elements of our product candidates, including processes for their preparation and manufacture, may involve proprietary know-how, information, or technology that is not covered by patents, and thus for these aspects we may consider trade secrets and know-how to be our primary intellectual property. Our trade secrets include, for example, certain program specific synthesis, formulations, patient selection strategies and certain aspects of our research.

Trade secrets and know-how can be difficult to protect. We seek to protect trade secrets and confidential and unpatented know-how, in part, by entering into non-disclosure and confidentiality agreements with parties who have access to such knowledge, such as our employees, corporate collaborators, outside scientific collaborators, contract research organizations, contract manufacturers, consultants, advisors and other third parties. We also enter into confidentiality and invention or patent assignment agreements with our employees and consultants under which they are obligated to maintain confidentiality and to assign their inventions to us. However, we cannot be certain that such agreements have been entered into with all relevant parties, and we cannot be certain that our trade secrets and other confidential proprietary information will not be disclosed or that competitors will not otherwise gain access (such as through a cybersecurity incident or breach) to our trade secrets or independently develop substantially equivalent information and techniques. Moreover, individuals with whom we have such agreements may not comply with their terms. Any of these parties may breach such agreements and disclose our proprietary information, including our trade secrets, and we may not be able to obtain adequate remedies for any such breaches. In addition, we take other appropriate precautions, such as physical and technological security measures, to guard against misappropriation of our proprietary technology by third parties.

Enforcing a claim that a party illegally disclosed or misappropriated a trade secret, or securing title to an employee-or consultant-developed trade secret if a dispute arises, is difficult, expensive and time-consuming, and the outcome is unpredictable. In addition, some courts in the United States and certain foreign jurisdictions disfavor or are unwilling to protect trade secrets. We may need to share our proprietary information, including trade secrets, with future business partners, collaborators, contractors and others located in countries at heightened risk of theft of trade secrets, including through direct intrusion by private parties or foreign actors, and those affiliated with or controlled by state actors. Further, if any of our trade secrets were to be lawfully obtained or independently developed by a competitor, we would have no right to prevent that competitor from using the technology or information to compete with us. If, in the future, any of our trade secrets were to be disclosed to or independently developed by a competitor, our competitive position would be materially and adversely harmed.

We may be subject to claims that we or our employees or consultants have wrongfully used or disclosed alleged trade secrets or other proprietary information of third parties, including our employees' or consultants' former employers or their clients.

We are party to various contracts under which we are obligated to maintain the confidentiality of trade secrets or other confidential and proprietary information of third parties, including our licensors and strategic partners. In addition, many of our employees or consultants and our licensors' employees or consultants were previously

employed at universities or biotechnology or biopharmaceutical companies, including our competitors or potential competitors. We may be subject to claims that one or more of these employees or consultants or we have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of third parties, including former employers of our employees and consultants. Litigation or arbitration may be necessary to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel or may be enjoined from using such intellectual property. Any such proceedings and possible aftermath would likely divert significant resources from our core business, including distracting our technical and management personnel from their normal responsibilities. A loss of key research personnel or their work product could limit our ability to commercialize, or prevent us from commercializing, our current or future technologies or product candidates, which could materially harm our business. Even if we are successful in defending against any such claims, litigation or arbitration could result in substantial costs and could be a distraction to management.

We may be subject to claims challenging the inventorship of our patents and other intellectual property.

We or our licensors may be subject to claims that former employees, collaborators or other third parties have an interest in our owned or in-licensed patents as an inventor or co-inventor, or in our trade secrets or other intellectual property as a contributor to its development. The failure to name the proper inventors on a patent application can result in the patents issuing thereon being unenforceable. Inventorship disputes may arise from conflicting views regarding the contributions of different individuals named as inventors, the effects of foreign laws where foreign nationals are involved in the development of the subject matter of the patent, conflicting obligations of third parties involved in developing our product candidates or as a result of questions regarding co-ownership of potential joint inventions. For example, we or our licensors may have inventorship disputes arise from conflicting obligations of employees, consultants or others who are involved in developing our product candidates. Litigation may be necessary to defend against these and other claims challenging inventorship or our or our licensors' ownership of our owned or in-licensed patents, trade secrets or other intellectual property. Alternatively, or additionally, we may enter into agreements to clarify the scope of our rights in such intellectual property. If we or our licensors fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights, such as exclusive ownership of, or right to use, intellectual property that is important to our product candidates. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management and other employees.

Also, our licensors may have relied on third-party consultants or collaborators or on funds from third parties, such as the U.S. government, such that our licensors are not the sole and exclusive owners of the patents we in-licensed. If other third parties have ownership rights or other rights to our in-licensed patents, they may be able to license such patents to our competitors, and our competitors could market competing products and technology. This could have a material adverse effect on our competitive position, business, financial condition, results of operations and prospects.

Further, while it is our policy to require our employees and contractors who may be involved in the conception or development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who, in fact, conceives or develops intellectual property that we regard as our own. The assignment of intellectual property rights may not be self-executing, or the assignment agreements may be breached, and we may be forced to bring claims against third parties, or defend claims that they may bring against us, to determine the ownership of what we regard as our intellectual property. Such claims could have a material adverse effect on our business, financial condition, results of operations and prospects.

Obtaining and maintaining our patent protection depends on compliance with various procedural, document submission, fee payment and other requirements imposed by government patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.

Periodic maintenance fees, renewal fees, annuity fees and various other government fees on patents or applications will be due to be paid to the USPTO and various government patent agencies outside of the United

States over the lifetime of our owned and in-licensed patents or applications and any patent rights we may own or in-license in the future. The USPTO and various non-U.S. patent offices require compliance with several procedural, documentary, fee payment and other similar provisions during the patent application process. We employ reputable law firms and other professionals to help us comply with these requirements, and we are also dependent on our licensors to take the necessary action to comply with these requirements with respect to our in-licensed intellectual property. In many cases, an inadvertent lapse, including due to the effect of a global health emergency such as the COVID-19 pandemic on us, our patent counsel or other applicable patent maintenance vendors, can be cured by payment of a late fee or by other means in accordance with the applicable rules. There are situations, however, in which non-compliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. Non-compliance events that could result in abandonment or lapse of a patent or patent application include, but are not limited to, failure to respond to official actions within prescribed time limits, non-payment of fees and failure to properly legalize and submit formal documents. In such an event, potential competitors might be able to enter the market with similar or identical product candidates or platforms, which could have a material adverse effect on our business prospects and financial condition.

If our trademarks and trade names are not adequately protected, then we may not be able to build name recognition in our markets of interest and our business may be adversely affected.

We use and will continue to use registered and/or unregistered trademarks or trade names to brand and market ourselves and our products. Our trademarks or trade names may be challenged, infringed, circumvented, declared generic or determined to be infringing on other marks. We may not be able to protect our rights to these trademarks and trade names or may be forced to stop using these names, which we use for name recognition by potential collaborators or customers in our markets of interest. At times, competitors may adopt trade names or trademarks similar to ours, thereby impeding our ability to build brand identity and possibly leading to market confusion. In addition, there could be potential trade name or trademark infringement claims brought by owners of other trademarks or trademarks that incorporate variations of our registered or unregistered trademarks or trade names. Over the long term, if we are unable to establish name recognition based on our trademarks and trade names, we may not be able to compete effectively, and our business may be materially adversely affected.

We may also license our trademarks and trade names to third parties, such as distributors. Though these license agreements may provide guidelines for how our trademarks and trade names may be used, a breach of these agreements or misuse of our trademarks and trade names by our licensees may jeopardize our rights in or diminish the goodwill associated with our trademarks and trade names.

Intellectual property rights do not necessarily address all potential threats to our business.

The degree of future protection afforded by our intellectual property rights is uncertain because intellectual property rights have limitations and may not adequately protect our business. The following examples are illustrative:

- others may be able to create gene circuit technologies that are similar to our technologies or our product candidates, but that are not covered by the claims of any patents that we own, license or control;
- we or any strategic collaborators might not have been the first to make the inventions covered by the issued patents or pending patent applications that we own, license or control;
- we or our licensors might not have been the first to file patent applications covering certain of our owned and in-licensed inventions;
- others may independently develop the same, similar, or alternative technologies without infringing, misappropriating or violating our owned or in-licensed intellectual property rights;
- it is possible that our owned or in-licensed pending patent applications will not lead to issued patents;

- issued patents that we own, in-license, or control may not provide us with any competitive advantages, or may be narrowed or held invalid or unenforceable, including as a result of legal challenges;
- our competitors might conduct research and development activities in the United States and other countries that provide a safe harbor from patent infringement claims for certain research and development activities, as well as in countries where we do not have patent rights, and may then use the information learned from such activities to develop competitive products for sale in our major commercial markets;
- we may choose not to file a patent application in order to maintain certain trade secrets or know-how, and a third-party may subsequently file a patent application covering such trade secrets or know-how; and
- the patents of others may have an adverse effect on our business.

Should any of these events occur, they could have a material adverse impact on our business, financial condition, results of operations and prospects.

Risks Related to Government Regulation

Clinical development includes a lengthy and expensive process with an uncertain outcome, and results of earlier studies and trials may not be predictive of future trial results.

All of our current product candidates are in preclinical or early clinical development and their risk of failure is high. It is impossible to predict when or if our candidates or any potential future product candidates will prove effective in humans or will receive regulatory approval. Before obtaining marketing approval from regulatory authorities for the sale of any product candidate, we must complete preclinical studies for our current product candidates and then conduct extensive clinical trials to demonstrate the safety, purity and potency, or efficacy of that product candidate in humans. Clinical testing is expensive and can take many years to complete, and its outcome is inherently uncertain. Failure can occur at any time during the development process. The results of preclinical studies and clinical trials of any of our current or potential future product candidates may not be predictive of the results of later-stage clinical trials. Product candidates in later stages of clinical trials may fail to show the desired safety and efficacy traits despite having progressed through preclinical studies and initial clinical trials. A number of companies in the pharmaceutical industry have suffered significant setbacks in advanced clinical trials due to lack of efficacy or safety profiles, notwithstanding promising results in earlier trials.

We may experience delays in completing our preclinical studies and initiating, conducting or completing our clinical trials. We do not know whether planned preclinical studies and clinical trials will be completed on schedule or at all, or whether planned clinical trials will begin on time, need to be redesigned, enroll patients on time or be completed on schedule, if at all. Our development programs may be delayed for a variety of reasons, including delays related to:

- the FDA or other regulatory authorities requiring us to submit additional data or imposing other requirements before permitting us to initiate a clinical trial;
- obtaining regulatory approval to commence a clinical trial;
- reaching agreement on acceptable terms with prospective CROs and clinical trial sites, the terms of which can be subject to extensive negotiation and may vary significantly among different CROs and clinical trial sites;
- obtaining IRB or ethics committee approval at each clinical trial site;
- recruiting suitable patients to participate in a clinical trial;
- having patients complete a clinical trial or return for post-treatment follow-up;

- clinical trial sites deviating from trial protocol or dropping out of a trial;
- the FDA placing the clinical trial on hold;
- subjects failing to enroll or remain in our trial at the rate we expect;
- subjects choosing an alternative treatment for the indication for which we are developing or other product candidates, or participating in competing clinical trials;
- lack of adequate funding to continue the clinical trial;
- subjects experiencing severe or unexpected drug-related adverse events;
- any changes to our manufacturing process that may be necessary or desired;
- adding new clinical trial sites; and
- manufacturing sufficient quantities of our product candidates for use in clinical trials.

Furthermore, we expect to rely on our CROs and clinical trial sites to ensure the proper and timely conduct of our clinical trials and, while we expect to enter into agreements governing their committed activities, we have limited influence over their actual performance.

We could encounter delays if prescribing physicians encounter unresolved ethical issues associated with enrolling patients in clinical trials of our current or potential future product candidates in lieu of prescribing existing treatments that have established safety and efficacy profiles. Further, a clinical trial may be suspended or terminated by us, our collaborators, the IRBs of the institutions in which such trials are being conducted, the Data Safety Monitoring Board for such trial or by the FDA or other regulatory authorities due to a number of factors, including failure to conduct the clinical trial in accordance with regulatory requirements or our clinical protocols, inspection of the clinical trial operations or trial site by the FDA or other regulatory authorities resulting in the imposition of a clinical hold, unforeseen safety issues or adverse side effects, failure to demonstrate a benefit from using a drug or therapeutic biologic, changes in governmental regulations or administrative actions or lack of adequate funding to continue the clinical trial.

Moreover, principal investigators for our clinical trials may serve as scientific advisors or consultants to us from time to time and receive cash or equity compensation in connection with such services. If these relationships and any related compensation result in perceived or actual conflicts of interest, or a regulatory authority concludes that the financial relationship may have affected the interpretation of the trial, the integrity of the data generated at the applicable clinical trial site may be questioned and the utility of the clinical trial itself may be jeopardized, which could result in the delay or rejection of the marketing application we submit. Any such delay or rejection could prevent or delay us from commercializing our current or future product candidates.

If we experience delays in the completion of, or termination of, any clinical trial of any of our current or potential future product candidates, the commercial prospects of such product candidate will be harmed, and our ability to generate product revenue from such product candidates will be delayed. In addition, any delays in completing our clinical trials will increase our costs, slow our product development and approval process and jeopardize our ability to commence product sales and generate revenue. Any of these occurrences may have a material adverse effect on our business, financial condition, results of operations and prospects. In addition, many of the factors that cause, or lead to, a delay in the commencement or completion of clinical trials may also ultimately lead to the denial of regulatory approval of our current or potential future product candidates.

We may be unable to obtain U.S. or foreign regulatory approval and, as a result, be unable to commercialize our current or potential future product candidates.

Our current and any potential future product candidates are subject to extensive governmental regulations relating to, among other things, research, testing, development, manufacturing, safety, efficacy, approval, recordkeeping, reporting, labeling, storage, packaging, advertising and promotion, pricing, marketing and distribution of therapeutic biologics. Rigorous preclinical testing and clinical trials and an extensive regulatory approval process are required to be successfully completed in the U.S. and in many foreign jurisdictions before a new drug or therapeutic biologic can be marketed. Satisfaction of these and other regulatory requirements is costly, time-consuming, uncertain and subject to unanticipated delays. It is possible that none of the product candidates we may develop will obtain the regulatory approvals necessary for us or our potential future collaborators to begin selling them.

We have very limited experience in conducting and managing the clinical trials necessary to obtain regulatory approvals, including approval by the FDA and other regulatory authorities. The time required to obtain FDA and other approvals is unpredictable but typically takes many years following the commencement of clinical trials, depending upon the type, complexity and novelty of the product candidate. The standards that the FDA and its foreign counterparts use when regulating us require judgment and can change, which makes it difficult to predict with certainty how they will be applied. Any analysis we perform of data from preclinical and clinical activities is subject to confirmation and interpretation by regulatory authorities, which could delay, limit or prevent regulatory approval. We may also encounter unexpected delays or increased costs due to new government regulations, for example, from future legislation or administrative action, or from changes in regulatory policy during the period of product development, clinical trials and FDA regulatory review in the United States and other jurisdictions. It is impossible to predict whether legislative changes will be enacted, or whether FDA or foreign regulations, guidance or interpretations will be changed, or what the impact of such changes, if any, may be.

Any delay or failure in obtaining required approvals could have a material adverse effect on our ability to generate revenue from the particular product candidate for which we are seeking approval. Further, we and our potential future collaborators may never receive approval to market and commercialize any product candidate. Even if we or a potential future collaborator obtains regulatory approval, the approval may be for targets, disease indications or patient populations that are not as broad as we intended or desired or may require labeling that includes significant use or distribution restrictions or safety warnings.

Once a product obtains regulatory approval, numerous post approval requirements apply, including periodic monitoring and reporting obligations, review of promotional material, reports on ongoing clinical trials and adverse events and inspections of manufacturing facilities. In addition, material changes to approved products, including any changes to the manufacturing process or labeling, require further review by the appropriate authorities before marketing. Approvals may also be withdrawn or revoked due to safety, effectiveness or potency concerns, including as a result of adverse events reported in patients or ongoing clinical trials, or failure to comply with cGMP. In addition to revocation or withdrawal of approvals, we and our partners may be subject to warnings, fines, recalls, criminal prosecution or other sanctions if we fail to comply with regulatory requirements. If we or our partners are unable to obtain or maintain regulatory approvals for our products and product candidates, our business, financial position, results of operations and future growth prospects will be negatively impacted and we or our partners may be subject to sanctions. If any of our product candidates prove to be ineffective, unsafe or commercially unviable, we may have to re-engineer our current or potential future product candidates, and our entire pipeline could have little, if any, value, which could require us to change our focus and approach to product candidate discovery and therapeutic development, which would have a material adverse effect on our business, financial condition, results of operations and prospects.

We will also be subject to numerous foreign regulatory requirements governing, among other things, the conduct of clinical trials, manufacturing and marketing authorization, pricing and third-party reimbursement. The foreign regulatory approval process varies among countries and may include all of the risks associated with FDA approval described above as well as risks attributable to the satisfaction of local regulations in foreign jurisdictions. Moreover, the time required to obtain approval may differ from that required to obtain FDA approval.

Obtaining and maintaining regulatory approval of our product candidates in one jurisdiction does not mean that we will be successful in obtaining regulatory approval of our product candidates in other jurisdictions.

If we succeed in developing any products, we intend to market them in the United States as well as the European Union and other foreign jurisdictions. In order to market and sell our products in other jurisdictions, we must obtain separate marketing approvals and comply with numerous and varying regulatory requirements.

Obtaining and maintaining regulatory approval of our product candidates in one jurisdiction does not guarantee that we will be able to obtain or maintain regulatory approval in any other jurisdiction, but a failure or delay in obtaining regulatory approval in one jurisdiction may have a negative effect on the regulatory approval process in others. For example, even if the FDA or EMA grants marketing approval of a product candidate, comparable regulatory authorities in foreign jurisdictions must also approve the manufacturing, marketing and promotion of the product candidate in those countries. Approval procedures vary among jurisdictions and can involve requirements and administrative review periods different from those in the United States, including additional preclinical studies or clinical trials as clinical trials conducted in one jurisdiction may not be accepted by regulatory authorities in other jurisdictions. In many jurisdictions outside the United States, a product candidate must be approved for reimbursement before it can be approved for sale in that jurisdiction. In some cases, the price that we intend to charge for our products is also subject to approval.

Obtaining foreign regulatory approvals and compliance with foreign regulatory requirements could result in significant delays, difficulties and costs for us and could delay or prevent the introduction of our products in certain countries. If we or any partner we work with fail to comply with the regulatory requirements in international markets or fail to receive applicable marketing approvals, our target market will be reduced, and our ability to realize the full market potential of our product candidates will be harmed.

We may conduct certain of our clinical trials for our product candidates outside of the United States. However, the FDA and other foreign equivalents may not accept data from such trials, in which case our development plans will be delayed, which could materially harm our business.

We may choose to conduct one or more of our clinical trials for our product candidates outside the United States. Although the FDA may accept data from clinical trials conducted outside the United States, acceptance of this data is subject to certain conditions imposed by the FDA. In cases where data from foreign clinical trials are intended to serve as the basis for marketing approval in the United States, the FDA will not approve the application on the basis of foreign data alone unless (i) those data are applicable to the U.S. population and U.S. medical practice; (ii) the studies were performed by clinical investigators of recognized competence; and (iii) the data are considered valid without the need for an on-site inspection by the FDA or, if the FDA considers such an inspection to be necessary, the FDA is able to validate the data through an on-site inspection or other appropriate means. For studies that are conducted only at sites outside of the United States and not subject to an IND, the FDA requires the clinical trial to have been conducted in accordance with GCPs, and the FDA must be able to validate the data from the clinical trial through an on-site inspection if it deems such inspection necessary. For such studies not subject to an IND, the FDA generally does not provide advance comment on the clinical protocols for the studies, and therefore there is an additional potential risk that the FDA could determine that the study design or protocol for a non-U.S. clinical trial was inadequate, which could require us to conduct additional clinical trials. There can be no assurance the FDA will accept data from clinical trials conducted outside of the United States. If the FDA does not accept data from our clinical trials of our product candidates, it would likely result in the need for additional clinical trials, which would be costly and time consuming and delay or permanently halt our development of our product candidates.

Many foreign regulatory bodies have similar approval requirements. In addition, such foreign trials would be subject to the applicable local laws of the foreign jurisdictions where the trials are conducted. There can be no assurance that the FDA or any similar foreign regulatory authority will accept data from trials conducted outside of the United States or the applicable jurisdiction. If the FDA or any similar foreign regulatory authority does not accept such data, it would result in the need for additional trials, which would be costly and time-consuming and

delay aspects of our business plan, and which may result in our product candidates not receiving approval or clearance for commercialization in the applicable jurisdiction.

Conducting clinical trials outside the United States also exposes us to additional risks, including risks associated with:

- additional foreign regulatory requirements;
- foreign exchange fluctuations and tariffs;
- compliance with foreign manufacturing, customs, shipment, import and export controls and storage requirements;
- cultural differences in medical practice and clinical research; and
- diminished protection of intellectual property in some countries.

Even if we receive regulatory approval for any of our current or potential future product candidates, we will be subject to ongoing regulatory obligations and continued regulatory review, which may result in significant additional expense. Additionally, our current or potential future product candidates, if approved, could be subject to labeling and other restrictions and market withdrawal and we may be subject to penalties if we fail to comply with regulatory requirements or experience unanticipated problems with our products.

Any regulatory approvals that we or potential future collaborators obtain for any of our current or potential future product candidates will be subject to limitations on the approved indicated uses for which a product may be marketed or may be subject to the conditions of approval, or contain requirements for potentially costly post-marketing testing, and surveillance to monitor the safety and efficacy of such product candidate. In addition, if the FDA or any other regulatory authority approves any of our current or potential future product candidates, the manufacturing processes, labeling, packaging, distribution, adverse event reporting, storage, import, export, advertising, promotion and recordkeeping for such product will be subject to extensive and ongoing regulatory requirements. These requirements include submissions of safety and other post-marketing information and reports, registration, as well as continued compliance with cGMP and good clinical practices for any clinical trials that we conduct post-approval. In addition, manufacturers and manufacturers' facilities are required to comply with extensive FDA and comparable foreign regulatory authority requirements, including registering their establishments with the FDA and certain state agencies, ensuring that quality control and manufacturing procedures conform to cGMP and cGTP regulations and applicable product tracking and tracing requirements. Manufacturing facilities are subject to periodic announced and unannounced inspections by the FDA and certain state agencies for compliance with cGMP requirements and other regulatory requirements. Accordingly, manufacturers must continue to expend time, money and effort in the area of production and quality control to maintain cGMP compliance. The discovery of violative conditions, including failure to conform to cGMP regulations, could result in enforcement actions.

Later discovery of previously unknown problems with a product candidate, including adverse events of unanticipated severity or frequency, or with our third-party manufacturers or manufacturing processes, or failure to comply with regulatory requirements, may result in, among other things:

- restrictions on the marketing or manufacturing of the product candidate, withdrawal of the product candidate from the market or voluntary or mandatory product recalls;
- fines, warning letters, untitled letters or holds on clinical trials;
- refusal by the FDA to approve pending applications or supplements to approved applications filed by us or our strategic collaborators;
- suspension or revocation of product approvals;

- suspension of any ongoing clinical trials;
- product seizure or detention or refusal to permit the import or export of products; and
- injunctions or the imposition of civil or criminal penalties or monetary fines.

The occurrence of any event or penalty described above may inhibit our ability to commercialize our product candidates and generate revenue.

The FDA has the authority to require a risk evaluation and mitigation strategy (“REMS”) as part of a biologics license application, or BLA, or after approval, which may impose further requirements or restrictions on the distribution or use of an approved product, such as limiting prescribing to certain physicians or medical centers that have undergone specialized training, limiting treatment to patients who meet certain safe-use criteria and requiring treated patients to enroll in a registry.

Furthermore, the FDA strictly regulates marketing, labeling, advertising and promotion of products that are placed on the market. Products may be promoted only for the approved indications and in accordance with the provisions of the approved label. While physicians may prescribe, in their independent professional medical judgment, products for off-label uses as the FDA does not regulate the behavior of physicians in their choice of drug treatments, the FDA does restrict a manufacturer’s communications on the subject of off-label use of their products. Companies may only share truthful and not misleading information that is otherwise consistent with a product’s FDA approved labeling. The FDA and other authorities actively enforce the laws and regulations prohibiting the promotion of off-label uses and a company that is found to have improperly promoted off-label uses may be subject to significant liability including, among other things, adverse publicity, warning letters, corrective advertising and potential civil and criminal penalties. The federal government has levied large civil and criminal fines against companies for alleged improper promotion of off-label use and has enjoined companies from engaging in off-label promotion.

The FDA and other regulatory authorities have also required that companies enter into consent decrees or permanent injunctions under which specified promotional conduct is changed or curtailed.

Occurrence of any of the foregoing could have a material adverse effect on our business and results of operations. The FDA’s and other regulatory authorities’ policies may change, and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our product candidates. In addition, the U.S. Supreme Court’s July 2024 decision to overturn established case law giving deference to regulatory agencies’ interpretations of ambiguous statutory language has introduced uncertainty regarding the extent to which the FDA’s regulations, policies and decisions may become subject to increasing legal challenges, delays, and/or changes. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the United States or abroad. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained and we may not achieve or sustain profitability, which would adversely affect our business.

Any product candidates for which we intend to seek approval as biologic products may face competition sooner than anticipated.

The Affordable Care Act includes a subtitle called the Biologics Price Competition and Innovation Act of 2009, or BPCIA, which created an abbreviated approval pathway for biological products that are biosimilar to or interchangeable with an FDA-licensed reference biological product. Under the BPCIA, an application for a biosimilar product may not be submitted to the FDA until four years following the date that the reference product was first licensed by the FDA. In addition, the approval of a biosimilar product may not be made effective by the FDA until 12 years from the date on which the reference product was first licensed. During this 12-year period of exclusivity, another company may still market a competing version of the reference product if the FDA approves a full BLA for the competing product containing the sponsor’s own preclinical data and data from adequate and well-

controlled clinical trials to demonstrate the safety, purity and potency of its product. The law is complex. The BPCIA could have a material adverse effect on the future commercial prospects for our biological products.

We believe that any of our future product candidates approved as a biological product under a BLA should qualify for the 12-year period of exclusivity. However, there is a risk that this exclusivity could be shortened due to Congressional action or otherwise, or that the FDA will not consider our product candidates to be reference products for competing products, potentially creating the opportunity for generic competition sooner than anticipated. Other aspects of the BPCIA, some of which may impact the BPCIA exclusivity provisions, have also been the subject of recent litigation. Moreover, the extent to which a biosimilar, once approved, could be substituted for any one of our reference products in a way that is similar to traditional generic substitution for non-biological products will depend on a number of marketplace and regulatory factors that are still developing.

Healthcare legislative or regulatory reform measures may have a material adverse effect on our business and results of operations.

The United States and several other jurisdictions are considering, or have already enacted, a number of legislative and regulatory proposals to change the healthcare system in ways that could affect our ability to sell any of our product candidates profitably, if approved. Among policy-makers and payers in the United States and elsewhere, there is significant interest in promoting changes in healthcare systems, with the stated goals of containing healthcare costs, improving quality and expanding access to healthcare. In the United States, the pharmaceutical industry has been a particular focus of these efforts and has been significantly affected by major legislative initiatives. See section titled “*Business - Government Regulation – Healthcare Reform*” in the Annual Report.

We cannot predict the initiatives that may be adopted in the future. The continuing efforts of the government, insurance companies, managed care organizations, and other payers of healthcare services to contain or reduce the costs of healthcare may adversely affect:

- the demand for any of our product candidates, if approved;
- our ability to set a price that we believe is fair for any of our product candidates, if approved;
- our ability to generate revenues or maintain profitability;
- the level of taxes that we are required to pay; and
- the availability of capital.

Legislative and regulatory proposals have been made to expand post-approval requirements and to restrict sales and promotional activities for pharmaceutical and biologic products. We cannot be sure whether additional legislative changes will be enacted, or whether FDA regulations, guidance or interpretations will be changed, or what the impact of such changes on the marketing approvals of our product candidates, if any, may be. In addition, increased scrutiny by Congress of the FDA’s approval process may significantly delay or prevent marketing approval, as well as subject us to more stringent product labeling and post-marketing testing and other requirements.

In addition, the U.S. Supreme Court’s 2024 decision in *Loper Bright Enterprises v. Raimondo* overruled the Chevron doctrine, which for 40 years required federal courts to defer to permissible agency interpretations of statutes that are silent or ambiguous on a particular topic. In *Loper Bright*, the Supreme Court held that the U.S. Administrative Procedure Act requires courts to exercise their independent judgment when deciding whether an agency has acted within its statutory authority, and that courts may not defer to an agency interpretation solely because a statute is ambiguous. This landmark Supreme Court decision may invite more companies and other stakeholders to bring lawsuits against the FDA to challenge longstanding decisions and policies of the FDA, which could undermine the FDA’s authority, lead to uncertainties in the industry, and disrupt the FDA’s normal operations, any of which could delay the FDA’s review of our regulatory submissions. We cannot predict the full impact of this

decision, future judicial challenges brought against the FDA, or the nature or extent of government regulation that may arise from future legislation or administrative action. Any such challenges, if successful, could have an impact on our business, and any such impact could be material. In addition to potential changes to regulations and agency guidance as a result of legal challenges, these decisions may result in increased regulatory uncertainty and delays in and other impacts to the agency rule making process, any of which could adversely impact our business and operations.

Moreover, increasing efforts by governmental and third-party payors in the United States and abroad to cap or reduce healthcare costs may cause such organizations to limit both coverage and the level of reimbursement for newly approved products and, as a result, they may not cover or provide adequate payment for our product candidates, if approved. There has been increasing legislative and enforcement interest in the United States with respect to specialty drug pricing practices. Specifically, there have been several recent U.S. Congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to drug pricing, reduce the cost of prescription drugs under Medicare, review the relationship between pricing and manufacturer patient programs, and reform government program reimbursement methodologies for drugs.

We expect that the healthcare reform measures that have been adopted and may be adopted in the future, may result in more rigorous coverage criteria and in additional downward pressure on the price that we receive for any approved product and could harm our future revenues. Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability or commercialize our products.

Failure to comply with health and data protection laws and regulations could lead to government enforcement actions (which could include civil or criminal penalties), private litigation or adverse publicity and could negatively affect our operating results and business.

We may collect, receive, store, process, generate, use, transfer, disclose, make accessible, protect and share personal information, health information and other sensitive information to develop our products, to operate our business, for clinical trial purposes, for legal and marketing purposes, and for other business-related purposes.

We and any potential future collaborators, partners or service providers may be subject to federal, state and foreign data protection laws, regulations and regulatory guidance, the number and scope of which is changing, subject to differing applications and interpretations, and which may be inconsistent among jurisdictions, or in conflict with other rules, laws or contractual obligations. In the United States, numerous federal and state laws and regulations, including federal health information privacy laws, such as the Health Insurance Portability and Accountability Act (“HIPAA”), state data breach notification laws, state health information privacy laws and federal and state consumer protection laws, that govern the collection, use, disclosure and protection of health-related and other personal information could apply to our operations or the operations of any future potential collaborators or service providers.

In addition, we may obtain health information from third parties (including research institutions from which we obtain clinical trial data) that are subject to privacy and security requirements under HIPAA, or other privacy and data security laws. Depending on the facts and circumstances, we could be subject to civil or criminal penalties if we obtain, use, or disclose individually identifiable health information maintained by a HIPAA-covered entity in a manner that is not authorized or permitted by HIPAA, or if we otherwise violate applicable privacy and data security laws.

International data protection laws may also apply to health-related and other personal information obtained outside of the United States. With respect to the European Economic Area, or the EEA, we are subject to the EU General Data Protection Regulations 2016/679, or the EU GDPR, as well as applicable data protection laws in effect in the Member States of the EEA and the incorporation of the EU GDPR into the laws of the UK (including the UK Data Protection Act 2018), or the UK GDPR and together with the EU GDPR, referred to as GDPR, where we are collecting or otherwise processing personal data (including health data) in connection with (a) the offering of goods

or services to/ the monitoring of the behavior of individuals in the EEA/UK; or (b) the activities of a business establishment in the EEA/UK. The UK GDPR is independent from but aligned to the EU's data protection regime. The GDPR imposes stringent data protection requirements for processing personal data of individuals within the EEA, and the UK, such as including requirements relating to having legal bases or conditions for processing personal data relating to identifiable individuals and transferring such information outside the EEA/UK, including to the U.S., providing details to those individuals regarding the processing of their personal data, implementing safeguards to keep personal data secure, having data processing agreements with third parties who process personal data, providing information to individuals regarding data processing activities, responding to individuals' requests to exercise their rights in respect of their personal data, where required obtaining consent of the individuals to whom the personal data relates, reporting security and privacy breaches involving personal data to the competent national data protection authority and affected individuals, appointing data protection officers, conducting data protection impact assessments, and record-keeping. In the event of any non-compliance with the GDPR and any supplemental EEA Member State or UK national data protection laws, we could be subject to warning letters, mandatory audits, orders to cease/change the use of data, and financial penalties of up to the greater of €20 million (£17.5 million for the UK GDPR) or 4% of annual global revenue, and confers a private right of action on data subjects and consumer associations to lodge complaints with supervisory authorities, seek judicial remedies, and obtain compensation for damages resulting from violations of the GDPR.

In addition, the GDPR places restrictions on cross-border transfers of personal data to countries outside the EEA/UK to other countries, such as the United States, that do not ensure an adequate level of protection. The European Commission has issued standard contractual clauses for data transfers from controllers or processors in the EU (or otherwise subject to the GDPR) to controllers or processors established outside the EU. The new standard contractual clauses require exporters to assess the risk of a data transfer on a case-by-case basis, including an analysis of the laws in the destination country. The UK is not subject to the European Commission's new standard contractual clauses but has published a UK-specific transfer mechanism, which enables transfers from the UK. The UK-specific mechanism, the "International Data Transfer Agreement", requires a similar risk assessment of the transfer as the standard contractual clauses. Further, the EU and United States have adopted its adequacy decision for the EU-U.S. Data Privacy Framework ("Framework"), which entered into force on July 11, 2023. This Framework provides that the protection of personal data transferred between the EU and the United States is comparable to that offered in the EU. This provides a further avenue to ensuring transfers to the United States are carried out in line with GDPR. There has been an extension to the Framework to cover UK transfers to the United States. The Framework could be challenged like its predecessor frameworks. This complexity and the additional contractual burden increases our overall risk exposure. There may be further divergence in the future, including with regard to administrative burdens. Any inability to transfer personal data from the EEA and UK to the United States in compliance with data protection laws may impede our operations and may adversely affect our business and financial position. The international transfer obligations under European data protection laws may also impact our business as companies based in Europe may be reluctant to utilize the GDPR transfer mechanisms to legitimize transfers of personal information to third countries given the burdensome requirements of transfer impact assessments and the substantial obligations that the GDPR transfer mechanisms impose upon exporters.

If we are investigated by a European data protection authority, we may face fines and other penalties. Any such investigation or charges by European data protection authorities could have a negative effect on our existing business and on our ability to attract and retain new clients or pharmaceutical partners. We may also experience hesitancy, reluctance, or refusal by European or multi-national clients or pharmaceutical partners to continue to use our products due to the potential risk exposure as a result of the current (and, in particular, future) data protection obligations imposed on them by certain data protection authorities in interpretation of current law, including the GDPR. Such clients or pharmaceutical partners may also view any alternative approaches to compliance as being too costly, too burdensome, too legally uncertain, or otherwise objectionable and therefore decide not to do business with us. Any of the foregoing could materially harm our business, prospects, financial condition, and results of operations.

The GDPR has increased our responsibilities and potential liability in relation to personal data processed subject to the GDPR, and we may be required to put in place additional mechanisms to ensure compliance with the GDPR, including as implemented by individual countries. In addition, any failure by us (or our business partners who

handle personal data) to comply with GDPR and applicable laws and regulations relating to privacy and data protection of EEA member states and the UK may result in regulators prohibiting our processing of the personal data of EEA and UK data subjects, which could impact our operations and ability to develop our products and provide our services, including interrupting or ending EEA and UK clinical trials.

Following the UK's exit from the EU, or Brexit, there will be increasing scope for divergence in application, interpretation and enforcement of the data protection laws between these territories. For example, the UK introduced the Data Reform Bill into the UK legislative process with the intention for this bill to reform the UK's data protection regime following Brexit. The Data Reform Bill failed in the UK legislative process but may be reintroduced at some point in the future. This may lead to additional compliance costs and could increase our overall risk. In addition, EEA Member States have adopted national laws to implement the EU GDPR that may partially deviate from the EU GDPR and competent authorities in the EEA Member States may interpret the EU GDPR obligations slightly differently from country to country. Therefore, we do not expect to operate in a uniform legal landscape in the EEA.

In the U.S., state laws also govern the privacy and security of personal information and states are constantly adopting new laws or amending existing laws, requiring attention to frequently changing regulatory requirements. For example, the California Consumer Privacy Act, as amended by the California Privacy Rights Act (the "CCPA") gives California residents expanded rights to access, correct, and delete their personal information, opt out of certain personal information sharing and certain uses of sensitive data, and receive detailed information about how their personal information is used by requiring covered companies to provide disclosures to California consumers (as that term is broadly defined and includes any of our current or future employees who may be California residents) and provide such residents ways to opt-out of certain sales of personal information. The CCPA provides for civil penalties for violations, as well as a private right of action for data breaches and statutory damages, which is expected to increase data breach class action litigation and result in significant exposure to costly legal judgments and settlements. It also created a California data protection agency authorized to issue substantive regulations which could result in increased privacy and information security enforcement. Although the law includes limited exceptions for health-related information, including clinical trial data, such exceptions may not apply to all of our operations and processing activities. As we expand our operations and trials (both preclinical and clinical), the CCPA may increase our compliance costs and potential liability.

Beyond the CCPA, similar laws have been passed and proposed in numerous other states. In addition, certain states have passed privacy laws focused on particular types of data. For example, the state of Washington has enacted a law that, as of March 31, 2024, protects the privacy of health and medical information not subject to HIPAA, this law also has a private right of action, which further increases the relevant compliance risk. Connecticut and Nevada have also passed similar laws regulating consumer health data. Further, a small number of states have laws that apply specifically to biometric information. Furthermore, other U.S. states, such as New York, Massachusetts, and Utah, have enacted stringent data security laws, and numerous other states have proposed similar privacy laws. In the event that we are subject to or affected by HIPAA, the GDPR, the CCPA or other domestic privacy and data protection laws, any liability from failure to comply with the requirements of these laws could adversely affect our financial condition. These various privacy and security laws may impact our business activities, including our identification of research subjects, relationships with business partners and ultimately the marketing and distribution of our products. State laws are changing rapidly and there is discussion in the U.S. Congress of a new comprehensive federal data privacy law to which we may likely become subject, if enacted.

Compliance with U.S. and international data protection laws and regulations could require us to take on more onerous obligations in our contracts, restrict our ability to collect, use and disclose data, or in some cases, impact our ability to operate in certain jurisdictions. Laws and regulations worldwide relating to privacy, data protection and cybersecurity are, and are likely to remain, uncertain for the foreseeable future. While we strive to comply with applicable laws and regulations relating to privacy, data protection and cybersecurity, external and internal privacy and security policies and contractual obligations relating to privacy, data protection and cybersecurity to the extent possible, we may at times fail to do so, or may be perceived to have failed to do so. Moreover, despite our efforts, we may not be successful in achieving compliance if our personnel, collaborators, partners or vendors do not comply with applicable laws and regulations relating to privacy, data protection and cybersecurity, external and internal

privacy and security policies and contractual obligations relating to privacy, data protection and cybersecurity. Actual or perceived failure to comply with any laws and regulations relating to privacy, data protection or cybersecurity in the U.S. or foreign jurisdictions could result in government enforcement actions (which could include civil or criminal penalties), private litigation or adverse publicity and could negatively affect our operating results and business. Moreover, clinical trial subjects about whom we or our potential collaborators or service providers obtain information, as well as the providers who share this information with us, may contractually limit our ability to use and disclose the information. Claims that we have violated individuals' privacy rights, failed to comply with applicable laws or regulations, or breached our contractual obligations, even if we are not found liable, could be expensive and time consuming to defend, result in regulatory actions and proceedings, in addition to private claims and litigation, and could result in adverse publicity that could harm our business.

We also are, or may be asserted to be, subject to the terms of our external and internal privacy and security policies, representations, certifications, publications and frameworks and contractual obligations to third parties related to privacy, data protection, information security and processing. Failure to comply or the perceived failure to comply with any of these, or if any of these policies or any of our representations, certifications, publications or frameworks are, in whole or part, found or perceived to be inaccurate, incomplete, deceptive, unfair or misrepresentative of our actual practices, could result in reputational harm, result in litigation, cause a material adverse impact to business operations or financial results and otherwise result in other material harm to our business.

If we or our existing or potential future collaborators, manufacturers or service providers fail to comply with healthcare laws and regulations, we or they could be subject to enforcement actions, which could affect our ability to develop, market and sell our product candidates and may harm our reputation.

Healthcare providers, physicians and third-party payors, among others, will play a primary role in the prescription and recommendation of any product candidates for which we obtain marketing approval. Our current and future arrangements with third-party payors, providers and customers, among others, may expose us to broadly applicable fraud and abuse and other healthcare laws and regulations that may constrain the business or financial arrangements and relationships through which we market, sell and distribute our product candidates for which we obtain marketing approval. See section titled “*Business - Government Regulation - Other U.S. Healthcare Laws*” in the Annual Report.

The scope and enforcement of each of these laws is uncertain and subject to rapid change in the current environment of healthcare reform. Federal and state enforcement bodies have recently increased their scrutiny of interactions between healthcare companies and healthcare providers, which has led to a number of investigations, prosecutions, convictions, and settlements in the healthcare industry.

Ensuring that our internal operations and future business arrangements with third parties comply with applicable healthcare laws and regulations will involve substantial costs. It is possible that governmental authorities will conclude that our business practices do not comply with current or future statutes, regulations, agency guidance, or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations are found to be in violation of any of the laws described above or any other governmental laws and regulations that may apply to us, we may be subject to significant penalties, including administrative, civil, and criminal penalties, damages, fines, disgorgement, the exclusion from participation in federal and state healthcare programs, individual imprisonment, reputational harm, and curtailment or restructuring of our operations, as well as additional reporting obligations and oversight if we become subject to a corporate integrity agreement or other agreement to resolve allegations of non-compliance with these laws. Further, defending against any such actions can be costly and time consuming, and may require significant financial and personnel resources. Therefore, even if we are successful in defending against any such actions that may be brought against us, our business may be impaired. If any of the physicians or other providers or entities with whom we expect to do business are found to not be in compliance with applicable laws, they may be subject to criminal, civil, or administrative sanctions, including exclusion from government funded healthcare programs and imprisonment. If any of the above occur, our ability to operate our business and our results of operations could be adversely affected.

If we fail to comply with U.S. and foreign regulatory requirements, regulatory authorities could limit or withdraw any marketing or commercialization approvals we may receive and subject us to other penalties that could materially harm our business.

Even if we receive marketing and commercialization approval of a product candidate, we will be subject to continuing regulatory requirements, including in relation to adverse patient experiences with the product and clinical results that are reported after a product is made commercially available, both in the United States and any foreign jurisdiction in which we seek regulatory approval. The FDA and other regulatory authorities have significant post-market authority, including the authority to require labeling changes based on new safety information and to require post-market studies or clinical trials to evaluate safety risks related to the use of a product or to require withdrawal of the product candidate from the market. The FDA and other regulatory authorities also have the authority to require a REMS after approval, which may impose further requirements or restrictions on the distribution or use of an approved drug or therapeutic biologic. The manufacturer and manufacturing facilities we use to make a future product, if any, will also be subject to periodic review and inspection by the FDA and other regulatory authorities, including for continued compliance with cGMP and cGTP requirements. The discovery of any new or previously unknown problems with our third-party manufacturers, manufacturing processes or facilities may result in restrictions on the product candidate, manufacturer or facility, including withdrawal of the product candidate from the market. We intend to rely on third-party manufacturers and we will not have control over compliance with applicable rules and regulations by such manufacturers. Any product promotion and advertising will also be subject to regulatory requirements and continuing regulatory review. If we or our existing or future collaborators, manufacturers or service providers fail to comply with applicable continuing regulatory requirements in the U.S. or foreign jurisdictions in which we seek to market our products, we or they may be subject to, among other things, fines, warning letters, holds on clinical trials, delay of approval or refusal by the FDA or other regulatory authorities to approve pending applications or supplements to approved applications, suspension or withdrawal of regulatory approval, product recalls and seizures, administrative detention of products, refusal to permit the import or export of products, operating restrictions, injunction, civil penalties and criminal prosecution.

Even if we are able to commercialize any product candidate, such product candidate may become subject to unfavorable pricing regulations or third-party coverage and reimbursement policies, which would harm our business.

In the United States and markets in other countries, patients generally rely on third-party payors to reimburse all or part of the costs associated with their treatment. Adequate coverage and reimbursement from governmental healthcare programs, such as Medicare and Medicaid, and commercial payors is critical to new product acceptance. Because our product candidates represent new approaches to the treatment of cancer, there is significant uncertainty as to the insurance coverage and reimbursement status of any product candidates for which we may receive regulatory approval. In the United States, the principal decisions about reimbursement for new medicines are typically made by the Centers for Medicare & Medicaid Services (“CMS”), an agency within the U.S. Department of Health and Human Services. CMS decides whether and to what extent a new medicine will be covered and reimbursed under Medicare, and private payors tend to follow CMS determinations to a substantial degree. See section titled “*Business - Government Regulation - Coverage and Reimbursement*” in the Annual Report.

Patients who are prescribed medications for the treatment of their conditions generally rely on third-party payors to reimburse all or part of the costs associated with their prescription drugs. Coverage and adequate reimbursement from government healthcare programs, such as Medicare and Medicaid, and private health insurers are critical to new product acceptance. Patients are unlikely to use our future products, if any, unless coverage is provided and reimbursement is adequate to cover a significant portion of the cost. Obtaining coverage and adequate reimbursement for our product candidates may be particularly difficult because of the higher prices often associated with drugs administered under the supervision of a physician. Similarly, because our product candidates are physician-administered, separate reimbursement for the product itself may or may not be available. Instead, the administering physician may or may not be reimbursed for providing the treatment or procedure in which our product is used.

Cost-containment is a priority in the U.S. healthcare industry and elsewhere. As a result, government authorities and other third-party payors have attempted to control costs by limiting coverage and the amount of reimbursement for particular medications. Increasingly, third-party payors are requiring that drug companies provide them with predetermined discounts from list prices and are challenging the prices charged for medical products. Third-party payors also may request additional clinical evidence beyond the data required to obtain marketing approval, requiring a company to conduct expensive pharmacoeconomic studies in order to demonstrate the medical necessity and cost-effectiveness of its product. Commercial third-party payors often rely upon Medicare coverage policy and payment limitations in setting their reimbursement rates, but also have their own methods and approval process apart from Medicare determinations. Therefore, coverage and reimbursement for pharmaceutical products in the U.S. can differ significantly from payor to payor. We cannot be sure that coverage and adequate reimbursement will be available for any product that we commercialize and, if reimbursement is available, that the level of reimbursement will be adequate. Even if coverage is provided, the approved reimbursement amount may not be sufficient to allow us to establish or maintain pricing to generate income. Factors payors consider in determining reimbursement are based on whether the product is: (i) a covered benefit under its health plan; (ii) safe, effective and medically necessary; (iii) appropriate for the specific patient; (iv) cost-effective; and (v) neither experimental nor investigational. Coverage and reimbursement may impact the demand for, or the price of, any product candidate for which we obtain marketing approval. If coverage and reimbursement are not available or are available only at limited levels, we may not be able to successfully commercialize any product candidate for which we obtain marketing approval.

Additionally, the regulations that govern regulatory approvals, pricing and reimbursement for new drugs and therapeutic biologics vary widely from country to country. Some countries require approval of the sale price of a drug or therapeutic biologic before it can be marketed. In many countries, the pricing review period begins after marketing approval is granted. In some foreign markets, prescription pharmaceutical pricing remains subject to continuing governmental control even after initial approval is granted. As a result, we might obtain regulatory approval for a product in a particular country, but then be subject to price regulations that delay our commercial launch of the product, possibly for lengthy time periods, and negatively impact the revenues we are able to generate from the sale of the product in that country. Adverse pricing limitations may hinder our ability to recoup our investment in one or more product candidates, even if our product candidates obtain regulatory approval.

We are subject to U.S. and foreign anti-corruption and anti-money laundering laws with respect to our operations and non-compliance with such laws can subject us to criminal or civil liability and harm our business.

We are subject to the U.S. Foreign Corrupt Practices Act of 1977, as amended (the “FCPA”), the U.S. domestic bribery statute contained in 18 U.S.C. § 201, the U.S. Travel Act, the USA PATRIOT Act, and possibly other state and national anti-bribery and anti-money laundering laws in countries in which we conduct activities. Anti-corruption laws are interpreted broadly and prohibit companies and their employees, agents, third-party intermediaries, joint venture partners and collaborators from authorizing, promising, offering or providing, directly or indirectly, improper payments or benefits to recipients in the public or private sector. We interact with officials and employees of government agencies and government-affiliated hospitals, universities and other organizations. In addition, we may engage third-party intermediaries to promote our clinical research activities abroad or to obtain necessary permits, licenses and other regulatory approvals. We can be held liable for the corrupt or other illegal activities of these third-party intermediaries, our employees, representatives, contractors, collaborators and agents, even if we do not explicitly authorize or have actual knowledge of such activities.

We adopted a Code of Business Conduct and Ethics and we expect to prepare and implement policies and procedures to ensure compliance with such code. The Code of Business Conduct and Ethics mandates compliance with the FCPA and other anti-corruption laws applicable to our business throughout the world. However, we cannot assure you that our employees and third-party intermediaries will comply with this code or such anti-corruption laws. Noncompliance with anti-corruption and anti-money laundering laws could subject us to whistleblower complaints, investigations, sanctions, settlements, prosecution, other enforcement actions, disgorgement of profits, significant fines, damages, other civil and criminal penalties or injunctions, suspension or debarment from contracting with certain persons, the loss of export privileges, reputational harm, adverse media coverage and other collateral consequences. If any subpoenas, investigations or other enforcement actions are launched, or

governmental or other sanctions are imposed, or if we do not prevail in any possible civil or criminal litigation, our business, results of operations and financial condition could be materially harmed. In addition, responding to any action will likely result in a materially significant diversion of management's attention and resources and significant defense and compliance costs and other professional fees. In certain cases, enforcement authorities may even cause us to appoint an independent compliance monitor which can result in added costs and administrative burdens.

Risks Related to Senti and the shares of our common stock

Our stock price is volatile, and you could lose part of all of your investment.

Similar to the trading prices of the common stock of other biotechnology companies, the trading price of our common stock is subject to wide fluctuations in response to various factors, some of which are beyond our control, including limited trading volume. The market price for our shares of our Common Stock may be influenced by many factors, including the other risks described in the section of the Annual Report entitled "*Risk Factors*" and the following:

- our ability to advance our current or potential future product candidates through clinical development;
- our ability or inability to raise additional capital and the terms on which it is raised;
- results of preclinical studies and clinical trials for our current or potential future product candidates, or those of our competitors or potential future collaborators;
- the impact of macroeconomic conditions;
- regulatory or legal developments in the United States and other countries, especially changes in laws or regulations applicable to our future products;
- the success of competitive products or technologies;
- introductions and announcements of new products by us, our future commercialization collaborators, or our competitors, and the timing of these introductions or announcements;
- actions taken by regulatory authorities with respect to our future products, clinical trials, manufacturing process or sales and marketing terms;
- actual or anticipated variations in our financial results or those of companies that are perceived to be similar to us;
- the success of our efforts to acquire or in-license additional technologies, products or product candidates;
- developments concerning any future collaborations, including, but not limited to, those with any sources of manufacturing supply and future commercialization collaborators;
- market conditions in the pharmaceutical and biotechnology sectors;
- market conditions and sentiment involving companies that have recently completed a business combination with a special purpose acquisition company, or SPAC;
- announcements by us or our competitors of significant acquisitions, strategic alliances, joint ventures or capital commitments;
- developments or disputes concerning patents or other proprietary rights, including patents, litigation matters and our ability to obtain patent protection for our products;

- the recruitment or departure of key personnel;
- changes in the structure of healthcare payment systems;
- actual or anticipated changes in earnings estimates or changes in stock market analyst recommendations regarding our common stock, other comparable companies or the industry generally;
- our failure or the failure of our competitors to meet analysts' projections or guidance that we or our competitors may give to the market;
- fluctuations in the valuation of companies perceived by investors to be comparable to us;
- announcement and expectation of additional financing efforts;
- speculation in the press or investment community;
- trading volume of shares of our common stock;
- sales of our common stock by us or our stockholders;
- the concentrated ownership of shares of our common stock;
- changes in accounting principles;
- terrorist acts, acts of war or periods of widespread civil unrest;
- natural disasters, public health crises and other calamities; and
- general economic, industry and market conditions.

In addition, the stock markets in general, and the markets for SPAC post-Merger businesses, pharmaceutical, biopharmaceutical and biotechnology stocks in particular, have experienced extreme volatility. This volatility can often be unrelated to the operating performance of the underlying business. These broad market and industry factors may seriously harm the market price of shares of our common stock, regardless of our operating performance. In the past, securities class action litigation has often been instituted against companies following periods of volatility in the market price of a company's securities. This type of litigation, if instituted, could result in substantial costs and a diversion of management's attention and resources, which would harm our business, operating results, or financial condition.

We may incur significant costs from class action litigation due to the expected stock volatility.

Our stock price may fluctuate for many reasons, including as a result of public announcements regarding the progress of development efforts for our platform and product candidates, the development efforts of future collaborators or competitors, the addition or departure of key personnel, variations in quarterly operating results and changes in market valuations of biopharmaceutical and biotechnology companies. This risk is especially relevant to us because biopharmaceutical and biotechnology companies have experienced significant stock price volatility in recent years, including since the public announcement of the Business Combination Agreement in December 2021. In addition, recently there has been significant stock price volatility involving the shares of companies that have recently completed a Merger with a SPAC. When the market price of a stock has been volatile as our stock price may be, holders of that stock have occasionally brought securities class action litigation against the company that issued the stock. Additionally, there has recently been a general increase in litigation against companies that have recently completed a Merger with a SPAC alleging fraud and other claims based on inaccurate or misleading disclosures. If any of our stockholders were to bring a lawsuit of this type against us, even if the lawsuit is without

merit, we could incur substantial costs defending the lawsuit. The lawsuit could also divert the time and attention of management.

We are an “emerging growth company” and it cannot be certain if the reduced disclosure requirements applicable to emerging growth companies will make the shares of our common stock less attractive to investors and may make it more difficult to compare performance with other public companies.

We are an emerging growth company as defined in the JOBS Act, and we intend to continue to take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies, including not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act, reduced disclosure obligations regarding executive compensation in periodic reports and proxy statements, and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. Investors may find shares of our common stock less attractive because we will continue to rely on these exemptions. If some investors find our shares of our common stock less attractive as a result, there may be a less active trading market for their common stock, and the stock price may be more volatile.

An emerging growth company may elect to delay the adoption of new or revised accounting standards. With DYNs making this election, Section 102(b)(2) of the JOBS Act allows us to delay adoption of new or revised accounting standards until those standards apply to non-public business entities.

We are also a “smaller reporting company” as defined in the Exchange Act, and have elected to take advantage of certain of the scaled disclosures available to smaller reporting companies.

As a result, the financial statements contained in this Annual Report and those that we will file in the future may not be comparable to companies that comply with public business entities revised accounting standards effective dates.

If certain holders of our common stock sell a significant portion of their securities, it may negatively impact the market price of the shares of our common stock and such holders still may receive significant proceeds.

As of December 31, 2025, the market price of our common stock is significantly below \$100.00 per share, which was the price per share of common stock sold in the initial public offering of our predecessor, DYNs, the per share price of the 506,000 shares of our common stock sold to certain investors in connection with the private placement that was completed concurrently with the Merger and also the per share value of the consideration issued to former stockholders of Senti Sub I, Inc. (formerly Senti Biosciences, Inc.) upon consummation of our Merger. However, certain of our stockholders who hold shares of our common stock that were (i) originally purchased by our predecessor’s sponsor, Dynamics Sponsor LLC, in a private placement prior to our predecessor’s initial public offering (the “Founder Shares”) or (ii) issued to the Anchor Investors in consideration for their agreement not to redeem their shares of Class A common stock of DYNs in connection with the Merger. In particular, 487,897 of the Founder Shares registered for resale in our prospectus dated August 8, 2022 filed pursuant to Rule 424(b)(3) (Registration No. 333-265873), as supplemented from time to time (the “Prior Resale Prospectus”), were purchased at an effective price of \$0.04 per share, and 87,103 of the shares of our common stock held by the Anchor Investors and registered for resale in the Prior Resale Prospectus were issued solely in consideration for the Anchor Investors’ agreement not to redeem their shares of Class A common stock as described above. Accordingly, holders of these 575,000 shares of our common stock could sell their securities at a per share price that is less than \$100.00 and still realize a significant return from the sale of those securities that could not be realized by our other stockholders. Furthermore, we have registered (a) up to 21,157 shares of Series A redeemable convertible preferred stock and (b) up to 31,735,500 shares of common stock underlying the accompanying Warrants pursuant to a resale registration statement on Form S-3, which were previously offered and sold by us in the 2024 PIPE transaction described herein. None of the securities issued pursuant to the 2024 PIPE transaction were initially registered under the Securities Act or any state securities laws, rather, we offered the securities in reliance on exemption from the registration requirements of the Securities Act by virtue of Section 4(a)(2) thereof and Rule 506 of Regulation D under the Securities Act. Pursuant to the Certificate of Designation of Preferences, Rights and Limitations of the Series A

redeemable convertible preferred stock, or the Certificate of Designation, each share of Series A redeemable convertible preferred stock was issued at \$2,250 per share in the 2024 PIPE transaction and was converted into 1,000 shares of common stock, effective March 10, 2025. Subject to the terms and limitations contained in the Certificate of Designation, each share of Series A redeemable convertible preferred stock issued in the PIPE Transaction converted into such number of shares of common stock, at the conversion price of \$2.25 per share, or the Conversion Price, subject to the terms and limitations contained in the Certificate of Designation. Each Warrant has an exercise price per share of \$2.30. The Warrants are exercisable at any time and from time to time on or after March 6, 2025. On March 19, 2026, the closing price of our common stock as reported on the Nasdaq Capital Market was \$0.9007 per share. Based on this closing price, the aggregate sales price of the Founder Shares would be approximately \$0.4 million and the aggregate sales price of the shares of our common stock held by the Anchor Investors would be approximately \$0.1 million.

Sales of a substantial number of shares of our common stock in the public market could cause our stock prices to fall.

Sales of a substantial number of shares of our common stock in the public market could occur at any time. These sales or the perception in the market that the holders of a large number of shares of common stock intend to sell shares, could reduce the market price of our common stock.

Shares issued upon the exercise of stock options outstanding under our equity incentive plans or pursuant to future awards granted under those plans will become available for sale in the public market to the extent permitted by the provisions of applicable vesting schedules, any applicable market standoff and lock-up agreements, and Rule 144 and Rule 701 under the Securities Act.

Certain holders of our common stock have rights, subject to conditions, to require us to file registration statements covering their shares or to include their shares in registration statements that we may file for ourselves or other stockholders. We have also filed registration statements on Form S-8 registering shares of common stock issued or reserved for future issuance under our equity compensation plans. Shares registered under a registration statement on Form S-8 can be freely sold in the public market upon issuance and once vested, subject to volume limitations applicable to affiliates. If any of these additional shares are sold, or if it is perceived that they will be sold in the public market, the market price of our common stock could decline.

Future sales and issuances of our common stock or rights to purchase common stock could result in additional dilution of the percentage ownership of our stockholders and could cause our stock price to fall.

Significant additional capital will be needed in the future to continue our planned operations, including further development of our gene circuit platform, preparing IND or equivalent filings, conducting preclinical studies and clinical trials, commercialization efforts, expanded research and development activities and costs associated with operating a public company. To raise capital, we may sell common stock, convertible securities or other equity securities in one or more transactions at prices and in a manner as determined from time to time. If we sell common stock, convertible securities or other equity securities, investors may be materially diluted by subsequent sales. Such sales may also result in material dilution to existing stockholders, and new investors could gain rights, preferences and privileges senior to the holders of shares of our common stock. Furthermore, the 31,735,500 shares of common stock issuable to our current stockholders upon the exercise of the Warrants issued pursuant to the 2024 PIPE transaction could cause our stock price to decline if the holders of such shares sell them over time or are perceived by the market as intending to sell them. For a more detailed description of our equity financing through sale of common shares please see the Risk Factor entitled “*We have issued a substantial number of warrants which are exercisable into shares of our common stock which could result in substantial dilution to the ownership interests of our existing stockholders*” in the Annual Report.

Pursuant to the Senti Biosciences, Inc. Equity Incentive Plan, our Board of Directors or compensation committee is authorized to grant stock options to our employees, directors and consultants. Initially, the maximum aggregate number of shares of our common stock that may be issued pursuant to stock awards under the Incentive Plan was 249,273 shares of our common stock. Additionally, the number of shares of our common stock reserved

for issuance under the Incentive Plan automatically increases on January 1 of each year, beginning on January 1, 2023 and continuing through and including January 1, 2032, by 5% of the total number of shares of our common stock outstanding on December 31 of the preceding calendar year, or a lesser number of shares determined by our Board of Directors. Unless our Board of Directors elects not to increase the number of shares available for future grant each year, our stockholders may experience additional dilution, which could cause our stock price to fall. On December 20, 2024, our Board of Directors approved the Amended and Restated 2022 Equity Incentive Plan (the “2022 EIP”). The 2022 EIP increased the aggregate number of shares of common stock that can be issued under the 2022 EIP by an additional 4,300,000 shares, increased in the number of shares of common stock that may be issued under the 2022 EIP in respect of incentive stock options (“ISOs”), from 249,273 shares to 4,816,434 shares as of December 20, 2024, which amount will automatically increase each January 1 through the term of the 2022 EIP by the lesser of the annual automatic increase or 20,000,000 shares and extended the term of the 2022 EIP to the tenth anniversary of the date that our stockholders approve the 2022 EIP. On March 6, 2025, our stockholders approved and authorized the 2022 EIP. In addition, on August 5, 2022, our Board of Directors adopted the 2022 Inducement Plan and amended and restated the 2022 Inducement Plan on March 7, 2025 (the “2022 IN”) pursuant to which an aggregate of 2,500,000 shares of our common stock have been reserved for issuance. Our issuance of additional shares of common stock or other equity securities of equal or senior rank would, all else being equal, have the following effects:

- the amount of cash available per share, including for payment of dividends in the future, may decrease;
- the relative voting strength of each previously outstanding share of common stock would be diminished; and
- the market price of shares of our common stock may decline.

Our disclosure controls and procedures may not prevent or detect all errors or acts of fraud.

We must design our disclosure controls and procedures to reasonably assure that information we must disclose in reports we file or submit under the Exchange Act is accumulated and communicated to management, and recorded, processed, summarized, and reported within the time periods specified in the rules and forms of the SEC. We believe that any disclosure controls and procedures or internal controls and procedures, no matter how well-conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. For example, our directors or executive officers could inadvertently fail to disclose a new relationship or arrangement causing us to fail to make a required related party transaction disclosure. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people or by an unauthorized override of the controls. Accordingly, because of the inherent limitations in our control system, misstatements due to error or fraud may occur and not be detected.

Reports published by analysts, including projections in those reports that differ from our actual results, could adversely affect the price and trading volume of shares of our common stock.

We currently expect that securities research analysts will establish and publish their own periodic financial projections for our business. These projections may vary widely and may not accurately predict the results we actually achieve. Our stock price may decline if our actual results do not match the projections of these securities research analysts. Similarly, if one or more of the analysts who write reports on us downgrades our stock or publishes inaccurate or unfavorable research about our business, our stock price could decline. If one or more of these analysts ceases coverage of us or fails to publish reports on us regularly, our stock price or trading volume could decline. While we expect research analyst coverage, if no analysts commence coverage of us, the trading price and volume for shares of our common stock could be adversely affected.

The obligations associated with being a public company involve significant expenses and require significant resources and management attention, which may divert from our business operations.

As a public company, we are subject to the reporting requirements of the Exchange Act and the Sarbanes-Oxley Act. The Exchange Act requires the filing of annual, quarterly and current reports with respect to a public company's business and financial condition. The Sarbanes-Oxley Act requires, among other things, that a public company establish and maintain effective internal control over financial reporting. As a result, we currently incur, and expect to continue to incur, significant legal, accounting and other expenses to comply with our obligations as a public company. Our entire management team and many of our other employees will need to devote substantial time to compliance, and may not effectively or efficiently manage our transition into a public company.

These rules and regulations will result in us incurring substantial legal and financial compliance costs and will make some activities more time-consuming and costly. For example, these rules and regulations will likely make it more difficult and more expensive for us to obtain director and officer liability insurance, and we may be required to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. As a result, it may be difficult for us to attract and retain qualified people to serve on our Board of Directors, our board committees or as executive officers.

Provisions in our second amended and restated certificate of incorporation, as amended and/or restated from time to time ("Charter"), our amended and restated bylaws, or Bylaws, and Delaware law may have anti-takeover effects that could discourage an acquisition of us by others, even if an acquisition would be beneficial to our stockholders, and may prevent attempts by our stockholders to replace or remove our current management, which could depress the trading price of shares of our common stock.

Our Charter, Bylaws and Delaware law contain provisions that may have the effect of discouraging, delaying or preventing a change in control of us or changes in our management that stockholders may consider favorable, including transactions in which you might otherwise receive a premium for your shares. Our Charter and Bylaws include provisions that:

- authorize "blank check" preferred stock, which could be issued by our Board of Directors without stockholder approval and may contain voting, liquidation, dividend and other rights superior to our common stock;
- create a classified Board of Directors whose members serve staggered three-year terms, such that not all members of the board will be elected at one time;
- specify that special meetings of our stockholders can be called only by our Board of Directors;
- prohibit stockholder action by written consent;
- establish an advance notice procedure for stockholder approvals to be brought before an annual meeting of our stockholders, including proposed nominations of persons for election to our Board of Directors;
- specify that no stockholder is permitted to cumulate votes at any election of directors;
- expressly authorize our Board of Directors to make, alter, amend or repeal our Bylaws; and
- require super majority votes of the holders of our common stock to amend specified provisions of our Charter and Bylaws.

These provisions, alone or together, could delay or prevent hostile takeovers and changes in control or changes in our management. These provisions could also limit the price that investors might be willing to pay in the future for shares of our common stock, thereby depressing the market price of shares of our common stock.

In addition, because we are incorporated in the State of Delaware, we are governed by the provisions of Section 203 of the General Corporation Law of the State of Delaware, which prohibits a person who owns in excess of 15% of our outstanding voting stock from merging or combining with us for a period of three years after the date of the transaction in which the person acquired in excess of 15% of our outstanding voting stock, unless the merger or combination is approved in a prescribed manner.

Any provision of our Charter, Bylaws or Delaware law that has the effect of delaying or deterring a change in control could limit the opportunity for our stockholders to receive a premium for their shares of our common stock, and could also affect the price that some investors are willing to pay for shares of our common stock.

Our Bylaws designate the Court of Chancery of the State of Delaware as the exclusive forum for certain state law litigation that may be initiated by our stockholders and the U.S. federal district courts as the exclusive forum for certain securities law actions, which could limit our stockholders' ability to litigate disputes with us in a different judicial forum and increase the costs for our stockholders to pursue certain claims against us.

Pursuant to our Bylaws, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware will be the sole and exclusive forum for the following types of actions or proceedings under Delaware statutory or common law: (i) any derivative action or proceeding brought on our behalf; (ii) any action asserting a claim of breach of a fiduciary duty owed by any of our current or former directors, officers or employees to us or our stockholders; (iii) any action asserting a claim arising pursuant to any provision of the General Corporation Law of the State of Delaware, our Charter or our Bylaws (including their interpretation, validity or enforceability); or (iv) any action asserting a claim governed by the internal affairs doctrine. This exclusive forum provision will not apply to any causes of action arising under the Securities Act or the Exchange Act or any other claim for which the federal courts have exclusive jurisdiction. Stockholders cannot waive compliance with the Securities Act, the Exchange Act or any other federal securities laws or the rules and regulations thereunder. Unless we consent in writing to the selection of an alternate forum, the United States federal district courts shall be the sole and exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act. In addition, our Bylaws provide that any person or entity purchasing or otherwise acquiring any interest in shares of our capital stock is deemed to have notice of and consented to these exclusive forum provisions; provided, however, that stockholders cannot and will not be deemed to have waived our compliance with the U.S. federal securities laws and the rules and regulations thereunder. The forum selection provisions in our Bylaws may impose additional litigation costs on stockholders in pursuing any such claims and may limit our stockholders' ability to litigate disputes with us in a judicial forum that they find favorable for disputes with us or our directors, officers or employees, which may discourage the filing of lawsuits against us and our directors, officers and employees, even though an action, if successful, might benefit our stockholders. In addition, while the Delaware Supreme Court and other state courts have upheld the validity of federal forum selection provisions purporting to require claims under the Securities Act be brought in federal court, there is uncertainty as to whether other courts will enforce the federal forum provision. If the federal forum provision is found to be unenforceable, we may incur additional costs associated with resolving such matters. The federal forum provision may also impose additional litigation costs on stockholders who assert that the provision is not enforceable or invalid. The Court of Chancery of the State of Delaware and the federal district courts of the United States may also reach different judgments or results than would other courts, including courts where a stockholder considering an action may be located or would otherwise choose to bring the action, and such judgments may be more or less favorable to us than our stockholders.

Because we do not anticipate paying any cash dividends on our capital stock in the foreseeable future, capital appreciation, if any, will be investors' sole source of gain.

We have never declared or paid cash dividends on our capital stock. We currently intend to retain all of our future earnings, if any, to finance the growth and development of our business. As a result, capital appreciation, if any, of our common stock will be investors' sole source of gain for the foreseeable future.

We may be at an increased risk of securities class action litigation.

Historically, securities class action litigation has often been brought against a company following a decline in the market price of its securities. This risk is especially relevant for us because biotechnology and pharmaceutical companies have experienced significant stock price volatility in recent years. If we were to be sued, it could result in substantial costs and a diversion of management's attention and resources, which could harm our business.

We have issued a substantial number of warrants which are exercisable into shares of our common stock which could result in substantial dilution to the ownership interests of our existing stockholders.

Pursuant to the securities purchase agreement, dated December 2, 2024, with certain accredited investors in a private placement transaction, we issued warrants to purchase certain shares of common stock. As of December 31, 2025, approximately 31,735,500 shares of our common stock were reserved for issuance upon exercise of outstanding warrants. The exercise of these securities will result in a significant increase in the number of outstanding shares and substantially dilute the ownership interests of our existing stockholders.

Future sales, or the perception of future sales, of our securities by existing shareholders or by us could cause the market price for our common stock to decline.

Sales of a substantial number of our common stock in the public market could occur at any time, including by any of our major shareholders, directors or officers. These sales, or the market perception that the holders of a large number of our common stock intend to sell their common stock, could significantly reduce the market price of our common stock. We cannot predict the effect, if any, that future public sales of our common stock will have on the market price of our common stock. If the market price of our common stock was to drop as a result, this might impede our ability to raise additional capital and might cause remaining shareholders to lose all or part of their investment.

We cannot predict the size of future sales of any such Common Shares or the effect, if any, that future sales of any such Common Shares will have on the market price of the Common Shares. The market price of shares of our common stock could drop significantly if the holders of the shares described above sell them or are perceived by the market as intending to sell them. These factors could also make it more difficult for us to raise additional funds through future offerings of shares of our common stock or other securities.

General Risk Factors

Disruptions at the FDA and other government agencies, such as those caused by funding shortages, could hinder their ability to hire, retain or deploy key personnel, and substantial leadership, personnel, and policy changes or otherwise, could prevent those agencies from performing normal business functions on which operations of our business may rely, and/or prevent new or modified products from being developed, approved or commercialized in a timely manner or at all, which could negatively impact our business.

The ability of the FDA to review and approve new products can be affected by a variety of factors, including government budget and funding levels, statutory, regulatory and policy changes, the FDA's ability to hire and retain key personnel and accept the payment of user fees, and other events that may otherwise affect the FDA's ability to perform routine functions. Average review times at the FDA have fluctuated in recent years as a result. In addition, government funding of the SEC and other government agencies on which our operations and fundraising may rely, including those that fund research and development activities and regulate our access to public markets, is subject to the political process, which is inherently fluid and unpredictable. Disruptions at the FDA and other agencies, including substantial leadership, personnel, and policy changes, may also slow the time necessary for new drugs and biologics or modifications to approved drugs and biologics to be reviewed and/or approved by necessary government agencies, which would adversely affect our business. For example, over the past decade, the U.S. government has shut down several times and certain regulatory agencies, such as the FDA and SEC, have had to furlough critical FDA employees and stop critical activities. If a prolonged government shutdown occurs, it could significantly impact the ability of the FDA to timely review and process our regulatory submission, which could

have a material adverse effect on our business. Additionally, disruptions at the NIH or changes to the NIH's budget may negatively impact our operations and ongoing clinical trials. Further, future government shutdowns could impact our ability to access the public markets and obtain necessary capital in order to properly capitalize and continue our operations.

We or the third parties upon whom we depend may be adversely affected by natural disasters and our business continuity and disaster recovery plans may not adequately protect us from a serious disaster.

Our current operations are located in the San Francisco Bay Area. Any unplanned event, such as earthquake, flood, fire, explosion, extreme weather condition, medical epidemics, power shortage, telecommunication failure or other natural or man-made accidents or incidents that result in us being unable to fully utilize our headquarters, or the manufacturing facilities of our third-party contract manufacturers, may have a material adverse effect on our ability to operate our business, particularly on a daily basis and have significant negative consequences on our financial and operating conditions. Loss of access to these facilities may result in increased costs, delays in the development of our product candidates or interruption of our business operations. Natural disasters or pandemics, such as the COVID-19 outbreak could further disrupt our operations and have a material adverse effect on our business, financial condition, results of operations and prospects. If a natural disaster, power outage or other event occurred that prevented us from using all or a significant portion of our headquarters, that damaged critical infrastructure, such as our research facilities or the manufacturing facilities of our third-party contract manufacturers, or that otherwise disrupted operations, it may be difficult or, in certain cases, impossible, for us to continue our business for a substantial period of time. The disaster recovery and business continuity plans we have in place may prove inadequate in the event of a serious disaster or similar event. We may incur substantial expenses as a result of the limited nature of our disaster recovery and business continuity plans, which could have a material adverse effect on our business. As part of our risk management policy, we maintain insurance coverage at levels that we believe are appropriate for our business. However, in the event of an accident or incident at these facilities, we cannot assure our investors that the amounts of insurance will be sufficient to satisfy any damages and losses. If our headquarters or the manufacturing facilities of our third-party contract manufacturers are unable to operate because of an accident or incident or for any other reason, even for a short period of time, any or all of our research and development programs may be harmed. Any business interruption may have a material adverse effect on our business, financial condition, results of operations and prospects.

Our quarterly operating results may fluctuate significantly or may fall below the expectations of investors or securities analysts, each of which may cause our stock price to fluctuate or decline.

We expect our operating results to be subject to quarterly fluctuations. Our net loss and other operating results will be affected by numerous factors, including:

- variations in the level of expense related to the ongoing development of our product candidates or future development programs;
- results of preclinical studies and clinical trials, or the addition or termination of preclinical studies and clinical trials or funding support by us or potential future collaborators;
- our execution of any collaboration, licensing or similar arrangements, and the timing of payments we may make or receive under potential future arrangements or the termination or modification of any of our existing or potential future collaboration, licensing or similar arrangements;
- any intellectual property infringement, misappropriation or violation lawsuit or opposition, interference or cancellation proceeding in which we may become involved;
- additions and departures of key personnel;
- strategic decisions by us or our competitors, such as acquisitions, divestitures, spin-offs, joint ventures, strategic investments or changes in business strategy;

- if any of our product candidates receives regulatory approval, the terms of such approval and market acceptance and demand for such product candidates;
- regulatory developments affecting our product candidates or those of our competitors; and
- changes in general market and economic conditions.

If our quarterly operating results fall below the expectations of investors or securities analysts, the price of our common stock could decline substantially. Furthermore, any quarterly fluctuations in our operating results may, in turn, cause the price of our stock to fluctuate substantially. We believe that quarterly comparisons of our financial results are not necessarily meaningful and should not be relied upon as an indication of our future performance.

We may be subject to claims that our employees, consultants, or independent contractors have wrongfully used or disclosed confidential information of third parties.

We have received confidential and proprietary information from third parties. In addition, we employ individuals who were previously employed at other biotechnology or pharmaceutical companies. We may be subject to claims that we or our employees, consultants, or independent contractors have inadvertently or otherwise used or disclosed confidential information of these third parties or our employees' former employers, or that we caused an employee to breach the terms of his or her non-competition or non-solicitation agreement.

Litigation may be necessary to defend against these claims. Even if we are successful in defending against these claims, litigation could result in substantial cost and be a distraction to our management and employees. If our defenses to these claims fail, in addition to requiring us to pay monetary damages, a court could prohibit us from using technologies or features that are essential to our product candidates, if such technologies or features are found to incorporate or be derived from the trade secrets or other proprietary information of the former employers. Moreover, any such litigation or the threat thereof may adversely affect our reputation, our ability to form strategic alliances or sublicense our rights to collaborators, engage with scientific advisors or hire employees or consultants, each of which would have an adverse effect on our business, results of operations, financial condition and prospects. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management.

Our executive officers, directors, principal stockholders and their affiliates exercise significant influence over our company, which will limit your ability to influence corporate matters and could delay or prevent a change in corporate control.

As of March 19, 2026, the existing holdings of our executive officers, directors, and NEA, Bayer and Celadon and their affiliates represent beneficial ownership, in the aggregate, of approximately 69% of our outstanding common stock. As a result, these stockholders, if they act together, will be able to influence our management and affairs and the outcome of matters submitted to our stockholders for approval, including the election of directors and any merger, consolidation or sale of all or substantially all of our assets. This may prevent or discourage unsolicited acquisition proposals or offers for our common stock that you may feel are in your best interest as one of our stockholders. Some of these persons or entities may have interests different than yours. For example, because many of these stockholders purchased their shares at prices substantially below the current trading price of our stock and have held their shares for a longer period, they may be more interested in selling our Company to an acquirer than other investors or they may want us to pursue strategies that deviate from the interests of other stockholders. Additionally, from time to time, any of our non-affiliated shareholders may accumulate or acquire significant positions in our common stock and may similarly be able to influence our business or matters submitted to our stockholders for approval. The concentration of voting power among these stockholders may also have an adverse effect on the price of our common stock by delaying, deferring or preventing a change of control of us; impeding a merger, consolidation, takeover or other business combination involving us; or discouraging a potential acquirer from making a tender offer or otherwise attempting to obtain control of us.

Item 1B. Unresolved Staff Comments

None.

Item 1C. Cybersecurity

Cybersecurity Risk Management and Strategy

We have adopted cybersecurity risk management processes that are informed by and incorporate elements of recognized industry standards, such as the National Institute of Standards and Technology Cybersecurity Framework, and that are designed to identify, assess, and mitigate critical risks from cybersecurity threats.

To support our cybersecurity risk management processes, we leverage a third-party information security firm (“Information Security Coordinator”) who provides ongoing support for the protection of our information technology infrastructure and also engage with other third-party providers and cybersecurity consultants as appropriate, including engagement of third parties to assist with managed detection and response. Additionally, our cybersecurity risk management strategy is informed by a risk assessment conducted by a third-party cybersecurity consultant.

We have an employee security awareness training program, required upon onboarding and on an annual basis thereafter, that is designed to raise awareness of cybersecurity threats across functions as well as to encourage consideration of cybersecurity risks across our Company. As part of this employee training program, we periodically conduct phishing simulations designed to raise employee awareness of such risks.

We have also implemented a process to assess and review the cybersecurity practices of certain third-party vendors and service providers, such as software-as-a-service providers whose products are used to store our data, including through review of System and Organization Controls (“SOC”) reports prior to onboarding.

We have not identified any cybersecurity incidents or threats that have materially affected us or are reasonably likely to materially affect us, including our business strategy, results of operations or financial condition; however, like other companies in our industry, we and our third-party vendors may, from time to time, experience threats and security incidents relating to our and our third-party vendors’ information systems and infrastructure. For more information, please see Item 1A. Risk Factors.

Governance Related to Cybersecurity Risks

Our Information Security Coordinator is responsible for the maintenance of our cybersecurity risk management processes, including the day-to-day oversight of the assessment and management of cybersecurity risks. The individual who is currently in this role has approximately 20 years of experience in information security. Our Information Security Coordinator meets periodically with our Director of Operations, to discuss and review our information security and cybersecurity risk management processes.

Our board of directors has delegated oversight of the Company’s enterprise risk management processes, including those related to cybersecurity risks, to the Audit Committee of the Board of Directors. We have implemented a process for our Information Security Coordinator, as appropriate, to provide periodic updates to the Audit Committee on the status of our cybersecurity program.

Item 2. Properties

Our corporate headquarters is located in South San Francisco, California, where we lease approximately 40,000 square feet of office and research and development space pursuant to a lease agreement which commenced on April 25, 2019 and expires on April 30, 2027, with an option to extend for eight years. Of the 40,000 square feet, we currently occupy approximately 25,000 square feet of office and research and development space in South San Francisco, CA and entered into a sublease agreement with GeneFab LLC to sublease approximately 7,400 square feet of our office space in South San Francisco expiring April 2027. We also entered into a sublease agreement with BKPBIOTECH, Inc. and JLSA Therapeutics, Inc., to sublease approximately 11,001 square feet of our office space

in South San Francisco commencing October 2024 and also expiring April 2027. In Alameda, California, we leased approximately 92,000 square feet of space as of December 31, 2025 pursuant to a lease agreement that commenced on June 3, 2021 and expires on September 30, 2032, with two options to extend for five years each. In June 2023, we completed the build-out of a cell therapy manufacturing facility designed to meet current Good Manufacturing Practice (“cGMP”) requirements. We subleased the manufacturing space under a sublease agreement to GeneFab that was executed in August 2023 and expires in September 2032. On March 17, 2026, we entered into a First Amendment to Lease and related agreements, pursuant to which the leased premises were reduced to approximately 46,000 square feet. The related sublease with GeneFab was concurrently amended to reflect the reduced premises. We believe that our existing facilities are sufficient to meet our current needs.

Item 3. Legal Proceedings

From time to time we may become involved in legal proceedings to claims arising in the ordinary course of our business. We are not currently a party to any such material legal proceedings.

Item 4. Mine Safety Disclosures

None.

PART II

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Market Information

Our common stock is currently listed on The Nasdaq Capital Market under the symbol “SNTI”, and was previously traded under the same symbol on The Nasdaq Global Market. Prior to the consummation of the Merger, our common stock was listed on The Nasdaq Global Market under the symbol “DYNS.”

Holders

As of March 19, 2026, there were 55 holders of record of our common stock. The number of holders of record does not include for example a substantially greater number of “street name” holders or beneficial holders whose Senti Common Shares are held of record by banks, brokers and other financial institutions.

Dividend Policy

We have not paid any cash dividends to date. The payment of cash dividends in the future will be dependent upon our revenues and earnings, if any, capital requirements and general financial condition. The payment of any cash dividends will be within the discretion of our Board of Directors at such time. Our ability to declare dividends may also be limited by restrictive covenants pursuant to any future debt financing agreements.

Securities Authorized for Issuance Under Equity Compensation Plans

The information required by Item 5 of Form 10-K regarding equity compensation plans is incorporated herein by reference to Item 11 - Executive Compensation - *Equity Compensation Plan Information* of Part III of this Annual Report.

Recent Sales of Unregistered Securities

None.

Item 6. [RESERVED]

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

Senti Biosciences, Inc. ("Senti") entered into a business combination agreement (the "Agreement") with Dynamics Special Purpose Corp. ("DYNS") on December 19, 2021. The transactions contemplated by the terms of the Agreement were completed on June 8, 2022 (the "Closing"), in conjunction with which DYNS changed its name to Senti Biosciences, Inc. (hereafter referred to, collectively with its subsidiaries, as "Senti", the "Company", "we", "us" or "our", unless the context otherwise requires). The transactions contemplated in the Agreement are collectively referred to as the "Merger". You should read the following discussion and analysis of our financial condition and results of operations together with our accompanying consolidated financial statements and the related notes contained in Part II, Item 8 of this Annual Report on Form 10-K. Unless the context indicates otherwise, references in this Annual Report on Form 10-K to the "Company," "Senti," "we," "us," "our" and similar terms refer to Senti Biosciences, Inc. (formerly known as Dynamics Special Purpose Corp.) and its consolidated subsidiaries following the Company's Merger.

Cautionary Statement Regarding Forward-Looking Statements

This Annual Report includes "forward-looking statements" within the meaning of Section 27A of the Securities Act and Section 21E of the Exchange Act that are not historical facts and involve risks and uncertainties that could cause actual results to differ materially from those expected and projected. All statements, other than statements of historical fact included in this Form 10-K including, without limitation, statements in this "Management's Discussion and Analysis of Financial Condition and Results of Operations" regarding the Company's financial position, business strategy and the plans and objectives of management for future operations, are forward-looking statements. Words such as "expect," "believe," "anticipate," "explore," "intend," "estimate," "seek" and variations and similar words and expressions are intended to identify such forward-looking statements. Such forward-looking statements relate to future events or future performance, but reflect management's current beliefs, based on information currently available. A number of factors could cause actual events, performance or results to differ materially from the events, performance and results discussed in the forward-looking statements. For information identifying important factors that could cause actual results to differ materially from those anticipated in the forward-looking statements, please refer to the Risk Factors section of the Annual Report Part I, Item 1A of this Annual Report on Form 10-K filed with the U.S. Securities and Exchange Commission (the "SEC"). The Company's securities filings can be accessed on the EDGAR section of the SEC's website at www.sec.gov. Except as expressly required by applicable securities law, the Company disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise.

Overview

We are a clinical-stage biotechnology company developing next-generation cell and gene therapies engineered with our gene circuit platform technologies for patients living with incurable diseases. Our mission is to create a new generation of smarter medicines that outsmart complex diseases using novel and unprecedented approaches. To accomplish this mission, we have built a synthetic biology platform that we believe may enable us to program next-generation cell and gene therapies with gene circuits. These gene circuits, which we created from novel and proprietary combinations of DNA sequences, are designed to reprogram cells with biological logic to sense inputs, compute decisions and respond to their respective cellular environments. Using gene circuits, our product candidates are designed to precisely kill cancer cells, spare healthy cells, increase specificity to target cells and control the expression of drugs even after administration.

We are applying our gene circuit technologies to develop a pipeline of medicines that use chimeric antigen receptor ("CAR") white blood cells with the goal of addressing major challenges and providing potentially lifesaving treatments for people living with cancer. Our lead product candidates utilize off-the-shelf healthy adult donor derived natural killer ("NK") cells to create CAR-NK cells outfitted with gene circuit technologies in several oncology indications with high unmet need.

We have incurred net losses of \$61.4 million and \$52.8 million for the years ended December 31, 2025 and 2024, respectively. As of December 31, 2025 and 2024, we had cash and cash equivalents, of \$16.4 million and

\$48.3 million, respectively, and an accumulated deficit of \$358.6 million and \$297.1 million, respectively. Net cash flows used in operating activities were \$43.4 million and \$41.4 million for the years ended December 31, 2025 and 2024, respectively. Substantially all of our net losses resulted from costs incurred in connection with our research and development programs and from general and administrative costs associated with our operations. We expect to continue to incur significant losses for the foreseeable future.

We anticipate that our expenses and operating losses will increase substantially over the foreseeable future. The expected increase in expenses will be driven in large part by our ongoing activities, if and as we:

- continue to advance our gene circuit platform technologies;
- continue preclinical development of our current and future product candidates and initiate additional preclinical studies;
- fund clinical development of our current product candidates;
- commence clinical studies of our future product candidates;
- fund manufacturing of our current and future product candidates;
- seek regulatory approval of our current and future product candidates;
- expand our operational, financial, and management systems and increase personnel, including personnel to support our preclinical and clinical development, manufacturing and commercialization efforts;
- continue to develop, grow, maintain, enforce and defend our intellectual property portfolio; and
- incur additional legal, accounting, or other expenses in operating our business, including costs associated with operating as a public company.

As of March 27, 2026, the issuance date of the consolidated financial statements for the year ended December 31, 2025, we concluded that substantial doubt continued to exist about our ability to continue as a going concern beyond 12 months from the issuance date of the annual consolidated financial statements. In light of these concerns, our independent registered public accounting firm included in its opinion for the year ended December 31, 2025 an explanatory paragraph expressing substantial doubt about our ability to continue as a going concern beyond 12 months from March 27, 2026.

Recent Developments

Board Composition

On July 18, 2025, the Board approved the appointment of Bryan Baum to the Board, pursuant to the terms of a letter agreement dated as of December 2, 2024, by and between us and Celadon. In connection with Mr. Baum's appointment, the Board approved an increase in the authorized number of members of the Board from seven to eight members. Mr. Baum was appointed to fill the vacancy created by the foregoing increase in the size of the Board, as a Class II director of the Company, to serve in such capacity until the annual meeting of the Company's stockholders in 2027 or until his earlier resignation, death, or removal.

Audit Committee Appointment

Effective July 31, 2025, Ed Mathers, who was previously appointed as a member of the Audit Committee of the Board, tendered his resignation as a member of that committee. Mr. Mathers continues to serve as a member of the Board and as a member of the Nominating and Corporate Governance Committee and the Compensation Committee of the Board.

Effective July 31, 2025, the Board unanimously appointed Bryan Baum to serve as a member of the Audit Committee. Following this appointment, the Audit Committee is now comprised of Fran Schulz (Chair), Feng Hsiung and Bryan Baum.

GeneFab Sublease Default

Our operating leases are for the corporate headquarters located in South San Francisco, California (“HQ lease”) and for additional office and laboratory space located in Alameda, California (“Alameda lease”). On August 27, 2023, we entered into a sublease with GeneFab to sublease the facility included in the Alameda lease, expiring in September 2032 (the “Alameda Sublease”). On June 12, 2024, we entered into a sublease with GeneFab for a portion of the Company’s HQ lease (the “GeneFab HQ Sublease”). The Alameda Sublease and the GeneFab HQ Sublease are collectively referred to as the “GeneFab Sublease”. As of December 31, 2025, GeneFab was in default under the Alameda Sublease and GeneFab HQ Sublease (“Sublease Default”).

Alameda Lease Default

In September 2025, the Company received a notice of default from the landlord of the Alameda lease, and the Company was in default (the “Default”) for nonpayment of rent in the amount of approximately \$0.4 million. As of December 31, 2025, the nonpayment of rent for the Alameda lease was \$1.7 million. As of December 31, 2025, the Alameda lease had not been terminated, and the Company continues to recognize the right-of-use asset and lease liability associated with the Alameda lease.

Lease Amendment and Cure of Default

On March 17, 2026, we entered into a First Amendment to Lease (the “Lease Amendment”) for the Alameda Facility with landlord, pursuant to which the Default was cured.

Pursuant to the Lease Amendment, we reduced the leased premises from approximately 92,000 rentable square feet to approximately 46,000 rentable square feet. The Lease Amendment also reduces our future base rent obligations for the remaining term of the lease and modifies certain cost-sharing arrangements with respect to operating expenses, taxes, and utilities.

In connection with the Lease Amendment, the Landlord is entitled to draw \$2.0 million under our existing letter of credit, and the required letter of credit for the remainder of the lease term was reduced to approximately \$0.8 million.

Sublease Amendments and cure of Sublease Default

On March 9, 2026, we signed an agreement to accelerate the end of the HQ sublease (“HQ Sublease Amendment”), effective March 31, 2026. As part of this agreement, GeneFab paid all past rent due to us for the HQ sublease.

Additionally, in connection with the Lease Amendment, on March 17, 2026, we entered into a First Amendment to Sublease (the “Alameda Sublease Amendment”) related to the Alameda Facility with GeneFab and the landlord, pursuant to which GeneFab paid cash for certain outstanding, overdue rent amounts and agreed to provide prepaid manufacturing credits to Senti for the remaining outstanding, overdue rent payments.

Pursuant to the Alameda Sublease Amendment, the subleased premises were reduced to approximately 46,000 rentable square feet. The Alameda Sublease Amendment revised the base rent, operating expenses, taxes and utilities owed by GeneFab under the Alameda Sublease Amendment to equal the amounts owed by us under the Lease Amendment.

In addition, GeneFab agreed to pay a \$1.0 million Reduction Fee (the “Reduction Fee”) to the Landlord pursuant to the terms and conditions of the Consent Amendment. Pursuant to the HQ Sublease Amendment and the Alameda Sublease Amendment, the GeneFab Sublease Default was cured.

Landlord Consent Amendment

In connection with the Lease Amendment and Alameda Sublease Amendment, on March 17, 2026, we entered into a First Amendment to Landlord’s Consent to Sublease (the “Consent Amendment”). Pursuant to the Consent Amendment, the Landlord consented to the Sublease Amendment in exchange for payment of the Reduction Fee by us or GeneFab.

GeneFab Letter Agreement

In connection with the Lease Amendment, Alameda Sublease Amendment and Consent Amendment, on March 17, 2026, we entered into the GeneFab Letter Agreement (the “GeneFab Letter Agreement”).

The GeneFab Letter Agreement provides back rent payment of \$1.4 million that may be satisfied, in whole or in part, through a cash prepayment credit to be applied toward work or services to be performed by GeneFab for us under the 2024 Amended and Restated DMSA, and that we may access such prepayment credit immediately and any unused portion of such amount must be paid in immediately available funds by GeneFab to us by September 1, 2026.

The GeneFab Letter Agreement further provides that we may access \$2.0 million as a prepayment credit to be applied toward work or services to be performed by GeneFab for us under the 2024 Amended and Restated DMSA beginning September 1, 2026. This prepayment credit represents a portion of the agreed-upon settlement of past-due sublease rent. GeneFab’s failure to perform its obligations with respect to the outstanding rent or the \$2.0 million amount constitutes an immediate event of default under the Amended Sublease. The GeneFab Letter Agreement terminates automatically once the applicable prepayment credits have been fully applied.

Components of Results of Operations

Collaboration Revenue - Related Party

We currently have no products approved for sale, and we have never generated any revenue from the sale of any products. For the year ended December 31, 2025, collaboration revenue related to an option exercise period extension fee under our Collaboration and Option Agreement (“BlueRock Agreement”) with BlueRock Therapeutics LP (“BlueRock”) and was recognized ratably over the extension period. BlueRock is a related party to us. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — [Note 12](#) — Related Parties” in this Annual Report for details.

Operating Expenses

Our operating expenses consist of research and development expenses, general and administrative expenses, and impairment of long-lived assets.

Research and Development Expenses

Research and development costs consist primarily of costs incurred for the discovery, and preclinical and clinical development of our product candidates, which include:

- employee-related expenses, including salaries, related benefits, and stock-based compensation expenses for employees engaged in research and development functions;
- expenses incurred in connection with research, laboratory consumables, and clinical and preclinical studies;

- the cost of consultants engaged in research and development, regulatory, and clinical related services
- the cost to develop our manufacturing process and manufacturing product candidates for use in our research, preclinical studies and clinical trials, including under agreements with third parties, such as consultants, contractors and third-party contract manufacturing organizations, or CMOs;
- facilities, depreciation and other expenses, which include allocated expenses for rent and maintenance of facilities, insurance and supplies;
- costs related to regulatory compliance; and
- the cost of annual license fees.

We have not historically tracked research and development expenses by program, with the exception of third-party research projects. Our internal resources, employees and infrastructure are not directly tied to any one research project or product candidate and are typically deployed across multiple projects. As such, we do not maintain information regarding these costs incurred for these early-stage research and product candidate discovery programs on a project-specific basis.

Our direct external development program expenses reflect external costs attributable to our preclinical development candidates selected for further development as well as INDs and clinical development activities. Such expenses include third-party contract costs relating to manufacturing, clinical trial activities, translational medicine and toxicology activities. We do not allocate internal research and development costs which include personnel, facility costs, laboratory consumables and discovery and research related activities associated with our pipeline because these costs are deployed across multiple programs and our platform, and, as such, are not separately classified.

Research and development expenses consisted of the following:

(in thousands)	Year Ended December 31,	
	2025	2024
External services and supplies	\$ 23,836	\$ 20,795
Personnel-related expenses, including stock-based compensation	8,214	7,694
Facilities and other	5,536	5,867
Total	<u>\$ 37,586</u>	<u>\$ 34,356</u>

Research and development activities are central to our business model. There are numerous factors associated with the successful commercialization of any of our product candidates, including future trial design and various regulatory requirements, many of which cannot be determined with accuracy at this time based on our stage of development. In addition, future regulatory factors beyond our control may impact our preclinical development programs. Product candidates in clinical development generally have higher development costs than those in preclinical stages of development, primarily due to the increased size and duration of clinical trials. At this time, we cannot reasonably estimate or know the nature, timing and costs of the efforts that will be necessary to complete the preclinical development of any of our product candidates. However, we expect that our research and development expenses and manufacturing costs will increase in connection with our planned preclinical and clinical development activities in the near term and in the future.

The successful development of our current and future product candidates is highly uncertain. This is due to numerous risks and uncertainties, including the following:

- negative or inconclusive results from our preclinical studies or clinical trials or the clinical trials of others for product candidates similar to ours, leading to a decision or requirement to conduct additional preclinical studies or clinical trials or abandon any or all of our programs;

- product-related side effects experienced by participants in our clinical trials or by individuals using therapeutics similar to our product candidates;
- delays in submitting IND applications or comparable foreign applications, or delays or failures to obtain the necessary approvals from regulators to commence a clinical trial, or a suspension or termination of a clinical trial once commenced;
- conditions imposed by the FDA or other regulatory authorities regarding the scope or design of our clinical trials;
- delays in enrolling research subjects in clinical trials;
- high drop-out rates of research subjects;
- inadequate supply or quality of product candidate components or materials or other supplies necessary for the conduct of our clinical trials;
- Chemistry, manufacturing and control (“CMC”) challenges associated with manufacturing and scaling up biologic product candidates to ensure consistent quality, stability, purity and potency among different batches used in clinical trials;
- greater-than-anticipated clinical trial costs;
- poor potency or effectiveness of our product candidates during clinical trials;
- unfavorable FDA or other regulatory authority inspection and review of a clinical trial or manufacturing site;
- failure of our third-party contractors or investigators to comply with regulatory requirements or otherwise meet their contractual obligations in a timely manner, or at all;
- delays and changes in regulatory requirements, policies and guidelines; and
- the FDA or other regulatory authorities interpret our data differently than we do.

A change in the outcome of any of these variables may significantly impact the costs and timing associated with the development of our product candidates. We may never succeed in obtaining regulatory approval for any of our product candidates.

General and Administrative Expenses

General and administrative expenses consist primarily of salaries and employee-related costs, including stock-based compensation for personnel in executive, finance and other administrative functions. Other significant costs include legal fees relating to corporate matters, professional fees for accounting and consulting services, insurance and an allocation of facility-related costs.

General and administrative expenses consisted of the following:

(in thousands)	Year Ended December 31,	
	2025	2024
Personnel-related expenses, including stock-based compensation	\$ 11,513	\$ 8,379
Facilities and other	6,452	7,507
External services and supplies	5,463	7,624
Depreciation and amortization	2,735	2,860
Total	\$ 26,163	\$ 26,370

Impairment of Long-lived assets

For the year ended December 31, 2025, impairment of long-lived assets of \$5.1 million relates to the impairment of the asset group associated with the Alameda Sublease. For the year ended December 31, 2024, impairment of long-lived assets of \$0.3 million relates to the impairment of asset group associated with the GeneFab HQ Sublease. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — [Note 5](#) — Operating Leases” in this Annual Report for details.

Other Income (expense), net

Interest Income

Interest income consists of interest earned on our cash and cash equivalents, and restricted cash held during the year.

GeneFab sublease Income - related party

GeneFab sublease income - related party represents income from our sublease agreements with GeneFab. Amounts are recorded based on our determination of collectability, and the sublease income amounts were deemed probable as of December 31, 2025.

Other income, net - related party

Other income, net - related party primarily consists of late fees and interest charges assessed to GeneFab in connection with its failure to make timely payments under the GeneFab Sublease.

Other income, net

Other income, net primarily consists of income from the sublease of a portion of our headquarters space to BKPBIOTECH and JLSA2 Therapeutics, partially offset by miscellaneous tax and other expense items.

Change in Fair Value of GeneFab Option - related party

The change in fair value of the GeneFab Option consists of the remeasurement to fair value of the derivative liability related to the option provided to GeneFab to acquire up to \$20.0 million in shares of our common stock at a purchase price of \$10.18670 per share. The GeneFab Option is exercisable no later than August 7, 2026. As of December 31, 2025 and 2024, we determined that the fair value of the GeneFab Option was zero. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — [Note 3](#) — GeneFab Transaction” in this Annual Report for details.

Change in Fair Value of Preferred Stock Tranche Liability - related party

The change in fair value of the Preferred Stock Tranche Liability consists of the remeasurement to fair value at each reporting period of the additional closing option given to a certain investor as part of the private placement in December 2024, for which we had determined to be a liability and thus recorded at fair value. On December 31, 2024, we closed the Preferred Stock Tranche Liability of 4,444 shares of Series A redeemable convertible preferred stock and Warrants to purchase 6,666,000 shares of common stock for gross proceeds of \$10.0 million. As a result, the Preferred Stock Tranche Liability was no longer subject to fair value measurement for the year ended December 31, 2025.

Change in Fair Value of GeneFab Economic Share - related party

The change in fair value of the GeneFab Economic Share is a result of the change in the equity value of GeneFab and the volatility at each reporting period. As of December 31, 2025 and 2024, we determined that the fair value of the GeneFab Economic Share was zero. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — Note 3 — GeneFab Transaction” in this Annual Report for details.

Change in Fair Value of GeneFab Note Receivable - related party

The change in fair value of the GeneFab Note Receivable consists of the remeasurement to fair value at each reporting period of the deferred consideration due from GeneFab for which we elected the fair value option. As of December 31, 2024, the GeneFab Note Receivable was waived and we no longer remeasure its fair value. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — Note 3 — GeneFab Transaction” in this Annual Report for details.

Results of Operations

Comparison of the Years Ended December 31, 2025 and 2024

The following table summarizes our results of operations for the years ended December 31, 2025 and 2024:

(in thousands)	Years Ended December 31,		Change
	2025	2024	
Collaboration revenue - related party	\$ 22	\$ —	\$ 22
Operating expenses:			
Research and development (including related party costs of \$12,909 and \$14,266 for the year ended December 31, 2025 and 2024, respectively)	37,586	34,356	3,230
General and administrative	26,163	26,370	(207)
Impairment of long-lived assets	5,052	313	4,739
Total operating expenses	68,801	61,039	7,762
Loss from operations	(68,779)	(61,039)	(7,740)
Other income (expense):			
Interest income	927	948	(21)
GeneFab sublease income - related party	5,423	6,449	(1,026)
Other income, net - related party	160	—	160
Other income, net	831	153	678
Change in fair value of GeneFab Option - related party	—	6,331	(6,331)
Change in fair value of contingent earnout liability	—	20	(20)
Change in fair value of Preferred Stock Tranche Liability - related party	—	13,404	(13,404)
Change in fair value of GeneFab Economic Share - related party	—	(1,816)	1,816
Change in fair value of GeneFab Note Receivable - related party	—	(17,240)	17,240
Total other income, net	7,341	8,249	(908)
Net loss	\$ (61,438)	\$ (52,790)	\$ (8,648)

Collaboration revenue - related party. For the year ended December 31, 2025, collaboration revenue related to an option exercise period extension fee under the BlueRock Agreement with a related party and was recognized ratably over the extension period. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — Note 12 — Related Parties” in this Annual Report for details.

Research and development expenses. The increase of \$3.2 million was primarily due to an increase of \$0.5 million in personnel-related expenses and an increase of \$3.0 million in external services and supplies, offset by a decrease of \$0.3 million in facilities and other expense.

General and administrative expenses. The decrease of \$0.2 million was primarily due to a decrease of \$2.2 million external services and supplies, a decrease of \$1.1 million in facilities and other, and a decrease of \$0.1 million in depreciation and amortization expenses, offset by an increase of \$3.1 million in personnel-related expenses.

Impairment of Long-lived assets. For the year ended December 31, 2025 and 2024, impairment of long-lived assets was \$5.1 million and \$0.3 million, respectively. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — Note 5 — Operating Leases” in this Annual Report for details.

Interest income. The decrease of less than \$0.1 million was due to average cash balances movement.

GeneFab sublease income - related party. The decrease of \$1.0 million was primarily due to our assessment of collectability and the impact of the lease and sublease amendments described in Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — [Note 15](#) — Subsequent Event” in this Annual Report.

Other income, net - related party. The increase in other income - related party of \$0.2 million was due to late fees and interest charges assessed to GeneFab in connection with its failure to make timely payments under the GeneFab Sublease.

Other income, net. The increase in other income of \$0.7 million was primarily due to income from the sublease of a portion of our headquarters space to BKPBIOTECH and JLSA2 Therapeutics which commenced in October 2024.

Change in fair value of GeneFab Option - related party. As of December 31, 2025 and 2024, we determined that the fair value of the GeneFab Option was zero due to the probability that a suitable license agreement, which is a condition of GeneFab obtaining the Option, would not be signed. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — [Note 5](#) — Operating Leases” in this Annual Report for details.

Change in fair value of contingent earnout liability. We no longer have contingent earnout liability as of December 31, 2025.

Change in fair value of Preferred Stock Tranche liability. For the year ended December 31, 2024, the change in fair value of the Preferred Stock Tranche liability was \$13.4 million due to the option for a certain shareholder to purchase additional shares at a later date in connection with the private placement of convertible preferred stock. The gain was a result of the remeasurement of the option before the option was exercised on December 31, 2024. As a result, the Preferred Stock Tranche Liability was no longer subject to fair value measurement for the year ended December 31, 2025.

Change in fair value of GeneFab Economic Share - related party. As of December 31, 2025 and 2024, we determined that the fair value of the GeneFab Economic Share was zero due to the low probability of the events triggering the payment underlying the GeneFab Economic Share. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — [Note 5](#) — Operating Leases” in this Annual Report for details.

Change in fair value of GeneFab Note Receivable - related party. As of December 31, 2024, the GeneFab Note Receivable was waived and we no longer remeasure the fair value. Refer to Item 8. “Consolidated Financial Statements —Notes to Consolidated Financial Statements — [Note 5](#) — Operating Leases” in this Annual Report for details.

Liquidity and Capital Resources

Sources of Liquidity

We do not have any products approved for sale and have not generated any revenue from product sales or otherwise. We have incurred net losses and negative cash flows from operations since our inception and anticipate we will continue to incur net losses for the foreseeable future. As of December 31, 2025, we had \$16.4 million in cash and cash equivalents, and an accumulated deficit of \$358.6 million.

We will need substantial additional funding to support our continuing operations and pursue our development strategy. Until such time as we can generate significant revenue from sales of our product candidates, if ever, we expect to finance our operations through the sale of equity, debt financings or other capital sources, including potential collaborations with other companies or other strategic transactions. Adequate funding may not be available to us on acceptable terms, if at all. Should we fail to raise capital or enter into such agreements as, and when, needed, we may have to significantly delay, scale back, or discontinue the development and commercialization of

our product candidates or delay our efforts to expand our product pipeline. As substantial doubt exists about our ability to continue as a going concern, we may also be required to sell or license to other parties' rights to develop or commercialize our product candidates that we would prefer to retain.

From inception to December 31, 2025, we raised aggregate gross proceeds of \$368.6 million from the merger in 2022, the issuance of shares of common stock, the issuance of shares of redeemable convertible preferred stock, the issuance of convertible notes, and, to a lesser extent, through collaboration agreements and governmental grants and loans.

On August 31, 2022, we entered into an Amended & Restated Purchase Agreement with Chardan (the "A&R Purchase Agreement"). Pursuant to the A&R Purchase Agreement, we had the right, in our sole discretion, to sell to Chardan up to the lesser of: (i) \$50.0 million of shares of our common stock; and (ii) 872,704 shares of common stock at 97% of the volume weighted average price ("VWAP") of the common stock calculated in accordance with the A&R Purchase Agreement, over a period of 36 months subject to certain limitations and conditions contained in the A&R Purchase Agreement. Sales and timing of any sales of common stock were solely at our election, and we were under no obligation to sell any securities to Chardan under the A&R Purchase Agreement. As consideration for Chardan's commitment to purchase shares of our common stock at our direction upon the terms and subject to the conditions set forth in the A&R Purchase Agreement, upon execution of the A&R Purchase Agreement, we issued 10,000 shares of our common stock to Chardan and paid a \$0.4 million document preparation fee. On March 17, 2025, we terminated the A&R Purchase Agreement. Prior to termination, we issued 384,313 shares of common stock to Chardan under the A&R Purchase Agreement, for aggregate net proceeds of \$3.0 million.

On March 20, 2025, we entered into the 2025 ATM Agreement with Leerink Partners with respect to an at-the-market offering program under which we may offer and sell, from time to time at our sole discretion, up to a maximum aggregate offering price of \$17.5 million of our common stock through Leerink Partners as our sales agent. Under 2025 ATM Agreement, we are not obligated to sell any shares, and either party may suspend or terminate the offering of common stock upon notice to the other party and subject to certain conditions. Leerink Partners will use commercially reasonable efforts, consistent with its normal trading and sales practices, applicable state and federal law, rules and regulations and the rules of The Nasdaq Capital Market, to sell shares from time to time based upon our instructions, including any price, time or size limits specified by us. We pay Leerink Partners a commission equal to 3.0% of the gross proceeds of any common shares sold, reimburse certain fees and disbursements and provide Leerink Partners with customary indemnification and contribution rights. For the year ended December 31, 2025, we sold 4,833,477 shares of common stock under the 2025 ATM Agreement at a weighted average price of \$2.38 per share, resulting in gross proceeds of \$11.5 million and net proceeds of \$10.6 million after sales agent commissions and offering costs.

The agreement with CIRM, as described in Item 8. "Consolidated Financial Statements —Notes to Consolidated Financial Statements —Note 4—*Other Financial Statement information*" in this Annual Report is expected to provide us in total a grant of \$8.0 million, subject to achievement of certain operational milestones. We received an aggregate of \$8.0 million and \$4.9 million from the CIRM Grant as of December 31, 2025 and 2024, respectively. The CIRM Grant supports the ongoing clinical development of SENTI-202.

In December 2024, we issued 21,157 shares of Series A redeemable convertible preferred stock and accompanying warrants to purchase up to 31,735,500 shares of common stock for an aggregate offering price of \$47.6 million. On March 10, 2025, we converted the outstanding shares of Series A redeemable convertible preferred stock into an aggregate of 21,157,000 shares of common stock, at the conversion price of \$2.25 per share.

Cash Flows

We derived the following summary of our condensed consolidated cash flows for the periods indicated from Part I, Item 1, “Financial Information—Condensed Consolidated Financial Statements (Unaudited)” in this Annual Report:

(in thousands)	Years Ended December 31,	
	2025	2024
Net cash provided by (used in):		
Operating activities	\$ (43,444)	\$ (41,397)
Investing activities	(184)	34
Financing activities	11,761	53,730
Net change in cash, cash equivalents and restricted cash	<u>\$ (31,867)</u>	<u>\$ 12,367</u>

Operating Activities

For the year ended December 31, 2025, net cash used in operating activities of \$43.4 million was primarily due to our loss of \$61.4 million with non-cash expense adjustments of \$5.7 million for stock-based compensation expense, \$3.6 million for depreciation, and \$5.1 million for impairment of long-lived assets. Other material changes included a \$3.0 million decrease in GeneFab prepaid expenses - related party, a \$2.3 million decrease in operating lease right-of-use assets, and a \$4.6 million decrease in operating lease liabilities.

For the year ended December 31, 2024, net cash used in operating activities of \$41.4 million was primarily due to our loss of \$52.8 million with non-cash expense adjustments of \$1.8 million for stock-based compensation expense, \$5.9 million for depreciation and amortization of operating lease right-of-use-assets, a \$6.3 million gain from change in fair value of the GeneFab Option, and a \$13.4 million change in fair value of the Preferred Stock Tranche liability, offset by non-cash expense adjustment of \$17.2 million for the change in fair value of the GeneFab Note Receivable. Other material changes were comprised of a \$4.0 million decrease in operating lease liabilities and a \$8.1 million increase in related party prepaid expenses.

Investing Activities

For the year ended December 31, 2025, net cash used in investing activities of \$0.2 million was primarily due to purchases of property and equipment.

For the year ended December 31, 2024, net cash provided by investing activities was nominal from proceeds from the sale of property, plant and equipment which were offset by an immaterial amount of capital expenditures.

Financing Activities

For the year ended December 31, 2025, net cash provided by financing activities of \$11.8 million was primarily due to net proceeds of \$11.2 million from the issuance of common stock related to the ATM Agreement, and \$3.1 million received under the CIRM Grant, offset by the payment of issuance costs of \$2.5 million

For the year ended December 31, 2024, net cash provided by financing activities of \$53.7 million was primarily due to net proceeds of \$47.3 million of a private placement offering and \$4.9 million in proceeds from the CIRM Grant.

Funding Requirements

We concluded that substantial doubt about our ability to continue as a going concern continues to exist and that our cash and cash equivalents of \$16.4 million as of December 31, 2025, are not sufficient for us to continue as a

going concern for at least one year from the issuance date of the condensed consolidated financial statements. Based on the Company's current operating plan and existing unrestricted cash and cash equivalents, the Company has determined that it may not be able to maintain current operations starting as early as the second quarter of 2026. Additional funds will be necessary to maintain current operations and to continue research and development activities. Our continued existence is dependent upon management's ability to raise capital, collect amounts owed to us under existing agreements and ultimately develop profitable operations. While management is devoting substantially all of its efforts to developing our business, raising capital and collecting amounts owed to us under existing agreements, there can be no assurance that our efforts will be successful. Moreover, no assurance can be given that management's actions will result in raising additional financing or profitable operations.

Our future capital requirements will depend on many factors, including:

- the scope, rate of progress, results and costs of drug discovery, clinical and preclinical development, laboratory testing and clinical trials for our product candidates;
- the number and development requirements of product candidates that we may pursue, and other indications for our current product candidates that we may pursue;
- the costs, timing and outcome of regulatory review of our product candidates;
- our ability to collect amounts owed to us by our sublessee, GeneFab;
- the scope and costs of any commercial manufacturing activities;
- the cost associated with commercializing any approved product candidates;
- the cost and timing of developing our ability to establish sales and marketing capabilities, if any;
- the costs of preparing, filing and prosecuting patent applications, maintaining, enforcing and protecting our intellectual property rights, defending intellectual property-related claims and obtaining licenses to third-party intellectual property;
- the timing and amount of any milestone and royalty payments we are required to make under our present or future license agreements;
- our ability to establish and maintain collaborations on favorable terms, if at all; and
- the extent to which we acquire or in-license other product candidates and technologies and associated intellectual property.

In order to improve our liquidity, management is actively pursuing additional financing. We will need to obtain substantial additional funding for continuing operations. If we are unable to raise capital when needed, or on attractive terms, we could be forced to delay, reduce or eliminate our research or drug development programs or any future commercialization efforts. Although management continues to pursue these plans, there is no assurance that we will be successful in obtaining sufficient funding on terms acceptable to us to fund continuing operations, if at all.

Critical Accounting Estimates

Our management's discussion and analysis of our financial condition and results of operations are based on our consolidated financial statements, which have been prepared in accordance with generally accepted accounting principles in the United States of America ("U.S. GAAP"). The preparation of these consolidated financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities and expenses and the disclosure of contingent assets and liabilities in our consolidated financial statements and

accompanying notes. On an ongoing basis, we evaluate our estimates and judgments. We base our estimates and assumptions on historical experience, known trends and events, and various other factors that are believed to be reasonable and appropriate under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

While our significant accounting policies are described in more detail in [Note 2](#) to our consolidated financial statements included elsewhere in this Annual Report on Form 10-K, we believe the following accounting policies and estimates to be most critical to the preparation of our consolidated financial statements. We define our critical accounting policies as those under U.S. GAAP that require us to make subjective estimates and judgments about matters that are inherently uncertain and are likely to have a material impact on our financial condition and results of operations, as well as the specific manner in which we apply those principles.

Impairment of Long-Lived Assets

An impairment test for long-lived assets (or an asset group) is required when circumstances indicate that such assets may be impaired. If it is determined that a triggering event has occurred, we perform a recoverability test based upon estimated undiscounted cash flow projections expected to be realized over the remaining useful life of the long-lived asset. If the undiscounted cash flows used in the recoverability test are less than the long-lived asset's carrying amount, we determine its fair value. If the fair value is determined to be less than its carrying amount, the long-lived asset is reduced to its estimated fair value and an impairment loss is recognized in an amount equal to such shortfall. When determining whether a long-lived asset has been impaired, management groups assets at the lowest level that has identifiable cash flows that are independent of other assets. Performing an impairment test on long-lived assets involves judgment in areas such as identifying when a triggering event requiring evaluation occurs; identifying and grouping assets; and, if the undiscounted cash flows used in the recoverability test are less than the long-lived asset's carrying amount, determining the fair value of the long-lived asset. Although cash flow estimates are based upon relevant information at the time the estimates are made, estimates of future cash flows are by nature highly uncertain and contemplate factors that change over time. Key assumptions include the timing and amount of expected sublease payments and the probability of collecting such payments.

During the year ended December 31, 2025, we identified impairment indicators related to the asset group associated with the GeneFab Sublease. GeneFab did not remit sublease payments in accordance with the contractual terms, resulting in an outstanding receivable balance. This nonpayment constituted a triggering event under ASC 360, requiring an evaluation of recoverability. Following the identification of the triggering event, we continued to monitor GeneFab's payment status and financial condition throughout the remainder of 2025, including ongoing communications with GeneFab and assessment of its ability and intent to cure outstanding amounts. We also evaluated updated information obtained during the year, including subsequent payments received, revised expectations regarding future sublease income, and other relevant developments impacting collectibility and cash flow projections.

During the year ended December 31, 2025, we identified impairment indicators related to the asset group associated with the GeneFab Sublease. GeneFab did not remit sublease payments in accordance with the contractual terms, resulting in an outstanding receivable balance. Accordingly, we performed a recoverability test under ASC 360, *Property, Plant, and Equipment*, comparing the estimated undiscounted future cash flows expected to be generated by the asset group, which includes the right-of-use asset and related leasehold improvements allocable to the subleased spaces, to the carrying amount of those assets. As part of this analysis, we were required to use updated assumptions regarding cash flows from the Lease Amendment entered on March 17, 2026 described in Item 8. "Consolidated Financial Statements —Notes to Consolidated Financial Statements — [Note 15](#) — Subsequent Event" in this Annual Report. As a result, the analysis indicated that the carrying amount was not recoverable as of December 31, 2025.

Accordingly, we performed a recoverability test under ASC 360, *Property, Plant, and Equipment*, comparing the estimated undiscounted future cash flows expected to be generated by the asset group, which includes the right-of-use asset and related leasehold improvements allocable to the subleased spaces, to the carrying amount of those

assets. The analysis indicated that the carrying amount was not recoverable as of December 31, 2025. The fair value of the asset group was then estimated using a discounted cash flow model, which incorporated expected future cash flows associated with the subleased spaces, reflecting assumptions regarding the timing and collectibility of sublease payments. The cash flows were discounted using a market participant discount rate commensurate with the risks inherent in those cash flows. As a result, the Company recognized an impairment charge of \$5.1 million for the year ended December 31, 2025. The Company will continue to monitor GeneFab's payment status, collectibility of sublease payments, and other relevant factors that could affect the recoverability of the underlying assets in future periods.

Emerging Growth Company Status

The JOBS Act permits an emerging growth company to take advantage of an extended transition to comply with new or revised accounting standards applicable to public companies until those standards would otherwise apply to private companies. The Company is an "emerging growth company" as defined in Section 2(a) of the Securities Act, and has elected to not take advantage of the benefits of this extended transition period.

We expect to remain an emerging growth company until the earlier of: (1) the last day of the fiscal year (a) following the fifth anniversary of the closing of the Dynamics Initial Public Offering ("IPO") (which occurred on May 25, 2021), (b) in which we have total annual revenue of at least \$1.235 billion, or (c) in which we are deemed to be a large accelerated filer, which means the market value of our common equity that is held by non-affiliates exceeds \$700 million as of the end of that fiscal year's second fiscal quarter and our net sales for the year exceed \$100 million; and (2) the date on which we have issued more than \$1.0 billion in non-convertible debt securities during the preceding, rolling three-year period.

Smaller Reporting Company Status

We are a "smaller reporting company" as defined in Item 10(f)(1) of Regulation S-K. Smaller reporting companies may take advantage of certain reduced disclosure obligations, including, among other things, providing only two years of audited financial statements. We will remain a smaller reporting company if (1) the market value of our common stock held by non-affiliates is less than \$250 million as of the last business day of the second fiscal quarter, or (2) our annual revenues in our most recent fiscal year completed before the last business day of our second fiscal quarter are less than \$100 million and the market value of our common stock held by non-affiliates is less than \$700 million as of the last business day of the second fiscal quarter.

Segment Information

Operating segments are defined as components of an enterprise about which separate discrete information is available for evaluation by the chief operating decision maker in deciding how to allocate resources and assess performance. We and our chief operating decision maker ("CODM"), our Chief Executive Officer, view our operations and manage the business as a single operating segment, which is the research and development of our gene circuit platform. Refer to Item 8. "Consolidated Financial Statements — Notes to Consolidated Financial Statements — Note 14 — Segment Reporting" in this Annual Report for additional information related to operating segment. All long-lived assets are located in the United States. We currently have no products approved for sale, and we have never generated any revenue from the sale of any products.

Contractual Obligations and Commitments

Operating Lease Obligations

As of December 31, 2025, we had operating lease obligations for real estate totaling \$37.9 million, of which \$7.7 million was attributable to short-term obligations, and the remainder was attributed to long-term obligations. Refer to Item 8. "Financial Statements and Supplementary Data — Notes to Consolidated Financial Statements — Note 5 — Operating Leases" in this Annual Report on Form 10-K for details on our lease and sublease obligations.

Subsequent to December 31, 2025, we entered into an amendment to our lease agreement for our Alameda facility, which reduced the leased premises and corresponding future lease payments. As a result, our future lease obligations are expected to be lower than the amounts presented above. Refer to Item 8. “Financial Statements and Supplementary Data —Notes to Consolidated Financial Statements — [Note 15](#) — Subsequent Events” in this Annual Report on Form 10-K for details on our lease and sublease obligations.

Off-Balance Sheet Arrangements

During the periods presented, we did not have, nor do we currently have, any off-balance sheet arrangements as defined under the rules and regulations of the SEC.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We qualify as a smaller reporting company, as defined by Item 10 of Regulation S-K and, thus, are not required to provide the information required by this Item.

Item 8. Financial Statements and Supplementary Data

**SENTI BIOSCIENCES, INC.
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Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors
Senti Biosciences, Inc.:

Opinion on the Consolidated Financial Statements

We have audited the accompanying consolidated balance sheets of Senti Biosciences, Inc. and subsidiaries (the Company) as of December 31, 2025 and 2024, the related consolidated statements of operations and comprehensive loss, redeemable convertible preferred stock and stockholders' equity, and cash flows for the years then ended, and the related notes (collectively, the consolidated financial statements). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2025 and 2024, and the results of its operations and its cash flows for the years then ended, in conformity with U.S. generally accepted accounting principles.

Going Concern

The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 1 to the consolidated financial statements, the Company has incurred recurring losses and negative cash flows from operations and has an accumulated deficit that raise substantial doubt about its ability to continue as a going concern. Management's plans in regard to these matters are also described in Note 1. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

Basis for Opinion

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ KPMG LLP

We have served as the Company's auditor since 2019.

San Francisco, California
March 27, 2026

SENTI BIOSCIENCES, INC.
Consolidated Balance Sheets
(In thousands, except share and per share amounts)

	December 31 2025	December 31 2024
ASSETS		
CURRENT ASSETS		
Cash and cash equivalents	\$ 16,420	\$ 48,277
Accounts receivable	323	159
GeneFab receivable - related party	1,272	1,646
GeneFab prepaid expenses - related party	3,604	6,639
Prepaid expenses and other current assets	1,655	2,240
Total current assets	23,274	58,961
Restricted cash	3,528	3,538
Property and equipment, net	12,886	21,289
Operating lease right-of-use assets	11,516	13,948
Other non-current assets	19	105
TOTAL ASSETS	\$ 51,223	\$ 97,841
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES		
Accounts payable	\$ 2,943	\$ 1,454
Accrued expenses and other current liabilities	5,354	6,385
Operating lease liabilities, current	5,330	4,647
Deferred revenue, current - related party	43	—
GeneFab sublease deferred income - related party	304	660
Total current liabilities	13,974	13,146
Operating lease liabilities, non-current	23,561	28,891
Other non-current liabilities	8,099	5,049
TOTAL LIABILITIES	45,634	47,086
Commitments and contingencies (Note 13)		
Series A redeemable convertible preferred stock, \$0.0001 par value; zero and 21,200 shares authorized as of December 31, 2025 and 2024, respectively; zero and 21,157 shares issued and outstanding as of December 31, 2025 and 2024, respectively; aggregate liquidation preference of zero and \$147,647 as of December 31, 2025 and 2024, respectively	—	25,106
STOCKHOLDERS' EQUITY		
Common stock, \$0.0001 par value; 500,000,000 shares authorized as of both December 31, 2025 and 2024; 30,879,355 and 4,829,035 shares issued and outstanding as of December 31, 2025 and 2024, respectively	3	1
Additional paid-in capital	364,158	322,782
Accumulated deficit	(358,572)	(297,134)
TOTAL STOCKHOLDERS' EQUITY	5,589	25,649
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$ 51,223	\$ 97,841

The accompanying notes are an integral part of these consolidated financial statements.

SENTI BIOSCIENCES, INC.
Consolidated Statements of Operations and Comprehensive Loss
(in thousands, except share and per share data)

	Year Ended December 31,	
	2025	2024
Collaboration revenue - related party	\$ 22	\$ —
Operating expenses:		
Research and development (including related party costs of \$12,909 and \$14,266 for the year ended December 31, 2025 and 2024, respectively)	37,586	34,356
General and administrative	26,163	26,370
Impairment of long-lived assets	5,052	313
Total operating expenses	68,801	61,039
Loss from operations	(68,779)	(61,039)
Other income (expense):		
Interest income	927	948
GeneFab sublease income - related party	5,423	6,449
Other income, net - related party	160	—
Other income, net	831	153
Change in fair value of Preferred Stock Tranche Liability - related party	—	13,404
Change in fair value of GeneFab Option - related party	—	6,331
Change in fair value of contingent earnout liability	—	20
Change in fair value of GeneFab Economic Share - related party	—	(1,816)
Change in fair value of GeneFab Note Receivable - related party	—	(17,240)
Total other income, net	7,341	8,249
Net loss	\$ (61,438)	\$ (52,790)
Comprehensive loss	\$ (61,438)	\$ (52,790)
Basic and diluted net loss per share	\$ (2.73)	\$ (12.03)
Basic and diluted weighted-average number of shares used in computing net loss per share	22,483,391	4,595,946

The accompanying notes are an integral part of these consolidated financial statements.

SENTI BIOSCIENCES, INC.

Consolidated Statements of Redeemable Convertible Preferred Stock and Stockholders' Equity
(in thousands, except share and per share data)

	Redeemable Convertible Preferred Stock		Common Stock		Additional Paid-in Capital	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount	Shares	Amount			
Balance at December 31, 2023	—	\$ —	4,569,900	\$ 1	\$ 311,256	\$ (244,344)	\$ 66,913
Issuance of Series A redeemable convertible preferred stock, net of issuance costs	21,157	22,584	—	—	—	—	—
Series A redeemable convertible preferred stock accretion	—	2,522	—	—	(2,522)	—	(2,522)
Funds received from Chardan ChEF Instrument, net of fees	—	—	244,313	—	1,806	—	1,806
Issuance of common stock for vesting of restricted stock units	—	—	9,666	—	—	—	—
Vesting of early exercise of common stock options	—	—	5,064	—	135	—	135
Issuance of common stock upon exercise of stock options	—	—	92	—	—	—	—
Warrants to purchase common stock issued in connection with Series A redeemable convertible preferred stock, net of issuance costs	—	—	—	—	10,352	—	10,352
Stock-based compensation	—	—	—	—	1,755	—	1,755
Net loss	—	—	—	—	—	(52,790)	(52,790)
Balance at December 31, 2024	21,157	25,106	4,829,035	1	322,782	(297,134)	25,649
Conversion of Series A redeemable convertible preferred stock to common stock	(21,157)	(25,106)	21,157,000	2	25,105	—	25,107
Issuance of common stock related to ATM, net of commissions and issuance costs	—	—	4,833,477	—	10,554	—	10,554
Issuance of common stock for vesting of restricted stock units	—	—	59,421	—	—	—	—
Vesting of early exercise of common stock options	—	—	422	—	11	—	11
Stock-based compensation	—	—	—	—	5,706	—	5,706
Net loss	—	—	—	—	—	(61,438)	(61,438)
Balance at December 31, 2025	—	\$ —	30,879,355	\$ 3	\$ 364,158	\$ (358,572)	\$ 5,589

The accompanying notes are an integral part of these consolidated financial statements.

SENTI BIOSCIENCES, INC.
Consolidated Statements of Cash Flows
(in thousands)

	Years Ended December 31,	
	2025	2024
CASH FLOWS FROM OPERATING ACTIVITIES		
Net loss	\$ (61,438)	\$ (52,790)
Adjustments to reconcile net loss to net cash used in operating activities:		
Stock-based compensation	5,706	1,755
Depreciation	3,637	3,838
Impairment of long-lived assets	5,052	313
Change in fair value of GeneFab Note Receivable - related party	—	17,240
Change in fair value of GeneFab Economic Share - related party	—	1,816
Change in fair value of GeneFab Option - related party	—	(6,331)
Change in fair value of Preferred Stock Tranche liability - related party	—	(13,404)
Change in fair value of contingent earnout liability	—	(20)
Other non-cash charges	39	115
Changes in operating assets and liabilities:		
Accounts receivable	(164)	(47)
GeneFab receivable - related party	374	(665)
GeneFab prepaid expenses - related party	3,035	8,148
Prepaid expenses and other assets	681	707
Operating lease right-of-use assets	2,292	2,013
Accounts payable	1,743	797
Accrued expenses and other current liabilities	559	(671)
Operating lease liabilities	(4,647)	(4,031)
GeneFab sublease deferred income - related party	(356)	(329)
Deferred revenue, current - related party	43	—
Other non-current liabilities	—	149
Net cash used in operating activities	(43,444)	(41,397)
CASH FLOWS FROM INVESTING ACTIVITIES		
Purchases of property and equipment	(196)	(26)
Proceeds from sale of property and equipment	12	60
Net cash provided by (used in) investing activities	(184)	34
CASH FLOWS FROM FINANCING ACTIVITIES		
Proceeds from issuance of common stock related to ATM, net of commissions	11,180	—
Proceeds from CIRM Grant	3,050	4,900
Payment of issuance costs	(2,469)	(229)
Proceeds from private placement, net of fees paid to investor	—	47,253
Proceeds from issuance of common stock under Common Stock Purchase Agreement	—	1,806
Net cash provided by financing activities	11,761	53,730
NET INCREASE (DECREASE) IN CASH, CASH EQUIVALENTS, AND RESTRICTED CASH	(31,867)	12,367
CASH, CASH EQUIVALENTS, AND RESTRICTED CASH — Beginning of period	51,815	39,448
CASH, CASH EQUIVALENTS, AND RESTRICTED CASH — End of period	\$ 19,948	\$ 51,815
SUPPLEMENTAL DISCLOSURES OF NONCASH FINANCING AND INVESTING ITEMS:		
Unpaid Issuance Costs	\$ 34	\$ 1,903

The accompanying notes are an integral part of these consolidated financial statements.

SENTI BIOSCIENCES, INC.
Notes to Consolidated Financial Statements

Note 1. Organization and Description of Business

Senti Biosciences, Inc. and its subsidiaries (the “Company” or “Senti”), is a clinical stage biotechnology company developing next-generation cell and gene therapies engineered with its gene circuit platform technologies for patients living with incurable diseases. Senti’s mission is to create a new generation of smarter therapies that can outsmart complex diseases using novel and unprecedented approaches. Senti has built a synthetic biology platform that enables it to program next-generation cell and gene therapies with gene circuits. These gene circuits, which are created from novel and proprietary combinations of DNA sequences, reprogram cells with biological logic to sense inputs, compute decisions and respond to their cellular environments. The Company is headquartered in South San Francisco, California.

In June 2022, Dynamics Special Purpose Acquisition Corp. (“Dynamics” or “DYNS”) consummated a merger pursuant to which Explore Merger Sub, Inc. (“Merger Sub”), a Delaware corporation and wholly owned subsidiary of Dynamics, merged with and into Senti Sub I, Inc., formerly named Senti Biosciences, Inc. (“Legacy Senti”), with Legacy Senti surviving as a wholly-owned subsidiary of Dynamics (such transactions, the “Merger,” and, collectively with the other transactions described in the merger agreement). As a result of the Merger, Dynamics was renamed Senti Biosciences, Inc.

Liquidity and Going Concern

These consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America (“U.S. GAAP”) assuming the Company will continue as a going concern. The going concern assumption contemplates the realization of assets and satisfaction of liabilities in the normal course of business. The consolidated financial statements do not include any adjustments to the carrying amounts and classification of assets, liabilities, and reported expenses that may be necessary if the Company were unable to continue as a going concern.

The Company has devoted substantially all of its efforts to organizing and staffing, business planning, raising capital, and conducting preclinical and clinical studies and has not realized substantial revenues from its planned principal operations. As of December 31, 2025, the Company raised aggregate gross proceeds of \$368.6 million from the Merger in 2022, the issuance of shares of common stock, the issuance of shares of redeemable convertible preferred stock, the issuance of convertible notes, and, to a lesser extent, through collaboration agreements and governmental grants and loans.

As of December 31, 2025 and 2024, the Company had an accumulated deficit of \$358.6 million and \$297.1 million, respectively. The Company’s net losses were \$61.4 million and \$52.8 million for the years ended December 31, 2025 and 2024, respectively. Substantially all of the Company’s net losses resulted from costs incurred in connection with the Company’s research and development programs and from general and administrative costs associated with the Company’s operations. The Company expects to incur substantial operating losses and negative cash flows from operations for the foreseeable future as the Company advances its preclinical activities and clinical trials for its product candidates in development.

The Company concluded that substantial doubt continued to exist and that the Company’s cash and cash equivalents of \$16.4 million as of December 31, 2025, were not sufficient for the Company to continue as a going concern for at least one year from the issuance date of these consolidated financial statements. Based on the Company’s current operating plan and existing unrestricted cash and cash equivalents, the Company has determined that it may not be able to maintain current operations starting as early as the second quarter of 2026. Additional funds will be necessary to maintain current operations and to continue research and development activities. The Company’s continued existence is dependent upon management’s ability to raise capital and ultimately develop profitable operations. While management is devoting substantially all of its efforts to developing the Company’s business and raising capital, there can be no assurance that these efforts will be successful. Moreover, no assurance can be given that management’s actions will result in raising additional financing or profitable operations.

SENTI BIOSCIENCES, INC.
Notes to Consolidated Financial Statements

Note 2. Summary of Significant Accounting Policies

Basis of Presentation

The accompanying consolidated financial statements have been prepared in conformity with U.S. GAAP and the rules and regulations of the Securities and Exchange Commission (“SEC”). Any reference in these notes to applicable guidance is meant to refer to the authoritative U.S. GAAP as found in the Accounting Standards Codification (“ASC”) and as amended by Accounting Standards Updates (“ASU”) of the Financial Accounting Standards Board (“FASB”). The consolidated financial statements include the accounts of Senti Biosciences, Inc., and its wholly-owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. The Company has one business activity and operates in one reportable segment within continuing operations. All long-lived assets of the Company are maintained in the United States.

Reverse Stock Split

On July 17, 2024, the Company effected a 1 for 10 reverse stock split of its common stock (the “Reverse Stock Split”). The par value per share and the number of authorized shares were not adjusted as a result of the Reverse Stock Split. The shares of common stock underlying outstanding stock options and other equity instruments were proportionately reduced and the respective exercise prices, if applicable, were proportionately increased in accordance with the terms of the agreements governing such securities. In addition, the shares available for grants under the Company’s incentive plans were adjusted as a result of the Reverse Stock Split. All references to common stock, options to purchase common stock, outstanding common stock warrants, common stock share data, per share data, and related information contained in the consolidated financial statements have been retrospectively adjusted to reflect the effect of the Reverse Stock Split for all periods presented. No fractional shares were issued as a result of the reverse stock split, as fractional shares of common stock were rounded down to the nearest whole share. Refer to Note 6. Stockholders’ Equity, for additional information related to the reverse stock split.

California Institute for Regenerative Medicine Grant

On August 3, 2024, the Company executed an agreement with the California Institute for Regenerative Medicine (“CIRM”) for a total grant award of \$8.0 million (“CIRM Grant”) in support of the research project related to the ongoing clinical development of SENTI-202. As the Company has the option to convert the CIRM Grant to a loan and thus may be required to repay some or all of the amounts awarded by CIRM, the Company accounted for this award as a liability. Given the uncertainty in amounts due upon repayment, the Company has recorded amounts received without any discount or interest recorded, and upon determination of amounts that would become due, the Company will adjust accordingly. Refer to Note 4. Other Financial Statement information.

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities as of the date of the consolidated financial statements and the reported amounts of expenses during the reporting period. Significant estimates and assumptions reflected in these consolidated financial statements include, but are not limited to, the valuation of stock-based awards, the accrual for research and development expenses, the valuation of GeneFab Option, the valuation of GeneFab Economic Share, redeemable convertible preferred stock, the discount rate used to discount future cash flows for the impairment of long-lived assets, and the determination of the incremental borrowing rate.

Estimates related to the impairment assessment of long-lived assets require significant judgment, including assumptions regarding the amount and timing of expected future cash flows, expected sublease income and collectibility, and other factors affecting the use of the underlying assets.

SENTI BIOSCIENCES, INC.
Notes to Consolidated Financial Statements

The Company evaluates its estimates and assumptions on an ongoing basis using historical experience and other factors and adjusts those estimates and assumptions when facts and circumstances dictate. Actual results could differ from those estimates.

Concentration of Credit Risk

Financial instruments that potentially subject the Company to a significant concentration of credit risk consist of cash and cash equivalents which are maintained in checking and money market accounts at one financial institution, which at times, may exceed federally insured limits. As of December 31, 2025 and 2024, the Company has not experienced any credit losses in such accounts or investments.

Concentration of Business Risk

The Company is subject to concentrations of business risk arising from its reliance on a limited number of counterparties and arrangements that are critical to its operations. The Company currently depends on GeneFab as its sole contract manufacturer for the clinical-scale production of its product candidates. As a result, the Company's development activities and timelines are dependent on GeneFab's continued ability to perform manufacturing services in accordance with contractual requirements. Any disruption in GeneFab's operations, financial condition, or ability to perform could have a material adverse effect on the Company's research and development activities and may require the Company to identify and qualify alternative manufacturing vendors, which could result in increased costs and delays in the Company's clinical trial timelines.

In addition, the Company has business risk concentrated in its real estate lease arrangements. The Company has operating lease obligations under the Alameda lease and the HQ lease (as defined in Note 3), which represent the Company's most significant lease liabilities on the consolidated balance sheets as of December 31, 2025. The Company has subleased the Alameda lease and a portion of the HQ lease to GeneFab. Accordingly, the Company's ability to mitigate the cash outflows associated with these lease obligations is dependent on GeneFab's performance under the sublease arrangements. The Company remains obligated to satisfy its lease commitments to the landlords regardless of the performance of its subtenant.

Cash, Cash Equivalents, and Restricted Cash

Cash equivalents consist of amounts deposited in money market funds and securities with original maturity dates of three months or less, which are stated at fair value.

The Company's restricted cash consists of cash deposited with a financial institution as collateral for a letter of credit required under the Company's headquarters and research facility leases. The restricted cash is presented separately from cash and cash equivalents and classified as non-current on the consolidated balance sheets, as the Company expects the cash to remain restricted for a period greater than one year.

Fair Value Measurements

Certain assets and liabilities of the Company are carried at fair value under U.S. GAAP. Fair value is defined as the exchange price that would be received for an asset or the exit price that would be paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. The authoritative guidance on fair value measurements establishes a three-tier fair value hierarchy for disclosure of fair value measurements as follows:

- Level 1 – Quoted prices in active markets for identical assets or liabilities.
- Level 2 – Observable inputs (other than Level 1 quoted prices), such as quoted prices in active markets for similar assets or liabilities, quoted prices in markets that are not active for identical or similar assets or liabilities, or other inputs that are observable or can be corroborated by observable market data.

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- Level 3 – Unobservable inputs that are supported by little or no market activity that are significant to determining the fair value of the assets or liabilities, including pricing models, discounted cash flow methodologies, and similar techniques.

To the extent that the valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Company in determining fair value is greatest for instruments categorized in Level 3. Financial assets and liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measurement.

The estimated fair values of the Company's cash and cash equivalents, restricted cash, trade, and other receivables and accounts payable approximate their carrying values given their short-term nature.

Fair Value Option

The Company elected to account for the deferred consideration (GeneFab Note Receivable) and contingent consideration receivable (GeneFab Economic Share) from the GeneFab transaction under the fair value option in ASC 825, *Financial Instruments* ("ASC 825"). Accordingly, these instruments were recognized at their fair value at the closing of the transaction and are subsequently remeasured each reporting period with changes in fair value recorded in other income (expense) in the consolidated statements of operations and comprehensive loss until settlement. The fair value of the GeneFab Note Receivable was determined by discounting future payments under multiple probability-weighted scenarios using GeneFab's cost of borrowing. The fair value of the GeneFab Option was determined using an option pricing method. In December 2024, the GeneFab Note Receivable was waived by the parties in an amendment to the Framework Agreement in connection with Celadon's investment in the PIPE. Refer to [Note 3. GeneFab Transaction](#), for further details.

Property and Equipment, net

Property and equipment, net is stated at cost, net of accumulated depreciation. Depreciation is calculated using the straight-line method over the estimated useful lives of the assets, which are as follows:

Asset Classification	Estimated useful Life
Small equipment	2 years
Computer equipment and software	3 years
Laboratory equipment	5-7 years
Furniture and fixtures	5-7 years
Leasehold improvements	Shorter of the lease term and the useful life

The Company capitalizes certain costs incurred during the construction phase of a project or asset into construction-in-progress. Once the construction is complete and the asset is placed into service, the Company transfers its carrying value into the appropriate fixed asset category and begins depreciating the value over its useful life.

When assets are retired or disposed of, any resulting gain or loss is included in net loss. Expenditures for maintenance and repairs are expensed as incurred.

Impairment of Long-Lived Assets

The Company evaluates its long-lived assets, such as property and equipment, net and lease right-of-use assets, for impairment whenever events or changes in circumstances indicate that the carrying value of assets may not be recoverable. Recoverability of these assets is measured by comparing their carrying value to the future net undiscounted cash flows the assets are expected to generate over their remaining economic life. If such assets are considered to be impaired, the amount of any impairment is measured as the difference between their carrying value

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and their fair value. If the useful life is shorter than originally estimated, the Company amortizes the remaining carrying value over the revised shorter useful life.

Leases

The Company determines if an arrangement is or contains a lease at inception. Operating leases are recorded on the consolidated balance sheets with right-of-use assets representing the Company's right to use an underlying asset for the lease term and lease liabilities representing the Company's obligation to make lease payments. Operating lease ROU assets and liabilities are recognized at the lease commencement date based on the present value of lease payments over the lease term. Operating lease right-of-use assets also include the effect of any lease payments made prior to or on lease commencement and excludes lease incentives and initial direct costs incurred, as applicable. As the implicit rate in the Company's leases is typically unknown, the Company uses its incremental borrowing rate based on the information available at the lease commencement date in determining the present value of future lease payments. The Company gives consideration to its credit risk, the term of the lease, and total lease payments and adjusts for the impacts of collateral as necessary when calculating its incremental borrowing rates. The lease terms may include options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. Operating lease expense is recognized on a straight-line basis over the lease term. Variable lease payments are recorded as an expense in the period incurred.

The Company has elected to not separate lease and non-lease components for any leases within its existing classes of assets and, as a result, accounts for any lease and non-lease components as a single lease component. The Company has also elected not to apply the recognition requirement for leases with a term of 12 months or less.

The Company entered into subleases for its Alameda manufacturing facility as well as for portions of the Company's headquarters, which are being accounted for under lessor accounting. The nature of these subleases did not relieve the Company of its obligations under the original leases. Each of these respective leases were classified as operating leases and, as such, the Company continues to account for the original leases as it did prior to entering into the sublease agreements. If the total remaining lease cost on the original lease for the term of the sublease is greater than the anticipated sublease income, the long-lived asset is assessed for impairment. Income from the subleases are recorded in other income (expense) within the consolidated statement of operations and comprehensive loss. When the Company determines that collectibility of rent payments under a sublease are no longer probable in accordance with ASC 842, the Company recognizes sublease income only to the extent of cash received. Any sublease income previously recognized in excess of cash collected is reversed in the period collectibility was determined to be not probable.

Revenue Recognition

The Company recognizes collaboration revenue in accordance with ASC 606, *Revenue from Contracts with Customers*. For the year ended December 31, 2025, collaboration revenue related to an option exercise period extension fee under the BlueRock Agreement with a related party ([Note 12](#)) and was recognized ratably over the extension period of 12 months.

Research and Development

Research and development costs are expensed as incurred. Research and development costs consist of salaries and other personnel-related expenses, including associated stock-based compensation expense, lab supplies and services, in-license and technology costs, consulting and sponsored research fees, manufacturing costs, facility costs and depreciation expense.

Nonrefundable advance payments for goods and services that will be used or received in future research and development activities are deferred and recognized as an expense in the period in which the related goods are delivered, or services are performed. Similarly, GeneFab prepaid expenses are recognized as an expense in the period in which the related manufacturing or research activities are performed.

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The Company has acquired and may continue to acquire the rights to gene circuit or other technologies from third parties. The upfront payments to acquire a license, product, or rights, as well as any annual maintenance charges and future milestone payments, are immediately recognized as research and development expense provided that there is no alternative future use of the rights in other research and development projects.

GeneFab Option

The option granted to GeneFab as part of the GeneFab transaction meets the definition of a derivative under ASC 815, *Derivatives and Hedging* (“ASC 815”), and does not meet the criteria for equity classification. The derivative liability is recorded at its fair value on issuance and subsequently remeasured each reporting period with changes in fair value recorded in other income (expense) in the consolidated statements of operations and comprehensive loss until settlement. The fair value of the derivative liability was determined using a Black-Scholes option pricing model incorporating assumptions such as the probability that a suitable license agreement for GeneFab obtaining the option would be signed, the fair value of the Company’s common stock, the risk-free rate, volatility, expected term and dividend yield.

Additional Closing Option

The option granted to a certain investor to purchase additional convertible preferred stock at a later date as part of the private placement transaction in December 2024 (“Preferred Stock Tranche Liability”) was determined to be a freestanding financial instrument that meets the definition of a liability under ASC 480, *Distinguishing Liabilities from Equity* (“ASC 480”), and does not meet the criteria for equity classification. The liability was recorded at its fair value on issuance and subsequently remeasured each reporting period with changes in fair value recorded in other income (expense) in the consolidated statements of operations and comprehensive loss until settlement. The fair value of the derivative liability was determined using a Black-Scholes option pricing model. The Black-Scholes option-pricing model requires the use of subjective assumptions, including the expected volatility of our common stock, the assumed dividend yield, the risk-free interest rate and the fair value of the redeemable convertible preferred stock on the initial valuation date and subsequent remeasurement at period end. Upon exercise of the option on December 31, 2024, the Company remeasured the liability and reclassified the final value associated with the preferred stock tranche liability to the carrying value of the Series A redeemable convertible preferred stock.

Commitments and Contingencies

The Company recognizes a liability with regard to loss contingencies when it believes it is probable a liability has occurred and the amount can be reasonably estimated. If some amount within a range of loss appears at the time to be a better estimate than any other amount within the range, the Company accrues that amount. When no amount within the range is a better estimate than any other amount, the Company accrues the minimum amount in the range. The Company has not recorded any such liabilities as of December 31, 2025 and 2024.

Stock-based Compensation

The Company recognizes stock-based compensation expense related to employees and non-employees based on the grant date fair value of the awards. For awards that vest solely based on continued service, stock-based compensation expense is recognized in the consolidated statements of operations and comprehensive loss using the straight-line method. For performance and market awards, stock-based compensation expense is recognized over the requisite service period using the accelerated attribution method. No compensation expense will be recognized for awards subject to performance conditions until it is probable that the performance condition will be met.

The Company recognizes stock-based compensation expense related to purchase rights issued pursuant to its employee stock purchase plan on a straight-line basis over the offering period.

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Net Loss Per Share

The Company follows the two-class method when computing net loss per share as the Company has issued shares that meet the definition of participating securities. The two-class method determines net loss per share for each class of common and participating securities according to dividends declared or accumulated and participation rights in undistributed earnings. The two-class method requires loss available to common stockholders for the period to be allocated between common and participating securities based upon their respective rights to share in undistributed earnings as if all loss for the period had been distributed.

Basic earnings per share is computed by dividing net loss attributable to common stockholders by the weighted-average number of common shares outstanding for the period. Diluted earnings per share is computed by adjusting net earnings for an allocation of the undistributed earnings and dividing it by the weighted-average number of common shares outstanding for the period, including potential dilutive common shares. For purposes of this calculation, the Company's stock options issued and outstanding, restricted stock units outstanding, GeneFab Option, warrants to purchase common stock issued in connection with Series A redeemable convertible preferred stock, series A redeemable convertible preferred stock, performance stock units outstanding, contingent earnout common stock, and unvested early exercised common stock are considered potential dilutive common shares.

The Company's participating securities represents the Series A redeemable convertible preferred stock, which contractually entitle the holders of such securities to participate in dividends but do not contractually require the holders of such securities to participate in losses of the Company. Accordingly, in periods in which the Company reports a net loss, such losses are not allocated to such participating securities. In periods in which the Company reports a net loss attributable to common stockholders, diluted net loss per share attributable to common stockholders is the same as basic net loss per share attributable to common stockholders, since dilutive common shares are not assumed to have been issued if their effect is anti-dilutive.

Income Taxes

The Company accounts for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the consolidated financial statements. Under this method, deferred tax assets and liabilities are determined on the basis of the differences between the consolidated financial statements and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in the consolidated statement of operations and comprehensive loss in the period that includes the enactment date.

The Company recognizes net deferred tax assets to the extent that the Company believes these assets are more likely than not to be realized. In making such a determination, management considers all available positive and negative evidence, including future reversals of existing taxable temporary differences, projected future taxable income, tax-planning strategies, and results of recent operations. If management determines that the Company would be able to realize its deferred tax assets in the future in excess of their net recorded amount, management would make an adjustment to the deferred tax asset valuation allowance, which would reduce the provision for income taxes.

The Company records uncertain tax positions on the basis of a two-step process whereby (i) management determines whether it is more likely than not that the tax positions will be sustained on the basis of the technical merits of the position and (ii) for those tax positions that meet the more-likely-than-not recognition threshold, management recognizes the largest amount of tax benefit that is more than 50 percent likely to be realized upon ultimate settlement with the related tax authority. The Company recognizes interest and penalties related to unrecognized tax benefits within income tax expense. Any accrued interest and penalties are included within the related tax liability. To date, there have been no interest charges or penalties related to unrecognized tax benefits.

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Recently Adopted Accounting Standards

In December 2023, the FASB issued ASU No. 2023-09, *Income Taxes (Topic 740): Improvements to Income Tax Disclosures*, which improves income tax disclosures by requiring consistent categories and greater disaggregation of information in the effective tax rate reconciliation and income taxes paid disaggregated by jurisdiction. It also includes certain other amendments to improve the effectiveness of income tax disclosures. The Company adopted ASU 2023-09, and applied the new disclosure requirements prospectively to the current annual period. Prior period disclosures have not been adjusted to reflect the new disclosure requirements. Refer to Note 11, Income Tax for the disclosure.

Recent Accounting Standards

In November 2024, the FASB issued ASU No. 2024-03, *Income Statement-Reporting Comprehensive Income-Expense Disaggregation Disclosures: Disaggregation of Income Statement Expenses*, which requires disclosures about significant expense categories, including but not limited to, purchases of inventory, employee compensation, depreciation, amortization, and selling expenses, along with qualitative descriptions of certain other types of expenses. This ASU is effective for fiscal years beginning after December 15, 2026, and interim periods within fiscal years beginning after December 15, 2027, with early adoption permitted. The Company is currently evaluating this ASU to determine its impact on the Company's disclosure, but does not expect this update to have a material impact on the Company's consolidated financial statements other than additional information that will be provided in the footnote disclosure.

In December 2025, the FASB issued ASU No. 2025-10, *Government Grants (Topic 832): Accounting for Government Grants Received by Business Entities*, which establishes authoritative guidance in U.S. GAAP about accounting for government grants received by business entities and clarifies the appropriate accounting in an effort to reduce diversity in practice, and increase consistency of application across business entities. This guidance is effective for annual reporting periods beginning after December 15, 2028, and interim reporting periods within those annual reporting periods. Adoption of this ASU can be applied using a modified prospective approach, a modified retrospective approach, or a retrospective approach. The Company is currently evaluating the impact of adopting ASU 2025-10 and does not expect the adoption of this guidance to have a material impact on its consolidated financial statements.

In December 2025, the FASB issued ASU No. 2025-11, *Interim Reporting (Topic 270): Narrow-Scope Improvements*, which clarifies interim disclosure requirements and the applicability of Topic 270. The objective of the amendments is to provide further clarity about the current interim disclosure requirements. The ASU is effective for interim reporting periods within annual reporting periods beginning after December 15, 2027. Adoption of this ASU can be applied either a prospective or a retrospective approach. Early adoption is permitted. The Company is currently evaluating the impact of adopting ASU 2025-11 and does not expect the adoption of this guidance to have a material impact on its consolidated financial statements.

In December 2025, the FASB issued ASU No. 2025-12, *Codification Improvements*, which addresses thirty-three items, representing the changes to the Codification that (1) clarify, (2) correct errors, or (3) make minor improvements. Generally, the amendments in this Update are not intended to result in significant changes for most entities. This amendments in this ASU are effective for interim reporting periods within annual reporting periods beginning after December 15, 2026. The adoption method of this ASU may vary on an issue-by-issue basis. Early adoption is permitted. The Company is currently evaluating the impact of adopting ASU 2025-12 and does not expect the adoption of this guidance to have a material impact on its consolidated financial statements.

Note 3. GeneFab Transaction

On August 7, 2023, the Company entered into a framework agreement (the "GeneFab Framework Agreement") with GeneFab and Valere Bio, Inc. ("Valere"), a Delaware corporation and the parent company of GeneFab, which is wholly owned by Celadon Partners, LLC, pursuant to which the Company, subject to the terms and conditions therein, sold, assigned and transferred its rights, title and interest in certain of the assets and contractual rights,

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including all of the Company's equipment at the Company's facilities in Alameda and certain of the Company's non-oncology license rights, intellectual property related to the schematics for and design of the Alameda facility. As a result, the Company subleased to GeneFab its premises under a lease for the Alameda facility (the "Alameda Sublease") on August 27, 2023. Refer to Note 5. Operating Leases for GeneFab Sublease considerations.

On August 7, 2023, the Company and GeneFab also entered into a development and manufacturing services agreement ("DMSA"), pursuant to which GeneFab will provide certain services to the Company using the subleased Alameda facility and acquired equipment. The Company also entered into a transition services agreement with GeneFab whereby certain services are to be provided by each party to the other party during a transition period beginning on August 7, 2023 (the "Transition Services Agreement"). The DMSA was amended and restated on December 10, 2024 as described below. GeneFab is a related party and the Company reports transactions with GeneFab under ASC 850, *Related Party Disclosures* ("ASC 850"). Refer to Note 12. Related Parties for GeneFab related party considerations.

On June 12, 2024, the Company subleased to GeneFab a portion of the Company's headquarters' lease (the "GeneFab HQ Sublease"). The Alameda Sublease and the GeneFab HQ Sublease are collectively referred to as the "GeneFab Sublease". Refer to Note 5. Operating Leases and Note 15. Subsequent Events for developments subsequent to year end.

On December 10, 2024, in connection with the private placement described in further detail in Note 6. Stockholders' Equity, the Company and GeneFab entered into an amended and restated DMSA (the "2024 Amended and Restated DMSA").

GeneFab prepaid expenses - related party

Under the GeneFab Framework Agreement entered into on August 7, 2023, the total consideration in connection with the transaction was \$37.8 million, of which \$18.9 million was received by the Company on August 7, 2023 and such payment was netted against prepayment due to GeneFab for future manufacturing and research activities under the DMSA. The \$18.9 million as initially recorded in GeneFab prepaid expenses - related party on the consolidated balance sheets in 2023.

On December 10, 2024, the Company agreed to make an additional advance payment of \$10.0 million to GeneFab under the 2024 Amended and Restated DMSA, of which \$6.0 million and \$4.0 million was paid in December 2024 and January 2025, respectively.

In June 2025, the Company made an additional advance payment of \$2.5 million to GeneFab for additional work as part of the 2024 Amended and Restated DMSA.

In March 2026, the Company signed a letter agreement with GeneFab to convert \$3.4 million of past-due rent related to the Alameda Sublease into an additional prepaid for additional work under the 2024 Amended and Restated DMSA. Refer to Note 15. Subsequent Events for additional information.

As of December 31, 2025, \$3.6 million of these prepayments were remaining to be amortized against future manufacturing and research activities, which was recorded in GeneFab prepaid expenses - related party on the consolidated balance sheets.

GeneFab Economic Share

On August 7, 2023, the Company and GeneFab entered into a seller economic share agreement (the "GeneFab Economic Share"), pursuant to which the Company will be entitled to receive ten percent of the realized gains of GeneFab's parent company arising and resulting from any cash or in-kind distributions from GeneFab in connection with a dividend or sale event, subject to the terms and conditions of the GeneFab Economic Share. The Company elected to account for the GeneFab Economic Share under the fair value option in ASC 825, *Financial Instruments*, and the GeneFab Economic Share was recorded as an asset in GeneFab Economic Share - related party on

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consolidated balance sheet at its fair value of \$1.8 million on August 7, 2023. As of December 31, 2025 and 2024, the Company determined that the fair value of the GeneFab Economic Share was zero. Changes in fair value of the GeneFab Economic Share are reported as a component of other income (expense) in the consolidated statements of operations and comprehensive loss. Refer to [Note 10. Fair Value Measurements](#).

GeneFab Option

GeneFab was granted an option to purchase up to 1,963,344 shares (i.e. up to \$20.0 million worth) of the Company's common stock at a per share purchase price of \$10.18670 (the "GeneFab Option"). The GeneFab Option becomes exercisable upon the execution of the license agreement, no later than August 7, 2026. The GeneFab Option may be exercised in installments of common stock equal to no more than 19.9% of the outstanding shares of the Company's common stock as of August 7, 2023. The purchase of the remaining shares under the GeneFab Option requires approval by the Company's stockholders. The Company determined that the GeneFab Option was a derivative as the terms of the instrument contain certain provisions that preclude equity classification in accordance with ASC 815, *Derivatives and Hedging*. As such, the GeneFab Option was recorded as a liability in GeneFab Option - related party on the consolidated balance sheet at its fair value of \$9.6 million on August 7, 2023. As of December 31, 2025 and 2024, the Company determined that the fair value of the GeneFab Option was zero. The GeneFab Option was remeasured each reporting period with changes from remeasurement included in other income (expense) in the consolidated statements of operations and comprehensive loss. Refer to [Note 10. Fair Value Measurements](#).

Consolidation and Related Party

The Company determined that GeneFab is a variable interest entity since its total equity at risk is not sufficient to finance its activities without additional subordinated financial support. The Company performed a qualitative analysis at each reporting date to determine if it is the primary beneficiary of GeneFab. Based on this assessment, the Company has determined that it does not have the power to direct the activities of GeneFab that most significantly impact GeneFab's economic performance. Accordingly, the Company has concluded that it is not the primary beneficiary and therefore does not consolidate GeneFab. There were no material changes to the Company's involvement with GeneFab during the years ended December 31, 2025 and 2024 that would have resulted in a change to this conclusion.

GeneFab is a related party and the Company reports transactions with GeneFab under ASC 850, *Related Party Disclosures* ("ASC 850"). Refer to [Note 12. Related Parties](#).

Note 4. Other Financial Statement information

Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets consisted of the following:

(in thousands)	December 31,	
	2025	2024
Prepaid expenses	\$ 1,340	\$ 1,321
Deposits	315	335
Other	—	584
Total prepaid expenses and other current assets	<u>\$ 1,655</u>	<u>\$ 2,240</u>

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Property and Equipment, Net

Property and equipment, net consisted of the following:

(in thousands)	December 31,	
	2025	2024
Leasehold improvements ⁽¹⁾	\$ 17,748	\$ 22,660
Lab equipment	7,565	7,550
Furniture and fixtures	331	331
Computer equipment and software	299	299
Property and equipment at cost	25,943	30,840
Less: accumulated depreciation	(13,057)	(9,551)
Property and equipment, net	\$ 12,886	\$ 21,289

(1) For the year-ended December 31, 2025, the Company recognized an impairment charge of \$4.9 million for the leasehold improvements associated with its Alameda facility. See [Note 5](#) for additional information.

Accrued Expenses and Other Current Liabilities

Accrued expenses and other current liabilities consisted of the following:

(in thousands)	December 31,	
	2025	2024
Accruals related to:		
Employee-related expenses	\$ 2,365	\$ 2,542
Clinical trials	2,070	763
Professional and other service fees	846	2,647
Other current liabilities	73	433
Total accrued expenses and other current liabilities	\$ 5,354	\$ 6,385

Other Non-current Liabilities

Other non-current liabilities consisted of the following:

(in thousands)	December 31,	
	2025	2024
Liabilities associated with CIRM Grant	\$ 7,950	\$ 4,900
Other	149	149
Total other non-current liabilities	\$ 8,099	\$ 5,049

CIRM Grant

On August 3, 2024, the Company executed an agreement with California Institute for Regenerative Medicine (“CIRM”) for a total grant award of \$8.0 million (“CIRM Grant”) in support of the research project related to the ongoing clinical development of SENTI-202. The award is payable to the Company upon achievement of milestones that are primarily based on patient enrollment in the Company’s SENTI-202 clinical trial. Under the terms of the CIRM Grant, the Company is obligated to co-fund up to \$4.8 million and is required to provide CIRM timely progress and financial update reports.

Under the terms of the CIRM Grant, the Company is obligated to pay royalties and licensing fees based on 0.1% of net commercial revenue of CIRM-funded product candidates or CIRM-funded technology for every \$1.0 million

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of CIRM funding received. These payments would commence upon the first commercial sale of an applicable product and continue for either 10 years from such first commercial sale or until the total royalties paid equal nine times the original CIRM Grant, whichever occurs first. If no CIRM-funded products are commercialized, no royalty or licensing fee payments would be due. As an alternative to revenue sharing, the Company has the option to convert the CIRM Grant to a loan. As of December 31, 2025, the Company has not elected to convert the CIRM Grant to a loan. In the event the Company exercises its right to convert the CIRM Grant to a loan, the Company would be obligated to repay the loan within 10 business days of making such election. Repayment amounts vary dependent upon the phase of clinical development of SENTI-202 at the time of the Company's election, ranging from 80% to 100% plus interest at 10% plus the 90-day Secured Overnight Financing Rate.

As presented in the table above, the Company received an aggregate of \$8.0 million and \$4.9 million from the CIRM Grant as of December 31, 2025 and 2024, respectively.

Note 5. Operating Leases

Lessee Accounting

The Company's operating leases are for the corporate headquarters located in South San Francisco, California ("HQ lease") and for additional office and laboratory space located in Alameda, California ("Alameda lease"). The HQ lease has an initial term of eight years expiring in 2027, with an option to renew for an additional eight years unless canceled by either party. The Alameda lease has an initial term of eleven years expiring in 2032, with an option to renew the lease for up to two additional terms of five years. The exercise of these renewal options is not recognized as part of the right-of-use assets and lease liabilities, as the Company did not conclude, at the commencement date of the leases, that the exercise of renewal options or termination options was reasonably certain.

Lease costs are summarized as follows:

(in thousands)	Year Ended December 31,	
	2025	2024
Operating lease cost	\$ 5,123	\$ 5,236
Variable lease cost ⁽¹⁾	1,028	1,040
Short-term lease cost	22	34
Total lease cost	<u>\$ 6,173</u>	<u>\$ 6,310</u>

(1) Variable lease costs comprise primarily of common area maintenance charges for the operating leases, which is dependent upon usage.

Supplemental cash flow information related to the leases was as follows:

(in thousands)	Years Ended December 31,	
	2025	2024
Operating cash flows from operating leases	\$ (7,478)	\$ (7,252)

Weighted-average remaining lease terms and discount rates were as follows:

	December 31, 2025
Weighted-average remaining lease term (years)	6.0
Weighted-average discount rate	9.2 %

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As of December 31, 2025, maturities of lease liabilities were as follows:

	(in thousands)
2026	7,712
2027	5,769
2028	4,855
2029	5,000
2030	5,150
Thereafter	9,379
Total undiscounted lease payments	37,865
Less imputed interest	(8,974)
Total lease liabilities	\$ 28,891

Impairment of Long-lived Assets

During the year ended December 31, 2025, the Company identified impairment indicators related to the asset group associated with the GeneFab Sublease. GeneFab did not remit sublease payments in accordance with the contractual terms, resulting in an outstanding receivable balance. Accordingly, the Company performed a recoverability test under ASC 360, *Property, Plant, and Equipment*, comparing the estimated undiscounted future cash flows expected to be generated by the primary asset within the asset group to the carrying amount of the asset group.

As part of this analysis, new information obtained during the subsequent event period provided additional evidence relevant to the measurement of the cash flows associated with the asset group. Specifically, this was a result of the Lease Amendment and associated agreements entered into on March 17, 2026. Refer to [Note 15. Subsequent Events](#) for additional information of the Lease Amendment and associated agreements. As a result, the analysis indicated that the carrying amount was not recoverable as of December 31, 2025. The fair value of the primary asset within the asset group was then estimated using a discounted cash flow model, which incorporated expected future cash flows associated with the subleased spaces, reflecting assumptions regarding the timing and collectibility of sublease payments. This fair value measurement represents a non-recurring measurement and was classified as a Level 3 measurement within the fair value hierarchy under ASC 820, *Fair Value Measurement*, as it is based on significant unobservable inputs, including projected cash flows and the selected discount rate. The cash flows were discounted using a market participant discount rate commensurate with the risks inherent in those cash flows. As a result, the Company recognized an impairment charge of \$5.1 million for the year ended December 31, 2025. The Company will continue to monitor GeneFab's payment status, collectibility of sublease payments, and other relevant factors that could affect the recoverability of the underlying assets in future periods.

In the comparable prior-year period, the Company identified an impairment indicator related to the HQ lease as a result of entering into subleases for a portion of the headquarters premises. The Company compared the estimated undiscounted future cash flows to the carrying amount of the asset group, which included the right-of-use asset and related leasehold improvements allocable to the subleased space, and concluded that the carrying amount was not recoverable. The fair value of the asset group was then determined using a discounted cash-flow model that incorporated the expected net cash flows for the term of the sublease, including estimated residual cash flows, and an estimated borrowing rate of a market-participant subtenant. As a result, the Company recognized an impairment charge of \$0.3 million during the year ended December 31, 2024.

Lessor Accounting

GeneFab Subleases - Related Party (Note 12)

On August 27, 2023, the Company entered into a sublease with GeneFab to sublease the facility included in the Alameda lease, expiring in September 2032. The facility supports the clinical manufacturing of the Company's

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chimeric antigen receptor natural killer (CAR-NK) programs, including SENTI-202. Total undiscounted payments to be received by the Company over the term of the Alameda lease sublease were approximately \$44.1 million.

On June 12, 2024, the Company entered into a sublease with GeneFab for a portion of the Company's HQ lease. Total undiscounted payments to be received by the Company over the term of the HQ lease sublease were approximately \$1.3 million.

During the three months ended September 30, 2025, the Company determined that collectibility of certain rent payments under its related-party sublease with GeneFab were no longer probable in accordance with ASC 842, *Leases* ("ASC 842") and that the Company should recognize sublease income only to the extent of cash received. As a result, for the three months ended September 30, 2025, the Company reversed \$3.3 million of previously recognized sublease income in accordance with ASC 842 and will recognize future lease income only as payments are received. As of December 31, 2025, based on the lease amendments mentioned in [Note 15, Subsequent Events](#), the sublease income amounts were deemed probable and subsequently recognized. Refer to [Note 15, Subsequent Events](#) for additional information.

Alameda Lease Default

The Company's obligations under the Alameda lease are expected to be substantially funded by sublease payments from GeneFab. In September 2025, the Company received a notice of default from the landlord of the Alameda lease, and the Company was in default for nonpayment of rent in the amount of approximately \$0.4 million. As of December 31, 2025, the nonpayment of rent for the Alameda lease was approximately \$1.7 million. As of December 31, 2025, the Alameda lease had not been terminated, and the Company continues to recognize the right-of-use asset and lease liability associated with the Alameda lease. Subsequent to year end, the default no longer exists as a result of the Lease Amendment entered into with the Landlord. Refer to [Note 15, Subsequent Events](#).

BKPBIOTECH and JLSA2 Therapeutics Sublease

The Company subleased a portion of the Company's HQ lease to BKPBIOTECH, Inc. and JLSA2 Therapeutics, Inc. The subleases commenced in October 2024 and will expire on April 30, 2027. Total undiscounted payments to be received by the Company over the term of the HQ lease sublease were approximately \$1.4 million. The sublease contains customary events of default, representations, warranties and covenants. In March 2026, the sublease was amended to expand the premises leased by BKPBIOTECH, Inc. and JLSA2 Therapeutics, Inc. within the Company's headquarters, with the related increase in sublease rent effective April 2026. As a result, as of December 31, 2025, the Company's future sublease payments are expected to be approximately \$1.4 million.

As of December 31, 2025, maturities of the Company's sublease payments were as follows:

	(in thousands)
2026	\$ 5,680
2027	5,122
2028	4,891
2029	5,037
2030	5,188
Thereafter	8,070
Total undiscounted sublease payments	<u>\$ 33,988</u>

Subsequent to December 31, 2025, the Company entered into an amendment to its lease agreement for the Alameda facility, which reduced the leased premises and corresponding future lease payments. As a result, the Company's future sublease payments are expected to be approximately \$21.7 million. Refer to [Note 15, Subsequent Events](#).

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A summary of total sublease income was as follows:

(in thousands)	Years Ended December 31,	
	2025	2024
Sublease income - base rent	\$ 4,550	\$ 5,170
Sublease income - variable	1,703	1,438
Total sublease income ⁽¹⁾	\$ 6,253	\$ 6,608

(1) For the year ended December 31, 2025, \$5.4 million was recorded in GeneFab sublease income - related party on the consolidated statement of operations, and \$0.8 million was recorded in other income on the consolidated statement of operations. For the year ended year ended December 31, 2024, \$6.4 million was recorded in GeneFab sublease income - related party on the consolidated statement of operations, and \$0.2 million was recorded in other income on the consolidated statement of operations.

Note 6. Stockholders' Equity

Common Stock

Holders of common stock are entitled to one vote per share, and to receive dividends and, upon liquidation or dissolution, are entitled to receive all assets available for distribution to stockholders. The holders have no preemptive or other subscription rights, and there are no redemption or sinking fund provisions with respect to such shares. Common stock was subordinate to the redeemable convertible preferred stock with respect to dividend rights and rights upon liquidation, winding up, and dissolution of the Company. Through December 31, 2025, no cash dividends have been declared or paid.

On July 10, 2024, the Company's Board of Directors (the "Board") approved a reverse stock split of the common stock, \$0.0001 par value, at a ratio of 1-for-10. Effective as of 5:00 p.m. Eastern Time on July 17, 2024, the Company filed the Reverse Stock Split Amendment and effected a 1-for-10 reverse stock split of its shares of common stock (the "Reverse Stock Split"). All common stock amounts and references have been retroactively adjusted for all figures presented to reflect this split unless specifically stated otherwise. No fractional shares were issued in connection with the Reverse Stock Split. Stockholders who would have otherwise been entitled to receive fractional shares as a result of the Reverse Stock Split were entitled to a cash payment in lieu thereof at a price equal to the fraction to which the stockholder would have otherwise been entitled multiplied by the closing sales price per share of the common stock (as adjusted for the Reverse Stock Split) on the Nasdaq Capital Market on July 17, 2024, the last trading day immediately preceding the effective time of the Reverse Stock Split. Trading of the Company's common stock on the Nasdaq Capital Market commenced on a split-adjusted basis as of market open on July 18, 2024, under the existing trading symbol "SNTI."

2025 ATM Agreement

On March 20, 2025, the Company entered into a Sales Agreement (the "2025 ATM Agreement") with Leerink Partners LLC ("Leerink Partners") with respect to an at-the-market offering program under which the Company may offer and sell, from time to time at its sole discretion, up to a maximum aggregate offering price of \$17.5 million of its common stock through Leerink Partners as its sales agent. Under the 2025 ATM Agreement, the Company is not obligated to sell any shares, and either party may suspend or terminate the offering of common stock upon notice to the other party and subject to certain conditions. Leerink Partners will use commercially reasonable efforts, consistent with its normal trading and sales practices, applicable state and federal law, rules and regulations and the rules of The Nasdaq Capital Market, to sell shares from time to time based upon the Company's instructions, including any price, time or size limits specified by the Company. The Company pays Leerink Partners a commission of equal to 3.0% of the gross proceeds of any common shares sold, and has agreed to reimburse certain fees and disbursements and provide Leerink Partners with customary indemnification and contribution rights. For the year ended December 31, 2025, the Company sold 4,833,477 shares of common stock under the 2025 ATM Agreement at a weighted average price of \$2.38 per share, resulting in gross proceeds of \$11.5 million and net proceeds of \$10.6 million after sales agent commissions and offering costs.

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Common Stock Purchase Agreement

On August 31, 2022, the Company and Chardan Capital Markets LLC (“Chardan”) entered into a Common Stock Purchase Agreement and a Registration Rights Agreement, which was amended and restated on July 16, 2024 to update the volume weighted average price purchase mechanics of the equity facility to permit Intraday Volume Weighted Average Price (“VWAP”) Purchases (collectively referred to as the “A&R Purchase Agreement”). Pursuant to the A&R Purchase Agreement, the Company had the right, in its sole discretion, to sell to Chardan up to the lesser of (i) \$50.0 million of newly issued shares of the Company’s common stock, and (ii) the Exchange Cap (as defined below) (subject to certain conditions and limitations), from time to time during the 36-month term of the A&R Purchase Agreement. As consideration for Chardan’s commitment to purchase shares of common stock at the Company’s direction upon the terms and subject to the conditions set forth in the A&R Purchase Agreement, the Company issued 10,000 shares of its common stock to Chardan and paid a \$0.4 million document preparation fee, upon execution of the A&R Purchase Agreement. On March 17, 2025, the Company terminated the A&R Purchase Agreement. Prior to termination, the Company issued and sold to Chardan an aggregate of 384,313 shares of common stock under the A&R Purchase Agreement, for aggregate net proceeds of \$3.0 million. For the year ended December 31, 2025, no shares were issued under the A&R Purchase Agreement. For the year ended December 31, 2024, 244,313 shares were issued under the A&R Purchase Agreement.

Private Placement

The Company’s Board of Directors has the authority to issue \$0.0001 par value preferred stock in one or more series and to establish from time to time the number of shares to be included in each such series, by adopting a resolution and filing a certification of designation. Voting powers, designations, powers, preferences and relative, participating, optional, special and other rights shall be stated and expressed in such resolutions.

On December 2, 2024, the Company entered into a securities purchase agreement with certain investors in which the Company agreed to sell, in a private placement (the “Offering”), (i) up to 21,157 shares of Series A redeemable convertible preferred stock, par value \$0.0001 per share, for an aggregate offering price of \$47.6 million and (ii) accompanying warrants to purchase up to 31,735,500 shares of common stock, par value \$0.0001 per share. Each share of Series A redeemable convertible preferred stock will be issued at \$2,250.00 per share and, subject to Stockholder Approval (defined below), is convertible into 1,000 shares of common stock. Each Warrant has an exercise price per share of \$2.30. The Warrants are exercisable at any time on or after the Stockholder Approval and on or prior to the five year anniversary of the original issuance date. A holder of a Warrant may not exercise the Warrant if the holder, together with its affiliates, would beneficially own more than 4.99% (or, at the election of the holder, 9.99%) of the number of shares of the common stock outstanding immediately after giving effect to such exercise. A holder of a Warrant may increase or decrease this percentage not in excess of 45.00% by providing at least 61 days’ prior notice to the Company. As of December 31, 2025, there had been no Warrant exercise.

On December 9, 2024, the Company closed the initial tranche of the Offering, in which the Company issued 16,713 shares of Series A redeemable convertible preferred stock and Warrants to purchase 25,069,500 shares of common stock for aggregate net proceeds of \$35.2 million, net of issuance costs of \$2.4 million. Additionally, an investor had the option to purchase up to an additional 4,444 shares of Series A redeemable convertible preferred stock and Warrants to purchase 6,666,000 shares of common stock at a subsequent closing (“Second Tranche”). On December 31, 2024, the Company closed the Second Tranche of the Offering, in which the Company issued 4,444 shares of Series A redeemable convertible preferred stock and Warrants to purchase 6,666,000 shares of common stock for aggregate net proceeds of \$9.9 million, net of issuance costs of \$0.1 million.

On March 6, 2025, at a special meeting of the Company’s stockholders (the “Special Meeting”), the Company’s stockholders approved the issuance of common stock in accordance with Nasdaq Listing Rule 5635 upon (i) conversion of Series A redeemable convertible preferred stock and (ii) the exercise of warrants to purchase shares of common stock. Subsequently, on March 10, 2025, the Company converted the outstanding shares of Series A redeemable convertible preferred stock into 21,157,000 shares of common stock, at the conversion price of \$2.25 per share, subject to the terms and limitations contained in the Certificate of Designation.

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Dividend Rights

Dividends shall accrue at the rate per annum of 18% (“Accruing Dividends”), compounded annually from June 30, 2025 on any unpaid dividends. Accruing Dividends shall accrue on a quarterly basis whether or not declared, and such Accruing Dividends shall be payable only when, as, and if declared by the Board of Directors. Accruing Dividends shall be payable at the option of the Company in cash, additional shares of Series A redeemable convertible preferred stock, or any combination thereof, and shall be paid on June 30 and December 31 of each calendar year with respect to any shares of Series A redeemable convertible preferred stock then outstanding. The first dividend payment date shall be June 30, 2025, but shall not be payable on any shares of Series A redeemable convertible preferred stock that prior to such date have been converted into common stock. In the event all the shares of Series A redeemable convertible preferred stock have been converted into common stock on or before June 30, 2025, no Accruing Dividends shall be payable pursuant to this Certificate of Designation. The Company shall not declare, pay or set aside any dividends on shares of any other class or series of capital stock unless the holders of the Series A redeemable convertible preferred stock then outstanding shall first receive, or simultaneously receive, a dividend on each outstanding share of Series A redeemable convertible preferred stock in an amount at least equal to the sum of the amount of the aggregate Accruing Dividends then accrued on such share of Series A redeemable convertible preferred stock and not previously paid.

Voting Rights

The holders of the Series A redeemable convertible preferred stock have no voting rights, however, so long as at least 6,347 shares of the Series A redeemable convertible preferred stock remain outstanding, the Company shall not, either directly or indirectly by amendment, merger, consolidation, domestication, transfer, continuance, recapitalization, reclassification, waiver, statutory conversion, or otherwise, effect certain acts or transactions, as provided in the Certificate of Designation, without the written consent or affirmative vote of at least a majority of the then outstanding shares of Series A redeemable convertible preferred stock, voting together as a single class.

Conversion Rights

Each share of Series A redeemable convertible preferred stock shall be convertible into a number of shares of common stock equal to original per share price, plus all declared and unpaid dividends, divided by the Conversion Price, rounded down to the nearest whole share of common stock (“Conversion Ratio”). Notwithstanding the foregoing, no share of Series A redeemable convertible preferred stock shall be convertible at any time until on or after the first trading day following the public announcement of Stockholder Approval. After this approval, the Company may, at its option, cause each share of Series A redeemable convertible preferred stock to convert into such number of shares of common stock equal to the product of the Conversion Ratio and the number of shares of Series A redeemable convertible preferred stock to be converted. Additionally, at the option of the Holder of the Series A redeemable convertible preferred stock, each share of Series A redeemable convertible preferred stock shall be convertible into such number of shares of Common Stock equal to the product of the Conversion Ratio and the number of shares of Series A redeemable convertible preferred stock to be converted.

Liquidation Rights

In the event of any voluntary or involuntary liquidation, dissolution or winding up of the Company, including a change of control transaction, or deemed liquidation event (any such event, a “Liquidation”) the holders of shares of Series A redeemable convertible preferred stock then outstanding shall be entitled to be paid out of the assets of the Company available for distribution to its stockholders, before any payment shall be made to the holders of common stock of the Company, an amount in cash equal to the three times the original per share price.

The Company had no redeemable convertible preferred stock authorized or outstanding as of December 31, 2025. As of December 31, 2024, the redeemable convertible preferred stock was summarized as follows:

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(In thousands, except share amounts)	December 31, 2024			
	Shares Authorized	Shares Issued and Outstanding	Net Carrying Value	Aggregate Liquidation Preference
Series A	21,200	21,157	\$ 25,106	\$ 147,647
Total	21,200	21,157	\$ 25,106	\$ 147,647

The Company had reserved shares of its common stock for future issuance as follows:

	December 31 2025	December 31 2024
Stock options issued and outstanding	4,863,455	1,333,030
Restricted stock units outstanding	1,101,825	56,423
Common stock shares available for future issuance under equity plans	2,583,937	270,907
Common stock shares available for future issuance under the 2022 Employee Stock Purchase Plan (the “ESPP”)	127,681	79,387
GeneFab Option	1,963,344	1,963,344
Warrants to purchase common stock issued in connection with Series A redeemable convertible preferred stock	31,735,500	31,735,500
Performance stock units outstanding	—	106,806
Unvested early exercised common stock	—	422
Contingent earnout common stock	—	100,000
Common Stock Purchase Agreement	—	484,944
Series A redeemable convertible preferred stock	—	21,157,000
Total	42,375,742	57,287,763

Note 7. Stock-based Compensation

2016 Stock Incentive Plan (the “2016 Plan”)

The Company’s 2016 Stock Incentive Plan (the “2016 Plan”) provides for the grant of incentive stock options, non-qualified stock options and restricted stock awards to employees, directors, and consultants of the Company. The 2016 Plan was terminated in 2022, and no additional stock awards will be granted under the 2016 Plan. The shares underlying any award granted under the 2016 Plan that are forfeited back to or repurchased or reacquired by the Company, will revert to and again become available for issuance under the 2022 EIP described below.

2022 Equity Incentive Plan (the “2022 EIP”)

The Company adopted the 2022 EIP in June 2022. The 2022 EIP provides for the grant of incentive stock options to employees, and for the grant of non-statutory stock options, stock appreciation rights, restricted stock awards, restricted stock unit awards, performance awards and other forms of awards to employees, directors and consultants.

The exercise price of an options granted under the 2022 EIP shall not be less than the fair market value of a common stock share on the date of grant. With respect to a 10% stockholder, the exercise price of an option granted shall not be less than 110% of the fair value of the common stock share on the date of grant.

Options granted under the 2022 EIP generally vest over four years and expire no later than ten years after the grant date.

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The Company initially reserved 249,273 shares of common stock for issuance under the 2022 EIP. On the first day of each year commencing January 1, 2023, the 2022 Plan will automatically increase by 5% of the outstanding number of shares of common stock of the Company on the last day of the preceding calendar year or such lesser number of shares as approved by the Company's Board of Directors prior to the effective date of the annual increase. In addition, the shares underlying any award granted under the 2016 Plan that are forfeited back to or repurchased or reacquired by the Company, will revert to and again become available for issuance under the 2022 Plan.

On January 1, 2025, the number of shares of common stock reserved for issuance under the 2022 EIP increased by 241,472 shares. On March 6, 2025, the number of shares of common stock available for issuance under the 2022 EIP increased by an additional 4,300,000 shares upon stockholder approval of the amended and restated 2022 EIP at the Special Meeting. As of December 31, 2025, the total number of shares of common stock available for issuance under the 2022 EIP is 460,974.

2022 Inducement Plan (the "2022 IN")

The Company adopted the 2022 IN in August 2022. The 2022 IN provides for the grant of non-statutory stock options, stock appreciation rights, restricted stock awards, restricted stock unit awards, performance awards and other forms of awards to persons not previously an employee of the Company and its affiliates.

The exercise price of an options granted under the 2022 IN shall not be less than the fair market value of a common stock share on the date of grant.

Stock options granted under the 2022 IN generally vest over four years and expire no later than ten years after the grant date.

The Company initially reserved 200,000 shares of common stock for issuance under the 2022 IN.

On March 7, 2025, the Board approved an increase in the total number of shares of common stock available for issuance under the 2022 IN to be 2,500,000 shares. As of December 31, 2025, the total number of shares of common stock available for issuance under the 2022 IN is 2,122,963.

2022 Employee Stock Purchase Plan (the "2022 ESPP")

The Company adopted the 2022 ESPP in June 2022. The 2022 ESPP allows eligible employees to purchase shares of the Company's common stock at a price equal to 85% of the lower of the fair market values of the stock on the first day of an offering or on the date of purchase. The 2022 ESPP operates with rolling offering periods, which are generally 24 months. On November 15, 2023, upon termination of the then-current offering period in accordance with the terms of the 2022 ESPP, the Company suspended the 2022 ESPP and no new offering periods may commence under the 2022 ESPP until such time as later authorized by the Company.

The Company initially reserved 59,258 shares of common stock for issuance under the 2022 ESPP. On the first day of each year commencing January 1, 2023, the 2022 ESPP will automatically increase by 1% of the outstanding number of shares of common stock of the Company on the last day of the preceding calendar year or such lesser number of shares as approved by the Company's Board of Directors prior to the effective date of the annual increase.

On January 1, 2025, the number of shares of common stock reserved for issuance under the 2022 ESPP increased by 48,294 shares. As of December 31, 2025, the total number of shares of common stock available for issuance under the 2022 ESPP is 127,681.

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Stock Options

The following table summarizes the Company's stock option activities and related information under all equity plans, excluding performance awards:

	Number of Options	Weighted-Average Exercise Price	Weighted-Average Remaining Contractual Life (Years)	Aggregate Intrinsic Value (in thousands)
Outstanding at December 31, 2024	942,519	\$ 10.32	8.6	\$ 89
Granted	3,651,681	\$ 3.77		
Forfeited	(114,899)	\$ 9.91		
Outstanding at December 31, 2025	4,479,301	\$ 4.99	8.8	\$ —
Exercisable at December 31, 2025	1,182,117	\$ 7.97	8.3	\$ —

The total intrinsic value of the options exercised during the year ended December 31, 2024 was \$1.2 million.

The weighted-average grant date fair value of options granted during the years ended December 31, 2025 and 2024 was \$2.60 and \$5.79, respectively.

As of December 31, 2025, there was \$8.2 million of total unrecognized compensation cost related to unvested stock options, which is expected to be recognized over a weighted-average period of approximately 1.4 years.

Performance Awards

In connection with the Merger, on December 19, 2021, Legacy Senti approved 840,089 performance awards to existing employees that vest contingent upon the satisfaction of both a four-year service condition and a performance condition tied to the consummation of the Merger. The awards and the associated recognition of stock-based compensation expense were contingent on the Merger being consummated. As of the approval date of the performance awards, Legacy Senti did not have sufficient common stock available for issuance. Upon the Merger, the Company increased the number of shares authorized and 679,607 awards were granted on June 8, 2022.

	Number of Options	Weighted-Average Exercise Price	Weighted-Average Remaining Contractual Life (Years)	Aggregate Intrinsic Value (in thousands)
Outstanding at December 31, 2024	358,943	\$ 99.20	6.9	\$ —
Forfeited	(6,357)	\$ 99.20		
Outstanding at December 31, 2025	352,586	\$ 99.20	6.0	\$ —
Exercisable at December 31, 2025	310,850	\$ 99.20	6.0	\$ —

As of December 31, 2025, there was \$0.1 million of total unrecognized compensation cost related to unvested RSUs, which is expected to be recognized over a weighted-average period of approximately 0.3 year.

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Restricted Stock Units (“RSUs”)

The following table summarizes activity relating to the Company’s restricted stock units:

	Number of Restricted Stock Units	Weighted-Average Grant Date Fair Value
Unvested Balance at December 31, 2024	56,423	\$ 1.58
Granted	1,125,928	\$ 3.46
Vested	(59,421)	\$ 2.75
Forfeited	(21,105)	\$ 3.78
Unvested Balance at December 31, 2025	1,101,825	\$ 3.55

The weighted-average grant date fair value of RSUs granted in the year ended December 31, 2024 was \$1.80. The total fair value as of the respective vesting dates of RSUs that vested during the years ended December 31, 2025 and 2024 was \$0.1 million and nominal, respectively.

As of December 31, 2025, there was \$2.8 million of total unrecognized compensation cost related to unvested RSUs, which is expected to be recognized over a weighted-average period of approximately 1.5 years.

Stock-based Awards Valuation

The fair value of both stock options and the option component of shares purchased under the 2022 ESPP was estimated using the Black-Scholes option pricing model. The description of the significant assumptions used in the model are as follows:

- *Fair Value of Common Stock* — The fair value of common stock will be based on the publicly traded market value.
- *Expected Term* — The expected term represents the period that the Company’s stock options are expected to be outstanding and is determined using the simplified method (based on the mid-point between the vesting date and the end of the contractual term). The expected term for the ESPP purchase rights is the length of the purchase period.
- *Volatility* — The expected volatility is based on the average historical volatility of comparable publicly-traded peer companies, over a period equal to the expected term of the stock option grants, as the Company does not have a trading history for its common stock for a sufficient period of time.
- *Risk-free Rate* — The risk-free rate assumption is based on the U.S. Treasury zero-coupon issues in effect at the time of grant for periods corresponding with the expected term of the option.
- *Dividends* — The Company has never paid dividends on its common stock and does not anticipate paying dividends on common stock. Therefore, the Company uses an expected dividend yield of zero.
- *Forfeitures* — The Company accounts for forfeitures as they occur.

The fair values of stock options were estimated using the Black-Scholes option pricing model with the following weighted-average assumptions:

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	Year Ended December 31,	
	2025	2024
Expected term (in years)	6.0	5.8
Expected volatility	92.0 %	86.6 %
Risk-free interest rate	4.1 %	4.1 %
Dividend yield	—	—

Stock-based Compensation Expense

Total stock-based compensation expense was as follows:

(in thousands)	Year Ended December 31,	
	2025	2024
General and administrative	\$ 4,761	\$ 1,602
Research and development	945	153
Total stock-based compensation expense	<u>\$ 5,706</u>	<u>\$ 1,755</u>

Note 8. Net Loss Per Share

A reconciliation of net loss available to common stockholders and the number of shares in the calculation of basic and diluted net loss per share is as follows:

(in thousands, except share and per share amounts)	Year Ended December 31,	
	2025	2024
Basic and diluted net loss per share:		
Numerator:		
Net loss, basic and diluted	\$ (61,438)	\$ (52,790)
Accretion for Series A redeemable convertible preferred stock	—	(2,522)
Net loss per share attributable to common stockholders, basic and diluted	(61,438)	(55,312)
Denominator:		
Weighted-average shares outstanding, basic and diluted	22,483,391	4,595,946
Net loss per share attributable to common stockholders, basic and diluted	\$ (2.73)	\$ (12.03)

As the Company was in a loss position for all periods presented, basic net loss per share is the same as diluted net loss per share for all periods presented. The following potential common stock securities were excluded from the computation of diluted net loss per share attributable to common stockholders for the periods presented because

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including them would have been anti-dilutive (on an as-converted basis):

	Year Ended December 31,	
	2025	2024
Stock options issued and outstanding	4,863,455	1,333,030
Restricted stock units outstanding	1,101,825	56,423
GeneFab Option	1,963,344	1,963,344
Warrants to purchase common stock issued in connection with Series A redeemable convertible preferred stock	31,735,500	31,735,500
Series A redeemable convertible preferred stock	—	21,157,000
Performance stock units outstanding	—	106,806
Contingent earnout common stock	—	100,000
Unvested early exercised common stock	—	422
Total	39,664,124	56,452,525

Note 9. Cash, Cash Equivalents and Restricted Cash

The following table is a reconciliation of the cash, cash equivalents and restricted cash:

(in thousands)	December 31 2025	December 31 2024
Cash and cash equivalents	\$ 16,420	\$ 48,277
Restricted cash ⁽¹⁾	3,528	3,538
Total	\$ 19,948	\$ 51,815

(1) As of December 31, 2025 and 2024, restricted cash balance primarily consisted of a letter of credit for the Alameda facility lease of \$2.9 million, and a letter of credit for the HQ lease of \$0.5 million.

The following table is a summary of the Company's marketable securities:

(in thousands)	December 31, 2025	
	Amortized Cost	Fair Value
Money market funds	\$ 18,189	\$ 18,189
Classified as:		
Cash equivalents		\$ 14,661
Restricted cash		\$ 3,528

(in thousands)	December 31, 2024	
	Amortized Cost	Fair Value
Money market funds	\$ 39,407	\$ 39,407
Classified as:		
Cash equivalents		\$ 35,869
Restricted cash		\$ 3,538

As of December 31, 2025 and 2024, all of the Company's cash equivalents and restricted cash were marketable securities and no allowance for credit loss was recorded.

Note 10. Fair Value Measurements

The following table summarizes, for assets and liabilities measured at fair value, the respective fair value and the classification by level of input within the fair value hierarchy. No securities have contractual maturities of longer than one year. There were no transfers between Levels 1, 2, or 3 for any of the periods presented.

(in thousands)	December 31, 2025	
	Fair Value	Level 1
Assets		
Money market funds	\$ 18,189	\$ 18,189
Total assets measured at fair value	\$ 18,189	\$ 18,189

(in thousands)	December 31, 2024	
	Fair Value	Level 1
Assets		
Money market funds	\$ 39,407	\$ 39,407
Total assets measured at fair value	\$ 39,407	\$ 39,407

Asset Classified as Level 3

GeneFab Economic Share

The fair value of the GeneFab Economic Share is based on significant unobservable inputs. In determining the fair value of the GeneFab Economic Share, the Company used the option pricing method, which allocates total estimated enterprise value to various classes of equity using the Backsolve method. As of December 31, 2025 and 2024, the Company determined that the fair value of the GeneFab Economic Share was zero due to the low probability of the events triggering the payment underlying the GeneFab Economic Share. For the year ended December 31, 2025, there was no change in fair value for the GeneFab Economic Share.

Liability Classified as Level 3

GeneFab Option

The fair value of the GeneFab Option is based on significant unobservable inputs. In determining the fair value of the GeneFab Option, the Company used a Black-Scholes option pricing model. As of December 31, 2025 and 2024, the Company determined that the fair value of the GeneFab Option was zero due to the probability that a suitable license agreement, which is a condition of GeneFab obtaining the Option, would not be signed. For the year ended December 31, 2025, there was no change in fair value for the GeneFab Option.

Note 11. Income Tax

The Company did not record any income tax expense or benefit during the years ended December 31, 2025 and 2024 and no income taxes were paid. The Company's pretax loss is all domestic. The Company has a net operating loss and has provided a valuation allowance against net deferred tax assets due to uncertainties regarding the Company's ability to realize these assets.

On July 4, 2025, the United States government enacted into law the One Big Beautiful Bill Act (the "OBBBA"). The OBBBA includes a broad range of tax reform provisions affecting businesses. Based on the Company's preliminary assessment, the provisions of the OBBBA are not expected to have a material impact on the Company's consolidated financial statements.

SENTI BIOSCIENCES, INC.
Notes to Consolidated Financial Statements

For the calendar years ended December 31, 2025 and 2024, the tax effects of significant items comprising the Company's deferred taxes are as follows:

(in thousands)	Years Ended December 31,	
	2025	2024
Deferred tax assets:		
Net operating losses	\$ 69,516	\$ 50,961
Capitalized R&D Section 174 expense	11,922	13,509
Tax credits	12,388	10,592
Lease liability	6,067	5,639
Stock-based compensation	961	3,736
Accruals and reserves	497	532
Fixed asset basis and intangible basis	—	438
Total deferred tax assets	101,351	85,407
Deferred tax liabilities:		
Operating lease right-of-use assets	(2,418)	(1,534)
Fixed asset basis and intangible basis	(212)	(2,165)
Total deferred tax liabilities	(2,630)	(3,699)
Valuation allowance	(98,721)	(81,708)
Net deferred taxes	\$ —	\$ —

The Company records the tax benefit of net operating losses, temporary differences, and credit carryforwards as assets to the extent that management assesses that realization is “more likely than not.” Realization of the future tax benefits is dependent on the Company’s ability to generate sufficient taxable income within the carryforward period. Because of the Company's recent history of operating losses, management believes that recognition of the deferred tax assets arising from the above-mentioned future tax benefits is currently not likely to be realized and, accordingly, has provided a valuation allowance.

The valuation allowance increased by approximately \$17.0 million and \$20.5 million during years ended December 31, 2025 and 2024, respectively, and the Company’s deferred tax assets continue to be fully offset by the valuation allowance as at December 31, 2025. For the years ended December 31, 2025 and 2024, the Company did not record an income tax provision.

Net operating losses and tax credit carryforwards as of December 31, 2025 are as follows:

(in thousands)	Amount	Expiration Years
Net operating losses, federal (Post December 31, 2017)	\$ 260,072	Do Not Expire
Net operating losses, federal (Pre January 1, 2018)	\$ 3,508	2036-2037
Net operating losses, state	\$ 202,723	2036-2045
Tax credits, federal	\$ 9,575	2036-2045
Tax credits, state	\$ 7,127	Do Not Expire

Utilization of the net operating loss carryforwards may be subject to a substantial annual limitation due to the ownership change limitations provided by the Internal Revenue Code of 1986, as amended, and similar state provisions. This annual limitation may result in the expiration of net operating losses and credits before utilization. The Company has not performed an analysis to determine the limitation of its net operating loss carryforwards.

SENTI BIOSCIENCES, INC.
Notes to Consolidated Financial Statements

A reconciliation of the provision for income taxes to the amount computed by applying the 21% statutory U.S. federal income tax rate to income before income taxes after the adoption of ASU 2023-09 is as follows:

	Year Ended December 31, 2025	
	(in thousands)	Percent
U.S. federal statutory rate	\$ (12,902)	21.00%
State and local rate	—	—%
Tax credits		
Federal research and development tax credits	(687)	1.12%
Orphan drug credit	(824)	1.34%
Changes in valuation allowances	13,055	(21.25)%
Nontaxable and nondeductible items		
Stock-based compensation	996	(1.62)%
Other	162	(0.26)%
Changes in unrecognized tax benefits	200	(0.33)%
Effective tax rate	<u>\$ —</u>	<u>—%</u>

A reconciliation of the provision for income taxes to the amount computed by applying the 21% statutory U.S. federal income tax rate to income before income taxes for years prior to the adoption of ASU 2023-09 is as follows:

	Year Ended December 31, 2024
Statutory rate	21.00%
State tax	11.87%
Other	0.08%
Tax credits	1.43%
Fair value of contingent earnout liability	2.53%
Fair value of preferred stock tranche liability	5.33%
Stock-based compensation	(3.49)%
Changes in valuation allowances	(38.75)%
Effective Tax Rate	<u>—%</u>

The Company has elected to include interest and penalties as a component of tax expense. For the years ended December 31, 2025 and 2024, the Company did not recognize accrued interest and penalties related to unrecognized tax benefits. The Company does not anticipate that the amount of existing unrecognized tax benefits will significantly increase or decrease during the next 12 months.

The Company files income tax returns in federal and various state jurisdictions where a filing obligation has been determined. The federal and state income tax returns from inception to December 31, 2025 remain subject to examination.

The Company had \$3.1 million of unrecognized tax benefits as of December 31, 2025. No liability related to uncertain tax positions is recorded on the financial statements as all uncertain tax positions are currently recorded as a reduction to the Company's deferred tax assets, which are subject to a valuation allowance. If recognized, none of the unrecognized tax benefits would affect the effective tax rate. The Company does not anticipate the total amounts of unrecognized tax benefits will significantly increase or decrease in the next 12 months. No positions were settled with tax authorities in 2025 and no positions were reduced as a result of a lapse of applicable statutes of limitations. The Company's policy is to include interest and penalties related to unrecognized tax benefits within the provision

SENTI BIOSCIENCES, INC.
Notes to Consolidated Financial Statements

for income taxes, as necessary. The Company did not recognize any accrued interest and penalties related to gross unrecognized tax benefits related to the year ended December 31, 2025. A reconciliation of the Company's unrecognized tax benefits for the years ended December 31, 2025 and 2024 is as follows:

(in thousands)	Years Ended December 31,	
	2025	2024
Balance at beginning of the year	\$ 2,376	\$ 2,076
Increase related to prior year tax positions	220	—
Increase related to current year tax positions	495	301
Balance at end of the year	<u>\$ 3,091</u>	<u>\$ 2,376</u>

Note 12. Related Parties

New Enterprise Associates, Inc.

New Enterprise Associates, Inc. ("NEA") held 12.2% and 9.2% of the outstanding shares of the Company's common stock as of December 31, 2025 and 2024, respectively. NEA held one of the eight seats on the Board as of December 31, 2025. As part of the private placement in December 2024 ([Note 6](#)), NEA is also entitled to designate one additional director to the Board, which remained undesignated as of December 31, 2025.

Celadon Partners, LLC

Celadon Partners, LLC ("Celadon") held 31.7% of the outstanding and no shares of the Company's common stock as of December 31, 2025 and 2024, respectively, and is considered a related party to the Company. Celadon is the parent company of Valere, of which GeneFab is a wholly-owned subsidiaries. Celadon was assigned the GeneFab Option in 2024. As part of the private placement in December 2024 ([Note 6](#)), Donald Tang, a founder and manager of Celadon, was appointed to the Board. Celadon also was entitled to designate two additional directors to the Board, which were filled upon Feng Hsiung and Bryan Baum being appointed in March 2025 and July 2025, respectively. As of December 31, 2025, Celadon held three of the eight seats on the Board.

Bayer Healthcare LLC

Bayer Healthcare LLC ("Bayer") held 19.9% and 12.2% of the outstanding shares of the Company's common stock as of December 31, 2025 and 2024, respectively, and is considered a related party to the Company.

Bayer is the parent company of BlueRock Therapeutics LP ("BlueRock"). The Company and BlueRock entered a collaboration and option agreement ("BlueRock Agreement") in May 2021, pursuant to which the Company and BlueRock, on a program-by-collaboration program basis, collaborate in many aspects for the development of certain therapy products. The Company was responsible for up to \$10 million in costs and expenses incurred in connection with the research plan and related activities to be conducted over a three-year research term. The Company completed the initial research plan and related activities in May 2024. If the Company and BlueRock agree to add new research activities to the research plan, then BlueRock will be obligated to reimburse the Company for the costs and expenses incurred. As of December 31, 2025, Bayer has not exercised its option for a license.

For the year ended December 31, 2025, the Company recognized collaboration revenue with Bayer of less than \$0.1 million in the consolidated statements of operations and comprehensive loss. As of December 31, 2025, deferred revenue with Bayer of less than \$0.1 million was recorded in the consolidated balance sheets. These amounts relate to an option exercise period extension fee under the BlueRock Agreement.

GeneFab

As a result of the transaction with GeneFab ([Note 3](#)), GeneFab supports the Company's clinical manufacturing of its CAR-NK programs, including SENTI-202. GeneFab's Chief Executive Officer, Philip Lee, Ph.D., was the

SENTI BIOSCIENCES, INC.
Notes to Consolidated Financial Statements

former Co-Founder and Chief Technology Officer of the Company. The Company determined GeneFab is a related party and the Company reports transactions with GeneFab under ASC 850, *Related Party Disclosures* (“ASC 850”). Refer to Note 3. GeneFab Transaction for the financial asset and liability recorded consolidated balance sheets related to GeneFab.

The Company and GeneFab entered into sublease agreements pursuant to which GeneFab subleased the facility included in the Alameda lease and a portion of the Company’s HQ lease. Refer to Note 5. Operating Leases and Note 15. Subsequent Events for developments subsequent to year end for the sublease discussion.

The Company incurred certain costs on behalf of GeneFab under a transition services agreement, and reimbursement of such costs was due from GeneFab. As of December 31, 2025 and 2024, the Company recorded \$0.5 million and \$0.7 million, respectively, in GeneFab receivable - related party on the consolidated balance sheet. The Company’s research and development expenses under the services agreement was \$12.9 million and \$14.1 million for years ended December 31, 2025 and 2024, respectively. Refer to Note 3. GeneFab Transaction.

Note 13. Commitments and Contingencies

In the ordinary course of business, the Company enters into contractual agreements with third parties that include non-cancelable payment obligations, for which the Company is liable in future periods.

Legal Proceedings

The Company is subject to claims and assessments from time to time in the ordinary course of business but does not believe that any such matters, individually or in the aggregate, will have a material adverse effect on the Company’s financial position, results of operations, or cash flows.

Indemnification

In the ordinary course of business, the Company enters into agreements that may include indemnification provisions. Pursuant to such agreements, the Company may indemnify, hold harmless and defend an indemnified party for losses suffered or incurred by the indemnified party. Some of the provisions will limit losses to those arising from third-party actions. In some cases, the indemnification will continue after the termination of the agreement. The maximum potential amount of future payments the Company could be required to make under these provisions is not determinable. The Company has never incurred material costs to defend lawsuits or settle claims related to these indemnification provisions and has never accrued any liabilities related to such obligations in its condensed consolidated financial statements. The Company has also entered into indemnification agreements with its directors and officers that may require the Company to indemnify its directors and officers against liabilities that may arise by reason of their status or service as directors or officers to the fullest extent permitted by Delaware corporate law. The Company currently has directors’ and officers’ insurance.

Note 14. Segment Reporting

The Company views operations and manages the business as one operating and reportable segment, which is the research and development of the Company’s gene circuit platform. The Company’s Chief Operating Decision Maker (the “CODM”), its Chief Executive Officer, manages and allocates resources on a consolidated basis. This decision making process reflects the way in which financial information is regularly reviewed and used by the CODM to review budgets and trial related data, decides how to allocate resources and evaluate performance.

The CODM assesses financial performance based on consolidated net loss. The CODM utilizes consolidated net loss by comparing actual results against budgeted amount on a quarterly basis. As part of this process, consolidated net loss is used as a measure of profit or loss in allocating resources and assessing segment performance. The CODM reviews cash and cash equivalents as a measure of segment assets. As of December 31, 2025 and 2024, the Company’s cash and cash equivalents were \$16.4 million and \$48.3 million, respectively.

SENTI BIOSCIENCES, INC.
Notes to Consolidated Financial Statements

A summary of the segment loss, including significant expenses, is as noted in the table below.

(in thousands)	Years Ended December 31,	
	2025	2024
Collaboration revenue - related party	\$ 22	\$ —
Operating expenses:		
Research and development:		
External services and supplies	23,836	20,795
Personnel-related expenses, including stock-based compensation	8,214	7,694
Facilities and other	4,634	4,889
General and administrative:		
External services and supplies	5,463	7,624
Personnel-related expenses, including stock-based compensation	11,513	8,379
Facilities and other	6,452	7,507
Depreciation and amortization	3,637	3,838
Impairment of long-lived assets	5,052	313
Total operating expenses	68,801	61,039
Loss from operations	(68,779)	(61,039)
Interest income	927	948
Sublease income ⁽¹⁾	6,253	6,608
Other income, net - related party	160	—
Other income, net ⁽¹⁾	1	693
Net loss	\$ (61,438)	\$ (52,790)

(1) For 2025 reporting, the Company reclassified \$0.2 million from “Other Income, net” to “Sublease income” for the year ended December 31, 2024.

Note 15. Subsequent Events

Lease Amendment Cure of Alameda Lease Default

On March 17, 2026, the Company entered into a First Amendment to Lease (the “Lease Amendment”) for the Alameda Facility by and between the Company and 1430 South Loop Owner, LLC (the “Landlord”).

Pursuant to the Lease Amendment, the Company reduced the leased premises from approximately 92,000 rentable square feet to approximately 46,000 rentable square feet. The Lease Amendment also reduces the Company’s future base rent obligations for the remaining term of the lease and modifies certain cost-sharing arrangements with respect to operating expenses, taxes, and utilities.

In connection with the Lease Amendment, the Landlord is entitled to draw \$2.0 million under the Company’s existing letter of credit, and the required letter of credit for the remainder of the lease term was reduced to approximately \$0.8 million.

As a result of execution of the Lease Amendment, the Alameda lease default discussed in [Note 5](#) was cured in March 2026.

SENTI BIOSCIENCES, INC.
Notes to Consolidated Financial Statements

Sublease Amendment and cure of Sublease Default

On March 9, 2026, the Company signed an agreement to accelerate the end of the HQ sublease (“HQ Sublease Amendment”), effective March 31, 2026. As part of this agreement, GeneFab paid all past rent due to the Company for the HQ sublease.

Additionally, in connection with the Lease Amendment, on March 17, 2026, the Company entered into a First Amendment to Sublease (the “Alameda Sublease Amendment”) with GeneFab relating to the Alameda facility.

Pursuant to the Sublease Amendment, the subleased premises were reduced to approximately 46,000 rentable square feet. The Sublease Amendment revised the base rent, operating expenses, taxes and utilities owed by GeneFab under the Amended Sublease to equal the amounts owed by the Company under the Amended Lease. GeneFab also agreed to pay a \$1.0 million Reduction Fee (as defined below) to the Landlord pursuant to the terms and conditions of the Consent Amendment (as defined below).

Pursuant to the HQ Sublease Amendment and the Alameda Sublease Amendment, the GeneFab Sublease Default was cured.

Landlord Consent

In connection with the Lease Amendment and Sublease Amendment, on March 17, 2026, the Company entered into a First Amendment to Landlord’s Consent to Sublease (the “Consent Amendment”) with the Landlord and GeneFab. Pursuant to the Consent Amendment, the Landlord consented to the Sublease Amendment in exchange for a payment of \$1.0 million to the Landlord by the Company or GeneFab (the “Reduction Fee”).

GeneFab Letter Agreement

In connection with the Lease Amendment, Sublease Amendment and Consent Amendment, on March 17, 2026, the Company entered into a letter agreement with GeneFab (the “GeneFab Letter Agreement”).

The GeneFab Letter Agreement provides back rent payment of \$1.4 million that may be satisfied, in whole or in part, through a cash prepayment credit to be applied toward work or services to be performed by GeneFab for the Company under the 2024 Amended and Restated DMSA, that the Company may access such prepayment credit immediately and that any unpaid portion must be paid in immediately available funds by September 1, 2026.

The GeneFab Letter Agreement further provides that the Company may access \$2.0 million as a prepayment credit to be applied toward work or services to be performed by GeneFab for the Company under the 2024 Amended and Restated DMSA beginning September 1, 2026. This prepayment credit represents a portion of the agreed-upon settlement of past-due sublease rent. GeneFab’s failure to perform its obligations with respect to the outstanding rent or the \$2.0 million amount constitutes an immediate event of default under the Amended Sublease. The Letter Agreement terminates automatically once the applicable prepayment credits have been fully applied.

The Company is currently evaluating the accounting implications of the Lease Amendment and related agreements, including the impact on its lease accounting under ASC 842. The Company has not completed its assessment of the accounting effects of these arrangements as of the date these consolidated financial statements were issued.

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None

Item 9A. Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed in our reports filed or submitted under the Securities Exchange Act of 1934, as amended (the “Exchange Act”) is recorded, processed, summarized and reported within the time periods specified in the SEC’s rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed in our reports filed or submitted under the Exchange Act is accumulated and communicated to our management, including our Chief Executive Officer, who serves as our principal executive officer, and our Chief Financial Officer, who serves as our principal financial officer and principal accounting officer, to allow timely decisions regarding required disclosure.

Evaluation of Disclosure Controls and Procedures

As of the end of the period covered by this Annual Report, we carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) to determine whether such disclosure controls and procedures provide reasonable assurance that information to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC and such information is accumulated and communicated to management, including our principal executive and principal financial officers or persons performing similar functions, as appropriate to allow timely decisions regarding disclosure. Our disclosure controls and procedures were developed through a process in which our management applied its judgment in assessing the costs and benefits of such controls and procedures, which, by their nature, can provide only reasonable assurance regarding the control objectives. You should note that the design of any system of disclosure controls and procedures is based in part upon various assumptions about the likelihood of future events, and we cannot assure you that any design will succeed in achieving its stated goals under all potential future conditions, regardless of how remote.

As previously reported, in connection with our preparation and the audit of our consolidated financial statements as of and for the year ended December 31, 2024, we and our independent registered public accounting firm identified a material weakness, as defined under the Exchange Act and by the Public Company Accounting Oversight Board (United States), in our internal control over financial reporting. The material weakness related to a lack of sufficient and adequate resources in the finance and accounting function. A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting such that there is a reasonable possibility that a material misstatement of our consolidated financial statements will not be prevented or detected on a timely basis.

Remediation of Previously Reported Material Weakness

Based on the design, implementation and effectiveness of our internal control activities completed during the quarter ended June 30, 2025 associated with the Company’s remediation plan, management determined the previously identified material weakness related to the sufficiency and adequacy of the resources in our finance and accounting function has been remediated.

Changes in Internal Control Over Financial Reporting

During the most recently completed fiscal quarter, there has been no change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Limitations on Effectiveness of Controls and Procedures

In designing and evaluating our disclosure controls and procedures, management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. In addition, the design of disclosure controls and procedures must reflect the fact that there are resource constraints and that management is required to apply judgment in evaluating the benefits of possible controls and procedures relative to their costs.

Management's Annual Report on Internal Control Over Financial Reporting

Management is responsible for establishing and maintaining adequate internal control over financial reporting, as defined in Rule 13a-15(f) under the Exchange Act. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with U.S. GAAP. A control system, no matter how well designed and operated, can only provide reasonable, not absolute, assurance that the objectives of the control system are met. Because of these inherent limitations, management does not expect that our internal controls over financial reporting will prevent all errors and all fraud. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with our policies and procedures may deteriorate. Our principal executive officer and principal financial and accounting officer conducted an evaluation of our internal control over financial reporting based on the framework in Internal Control—Integrated Framework issued in 2013 by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, our principal executive officer and principal financial and accounting officer concluded our internal control over financial reporting was effective as of December 31, 2025.

Item 9B. Other Information

(a) Termination of Amended and Restated ChEF Purchase Agreement

On March 17, 2025, Chardan acknowledged and accepted our written notice to terminate the A&R Purchase Agreement, waived its right to prior written notice and mutually agreed to terminate the A&R Purchase Agreement, effective immediately.

(b) Director and Executive Officer Trading Arrangements

During the year ended December 31, 2025, none of our directors or officers adopted, modified or terminated any contract, instruction or written plan for the purchase or sale of our securities intended to satisfy the affirmative defense conditions of Rule 10b5-1(c) under the Exchange Act or any “non-Rule 10b5-1 trading arrangement” (as defined in Item 408(c) of Regulation S-K).

On May 6, 2025, Kanya Rajangam, our President and Chief Medical Officer, adopted a Rule 10b5-1 trading plan for the sale of our common stock that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c) under the Exchange Act (the “Rajangam Trading Plan”). The Rajangam Trading Plan provides for potential sales beginning on August 5, 2025 of up to an aggregate of 12,628 shares to be sold pursuant to limit orders. The Rajangam Trading Plan will expire upon the date all sales contemplated by the Rajangam Trading Plan have been executed.

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

None.

PART III

Item 10. Directors, Executive Officers and Corporate Governance

The information regarding executive officers and executive officers and directors required by this Item 10 will be included in the 2026 Proxy Statement or in an amendment on Form 10-K/A and is incorporated herein by reference.

Item 11. Executive Compensation

The information required by this Item 11 will be included in the 2026 Proxy Statement or in an amendment on Form 10-K/A and is incorporated herein by reference.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by this Item 12 will be included in the 2026 Proxy Statement or in an amendment on Form 10-K/A and is incorporated herein by reference.

Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required by this Item 13 will be included in the 2026 Proxy Statement or in an amendment on Form 10-K/A and is incorporated herein by reference.

Item 14. Principal Accountant Fees and Services

The information required by this Item 14 will be included in the 2026 Proxy Statement or in an amendment on Form 10-K/A and is incorporated herein by reference.

Our independent registered public accounting firm is KPMG LLP, San Francisco, CA, Auditor ID: 185.

PART IV

Item 15. Exhibits and Financial Statement Schedules

The following exhibits are filed as part of, or incorporated by reference into, this Annual Report on Form 10-K.

Exhibit Number	Description	Incorporated by Reference			
		Schedule/Form	File No.	Exhibit	Filing Date
2.1 [^]	Business Combination Agreement, dated as of December 19, 2021, by and among Dynamics Special Purpose Corp., Explore Merger Sub, Inc. and Senti Biosciences, Inc. (attached as Annex A to the Registration Statement).	S-4/A	333-262707	2.1	May 10, 2022
2.2 [^]	Amendment No. 1 to Business Combination Agreement, dated as of February 12, 2022, by and among Dynamics Special Purpose Corp., Explore Merger Sub, Inc. and Senti Biosciences, Inc. (attached as Annex AA to the Registration Statement).	S-4/A	333-262707	2.2	May 10, 2022

Incorporated by Reference

Exhibit Number	Description	Schedule/Form	File No.	Exhibit	Filing Date
2.3^	Amendment No. 2 to Business Combination Agreement, dated as of May 19, 2022, by and among Dynamics Special Purpose Corp., Explore Merger Sub, Inc. and Senti Biosciences, Inc.	8-K	001-40440	2.1	May 24, 2022
3.1	Second Amended and Restated Certificate of Incorporation of Senti Biosciences, Inc.	8-K	001-40440	3.1	June 15, 2022
3.2	Certificate of Amendment to the Second Amended and Restated Certificate of Incorporation of Senti Biosciences, Inc. (Officer Exculpation Amendment)	8-K	001-40440	3.1	July 12, 2024
3.3	Certificate of Amendment to the Second Amended and Restated Certificate of Incorporation of Senti Biosciences, Inc. (Reverse Stock Split Amendment)	8-K	001-40440	3.1	July 17, 2024
3.4	Amended and Restated Bylaws of Senti Biosciences, Inc.	8-K	001-40440	3.2	June 15, 2022
3.5	Certificate of Designation of Preferences, Rights and Limitations of the Series A Convertible Preferred Stock of Senti Biosciences, Inc.	8-K	001-40440	3.1	December 2, 2024
4.1	Specimen Common Stock Certificate.	8-K	001-40440	4.1	July 14, 2024
4.2	Form of Common Stock Warrant	8-K	001-40440	3.1	December 2, 2024
4.3	Description of Securities	10-K	001-40440	4.3	March 20, 2025
10.1	Note Subscription Agreement by and among Senti Biosciences, Inc., Dynamics Special Purpose Corp. and Bayer HealthCare LLC, dated as of May 19, 2022.	8-K	001-40440	10.1	May 24, 2022
10.2+	Senti Biosciences, Inc. 2016 Stock Incentive Plan, as amended, and forms of award agreements thereunder.	S-4	333-262707	10.2	February 14, 2022
10.3+	Senti Biosciences, Inc. 2022 Amended and Restated Equity Incentive Plan and forms of award agreements thereunder.	8-K	001-40440	10.1	March 10, 2025
10.4+	Senti Biosciences, Inc. 2022 Employee Stock Purchase Plan.	10-Q	001-40440	10.4	August 15, 2022
10.5+	Form of Indemnification Agreement by and between the Registrant and each of its directors and executive officers. Combination.	S-4/A	333-262707	10.5	May 10, 2022
10.6+	Employee Offer Letter, by and between Timothy Lu and Senti Biosciences, Inc., dated December 27, 2018.	S-4	333-262707	10.6	February 14, 2022
10.7	Lease, by and between Britannia Biotech Gateway Limited Partnership and Senti Biosciences, Inc., dated July 17, 2018.	S-4	333-262707	10.10	February 14, 2022
10.8	First Amendment to Lease, by and between Britannia Biotech Gateway Limited Partnership and Senti Biosciences, Inc., dated May 8, 2019.	S-4	333-262707	10.11	February 14, 2022

Incorporated by Reference

Exhibit Number	Description	Schedule/Form	File No.	Exhibit	Filing Date
10.9	Second Amendment to Lease, by and between Britannia Biotech Gateway Limited Partnership and Senti Biosciences, Inc., dated June 17, 2020.	S-4	333-262707	10.12	February 14, 2022
10.10†	Research and Development and Laboratory Lease Agreement, by and between 1430 Harbor Bay Pkwy LLC and Senti Biosciences, Inc., dated June 3, 2021.	10-K	001-40440	10.13	March 22, 2023
10.11†	Patent License Agreement by and between the U.S. Department of Health and Human Services, as represented by the National Cancer Institute, and Senti Biosciences, Inc., dated July 20, 2020.	S-4	333-262707	10.14	February 14, 2022
10.12†	Patent License Agreement by and between the U.S. Department of Health and Human Services, as represented by the National Cancer Institute, and Senti Biosciences, Inc., dated February 5, 2021.	S-4	333-262707	10.15	February 14, 2022
10.13†	Research Collaboration and License Agreement by and between Spark Therapeutics, Inc. and Senti Biosciences, Inc., dated April 9, 2021.	S-4	333-262707	10.16	February 14, 2022
10.14†	Patent License Agreement by and between the U.S. Department of Health and Human Services, as represented by the National Cancer Institute, and Senti Biosciences, Inc., dated May 17, 2021.	S-4	333-262707	10.17	February 14, 2022
10.15†	Collaboration and Option Agreement by and between BlueRock Therapeutics, LP and Senti Biosciences, Inc., dated May 21, 2021.	S-4	333-262707	10.18	February 14, 2022
10.16	Investor Rights and Lock-up Agreement.	8-K	001-40440	10.4	June 15, 2022
10.17+	Senti Biosciences, Inc. Amended and Restated 2022 Inducement Plan and forms of award agreements thereunder.	S-8	333-285655	10.30	March 7, 2025
10.18	Registration Rights Agreement dated as of August 31, 2022, by and between Senti Biosciences, Inc. and Chardan Capital Markets LLC.	8-K	001-40440	10.2	September 1, 2022
10.19+	Amended and Restated Non-Employee Director Compensation Policy.	8-K	001-40440	10.3	March 10, 2025
10.20+	Consulting Agreement between Senti Biosciences, Inc. and David Epstein.	10-Q	001-40440	10.2	November 10, 2022
10.21+	Severance and Change in Control Agreement between the Company and Tim Lu.	10-Q	001-40440	10.5	November 10, 2022
10.22†	Amendment No. 1 to the Research and License Agreement between Spark Therapeutics, Inc. and Senti Biosciences, Inc., dated December 8, 2022.	10-K	001-40440	10.32	March 22, 2023
10.23†	Side Letter between BlueRock Therapeutics, LP and Senti Biosciences, Inc., dated February 3, 2023.	10-K	001-40440	10.33	March 22, 2023

Incorporated by Reference

Exhibit Number	Description	Schedule/Form	File No.	Exhibit	Filing Date
10.24	Scientific Advisory Board Agreement between Senti Biosciences, Inc. and James Collins.	10-K	001-40440	10.34	March 22, 2023
10.25+	Employee Offer Letter by and between Kanya Rajangam and Senti Biosciences, Inc., dated May 10, 2022.	10-Q	001-40440	10.1	May 9, 2023
10.26†	Amendment No. 2 to the Research and License Agreement between Spark Therapeutics, Inc. and Senti Biosciences, Inc., dated May 12, 2023.	10-Q	001-40440	10.1	August 11, 2023
10.27†	Framework Agreement by and among Senti Biosciences, Inc., GeneFab, LLC and Valere Bio, Inc., dated August 7, 2023.	10-Q	001-40440	10.1	November 14, 2023
10.28†	Seller Economic Share Agreement by and among Senti Biosciences, Inc., GeneFab, Inc and Valere Bio, Inc., dated August 7, 2023.	10-Q	001-40440	1 10.2	November 14, 2023
10.29†	Development and Manufacturing Services Agreement by and between Senti Biosciences, Inc. and GeneFab, LLC dated August 7, 2023.	10-Q	001-40440	10.3	November 14, 2023
10.30†	Sublease Agreement by and between Senti Biosciences, Inc. and GeneFab, LLC dated August 7, 2023.	10-Q	001-40440	10.4	November 14, 2023
10.31†	Option Agreement by and between Senti Biosciences, Inc. and GeneFab, LLC, dated August 7, 2023.	POS-AM (on S-1)	333-265873	10.8	November 1, 2023
10.32†	Collaboration and Option Agreement by and between Senti Biosciences, Inc., and Celest Therapeutics (Shanghai) Co. Ltd., dated November 6, 2023.	10-K	001-40440	10.41	March 21, 2024
10.33#	Amended and Restated ChEF Purchase Agreement, by and between Chardan Capital Markets LLC and Senti Biosciences, Inc., dated July 16, 2024	8-K	001-40440	10.1	July 16, 2024
10.34#	Sublease Agreement by and between the Company and GeneFab, LLC, dated as of May 7, 2024.	10-Q	001-40440	10.1	August 13, 2024
10.35	Consulting Agreement by and between the Company and Yvonne Li, effective as of May 1, 2024.	10-Q	001-40440	10.4	August 13, 2024
10.36^	Sublease Agreement by and among the Company, BKPBIOTECH, Inc. and JLSA2 Therapeutics, Inc., dated as of September 23, 2024.	10-Q	001-40440	10.2	November 14, 2024
10.37^	Storage License Agreement by and among the Company, BKPBIOTECH, Inc. and JLSA2 Therapeutics, Inc., dated as of September 23, 2024.	10-Q	001-40440	10.3	November 14, 2024
10.38^	Securities Purchase Agreement, dated December 2, 2024, by and among Senti Biosciences, Inc. and the purchasers named therein.	8-K	001-40440	10.1	December 2, 2024

Incorporated by Reference

Exhibit Number	Description	Schedule/Form	File No.	Exhibit	Filing Date
10.39^	Registration Rights Agreement, dated December 2, 2024 by and among Senti Biosciences, Inc., and the investors named therein.	8-K	001-40440	10.2	December 2, 2024
10.40	Designation Agreement, dated December 2, 2024, by and between Senti Biosciences, Inc., and Celadon Partners SPV 24.	8-K	001-40440	10.3	December 2, 2024
10.41	Designation Agreement, dated December 2, 2024, by and between Senti Biosciences, Inc., and New Enterprise Associates 15, L.P.	8-K	001-40440	10.4	December 2, 2024
10.42	Form of Performance Stock Unit Award Agreement.	10-K	001-40440	10.42	March 20, 2025
10.43	Amended and Restated Development and Manufacturing Services Agreement between Senti Biosciences, Inc. and GeneFab, LLC dated December 10, 2024	10-K	001-40440	10.43	March 20, 2025
10.44	Amendment No. 1 to Framework Agreement by and among Senti Biosciences, Inc., Valere Bio, Inc. and GeneFab, LLC dated December 10, 2024	10-K	001-40440	10.44	March 20, 2025
10.45	Amendment No. 1 to Option Agreement between Senti Biosciences, Inc. and Celadon Partners SPV XVI dated December 10, 2024	10-K	001-40440	10.45	March 20, 2025
10.46+	Consulting Agreement by and between the Company and Yvonne Li, effective as of February 5, 2025	10-Q	001-40440	10.1	May 6, 2025
16.1	Letter from Marcum LLC to the SEC	8-K	001-40440	16.1	June 15, 2022
19.1	Insider Trading Policy	10-K	001-40440	19.1	March 20, 2025
21.1	List of Subsidiaries	8-K	001-40440	21.1	June 15, 2022
23.1*	Consent of KPMG LLP, Independent Registered Public Accounting Firm (ID 185)				
24.1*	Power of Attorney (included on the signature page to the Annual Report on Form 10-K which forms part of this Annual Report on Form 10-K).				
31.1*	Certification of Principal Executive Officer and Principal Financial Officer Pursuant to Securities Exchange Act Rules 13a-14(a) and 15(d)-14(a), as adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002				
31.2*	Certification of Principal Financial Officer Pursuant to Securities Exchange Act Rules 13a-14(a) and 15(d)-14(a), as adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002				
32.1**	Certification of Principal Executive Officer and Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, as adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002				

Exhibit Number	Description	Incorporated by Reference			
		Schedule/Form	File No.	Exhibit	Filing Date
32.2**	Certification of Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, as adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002				
97.1	Senti Biosciences, Inc. Compensation Recovery Policy	10-K	001-40440	97	March 21, 2024
101.INS*	Inline XBRL Instance Document – the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.				
101.SCH*	Inline XBRL Taxonomy Extension Schema Document				
101.CAL*	Inline XBRL Taxonomy Extension Calculation Linkbase Document				
101.DEF*	Inline XBRL Taxonomy Extension Definition Linkbase Document				
101.LAB*	Inline XBRL Taxonomy Extension Label Linkbase Document				
101.PRE*	Inline XBRL Taxonomy Extension Presentation Linkbase Document				
104*	The cover page for the Company’s Annual Report on Form 10-K has been formatted in Inline XBRL and contained in Exhibit 101.				

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- * Filed herewith.
 - ** Furnished herewith. This certification will not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), or otherwise subject to the liability of that section. Such certification will not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, except to the extent specifically incorporated by reference into such filing.
 - ^ Certain exhibits and schedules to this Exhibit have been omitted in accordance with Regulation S-K Item 601(b)(2). The Company agrees to furnish supplementally a copy of all omitted exhibits and schedules to the Securities and Exchange Commission upon its request.
 - † Portions of this exhibit (indicated by asterisks) have been omitted because the registrant has determined that the information is both not material and is the type that the registration treats as private or confidential.
 - + Indicates management contract or compensatory plan.

Item 16. Form 10-K Summary

Not applicable.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Act of 1934, as amended, the registrant has duly caused this Annual Report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: March 27, 2026

SENTI BIOSCIENCES, INC.

By: /s/ Timothy Lu, M.D., Ph.D.

Name: Timothy Lu, M.D., Ph.D.

Title: Chief Executive Officer
(Principal Executive Officer)

By: /s/ Jay Cross

Name: Jay Cross

Title: Chief Financial Officer
(Principal Financial Officer and Principal Accounting Officer)

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Timothy Lu as his or her true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the United States Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his or her substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, each of the undersigned has executed this Power of Attorney as of the date indicated opposite his/her name.

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, this Annual Report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated:

Signatures	Title	Date
<u>/s/ Timothy Lu</u> Timothy Lu, M.D., Ph.D.	Chief Executive Officer, President and Director <i>(Principal Executive Officer)</i>	March 27, 2026
<u>/s/ Jay Cross</u> Jay Cross	Chief Financial Officer <i>(Principal Financial Officer and Principal Accounting Officer)</i>	March 27, 2026
<u>/s/ Bryan Baum</u> Bryan Baum	Director	March 27, 2026
<u>/s/ James J. Collins</u> James J. (Jim) Collins, Ph.D.	Director	March 27, 2026
<u>/s/ Brenda Cooperstone</u> Brenda Cooperstone	Director	March 27, 2026
<u>/s/ Feng Hsiung</u> Feng Hsiung	Director	March 27, 2026
<u>/s/ Edward Mathers</u> Edward Mathers	Director	March 27, 2026
<u>/s/ Frances Schulz</u> Frances Schulz	Director	March 27, 2026
<u>/s/ Donald Tang</u> Donald Tang	Director	March 27, 2026

