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): December 11, 2023

SANA BIOTECHNOLOGY, INC. (Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation)

001-39941 (Commission File Number)

83-1381173 (IRS Employer Identification Number)

		188 East Blaine Street, Suite 400 Seattle, Washington 98102 of principal executive offices, including Zip Co	ode)
	Registrant's teleph	none number, including area code: (2	206) 701-7914
	ck the appropriate box below if the Form 8-K filing is in owing provisions:	ntended to simultaneously satisfy the fi	ling obligation of the registrant under any of the
	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)		
	Pre-commencement communications pursuant to Rule	14d-2(b) under the Exchange Act (17	CFR 240.14d-2(b))
	Pre-commencement communications pursuant to Rule	13e-4(c) under the Exchange Act (17	CFR 240.13e-4(c))
Sec	urities 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, \$0.0001 par value per share	SANA	The Nasdaq Stock Market LLC
	cate by check mark whether the registrant is an emerging oter) or Rule 12b-2 of the Securities Exchange Act of 19		405 of the Securities Act of 1933 (§230.405 of this
			Emerging growth company ⊠
T.C	i	he registrent has elected not to use the	autonded transition period for complying with any

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. \Box

Item 7.01 Regulation FD Disclosure.

On December 11, 2023, the Company released an updated corporate presentation (the "Corporate Presentation"), a copy of which is furnished as Exhibit 99.1 to this Current Report on Form 8-K (this "Current Report") and is incorporated by reference herein.

In accordance with General Instruction B.2 of Form 8-K, the information furnished with this Current Report, including Exhibit 99.1, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended ("Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference into any other filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

Forward-Looking Statements

This Current Report contains forward-looking statements, including regarding the timing or likelihood of the Company's regulatory filings and the timing and availability of clinical data. These forward-looking statements reflect the Company's views regarding current expectations and projections about future events and conditions and are based on currently available information. These forward-looking statements are not guarantees of future performance and are subject to risks, uncertainties and assumptions that are difficult to predict and the Risk Factors identified in the Company's filings with the SEC, including the Company's Annual Report on 10-K for the year ended December 31, 2022 and its Quarterly Report on Form 10-Q for the period ended September 30, 2023, and any subsequent Quarterly Reports on Form 10-Q; therefore, the Company's actual results could differ materially from those expressed, implied or forecast in any such forward-looking statements. Expressions of future goals and expectations and similar expressions, including "may," "will," "should," "could," "aims," "seeks," "expects," "plans," "anticipates," "intends," "believes," "estimates," "predicts," "potential," "targets," and "continue," reflecting something other than historical fact are intended to identify forward-looking statements. Unless required by law, the Company undertakes no obligation to update publicly any forward-looking statements, whether as a result of new information, future events, or otherwise. However, readers should carefully review the reports and documents the Company files or furnishes from time to time with the SEC, particularly its Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, and Current Reports on Form 8-K.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

See the Exhibit Index below, which is incorporated by reference herein.

EXHIBIT INDEX

Exhibit Number	Description
99.1	Corporate Presentation dated December 11, 2023
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

SIGNATURES

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 thereunto duly authorized.

Sana Biotechnology, Inc.

Date: December 11, 2023

Ву:

/s/ Bernard Cassidy
Bernard Cassidy
Executive Vice President and General Counsel

Corporate Presentation December 2023



Cautionary Note Regarding Forward-Looking Statements

This presentation contains forward-looking statements about Sana Biotechnology, Inc. (the "Company," "we," "us," or "our") within the meaning of the federal securities laws. All statements other than statements of historical facts contained in this presentation, including, among others, statements regarding the Company's strategy, expectations, cash runway and future financial condition, future operations, and prospects, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "aim," "anticipate," "assume," "believe," "contemplate," "continue," "could," "design," "due," "estimate," "expect," "goal," "intend," "may," "objective," "plan," "positioned," "potential," "predict," "seek," "should," "target," "will," "would" and other similar expressions that are predictions of or indicate future events and future trends, or the negative of these terms or other comparable terminology. The Company has based these forward-looking statements largely on its current expectations, estimates, forecasts and projections about future events and financial trends that it believes may affect its financial condition, results of operations, business strategy and financial needs. In light of the significant uncertainties in these forward-looking statements, you should not rely upon forward-looking statements as predictions of future events. These statements are subject to risks and uncertainties that could cause the actual results to vary materially, including, among others, the risks inherent in drug development such as those associated with the initiation, cost, timing, progress and results of the Company's current and future research and development programs, preclinical studies, and clinical trials.

For a detailed discussion of the risk factors that could affect the Company's actual results, please refer to the risk factors identified in the Company's SEC reports, including its Quarterly Report on Form 10-Q dated November 8, 2023. Except as required by law, the Company undertakes no obligation to update publicly any forward-looking statements for any reason.



2020-2023 Sana Biotechnology, All rights reserved

Sana Biotechnology

Engineered Cells as Medicines

Sana's ambition is to repair or replace any cell in the body. Technologies address fundamental barriers:

- Hypoimmune (HIP) technology: Overcoming immune rejection of allogeneic cells
- Fusogen technology: In vivo delivery of genomic modification reagents in a cell-specific manner

Overcoming immune rejection of allogeneic cells has potential to change cell therapy:

- · Allogeneic CAR T cells that perform clinically like autologous CAR T cells can transform treatment of hematological malignancies
- · Key to unlocking the potential of stem cell-derived therapies such as pancreatic islet cells for the treatment of type 1 diabetes

Three programs in the clinic...

- · SC291 in oncology: Goal of understanding immune evasion and activity in multiple cancers
- · SC291 in autoimmune diseases: Goal of understanding activity in three indications
- HIP primary islets in patients with type 1 diabetes: Goal of understanding ability to overcome allogeneic and autoimmune destruction of cells

...and more to come. Pipeline poised to deliver multiple clinical data readouts

- · Hypoimmune allogeneic CAR T cells: SC262 (CD22), SC255 (BCMA), and beyond
- Regenerative medicine: SC451 (type 1 diabetes) and SC379 (CNS disorders)

Balance sheet allows potential for multiple data readouts



© 2020-2023 Sana Biotechnology. All rights reserved

Sana's ex vivo cell engineering technology

Pipeline poised to deliver multiple clinical data readouts over next several years

PRODUCT CANDIDATE	MECHANISM	POTENTIAL INDICATIONS	PRECLINICAL IND-ENABLING	PHASE 1	PHASE 2/3	SANA'S RIGHTS
SC291	CD19-targeted allo CAR T	NHL, CLL	ARDENT Study Recruiting			ww
SC291	CD19-targeted allo CAR T	LN, ERL, AAV	IND Cleared			ww
HIP Primary Islet Cells ¹		T1D	CTA Authorized			ww
SC262	CD22-targeted allo CAR T	NHL, ALL, CLL	IND Submitted			ww
SC451	Stem-cell derived pancreatic islet cells	T1D				ww
SC379	Glial progenitor cells	HD, PMD, SPMS				ww
SC255	BCMA-targeted allo CAR T	MM				ww

¹investigator sponsored trial.
Abbreviations: AAV, ANCA-associated vasculitis; AD, autoimmune disease; ALL, acute lymphoblastic leukemia; CLL, chronic lymphocytic leukemia; CTA, clinical trial application; ERL, extrarenal systemic lupus erythematosus; HD, Huntington's disease; IND, investigational new drug; LN, lupus nephritis; MM, multiple myeloma; NHL, non-Hodgkin's lymphoma; PMD, Pelizaeus-Merzbacher Disease; SCD, sickle cell disease; SPMS, secondary progressive multiple sclerosis; T1D, type 1 diabetes; WW, worldwide.

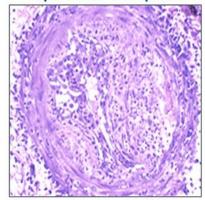


© 2020-2023 Sana Biotechnology. All rights reserved.

Overcoming allogeneic immune rejection has been key limitation in transplant and cellular medicine

- ~75 years of organ and bone marrow transplants immune rejection remains the largest problem
- Cell-based medicines face similar immune rejection challenges
- · Significant immunosuppression is current standard
- · Genome modification efforts to date have generally been incomplete
- Autologous therapies have limited scalability and are only available for a small number of cell types
- Sana's hypoimmune platform is designed to overcome immune rejection of foreign cells, which has the potential to unlock the field of cellular medicine

Biopsy of acute rejection of a pancreas transplant



Drachenberg et al. Am. J. Transplant. 200



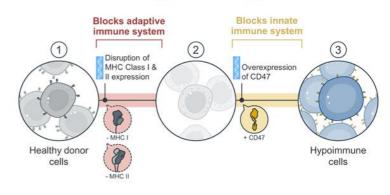
2020-2023 Sana Biotechnology. All rights reserved.

Sana's hypoimmune solution: Leverage insights from nature

Leverage insights from nature to create hypoimmune cells



Sana's hypoimmune approach

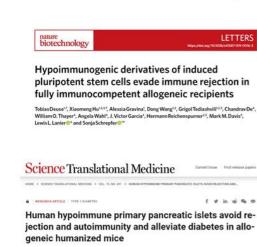


Abbreviations: MHC, major histocompatibility complex. Current clinical platform with multiple ongoing approaches in research phase.



© 2020-2023 Sana Biotechnology. All rights reserved.

Sana's team has pioneered hypoimmune technology



LETTERS

The SIRPa-CD47 immune checkpoint in NK cells

nature communications Hypoimmune anti-CD19 chimeric antigen receptor T cells provide lasting tumor

control in fully immunocompetent allogeneic humanized mice

PNAS

\$JEM≡

Hypoimmune induced pluripotent stem cell-derived cell therapeutics treat cardiovascular and pulmonary diseases in immunocompetent allogeneic mice

nature biotechnology

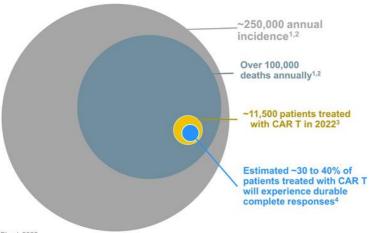
Hypoimmune induced pluripotent stem cells survive long term in fully immunocompetent, allogeneic rhesus macaques

Received: 18 May 2022	Xiaomeng Hu', Kathy White', Ari G. Otroyd', Rowena DeJesus',
Accepted: 6 April 2023	Antonia A. Dominguez', William E. Dowdle', Annabelle M. Friera', Chi Young @ Frank Wells', Elaine Y. Chu @ ', Cade Ellis Ito', Harini Krishnapura', Surbhi Jain'.
Published online: 98 May 2023	Ramya Ankala', Trevor J. McGill', August Lin', Kyla Egenberger', Allison Gegnon', J. Michael Rukstallis', Nathaniel J. Hogrebe ² , Corie Gattis Ron Basco', Jeffrey R. Millman', Paul Klevit ³ , Mark M. Davis ⁴ , Lewis L. Lani
Check for updates.	
	Andrew J. Connolly ⁴ , Tobias Deuse ● ¹⁴ & Sonja Schrepfer ● ¹⁴



Hematologic cancers continue to have a high unmet need

High mortality in lymphoma and myeloma in the US and EU5



Avezbakiyev et al. Blood. 2022

Abbreviations: EU5, France, Germany, Italy, Spain, UK



Challenges

- Autologous CAR T cell scalability
- Many patients fail CAR T treatment
- Allogeneic CAR T cells immune rejection limits persistence and efficacy

Opportunity

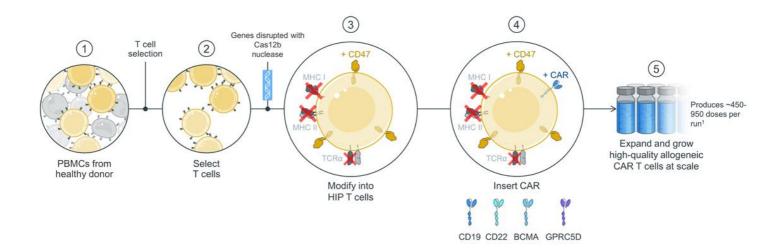
- Known targets
- · Known efficacy and safety bar

Sana's HIP CAR T platform can address challenges and exploit opportunities

© 2020-2023 Sana Biotechnology. All rights reserved

^{*}Durie et al. The Oncologist. 2020 3Clarivate DRG NHL and MM Market Forecast Nov 2022; internal analysis of secondary EPI data

Sana's HIP platform can create a regenerative pipeline for allogeneic CAR T therapies

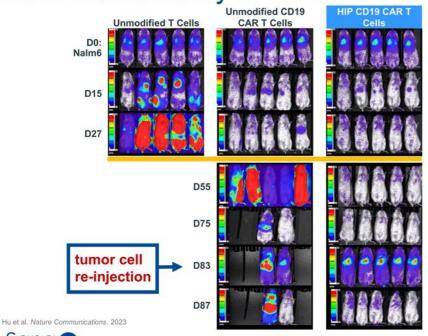


¹⁻⁴⁵⁰ doses assumes the middle dose in the ARDENT Phase 1 study and -950 doses assumes an autoimmune dose consistent with public data on current autoimmune dose levels. Abbreviations: Cas12b, CRISPR associated protein 12b; GPRC5D, G protein-coupled receptor, class C, group 5, member D; PBMC, peripheral blood mononuclear cell.



2020-2023 Sana Biotechnology. All rights reserved.

HIP CD19 CAR T cells demonstrate persistence and continued efficacy in humanized mice model



- SC291 tumor control comparable at early timepoints to standard CD19 CAR T cells
- SC291 tumor control superior at later timepoints to standard CD19 CAR T cells
- SC291 controls tumors when animals are rechallenged with tumor

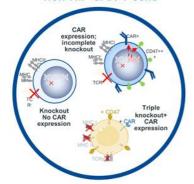


2020-2023 Sana Biotechnology. All rights reserved

ARDENT trial will provide rapid insight into hypoimmune immune evasion

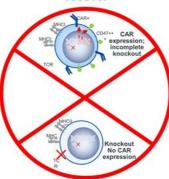
Day 0 2-4 weeks 1 month +

SC291 is a mixture of HIP and non-HIP CAR T cells



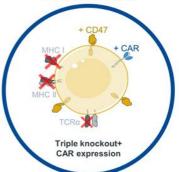
Triple Knockout and CAR expression: 40-50% are fully modified cells 80-85% have all three gene knockouts

T cells and NK cells recover



Non-HIP cells eliminated by patient immune system

HIP CAR T cells survive after immune recovery

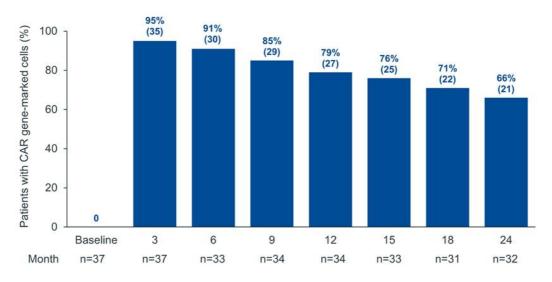


Triple Knockout and CAR expression: With success, ~100% of surviving cells fully modified



© 2020-2023 Sana Biotechnology. All rights reserved.

CAR T cells remain detectable in the majority of patients with ongoing response treated in ZUMA-1 trial







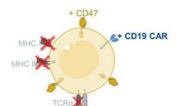
© 2020-2023 Sana Biotechnology. All rights reserved

Improved persistence can lead to best-in-class allogeneic CAR T platform

SC291: Sana's CD19 HIP allogeneic CAR T

- Initial translational data show drug evaded immune detection as desired:
 - Immune cells from patient one month after treatment did not recognize fully-edited SC291 cells
 - Immune cells from patient one month after treatment recognized and killed partially-edited and non-edited cells
- · More data to come

Allogeneic HIP CAR T cell



Data show CAR T cell persistence correlates with long term complete response (CRs) rates¹

CAR T Persist	tence	Potential Efficacy Outcome	
≤ 1 month	>>>	Comparable to existing Allo CAR T	
2 to 3 months	>>>	Best-in-class Allo CAR T	
3 to 6 months	>>>	Comparable to Auto CAR T	
≥ 6 months	>>>	Better than Auto CAR T	



© 2020-2023 Sana Biotechnology. All rights reserved

CAR T cells have the potential to transform autoimmune disorders like they have in blood cancers

B-cell targeting validated across multiple autoimmune diseases

Field has spent 25+ years identifying

- · Systemic lupus erythematosus (SLE)
- · Lupus Nephritis
- · Vasculitis (Granulomatosis with polyangiitis & Microscopic polyangiitis)
- · Neuromyelitis optical spectrum
- Pemphigus
- Relapsing and progressive MS
- Rheumatoid Arthritis
- · Sjogren syndrome
- NMDAR encephalitis
- · Thrombocytopenic purpura
- Amyloidosis
- Scleroderma
- · Autoimmune Hemolytic Anemia
- · Chronic immune demyelinating polyradiculoneuropathy
- · Immune-mediated necrotizing myopathy
- · Membranous nephropathy

Depth of B-cell depletion correlates with clinical benefit

- CD19 CAR T cell therapy results in deep B-cell depletion
- Potential to deliver durable long-term remissions

SC291 has the scale and potential profile to change patient outcomes

- Drug product from oncology studies ready for use
- PoC studies across multiple diseases in near term

Adapted from Zhang et al. Frontiers in Immunology. 2023; Oh et al. Immune Network. 2023; Lee et al. Nature Reviews Drug Discovery. 2021



2020-2023 Sana Biotechnology. All rights reserved

SC291 product candidate offers potential to address large unmet need in various incurable lifelong autoimmune disorders

SC291: CD19 HIP allogeneic CAR T for treatment of autoimmune disorders



Manufacturing product can be used in oncology or autoimmune disorders

SC291 IND cleared to treat multiple autoimmune disorders under a single protocol

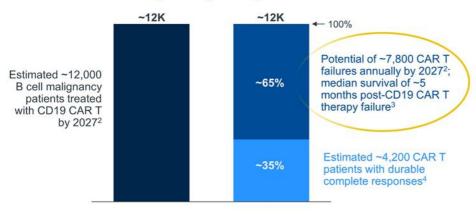
Lupus nephritis	Extrarenal lupus	ANCA-associated vasculitis
Over 150K in US and over 3M patients worldwide	Over 100K in US and 2M worldwide	~60K in US alone
17% of patients develop end stage renal disease within 10 years of diagnosis	Significant risk of hematologic, neurologic, cardiac, pulmonary and infectious complications	If untreated, 93% mortality within two years; cyclophosphamide has cancer and infertility risk
Current treatments: lifelong therapy; steroids, immunosuppression (MMF), rituximab, obinutuzumab, voclospirin, belimumab	Current treatments: lifelong therapy; steroids, immunosuppression, hydroxychloroquine, MMF, and biologics	Current treatment: combination of high-dose glucocorticoids with either cyclophosphamide or rituximab, avacopan



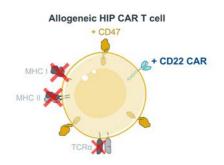
© 2020-2023 Sana Biotechnology. All rights reserved

SC262: Targeting growing population of patients with inadequate response to CD19 therapy

CD19 CAR T relapsed patients represent large and growing unmet need1



SC262 utilizes a clinicallyvalidated CD22 CAR



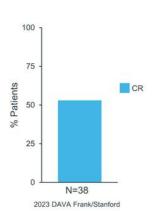
¹US, EU5, and Japan.
²Clarivate DRG NHL Market Forecast Nov 2021; 2027 Forecast is 2L+ LBCL patients; internal analysis of secondary EPI data. ³Di Blasi et al. Blood.2022; DESCAR-T registry.

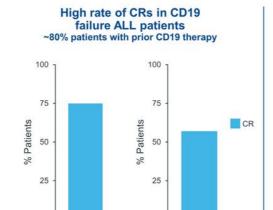


© 2020-2023 Sana Biotechnology. All rights reserved.

SC262: Licensed CD22 CAR produced strong clinical data in CD19 failures when part of autologous CAR T

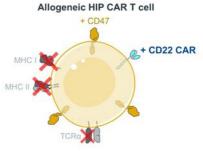
>50% 6-month CR rate in CD19 CAR failure DLBCL patients





Expand our allo T platform to CD22 with Sana's SC262 candidate

Allogeneic HIP CAR T cell + CD47



SC262 Goals: Submitted IND; clinical data in 2024

N=16

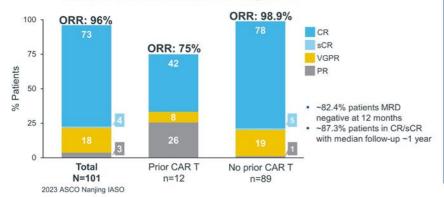


© 2020-2023 Sana Biotechnology. All rights reserved.

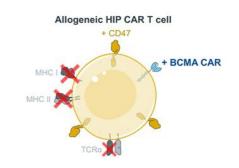
N=21

SC255: Licensed BCMA CAR produced strong clinical data in myeloma when part of autologous CAR T

High response rate in multiple myeloma with 95% of patients MRD negative



Expand our allo T platform to BCMA with Sana's SC255 candidate



Abbreviations: CR, complete response; ORR, objective response rate; PR, partial response; sCR, stringent complete response; VGPR, very good partial response.



2020-2023 Sana Biotechnology. All rights reserved.

Type 1 diabetes represents a large unmet need with a loss of ~15 years of life1

- · Disease caused by autoimmune destruction of insulinproducing beta cells in the pancreas; results in inability to control blood glucose
- Type 1 diabetes is a large unmet need with 1.9M patients in the U.S. and 2.4M in Europe²
- · Long-term complications: end-organ damage, including heart attack, stroke, blindness, and kidney failure
- SC451 goal is euglycemia without exogenous insulin or immunosuppression



¹Rawshani et al. *Lancet*. 2018 ²Clarivate Type 1 Diabetes Landscape & Forecast, December 2022; internal analysis of secondary EPI data.



Sana's solution: SC451 is an allogeneic iPSC-derived hypoimmune pancreatic islet cell therapy

 Hypoimmune technology overcomes allogeneic rejection and autoimmunity



2. iPSC-derived islet cells can be scaled to treat many patients

Create iPSC GMP master cell bank

Differentiate iPSCs into glucose-responsive islet cells that are hypoimmune





3. Intramuscular implantation site improves access and function



Hu et al. Nature Biotechnology. 2023

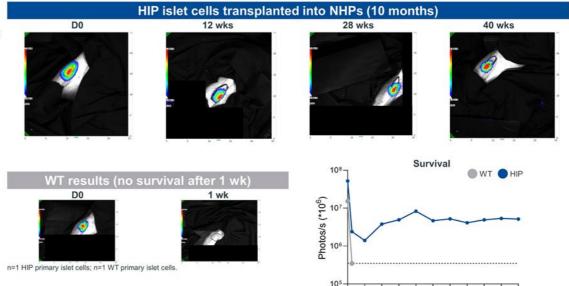


© 2020-2023 Sana Biotechnology. All rights reserved.

Survival of allogeneic hypoimmune pancreatic islet cells for 10+ months without immunosuppression

Study design:

- NHP primary islet cells isolated and HIP-engineered
- Cells injected intramuscularly into a healthy, allogeneic NHP without immunosuppression



NHP unmodified islet cells (wt) and NHP hypoimmune islet cells (HIP) Hu et al. Nature Biotechnology. 2023



© 2020-2023 Sana Biotechnology. All rights reserved

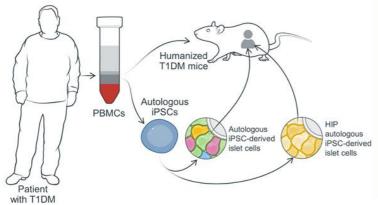
21

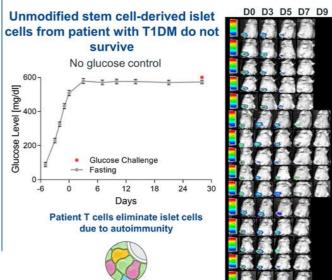
12 16 20 24 28 32 36 40

Weeks

Sana's immunology, gene modification, & stem cell capabilities create proprietary type 1 diabetes model

PBMCs from patient with T1DM used to generate stem cellderived islet cells and to humanize immune system in mice



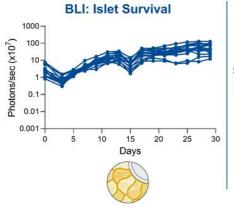


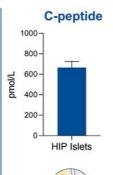
Abbreviations: T1DM, type 1 diabetes mellitus Hu et al. *Sci Transl Med*. 2023

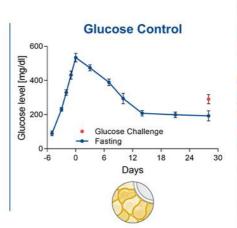


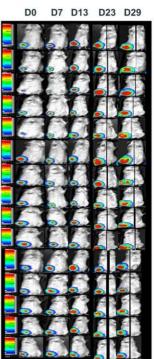
© 2020-2023 Sana Biotechnology. All rights reserved

HIP iPSC-derived pancreatic islet cells from patient with T1DM evade autoimmune killing and control glucose









Abbreviations: BLI, bioluminescence imaging Hu et al. Sci Transl Med. 2023.



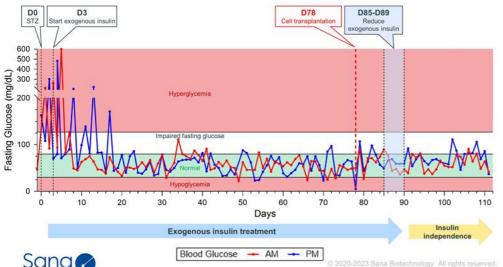
© 2020-2023 Sana Biotechnology. All rights reserved.

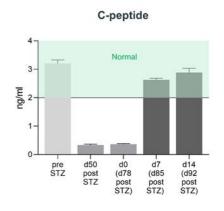
HIP-modified allogeneic islet cells lead to normal blood glucose with no insulin and no immunosuppression in diabetic NHP

- Study Design (N=1)

 NHP primary islet cells isolated and HIP-modified
- · Cells injected intramuscularly into a healthy, allogeneic NHP without immunosuppression

Fasting Glucose

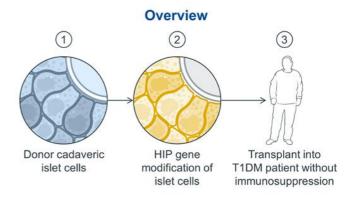




Sana

Path to potential clinical validation of hypoimmune islet cells in T1DM patients in 2023

- · Investigator sponsored trial
- Primary human HIP islet cells transplantation in type 1 diabetes patients
- Goal: Cell survival with no immunosuppression
- Goal: Data in 2023 and 2024
- Insight for SC451



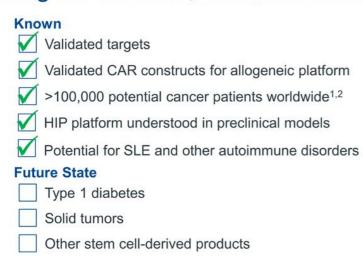
Key Measured Outcomes

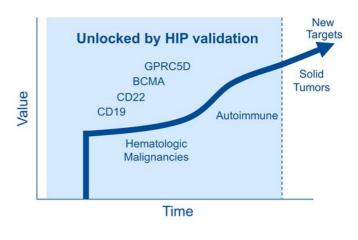
Cell survival & immune evasion C-peptide Glycemic control



© 2020-2023 Sana Biotechnology. All rights reserved.

Goal is to build a best-in-class portfolio to treat patients with a range of cancers, autoimmune diseases, and beyond





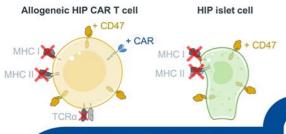
Unlocking the potential of our hypoimmune platform across multiple patient populations

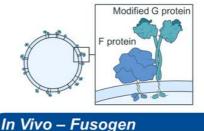
¹Avezbakiyev et al. *Blood*. 2022 ²Durie et al. *The Oncologist*. 2020



2020-2023 Sana Biotechnology. All rights reserved.

Sana aspiration: Engineered cells as medicines





• Cell-specific delivery of genomic modification

Engineered cells into new therapeutic areas

Ex Vivo – Hypoimmune

Allogeneic CAR T Franchise

Oncology: SC291, SC262, SC255

Autoimmune: SC291
 Stem Cell-Derived

• Type 1 Diabetes: SC451

· CNS: SC3791

2023

¹Does not incorporate hypoimmune genomic modifications



© 2020-2023 Sana Biotechnology. All rights reserved.

Thank You

Sana Biotechnology www.sana.com

