#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

#### FORM 8-K

### CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): January 27, 2023

### SENTI BIOSCIENCES, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-40440 (Commission File Number) 86-2437900 (IRS Employer Identification No.)

2 Corporate Drive, First Floor South San Francisco, California 94080 (Address of principal executive offices including zip code)

Registrant's telephone number, including area code: (650) 382-3281

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

D Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

D Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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

| Securities registered pursuant to Securiti 12(0) of the Act. |         |                          |
|--|---------|--------------------------|
|  | Trading | Name of each exchange    |
| Title of each class  | Symbol  | on which registered      |
| Common Stock, par value \$0.0001 per share                   | SNTI    | The Nasdaq Global Market |

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company  $\boxtimes$ 

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.

#### Item 7.01. Regulation FD Disclosure.

Reference is made to the disclosure set forth below in Item 8.01 of this Current Report on Form 8-K which is incorporated herein by reference.

On January 27, 2023, Senti Biosciences, Inc., (the "<u>Company</u>") issued a press release (the "<u>Press Release</u>") titled, "Senti Bio Announces Pipeline Prioritization to Focus on Logic Gated Cell Therapies; Updates Cash Runway Guidance," a copy of which is furnished herewith as Exhibit 99.1. The information in this Item 7.01 of Form 8-K and Exhibit 99.1 attached hereto is furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Act"), as amended or the Exchange Act. The information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed an admission as to the materiality of any information in this Item 7.01 of this Current Report on Form 8-K will not be deemed and shall the formation in the report on Form 8-K will not be deemed an ad

#### Item 8.01. Other Events.

On January 27, 2023, the Company announced a strategic plan to focus internal resources on SENTI-202, SENTI-401 and, with potential partners, to develop Gene Circuits for other programs. The Company also announced that it does not intend to devote its own resources to the development of SENTI-301A for the treatment of hepatocellular carcinoma at this time, and is actively pursuing strategic geographic partnerships for further clinical development of SENTI-301A. This business realignment will streamline internal efforts and is expected to extend the Company's cash runway through at least the first quarter of 2024. In connection with this announcement, the Company has also updated certain corporate information in a presentation slide deck. A copy of this corporate presentation is filed herewith as Exhibit 99.2 to this Current Report on Form 8-K and incorporated by reference herein.

#### Cautionary Statement

This filing and the exhibits include "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"). We intend these forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 27A of the Securities Act and Section 21E of the Exchange Act, and are making this statement for purposes of complying with those safe harbor provisions. These forward-looking statements reflect our current views about our plans, intentions, expectations, strategies, and prospects, which are based on the information currently available to us and on assumptions we have made. Important factors that may cause actual results to differ materially from those described in the forward-looking statements are disclosed in the respective exhibits and in the "Risk Factors" contained in the Company's Form 10-Q filed with the Securities and Exchange Commission" (the "Commission") on November 10, 2022, and other filings we make with the Commission. All forward-looking statements are expressly qualified in their entirety by such factors. We do not undertake any duty to update any forward-looking statement except as required by law.

#### Item 9.01 Financial Statements and Exhibits.

#### (d) Exhibits

| Exhibit No. | Description   |
|-------------|---|
| 99.1        | Press Release, dated as of January 27, 2023                                 |
| 99.2        | <u>Corporate presentation</u>   |
| 104         | Cover Page Interactive Data File (embedded within the Inline XBRL document) |

#### SIGNATURE

### Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

SENTI BIOSCIENCES, INC.

Date: January 27, 2023

By: Name: Title: /s/ Timothy Lu Timothy Lu, M.D., Ph.D. Chief Executive Officer & President



#### Senti Bio Announces Pipeline Prioritization to Focus on Logic Gated Cell Therapies; Updates Cash Runway Guidance

- R&D focus is on lead oncology candidate SENTI-202 for the treatment of AML and other CD33 and/or FLT3 expressing hematologic malignancies, and SENTI-401 to target colorectal cancer and other CEA-positive solid tumors -

– SENTI-202 on track for IND filing in 2H 2023 –

#### - Cash runway guidance extended through at least Q1 2024 -

SOUTH SAN FRANCISCO, Calif., January 27, 2023 — Senti Biosciences, Inc. (Nasdaq: SNTI) ("Senti Bio"), a biotechnology company innovating next-generation cell and gene therapies using its proprietary Gene Circuit technology platform, today announced a strategic plan to focus internal resources on SENTI-202, SENTI-401 and, with potential partners, to continue to pursue the development of Gene Circuits for other programs, including solid tumors. The Company does not intend to invest in the clinical development of SENTI-301A, for the treatment of hepatocellular carcinoma (HCC), on its own at this time; however, the Company believes there is significant market opportunity for SENTI-301A, especially in territories within Asia where HCC is more prevalent than in the United States. Accordingly, the Company is actively pursuing strategic geographic partnerships for clinical development of SENTI 301A. This business realignment will streamline internal efforts and is expected to extend the Company through at least the first quarter of 2024.

With SENTI-202, a Logic Gated (OR+NOT) off-the-shelf CAR-NK cell product candidate that is designed to target and eliminate acute myeloid leukemia (AML) cells while sparing the healthy bone marrow, the Company has commenced INDenabling studies and remains on track to file an IND application in the second half of 2023. In addition, the Company has initiated the technology transfer to its cGMP manufacturing facility as part of its goal to provide clinical-scale manufacturing for its off-the-shelf CAR NK cell product candidates, including SENTI-202.

"We are laser focused on developing cell therapies engineered with Gene Circuits to enable selective killing of tumor cells while protecting healthy cells. Our Gene Circuits, especially our NOT gate, are designed to enable advanced cell and gene therapies to potentially have enhanced precision, activity and control, across therapeutic areas and delivery modalities, including NK cells and T cells," said Timothy Lu, MD, PhD, Chief Executive Officer and Co-Founder of Senti Bio. "By focusing on SENTI-202 and SENTI-401, both of which incorporate NOT gates, we believe that we are well positioned to maximize opportunities across these two oncology programs while advancing Gene Circuits in a variety of other disease areas with potential partners."

Dr. Lu added, "The team's accomplishments with SENTI-202 have generated very promising data over the past year that was presented at the American Society of Hematology (ASH) Annual Meeting last month. The data included human cell models and *in vivo* models that showcase the ability of our OR gate to broadly kill CO33 and/or FLT3 expressing leukemic blasts and leukemic stem cells, and our NOT gate to protect healthy cells expressing the EMCN protective antigen, including human hematopoietic stem cells. The team has completed pre-IND interactions with the FDA and believes that our planned IND-enabling studies and manufacturing and analytical processes will support a Phase 1 trial for SENTI-202, with the ultimate goal of targeting patients with CD33 and/or FLT3 expressing lematologic malignancies including AML and myelodysplastic syndrome (MDS). Initiating process and analytical technology transfer to our Alameda cGMP facility is another milestone that puts us one step closer to providing clinical-scale manufacturing for our CAR-NK cell development candidates."

The SENTI-401 program incorporates multiple Gene Circuit technologies to target solid tumors expressing the CEA tumor antigen, including colorectal cancer. Senti Bio has recently demonstrated, including data presented at the Society for Immunotherapy of Cancer (SITC) conference in November 2022, that CAR-NX cells expressing a potent CEA-targeting activating CAR along with two multifunctional cytokines (calibrated-release IL-15 and IL-21) exhibited significant activity in killing CEA-expressing tumors *in vitro*, even in the presence of inhibitory TGF-beta, and in mice. Furthermore, Senti Bio's optimized NOT gate technology was shown to achieve up to 98% protection of model healthy cells that express CEA along with a protective antigen, VSIG2. The Company believes the combination of Logic Gating and Multi Arming Gene Circuits within a single CAR-NK development candidate demonstrates the potential for Senti Bio's Gene Circuit technologies to be expanded to a wide range of solid tumor indications beyond SENTI-202 and SENTI-401.

Beyond oncology, the Company is continuing its strategic research collaborations with Spark Therapeutics on next-generation AAV gene therapy, and BlueRock Therapeutics on iPSC-derived cell therapies.

#### About Senti Bio

Our mission is to create a new generation of smarter medicines that outmaneuver complex diseases using novel and unprecedented approaches. To accomplish this, we are building a synthetic biology platform that may enable us to program next-generation cell and gene therapies with what we refer to as Gene Circuits. These novel and proprietary Gene Circuits are designed to reprogram cells with biological logic to sense inputs, compute decisions and respond to their cellular environments. We aim to design Gene Circuits to improve the intelligence of cell and gene therapies in order to enhance their therapeutic effectiveness, precision, and durability against a broad range of diseases that conventional medicines do not readily address.

Our synthetic biology platform utilizes off-the-shelf chimeric antigen receptor natural killer (CAR-NK) cells, outfitted with Gene Circuit technologies, to target particularly challenging liquid and solid tumor oncology indications. Our lead product candidate is SENTI-202 for the treatment of CD33 and/or FLT3 expressing hematologic malignancies, such as AML and MDS. Additionally, our SENTI-401 program is being designed for the treatment of colorectal cancer (CRC) and other CEA-positive cancers. We have also demonstrated in preclinical studies the potential breadth of our Gene Circuits in other modalities, including T cells, AAVs and iPSCs, and diseases outside of oncology; and we have executed partnerships with Spark Therapeutics and BlueRock Therapeutics to advance these capabilities.

#### Forward-Looking Statements

This press release and document contain certain statements that are not historical facts and are considered forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These forward-looking statements generally are identified by the words "believe," "could," "predict," "continue," "ongoing," "project," "expect," "anticipate," "estimate," "intend," "strategy," "future," "opportunity," "plan," "may," "should," "will," "would," "will be," "will continue," "will itely result," "forecast," "seek," "target" and similar expressions that predict or indicate future events or that are not statements of historical matters. Forward-looking statements are predictions, projections, and other statements about future events that are based on current expectations of Senti Bio's management and assumptions, whether or not identified in this document, and, as a result, are subject to risks and uncertainties. Forward-looking statements include, but are not limited to, statements regarding Senti Bio's research and development activities, including the development of the Company's SENTI-202 product candidate and the advancement of its SENTI-401 program, its interactions with regulatory authorities and plans to submit an IND application for SENTI-202, its plans to pursue potential strategic partnerships for SENTI 301A and other programs, its projected cash runway; and its continuation of its collaborations with Spark Therapeutics and BlueRock Therapeutics, as well as the timing of these events, as well as statements of bay and uncertainties. Forward-looking statements are provided for illustrative purposes only and are not intended to serve as and must not be relied on by any investor as, a guarantee, an assurance, a prediction, or a definitive statement of fact or probability. Actual events and circumstances are difficult or impossible to predict and will differ from assumptions. Many actual events and future elimical trial

intellectual property. Senti Bio's dependence on third parties for development and manufacture of product candidates, Senti Bio's ability to manage expenses and to obtain additional funding when needed to support its business activities and establish and maintain strategic business alliances and new business initiatives, the impacts of macroeconomic and geopolitical events, including changing conditions from the COVID-19 pandemic, the hostilities in Ukraine, increasing rates of inflation and rising interest rates on business operations and expectation, and the risk that Senti Bio's product candidates may not have beneficial attributes or may cause other unanticipated adverse effects. The foregoing factors is not exhaustive. You should carefully consider the foregoing factors and the other risks and uncertainties described in the "fik KFactors" section of Senti Bio's Quarderly Report on Form 10-Q, filed with the SEC. To November 10, 2022, and other documents filed by Senti Bio from time to time with the SEC. These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements in this document. There may be additional risks that Senti Bio does not presently know, or that Senti Bio currently believes are immaterial that could also cause actual results to differ from those contained in the forward-looking statements in this document. Forward-looking statements speak only as of the date they are made. Senti Bio anticipates that subsequent events and developments may cause Senti Bio's assessments to change. Except as regulted by law, Senti Bio assumes no obligation to update publicly any forward-looking statements, whether as a result of new information, future events, or otherwise.

#### Availability of Other Information About Senti Biosciences, Inc.

For more information, please visit the Senti Bio website at https://www.sentibio.com or follow Senti Bio on Twitter (@SentiBio) and LinkedIn (Senti Biosciences). Investors and others should note that we communicate with our investors and the public using our company website (www.sentibio.com), including, but not limited to, company disclosures, investor presentations and FAQs, Securities and Exchange Commission filings, preserve reases, public conference call transcripts and webcast transcripts, as well as on social media. The information that we post on our website or on social media shall not be deemed to be material information. As a result, we encourage investors, the media and others interested to review the information that we post on our website or social media shall not be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended.

Find more information at sentibio.com Follow us on Linkedin: Senti Biosciences

Contact Senti Bio: Email: investors@sentibio.com

Kelli Perkins (Media) Email: kelli@redhousecomms.com



#### Disclaimer

#### Forward Looking Statement

This presentation contains forward-looking statements. Statements we make in this presentation may include statements which are not historical facts and are considered forward-looking within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, which are usually identified by the use of words such as "anticipates," "believes," "estimates," "expects," "future," "opportunity," "proposed," "targets," "intend,s," "may," "plans," "projects," "seks," "should," "will," and variations of such words or similar expressions. We exchange Act and are making this statement for purposes of complying with those safe harbor provisions. There forward-looking statements, including statements relating to the attributes and benefits of our technology platform and our product candidates, including titude, including study design and endpoints, our ability to enter into and pursuit of new collaborations, our manufacturing process and its potential benefits, the benefits of our cell source, and our cash runway, reflect our current views about our plans, intentions, expectations, strategies and prospects, which are based on the information aguarantee, an assurance, a prediction or a definitive statement of fact or probability. Although we believe that our plans, intentions, expectations, strategies and prospects are reasonable, we can give no assurpations. Furthermore, actual results may differ materially from those described in the forward-looking statements are reasonable, we can give no assurpations. Furthermore, actual results advises for a variety of risks and factors that are beyond our control and will differ from assumptions. Furthermore, actual results and differ materially from those described in the forward-looking statements and will be affected by a variety of risks and factors that are beyond our control including, without limitation, the risk that results observed in studies of our product candidates, including reclinical studies of any of

#### Trademarks

This document contains references to trademarks, trade names and service marks belonging to other entities. Solely for convenience, trademarks, trade names and service marks referred to in this presentation may appear without the \* or TM symbols, but such references are not intended to indicate, in any way, that the applicable owner will not assert, to the fullest extent under applicable law, its rights to these trademarks and trade names. We do not intend our use or display of other entities' trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other entities.

## Pioneering Smarter Next Generation Cell and Gene Therapies



### **Gene Circuits**

Multi-Arming Logic Gating (OR and NOT GATEs) Regulator Dial Smart Sensor

#### to

reprogram cells to sense, compute, and respond to disease

## IND Anticipated in 2H 2022 Pipeline of CAR-NK Cell Therapies

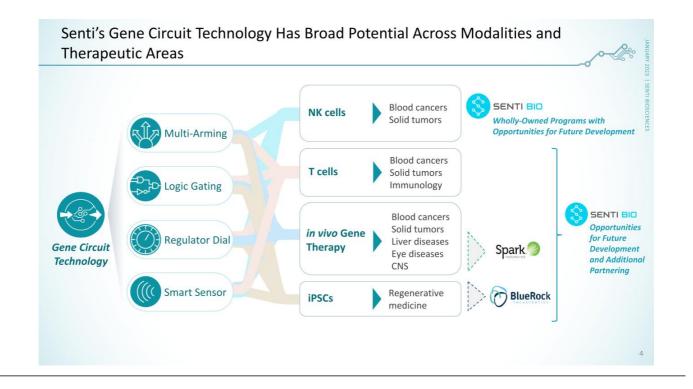
Diseases: blood cancers and solid tumors Gene Circuit advantages: multi-arming, selectivity and control Manufacturing: off-the-shelf, scalable with outpatient potential

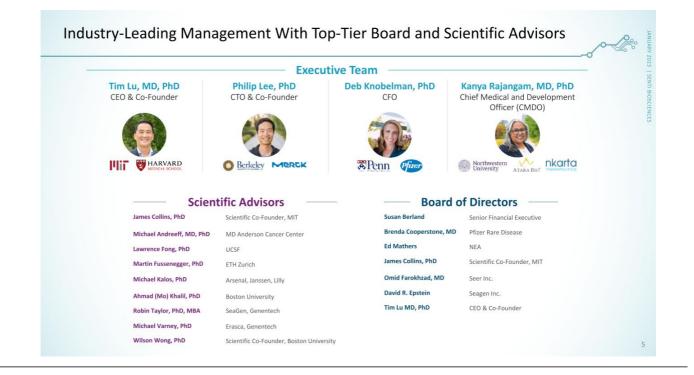


Precise gene therapy for eye, CNS and liver applications Targeted and controllable iPSC cell therapies for regenerative medicine

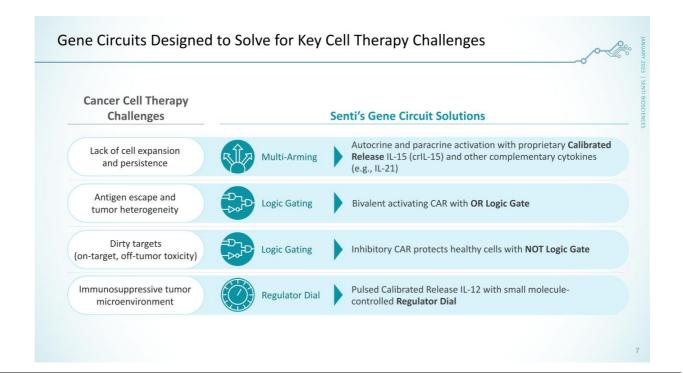
Public June 2022 | Anticipated Cash Runway Through At Least Q1 2024 | Headquartered South San Francisco, CA

CNS: Central Nervous System









## NK Cells Compare Favorably to T Cell Based Therapies

| Capabilities   | Current Auto<br>T Cells | Senti's<br>CAR-NK Cells |
|--|-------------------------|-------------------------|
| Off-the-shelf potential with broad patient accessibility                   | ×                       | $\checkmark$            |
| Designed with Logic Gates<br>to achieve enhanced<br>selectivity and safety | ×                       | $\checkmark$            |
| Engineered with enhanced persistence                                       | N/A                     | $\checkmark$            |
| Engineered to stimulate the patient immune system                          | ×                       | $\checkmark$            |
| Scalable and cost-effective<br>manufacturing process                       | ×                       | $\checkmark$            |

<sup>1</sup> Lamers-Kok Journal of Hematology & Oncology 2022; <sup>2</sup> Bachier 2021

## Extensive clinical experience with allogeneic donor-derived unengineered NK cells<sup>1</sup>

- ~70 global peripheral blood derived unengineered NK cell therapy clinical trials<sup>1</sup>
- Well-tolerated (~500 patients clinical experience)<sup>2</sup>
   No (or minimal) CRS, neurotoxicity, GvHD
- Anti-tumor activity observed in AML<sup>2</sup>
  - 19% CR in 105 R/R AML patients aggregated from multiple trials

#### Key limitations of unengineered NK cells

Limited activity beyond AML, persistence, durability, donor variability and select single clinical center usage

Senti's Gene Circuit technology, proprietary expansion and cryopreservation processes and extensive donor selection address these limitations

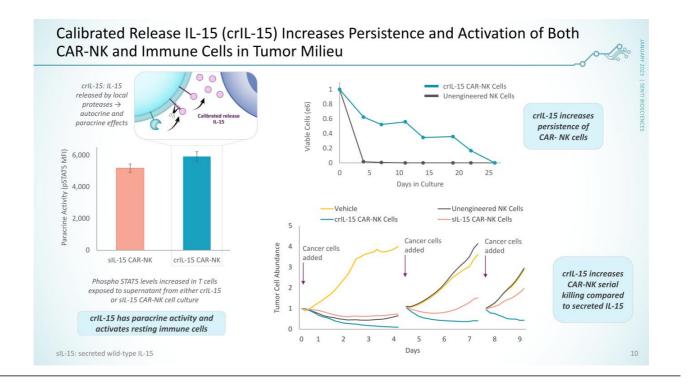
# Peripheral Blood-Sourced NK Cells Provide Multiple Advantages for Next Generation CAR-NK Cell Therapies

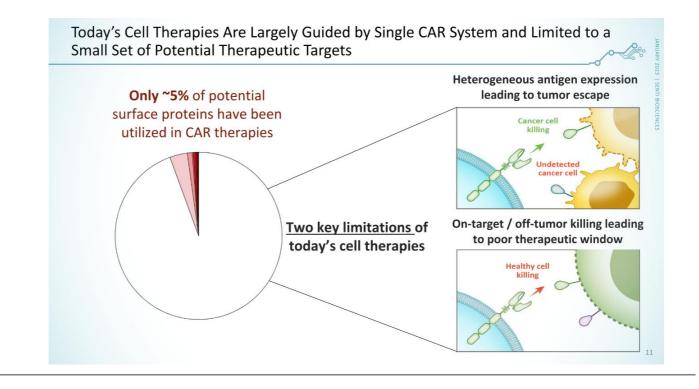
| Features                 | Cord Blood NK Cells   | iPSC-Derived NK-Like Cells  | Peripheral Blood NK Cells   |
|--------------------------|---|---|---|
| NK Cell<br>Expandability | Increased expansion<br>potential but smaller<br>number of starting cells              | Similar expandability<br>to peripheral blood  | Established methods for 1,000-<br>10,000-fold expansion in 14-21 days                                       |
| Potency and<br>Function  | More immature repertoire of NK cells  | Unclear if identical to primary NK cells  | Full repertoire of functional and mature NK cells   |
| Genetic<br>Engineering   | Well established protocols for genetic engineering                                    | iPSC engineering and clone<br>selection with extensive<br>pre-clinical characterization | Well established protocols for genetic engineering  |
| GMP Process<br>Maturity  | Established unit operations for clinical process                                      | More complex,<br>multistage process   | Well established unit operations fo<br>clinical process with defined path<br>for commercial scaling process |
| Clinical<br>Experience   | Modest clinical experience<br>with 30+ clinical trials using<br>cord-derived NK cells | Limited clinical experience<br>- 4 clinical trials using iPSC<br>derived NK cells       | Widely used NK cell source in<br>clinical trials with 200+ clinical<br>trials using peripheral NK cells     |

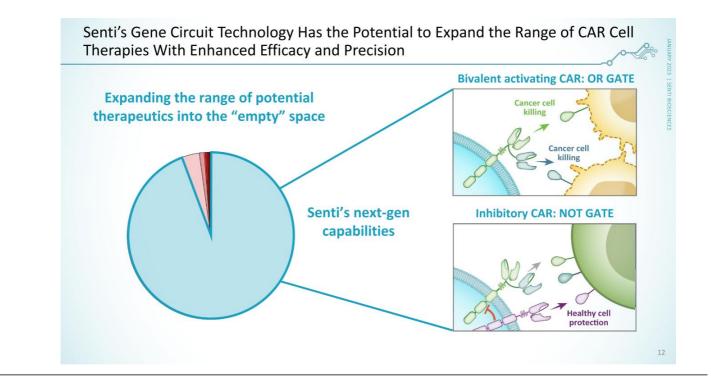
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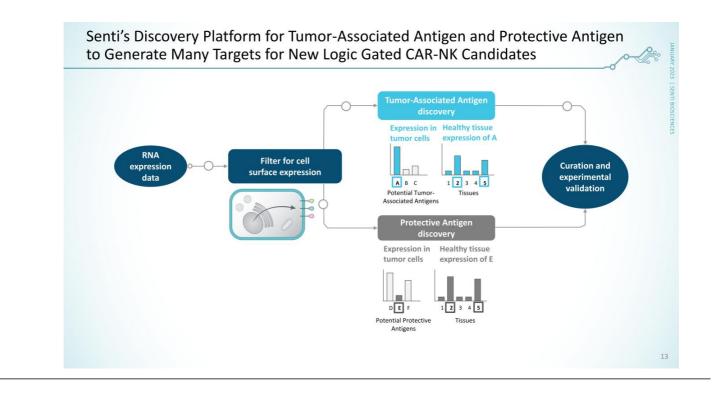
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Peripheral blood-sourced NK cells allow us to immediately leverage an established supply chain, a mature GMP process, and extensive clinical experience to develop our next generation CAR-NK cell therapies

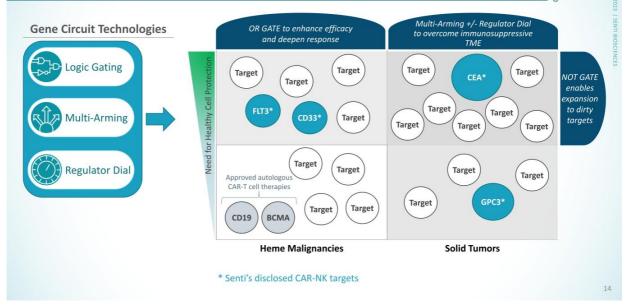










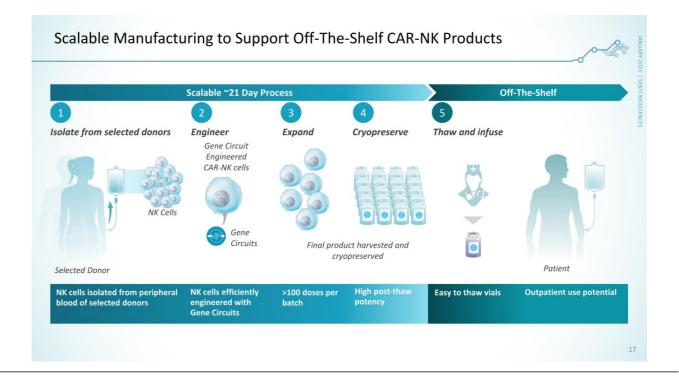


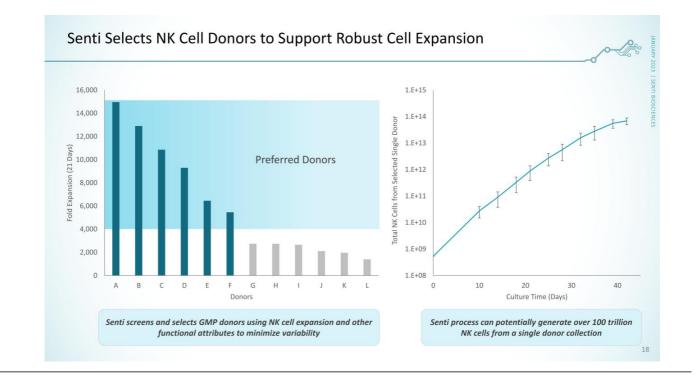
## Senti's Next Generation CAR-NK Cell Therapy Pipeline Tackles Hard to Treat Cancers

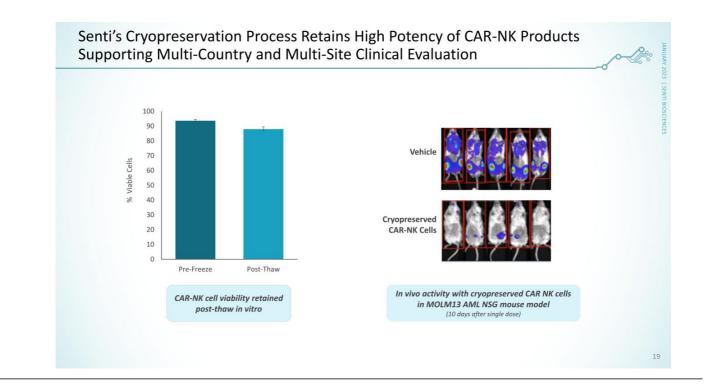
| Program                | Target              | Indications                            | Discovery                     | IND enabling                       | Phase 1 | Gene Circuits  |
|------------------------|---------------------|--|-------------------------------|------------------------------------|---------|--|
| SENTI-202              | CD33<br>and/or FLT3 | AML, MDS<br>and other<br>blood cancers | 2                             | H 2023 IND                         |         | <ul> <li>Multi-Arming: designed for enhanced efficacy</li> <li>crIL-15: autocrine and paracrine activation</li> <li>OR GATE: bivalent activation</li> <li>NOT GATE selectivity: healthy cell protection</li> </ul>         |
| SENTI-401              | CEA                 | CRC and<br>other solid<br>tumors       |                               |                                    |         | <ul> <li>Multi-Arming: designed for enhanced efficacy</li> <li>crIL-15: autocrine and paracrine activation</li> <li>NOT GATE selectivity: healthy cell protection</li> <li>IL-21: sustained anti-tumor function</li> </ul> |
| SENTI-301A             | GPC3                | HCC and<br>other solid<br>tumors       | Potential for parts<br>clinic | nering or future<br>al development |         | <ul> <li>Multi-Arming: designed for enhanced efficact</li> <li>crIL-15: autocrine and paracrine activation</li> </ul>  |
| Additional<br>Programs | Undisclosed         | Other tumors                           |                               |                                    |         | Program candidates integrate Multi-Arming,<br>Logic Gating and/or Regulator Dial Gene Circuits   |

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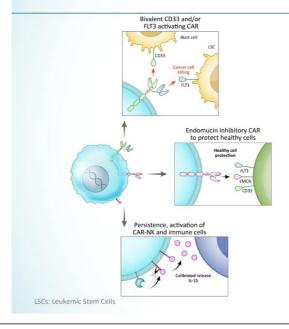








## SENTI-202 for CD33 and/or FLT3 Expressing Blood Cancers



Multi-Armed, off-the-shelf, selective CAR-NK

OR GATE: bivalent CD33 and/or FLT3 activation
 → potential for deep and durable responses in
 acute myeloid leukemia (AML) and other blood
 cancers.

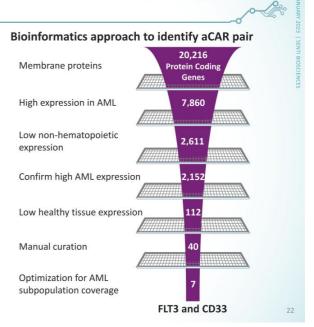
- NOT GATE: inhibition by endomucin (EMCN) protective antigen selectively expressed on healthy hematopoietic stem cells (HSCs) → potential for improved safety and increased therapeutic window
- crlL-15 → potential for increased persistence, autocrine and paracrine immune cell activation
   On track for IND in 2H 2023

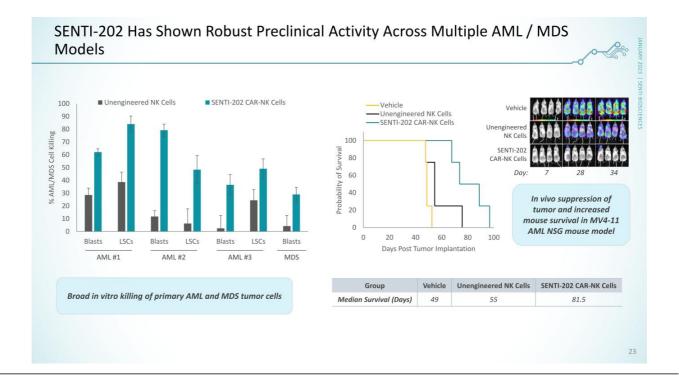
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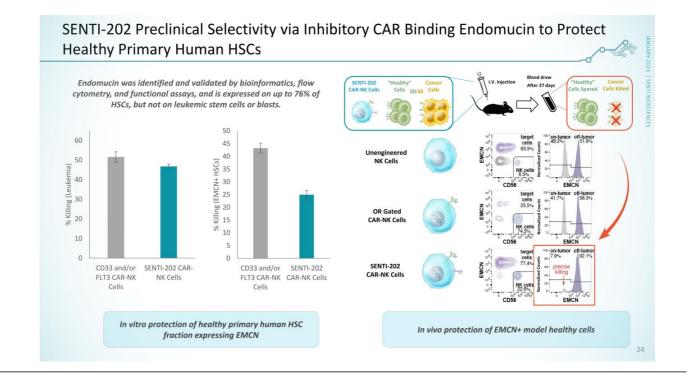
# SENTI-202 Aims to Address Unmet Needs in FLT3 and/or CD33 Expressing Blood Cancers With a Focus on AML

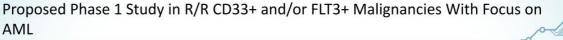


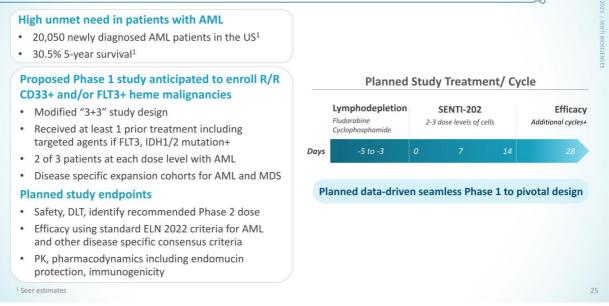
- FLT3 and/or CD33 expressed in ~95% of AML
- Targeting FLT3 and CD33 with an OR GATE has potential of increased efficacy and deeper remission, due to decreased likelihood of tumor antigen escape
- Rigorous bioinformatics approach was used to identify CD33 and FLT3 as an optimal aCAR pair to provide broad coverage of blasts and LSCs



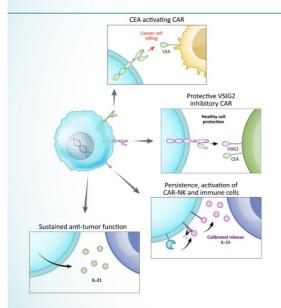








## SENTI-401 for CEA Expressing Solid Tumors

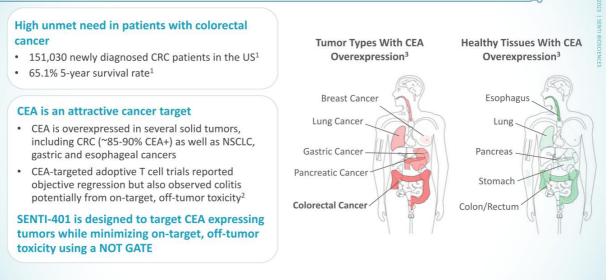


### Multi-Armed, off-the-shelf, selective CAR-NK

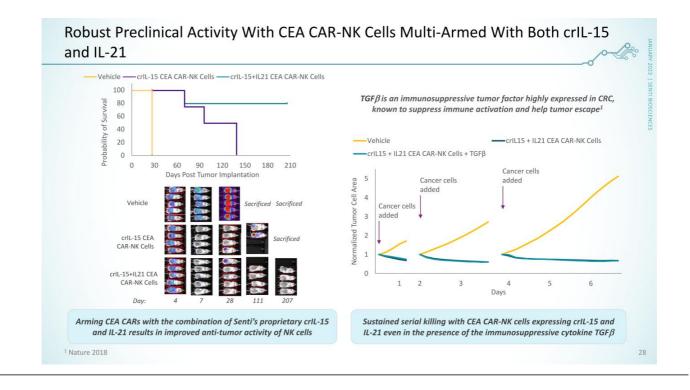
- CEACAM5 (CEA) activating CAR → metastatic colorectal cancer (mCRC) and other solid tumors
- NOT GATE: inhibition by VSIG2 antigen on healthy epithelial cells → potential for improved safety, increased therapeutic window and reduced ontarget, off-tumor toxicity
- crlL-15 → potential for increased persistence and autocrine and paracrine immune cell activation
- IL-21 → construct to further potentiate persistence and efficacy of CAR-NK cells and to stimulate endogenous immune cells

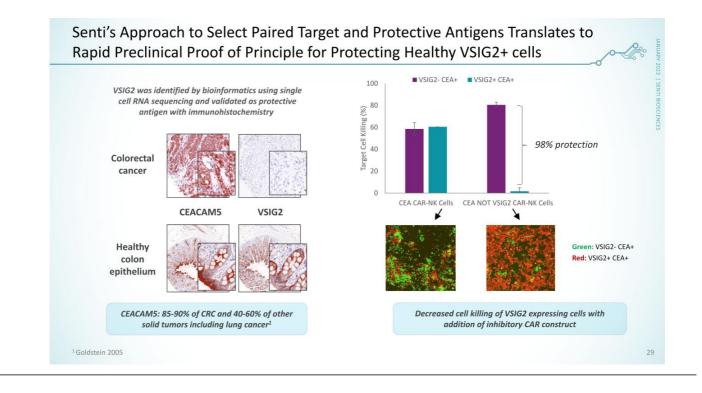
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# SENTI-401 Aims to Address Unmet Needs in CEA Expressing Solid Tumors With a Focus on mCRC

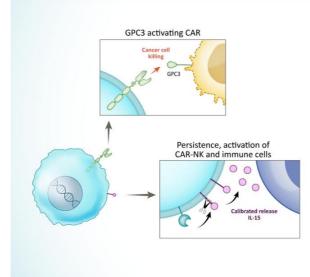


<sup>1</sup> Seer estimates, <sup>2</sup>Parkhurst, et al. <sup>3</sup>Median expression of tumor and normal samples in body map (Log2 (TPM+1) scale). Source: TCGA, Gtex and Nat Genetics 2020 [GSE132465] 27





## SENTI-301A for GPC3 Expressing Solid Tumors



Multi-Armed, off-the-shelf, selective CAR-NK

- GPC3 activating CAR → hepatocellular carcinoma (HCC) and other solid tumors
- crlL-15 → potential for increased persistence, autocrine and paracrine immune cell activation

Pursuing strategic geographic partnerships to enable clinical development in areas with high HCC incidence such as in China

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## SENTI-301A Aims to Address Unmet Needs in GPC3 Expressing Solid Tumors With a Focus on HCC

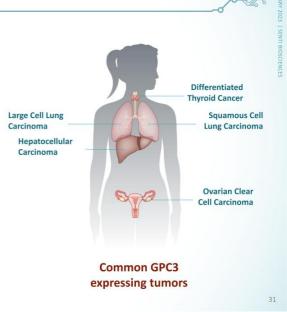
#### GPC3 is an attractive cancer target

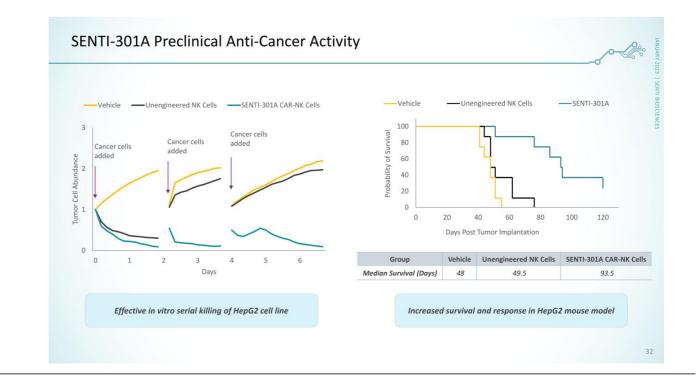
- Glypican-3 (GPC3) is a membrane-bound protein normally expressed in fetal tissues such as liver and placenta.
- After birth, GPC3 is not expressed in healthy liver tissue or other human organs but is overexpressed in different tumor types, notably in HCC (70-90% GPC3+)<sup>1</sup> and other solid tumors (29-54%<sup>2</sup> GPC3+)
- Academic GPC3 CAR-T cell trials have shown promising activity but limited by CAR-T toxicities precluding multiple dosing and limited durability<sup>3</sup>

## SENTI-301A is designed to target GPC3 expressing tumors

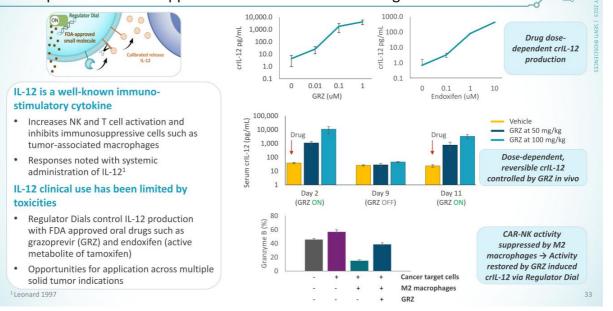
- Aim to address unmet need in HCC as the initial focus given the lack of targeted therapies and lack of effective immunotherapies
- Tackle multiple solid tumors with high GPC3 antigen expression via NKs multi-armed with GPC3 CAR and crIL-15

<sup>1</sup> Zheng 2022, <sup>2</sup> Moek 2018, <sup>3</sup> Shi 2020





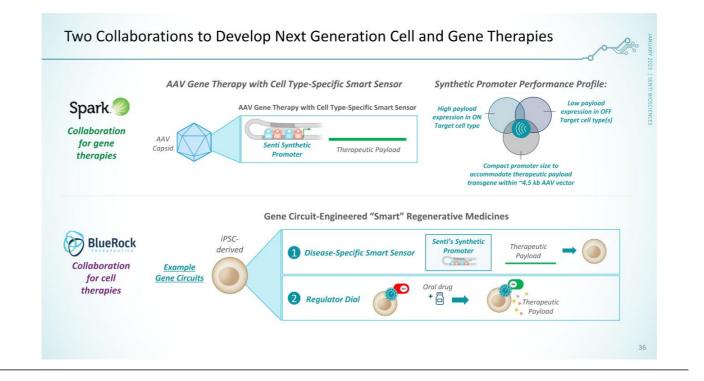
## Senti's Regulator Dial Enables On-Demand Production of crIL-12 Controlled via Multiple Distinct FDA-Approved Small Molecule Oral Drugs

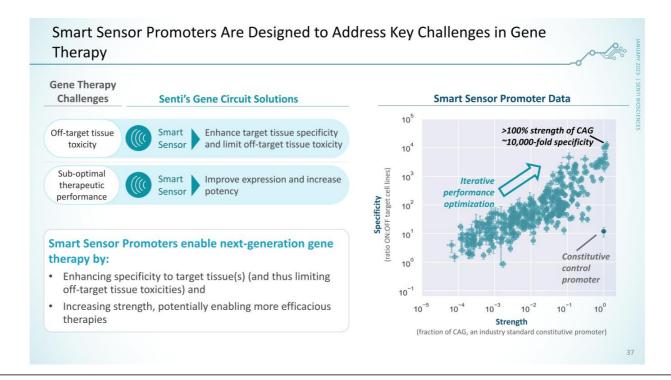




## Multiple Platform Collaborations Extend Utility of Gene Circuits

| Program              | Indications             | Gene Circuit   | Discovery | IND enabling | Phase 1 | Rights   |
|----------------------|-------------------------|----------------|-----------|--------------|---------|----------|
| Gene Therapies for   | Tissue-Directed Targets |                |           |              |         |          |
| GC-1001/GC-1002      | Eye                     | Smart Sensor   |           |              |         |          |
| GC-1003/GC-1004      | CNS                     | Smart Sensor   |           |              |         |          |
| GC-1005              | Liver                   | Smart Sensor   |           |              |         | Inche    |
| Cell Therapies for F | Regenerative Medicine   |                |           |              |         |          |
| GC-1101              | Regenerative Medicine   | Regulator Dial |           |              |         | 0        |
| GC-1102              | Regenerative Medicine   | Regulator Dial |           |              |         | BlueRock |
| GC-1103              | Regenerative Medicine   | Smart Sensor   |           |              |         | R.       |





## Completed Milestones and Upcoming Value Driving Milestones

| Program  | 2022 Completed Milestones  | 2023 Anticipated Milestones                          |  |  |
|--|--|--|--|--|
| SENTI-202<br>CD33 and/or FLT3<br>ML, MDS and other blood cancers | Presented key preclinical data<br>at ASH in December 2022                | File IND application in 2H 2023                      |  |  |
| SENTI-401<br>CEA<br>CRC and other solid tumors                   | Presented preclinical data at SITC in November 2022                      | Present data at key scientific conferences           |  |  |
| SENTI-301A<br>GPC3<br>HCC and other solid tumors                 | Presented preclinical data<br>at SITC in November 2022                   |  |  |  |
| Additional Programs<br>Other tumors                              | Initiated research work on additional CAR-NK pipeline programs           | Pre-clinical PoCs for additional pipeline candidates |  |  |
| Manufacturing  | Initiated manufacturing activities and presented data at key conferences |  |  |  |

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