UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, DC 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): August 8, 2024

Century Therapeutics, Inc.

(Exact name of registrant as specified in its charter)

Delaware	**001-40498**	**84-2040295**
(State or other jurisdiction of incorporation or organization)	(Commission File Number)	(I.R.S. Employer Identification No.)

25 North 38th Street, 11th Floor	
Philadelphia, Pennsylvania	**19104**
(Address of principal executive offices)	(Zip Code)

Registrant's telephone number, including area code: **(267) 817-5790**

Not Applicable
(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 (see General Instruction A.2. below):

☐ 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))

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

Title of Each Class	**Trading Symbol**	**Name of Exchange on Which Registered**
Common Stock, par value $0.0001 per share	**IPSC**	**Nasdaq Global Select 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 ☒

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 2.02 **Results of Operations and Financial Condition**

On August 8, 2024, Century Therapeutics, Inc. (the "Company") issued a press release announcing its financial results for the quarter ended June 30, 2024. A copy of the press release is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The information contained in this Item 2.02 (including Exhibit 99.1) is being furnished and shall 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 liabilities of that section and shall not be deemed to be incorporated by reference in any filing under the Securities Act of 1933, as amended (the "Securities Act"), or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 7.01 **Regulation FD Disclosure**

On August 8, 2024, the Company updated information reflected in a slide presentation, which is attached as Exhibit 99.2 to this Current Report on Form 8-K and is incorporated herein by reference. Representatives of the Company will use the updated presentation in various meetings with investors from time to time.

The information contained in this Item 7.01 (including Exhibit 99.2) is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Exchange Act, or otherwise subject to the liabilities of that section and shall not be deemed incorporated by reference in any filing under the Securities Act or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 9.01 **Financial Statements and Exhibits**

(d) Exhibits

Exhibit No.	Document
99.1	Press Release of Century Therapeutics, Inc., dated August 8, 2024
99.2	Investor Presentation of Century Therapeutics, Inc., dated August 8, 2024
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 hereunto duly authorized.

CENTURY THERAPEUTICS, INC.

By: /s/ Brent Pfeiffenberger, Pharm.D.
Name: Brent Pfeiffenberger, Pharm.D.
Title: President and Chief Executive Officer

Date: August 8, 2024

Century Therapeutics Reports Second Quarter 2024 Financial Results and Provides Business Updates

– Initiation of Phase 1 CALiPSO-1 Trial of CNTY-101 in Systemic Lupus Erythematosus, marking strategic expansion into autoimmune disease; protocol amended to include additional cohort of Lupus Nephritis patients –

– Presented interim results from Phase 1 ELiPSE-1 trial of CNTY-101 demonstrating encouraging preliminary efficacy and tolerability data in heavily pretreated relapsed/refractory (R/R) CD19-positive B-cell lymphomas at ASCO –

– Completed dose escalation for ELiPSE-1 and advancing into dose expansion in 2H 2024 –

– Ended second quarter 2024 with cash, cash equivalents, and investments of $269.6 million; Cash runway expected into 2026 –

PHILADELPHIA, August 8, 2024 -- Century Therapeutics, Inc. (NASDAQ: IPSC), an innovative biotechnology company developing induced pluripotent stem cell (iPSC)-derived cell therapies in immuno-oncology and autoimmune disease, today reported financial results and business highlights for the second quarter ended June 30, 2024.

"Our strategic autoimmune expansion, as highlighted by the recent initiation of the CALiPSO-1 trial in Systemic Lupus Erythematosus and addition of a Lupus Nephritis-specific cohort, positions Century as a potential leader in allogeneic cell therapies for autoimmune diseases. 2024 remains a time of focused execution as we work to advance our next-generation allogeneic iPSC-derived cell therapy platform and pipeline, equipped with our proprietary Allo-Evasion™ technology, capturing a diversified opportunity to address a broad range of indications with high unmet need. I am proud of the significant progress we have achieved in such a short period of time, particularly underscored by the evolution of our platform and capabilities, which we anticipate will enable our iPSC candidates to have a more controlled, durable, and tolerable profile," said Brent Pfeiffenberger, Pharm.D., Chief Executive Officer of Century Therapeutics. "We remain focused on progressing CNTY-101 in both of our clinical-stage programs, including advancement into dose expansion in the ELiPSE-1 trial in patients with r/r B-cell lymphomas and acceleration of patient enrollment following the recent initiation of the CALiPSO-1 trial. We've made strides in our initial execution of autoimmune expansion as evidenced by our CALiPSO-1 trial updates, while simultaneously pursuing additional regulatory filings for CNTY-101 in other autoimmune disease indications in the second half of the year. We look forward to continued execution and the opportunity to deliver on our next set of potential catalysts, including the expectation of initial clinical data from CALiPSO-1 by year-end."

Research & Development Highlights

- Consistent with Century's autoimmune disease expansion efforts announced in April 2024, the Company recently initiated the Phase 1 CALiPSO-1 trial of CNTY-101 (NCT06255028) in Systemic Lupus Erythematosus (SLE). The first clinical trial site has been activated, with additional sites continuing to open across the United States. The Company expects initial clinical data from CALiPSO-1 by year-end 2024. Furthermore, Century recently amended the protocol to include a new indication-specific cohort of Lupus Nephritis (LN) patients. CALiPSO-1 is an open-label multi-center clinical trial to evaluate the safety, tolerability, pharmacokinetics, and clinical response of CNTY-101 in patients with moderate to severe SLE and LN who have failed at least two standard immunosuppressive therapies. The inclusion of LN patients highlights Century's execution in pursuing additional regulatory filings as a way of accelerating and broadening its research and development initiatives in autoimmune diseases. The Company intends to submit additional regulatory filings for CNTY-101 in autoimmune disease indications with limited current treatment options and high unmet need in the second half of 2024.

- In May 2024, Century presented two posters at the American Society of Gene and Cell Therapy (ASGCT) Annual Meeting showcasing the potential ability of its lead program, CNTY-101, a CD19 targeting allogeneic iNK cell therapy with 6 precision gene edits powered by Century's Allo-Evasion™ technology, to treat B-Cell driven autoimmune diseases including SLE, and new preclinical data demonstrating the potential utility of using a novel synthetic ligand targeting CD300a as a universal strategy for preventing natural killer (NK) cell mediated rejection in allogeneic cell therapies. The Company believes that these capabilities demonstrate the potential protection of allogeneic cell therapies with the possibility for improved outcomes, while delivering a broadly beneficial treatment option across a range of indications.

- In June 2024, the Company presented encouraging interim efficacy and safety data from the ongoing Phase 1 ELiPSE-1, multicenter, open-label clinical trial of CNTY-101 (NCT05336409) in heavily pre-treated patients with R/R CD19-positive B-cell lymphomas at the American Society of Clinical Oncology (ASCO) Annual Meeting. Evaluable preliminary safety (n=12) and efficacy (n=10) as of the data cutoff date of March 27, 2024, from the ongoing dose escalation portion of the trial, demonstrated a manageable tolerability profile with no observed dose limiting toxicities (DLT) or graft-versus-host disease (GvHD). After rapidly trafficking out of circulation, pharmacokinetics (PK), evaluated by a novel cell-free DNA method, showed that CNTY-101 persistence outside the bloodstream trended with increases in dose. Data also showed additional responses across escalating doses and different types of B-cell malignancies in heavily pretreated patients with predominantly aggressive or high-risk histologies.

- The Company recently completed dose escalation of schedule A (single dose per cycle) and schedule B (3 doses per cycle) in the ELiPSE-1 trial and is currently enrolling patients in the dose confirmation portion. Progression into dose expansion is expected in the second half of 2024.

Corporate Highlights

- In April 2024, the Company completed a private placement of common stock with gross proceeds of $60 million with new and existing investors. Also in April 2024, the Company closed the acquisition of Clade Therapeutics, bringing enhancement of its Allo-Evasion™ platform and adding three preclinical stage αβ iT programs spanning across cancer and autoimmune diseases to its pipeline.

Second Quarter 2024 Financial Results

- **Cash Position:** Cash, cash equivalents, and marketable securities were $269.6 million as of June 30, 2024, as compared to $261.8 million as of December 31, 2023. Net cash used in operations was $57.6 million for the six months ended June 30, 2024, compared to net cash used in operations of $48.5 million for the six months ended June 30, 2023.

- **Collaboration Revenue:** Collaboration revenue generated through the Company's collaboration, option, and license agreement with Bristol-Myers Squibb was $0.8 million for the three months ended June 30, 2024, compared to $0.1 million for the same period in 2023.

- **Research and Development (R&D) expenses**: R&D expenses were $27.2 million for the three months ended June 30, 2024, compared to $22.7 million for the same period in 2023. The increase in R&D expenses was primarily due to increased manufacturing activity for CNTY-101 and the acquisition of Clade Therapeutics.

- **General and Administrative (G&A) expenses**: G&A expenses were $8.3 million for the three months ended June 30, 2024, compared to $8.2 million for the same period in 2023.

- **Net loss**: Net loss was $31.2 million for the three months ended June 30, 2024, compared to $33.3 million for the three months ended June 30, 2023.

Financial Guidance

- The Company expects full year generally accepted accounting principles (GAAP) operating expenses to be between $150 million and $160 million.

- The Company estimates its cash, cash equivalents, and investments will support operations into 2026.

About Century Therapeutics

Century Therapeutics (NASDAQ: IPSC) is harnessing the power of adult stem cells to develop curative cell therapy products for cancer and autoimmune diseases that we believe will allow us to overcome the limitations of first-generation cell therapies. Our genetically engineered, iPSC-derived cell product candidates are designed to specifically target hematologic and solid tumor cancers, with a broadening application to autoimmune diseases. We are leveraging our expertise in cellular reprogramming, genetic engineering, and manufacturing to develop therapies with the potential to overcome many of the challenges inherent to cell therapy and provide a significant advantage over existing cell therapy technologies. We believe our commitment to developing off-the-shelf cell therapies will expand patient access and provide an unparalleled opportunity to advance the course of cancer and autoimmune disease care. For more information on Century Therapeutics please visit www.centurytx.com.

Century Therapeutics Forward-Looking Statement

This press release contains forward-looking statements within the meaning of, and made pursuant to the safe harbor provisions of, The Private Securities Litigation Reform Act of 1995. All statements contained in this press release, other than statements of historical facts or statements that relate to present facts or current conditions, including but not limited to, statements regarding our clinical development plans and timelines and the initial safety and efficacy profiles of CNTY-101 are forward-looking statements. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance, or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. In some cases, you can identify forward-looking statements by terms such as "may," "might," "will," "should," "expect," "plan," "aim," "seek," "anticipate," "could," "intend," "target," "project," "contemplate," "believe," "estimate," "predict," "forecast," "potential" or "continue" or the negative of these terms or other similar expressions. The forward-looking statements in this press release are only predictions. We have based these forward-looking statements largely on our current expectations and projections about future events and financial trends that we believe may affect our business, financial condition, and results of operations. These forward-looking statements speak only as of the date of this press release and are subject to a number of risks, uncertainties and assumptions, some of which cannot be predicted or quantified and some of which are beyond our control, including, among others: our ability to successfully advance our current and future product candidates through development activities, preclinical studies, and clinical trials; our dependence on the success of our lead product candidate, CNTY-101; the ability of CNTY-101 to be administered as part of a multi-dose strategy and to enable responses without lymphodepletion; uncertainties inherent in the results of preliminary data, pre-clinical studies and earlier-stage clinical trials, which may not be predictive of final results or the results of later-stage clinical trials; the timing of and our ability to successfully enroll the Phase 1 SLE and LN trial; the timing of and our ability to enter dose expansion of the Phase 1 R/R CD19-positive B-cell lymphomas trial; our ability to obtain FDA clearance of our future IND submissions and commence and complete clinical trials on expected timelines, or at all; our reliance on the maintenance of certain key collaborative relationships for the manufacturing and development of our product candidates; the timing, scope and likelihood of regulatory filings and approvals, including final regulatory approval of our product candidates; the impact of geopolitical issues, banking instability and inflation on our business and operations, supply chain and labor force; 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 and manufacturers; our ability to successfully commercialize our product candidates and develop sales and marketing capabilities, if our product candidates are approved; our ability to recruit and maintain key members of management and our ability to maintain and successfully enforce adequate intellectual property protection. These and other risks and uncertainties are described more fully in the "Risk Factors" section of our most recent filings with the Securities and Exchange Commission and available at www.sec.gov. You should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in our forward-looking statements may not be achieved or occur, and actual results could differ materially from those projected in the forward-looking statements. Moreover, we operate in a dynamic industry and economy. New risk factors and uncertainties may emerge from time to time, and it is not possible for management to predict all risk factors and uncertainties that we may face. Except as required by applicable law, we do not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events, changed circumstances or otherwise.

For More Information:

Investor Relations & Media Contacts

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917-969-3438

Argot Partners
Julie Seidel/Noor Pahlavi
century@argotpartners.com
212-600-1902

Century Therapeutics, Inc.
Condensed Balance Sheets
(unaudited, in thousands)

	June 30, 2024	December 31, 2023
Assets		
Current Assets:		
Cash and cash equivalents	$ 41,457	$ 47,324
Short-term investments	154,945	125,414
Prepaid expenses and other current assets	7,076	4,256
Total current assets	203,478	176,994
Property and equipment, net	69,405	71,705
Operating lease right-of-use assets, net	28,570	20,376
Long-term investments	73,226	89,096
Goodwill	5,091	-
Intangible assets	33,300	-
Other long-term assets	3,376	2,520
Total assets	$ 416,446	$ 360,691
Liabilities, convertible preferred stock, and stockholders' equity		
Current liabilities:		
Accounts payable	$ 3,358	$ 2,741
Accrued expenses and other liabilities	11,445	10,733
Long-term debt, current	-	-
Deferred revenue, current	4,360	4,372
Total current liabilities	19,163	17,846
Operating lease liability, noncurrent	52,713	46,658
Other long-term liabilities	3,386	56
Deferred revenue	109,768	111,381
Contingent consideration liability	9,312	-
Total liabilities	194,342	175,941
Stockholders' equity		
Common stock	8	6
Additional paid-in capital	937,445	840,407
Accumulated deficit	(715,040)	(655,771)
Accumulated other comprehensive loss	(309)	108
Total stockholders' equity	222,104	184,750
Total liabilities and stockholders' equity	$ 416,446	$ 360,691

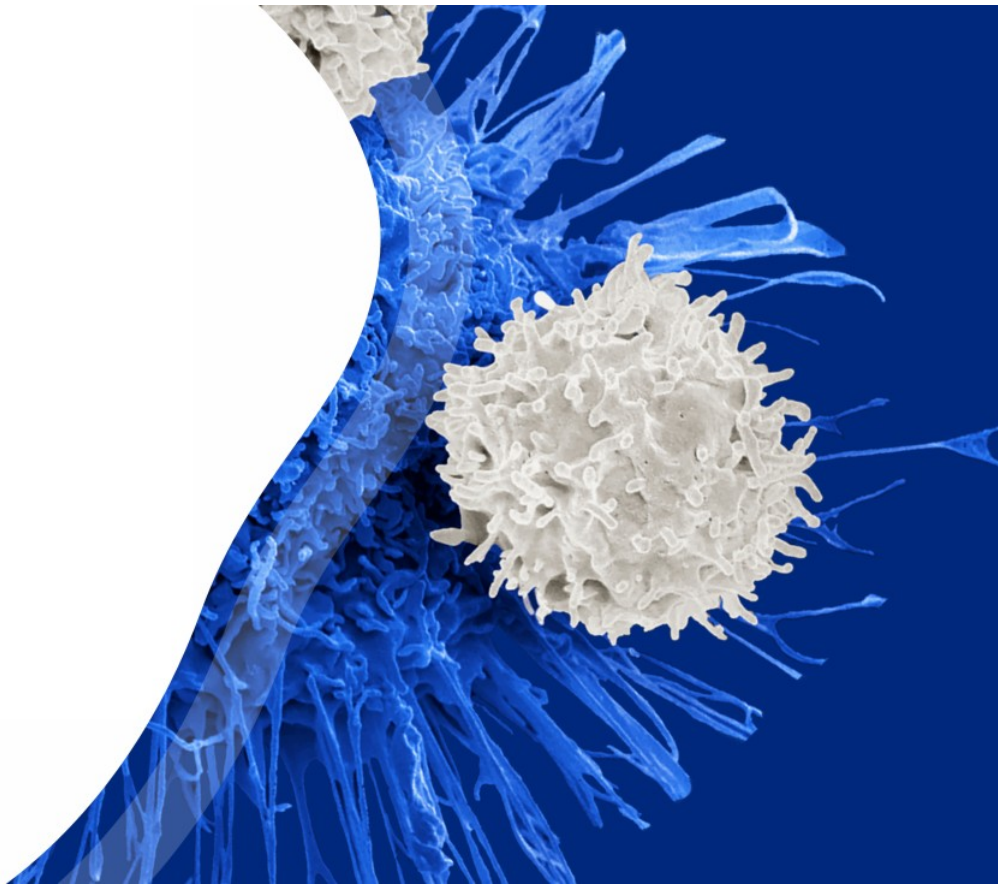
Century Therapeutics, Inc.
Condensed consolidated statements of operations
(unaudited, in thousands, except share and per share amounts)

	Three Months Ended June 30, 2024	Three Months Ended June 30, 2023	Six Months Ended June 30, 2024	Six Months Ended June 30, 2023
Collaboration Revenue	$ 771	$ 99	$ 1,625	$ 1,819
Operating Expenses				
Research and development	27,220	22,727	50,641	47,626
General and administrative	8,306	8,229	17,052	17,131
Impairment on long-lived assets	-	4,220	-	4,220
Total operating expenses	35,526	35,176	67,693	68,977
Loss from operations	(34,755)	(35,077)	(66,068)	(67,158)
Interest expense	-	(136)	-	(540)
Interest income	3,582	3,058	6,820	5,681
Other income, net	(12)	(186)	1	(380)
Loss before provision for income taxes	(31,185)	(32,341)	(59,247)	(62,397)
Provision for income taxes	(22)	(950)	(22)	(2,158)
Net Loss	$ (31,207)	$ (33,291)	$ (59,269)	$ (64,555)
Unrealized (loss) gain on investments	(102)	59	(453)	1,255
Foreign currency translation adjustment gain (loss)	35	9	36	-
Comprehensive loss	$ (31,274)	$ (33,223)	$ (59,686)	$ (63,300)
Net loss per common share - Basic and Diluted	(0.38)	(0.56)	0.82	(1.10)
Weighted average common shares outstanding	82,092,167	59,251,363	72,194,402	58,904,726

CENTURY THERAPEUTICS

Corporate Overview

August 2024



Forward-looking statements

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Century Therapeutics: Building an industry-leading, next-generation allogeneic iPSC-derived cell therapy platform

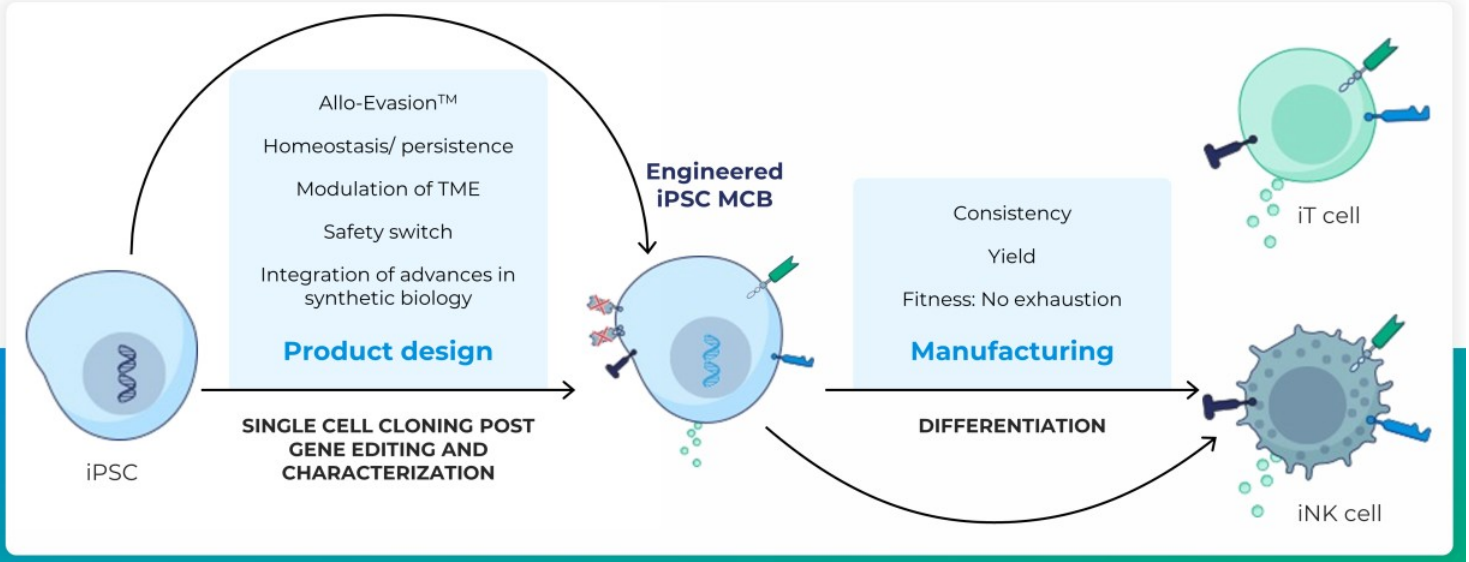

CENTURY
THERAPEUTICS
Overview of Foundational
Platform Technologies

Century's singular focus:
To deliver best-in-class iPSC-derived cell therapies

Century platform enables the incorporation of critical features we believe can only be realized via iPSC-derived cell therapies

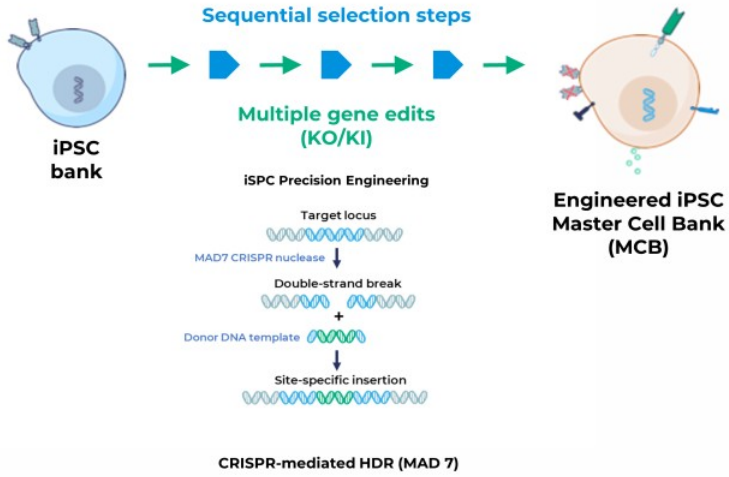
Infinite replicative capacity at the iPSC stage enables potentially ***unlimited genomic editing*** via CRISPR HDR	Single cell cloning of engineered iPSC allows selection of a ***fully characterized clone*** for a master cell bank, ensuring safety and functional reproducibility of the final drug product	Platform capable of fully ***leveraging multiple advances in synthetic biology into a single product***
Cell expansion during multiple stages of differentiation yields large cell harvests, ***decreasing risk of cell exhaustion, reducing COGs and providing robust drug inventory*** *that is potentially* ***infinitely replenishable***	Production from a master cell bank – derived from a single donor – enables ***larger batch sizes*** and ***lower cost of goods than donor-derived or autologous***	Differentiation conditions developed for ***generating multiple immune effector cells***, including NK cells, CD4+ T cells (Th and Treg), CD8+ T cells, monocytes / macrophages

Century's next-generation allogeneic iPSC technology platform:
Versatility and unprecedented control



Rapid Integration of major advances in product functionality and manufacturability

Precision CRISPR MAD7 mediated sequential gene editing of iPSC cells generates uniform product candidates



Advantages of Century's Platform

Precise CRISPR mediated homology directed repair **reduces off-target integration**

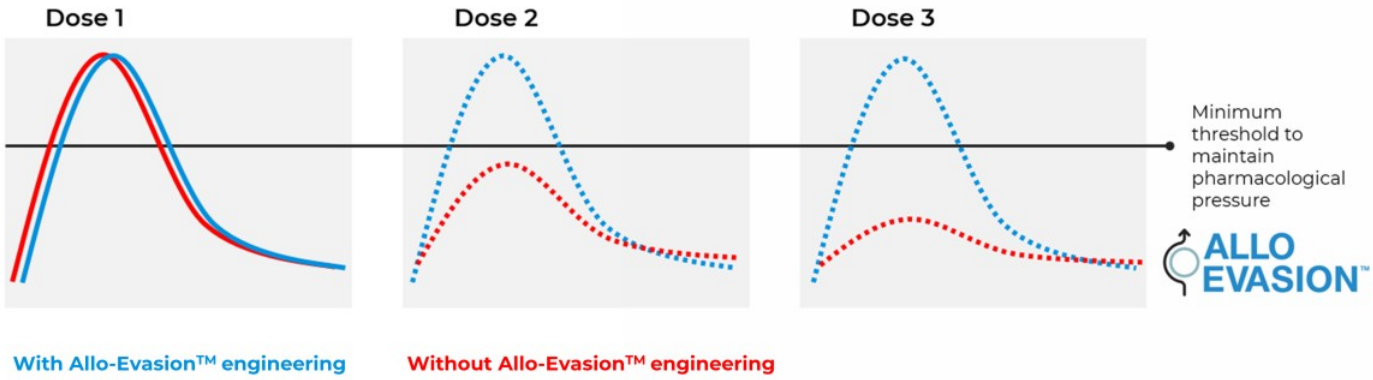
Stepwise and efficient gene editing **avoids risky multiplex modification** and structural variants

Quality control through generation of homogenous MCB establishes genomic **product integrity**

Manufacturing begins at the MCB, confirmed to be **free from genetic aberrations**

Potential to drive durable responses with engineering to resist immune rejection

Allo-Evasion™ edits + repeat dosing = potential greater durability



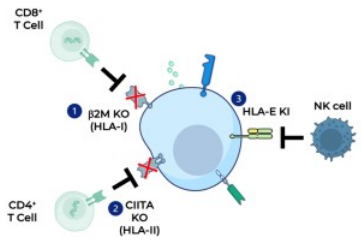
Next-wave of allogeneic cell therapies must solve for challenge of rejection

Advancing our leadership in Allo-Evasion™ technology

Continuous improvement in holistic immune protection designed to overcome major pathways of host vs. graft rejection

Allo-Evasion™ 1.0

Core edits disarm host cells from eliminating therapy



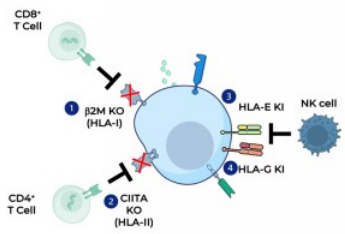
Deletion of β2M, a protein required to express HLA-1 on the cell surface prevents recognition by CD8 T cells

Knock out of CIITA eliminates HLA-II expression to escape elimination by CD4 T cells

Knock-in of HLA-E prevents killing by NK cells

ALLO EVASION™

Allo-Evasion™ 3.0

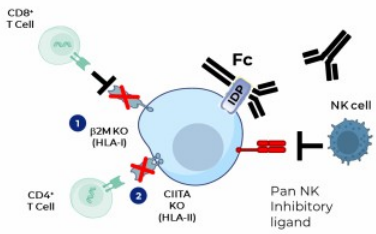


Allo-Evasion™ 1.0 edits plus the incorporation of:

Knock-in of HLA-G improves protection against killing by NK cells

ALLO EVASION™

Allo-Evasion™ 5.0



Deletion of β2M, a protein required to express HLA-1 on the cell surface prevents recognition by CD8 T cells

Knock out of CIITA eliminates HLA-II expression to escape elimination by CD4 T cells

Pan-NK inhibitory ligand to provide broader protection against killing by NK cells

IgG degrading protease designed to protect against humoral immunity

ALLO EVASION™

CENTURY THERAPEUTICS

Foundational investments in iPSC manufacturing

Established in-house manufacturing

- Century 53,000 ft^2 GMP facility
- Designed to produce multiple immune cell types
- Accelerates learnings and enables faster product iteration
- Two sites (FCDI GMP manufacturing, Century in-house manufacturing) provide optionality and maximizes flexibility

Developing fit-for-purpose products

- Increased process and product consistency
- Scalable platforms and optimized processes to maximize yield, reduce COGs, and meet demand
- Increased cell fitness, as cells do not undergo excessive expansion cycles which often result in cell exhaustion
- Homogeneity of the manufacturing process produces a product candidate that can be readily characterized

CENTURY THERAPEUTICS

Pipeline

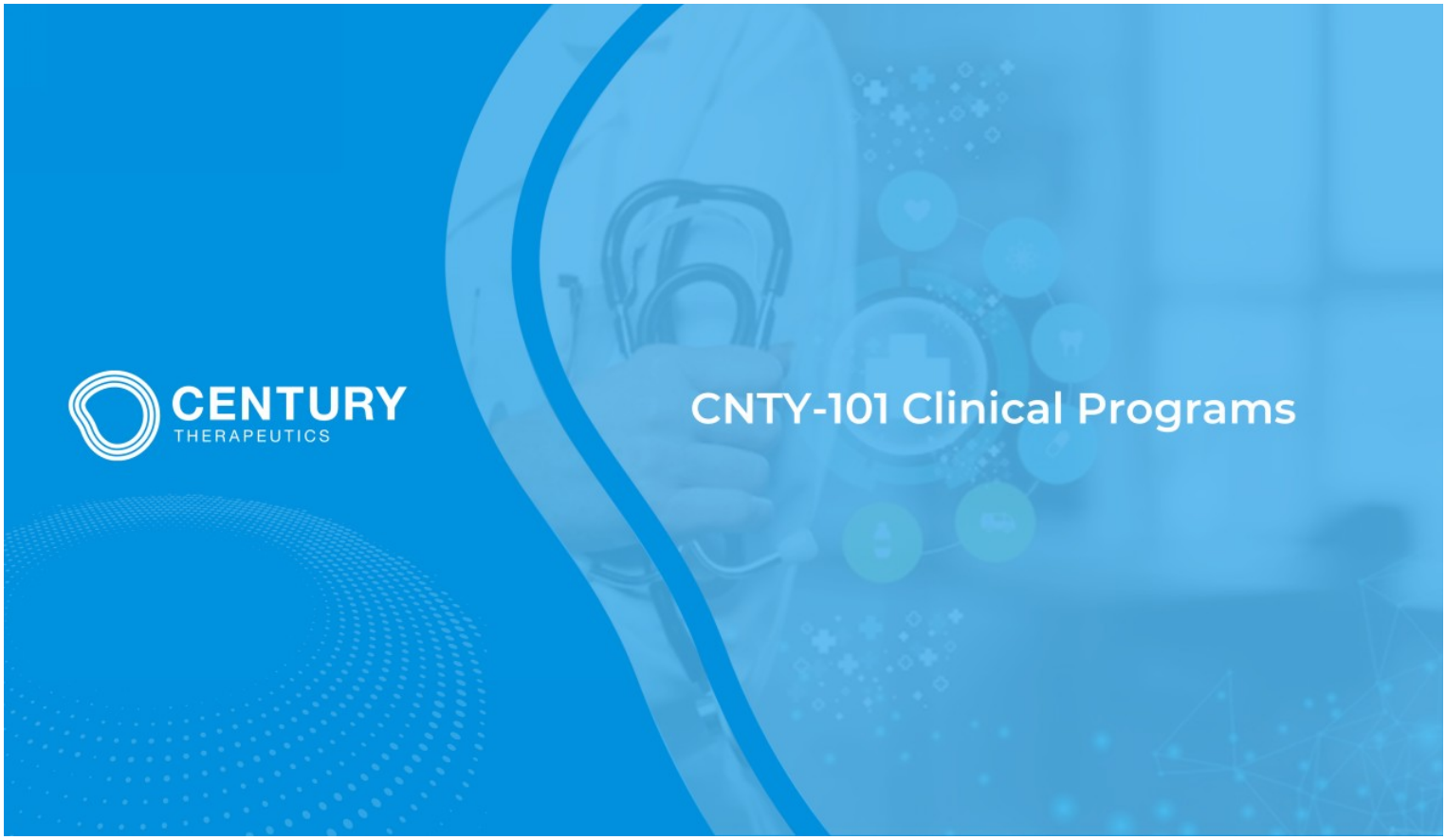
Newly expanded and diversified pipeline

Product candidates spanning cell types and targets in cancer and autoimmune diseases

Product	iPSC Platform	Targets	Indications	Research	IND-Enabling	Clinical P1	Clinical P2	Clinical P3	Collaborator
Autoimmune Diseases									
CNTY-101	iNK	CD19	B cell-mediated Autoimmune Diseases	CALiPSO-1					
			Autoimmune Diseases						
CNTY-108	iNK/γδ iT	CD19	Autoimmune Diseases						
CLDE-308	αβ iT	CD19	Autoimmune Diseases						
CLDE-361	αβ iT	BCMA	Myasthenia Gravis						
Hematologic and Solid Tumors									
CNTY-101	iNK	CD19	B-Cell Malignancies	ELiPSE-1					
CNTY-102	γδ iT	CD19 + CD22	B-Cell Malignancies						
CLDE-308	αβ iT	CD19	B-Cell Malignancies						
CNTY-104	iNK/iT	Multi-specific	AML						Bristol Myers Squibb
CNTY-106	iNK/iT	Multi-specific	MM						Bristol Myers Squibb
CNTY-107	γδ iT	Nectin-4	Solid Tumors						
Research	iT	Not disclosed	Solid Tumors						
Research	iNK/iT	TBD	Hematologic and Solid Tumors						

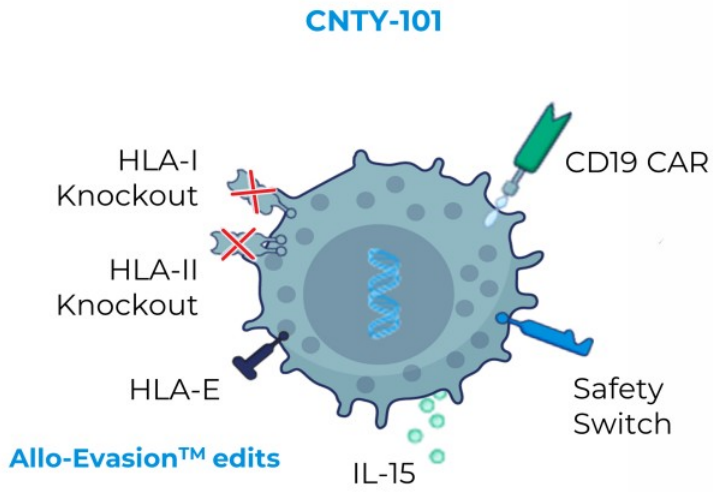
Autoimmune Diseases Hematologic Tumors Solid Tumors

CENTURY THERAPEUTICS


CENTURY
THERAPEUTICS
CNTY-101 Clinical Programs

CNTY-101: Differentiated next-gen CD19 targeted product

Only cell therapy with six precision gene edits currently in the clinic



Delivering on our vision to change the cell therapy treatment paradigm

- Goal to improve durability, tolerability and ease of outpatient administration
- Potential to eliminate need for lymphodepletion with subsequent cycles of therapy
- First CD19-targeted agent to test durability benefit of repeat dosing enabled by Allo-Evasion™ edits

CNTY-101 in relapsed/refractory B-cell lymphomas

Aim: To deliver durable responses via repeat dosing facilitated by Allo-Evasion™ and extending the period of pharmacologic pressure on tumor cells

Unmet need:	Potential solution from Century's platform:
• Autologous CD19 CAR-T is curative in ~40%[1] of patients • Autologous CD19 CAR-T access is limited and/or can fail in manufacturing as quality is dependent on patient-derived starting material • Limited options and poor prognosis for patients who fail autologous CAR-T	• Off-the-shelf product offers immediate access and consistency • Multiple doses to increase pharmacological pressure to increase durability • Host rejection addressed by Allo-Evasion™ edits

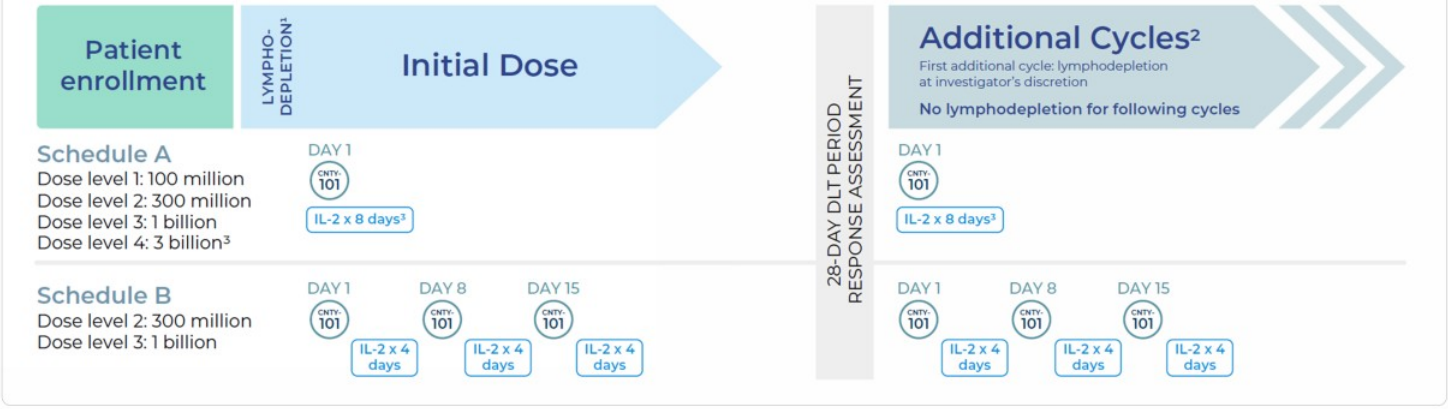
R/R: Relapsed or Refractory, NHL: Non-Hodgkin Lymphoma, CAR-T: Chimeric Antigen Receptor T cell therapy
[1]Cappell, Nature Reviews Clinical Oncology (2023)

CNTY-101: ELiPSE-1 (NCT05336409) Phase 1 BOIN design

Patients with CD19+ aggressive and high-risk indolent R/R B-NHL

- DLBCL, HGBL, MCL, PMBCL, FL3B, FL, MZL
- ≥2 prior lines of therapy
- Prior CD19-targeted cell therapy allowed

- Part 1 – Dose escalation
  - Schedule A: single dose
  - Schedule B: 1 dose per week x 3 weeks
- Part 2 – Dose expansion



¹Standard lymphodepletion regimen: fludarabine (30 mg/m/d) and cyclophosphamide IV (300 mg/m/d) for 3 days
²Subjects who are assessed as stable disease or better may receive additional cycles of CNTY-101
³Subjects at DL4A did not receive IL-2 on the day of CNTY-101 infusion but did receive daily for 7 days

BOIN: Bayesian Optimal Interval,
DLT: Dose Limiting Toxicity;
IL-2: Interleukin-2 (dose: 3e6 IU; subcutaneous)

ELiPSE-1 enrolled heavily pre-treated R/R B-NHL patients across 7 sites

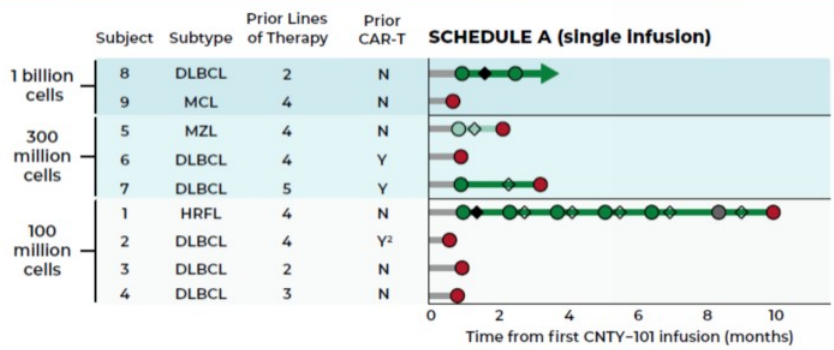
Baseline characteristics	N=12 safety evaluable[1]
Median age (range, years)	70 (60-76)
Male, n (%)	9 (75)
NHL subtype, n (%)	
• DLBCL	7 (58)
• HRFL	1 (8)
• MCL	2 (17)
• MZL	2 (17)
Prior therapies, median (range)	4 (2-5)
Response to last line of treatment, n (%)	
• Relapsed	3 (25)
• Refractory	9 (75)
Received prior autologous* CAR-T, n (%)	3 (25)
• If no, why	
– Manufacturing fail	1
– Not eligible	3
– Not willing to wait	4[2]
– Financial or reimbursement constraints	1

*4 subjects received prior CAR T (3 autologous and 1 allogeneic)

[1] As of 27 March 2024 data cutoff, data collection ongoing
[2] One subject received allogeneic CAR-T
HRFL: High-risk follicular lymphoma; DLBCL: Diffuse large B cell lymphoma; MZL: Marginal zone lymphoma; MCL: Mantle cell lymphoma

CNTY-101 preliminary clinical data

Favorable safety profile and encouraging efficacy across initial dose levels studied



CR PR SD PD NE Dose (with LDC) Dose (no LDC)

HRFL: High-risk follicular lymphoma
DLBCL: Diffuse large B cell lymphoma
MZL: Marginal zone lymphoma
MCL: Mantle cell lymphoma

Efficacy (n=10)

- 30% CRR and 40% ORR across all dose levels and histologies
- 40% CRR and 60% ORR at highest studied dose levels in Schedule A

Safety & Tolerability (n=12)

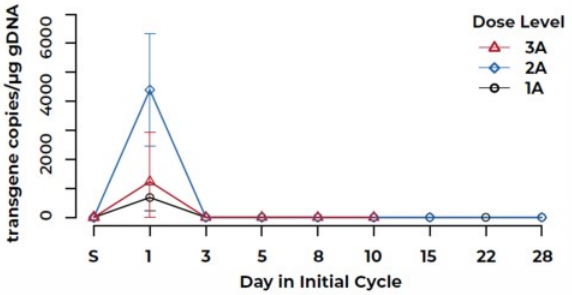
- No treatment discontinuations due to AES; no GvHD
- CRS: Grade 1 (N=2), Grade 2 (N=2)
  - Hypotension (n=1) and hypoxia (n=1) lasted <24hrs
- ICANS: Grade 1 (N=1), resolved in <24hrs

[1]As of 27 March 2024 data cutoff date, data collection ongoing, efficacy based on Lugano criteria
[2]Subject received prior allogeneic CAR-T
CRR: Complete Response Rate, LDC: Lymphodepleting Chemotherapy, ORR: Overall Response Rate

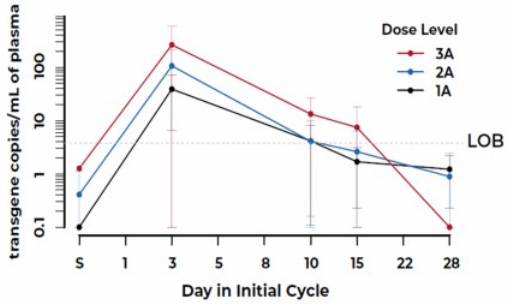
CNTY-101 emerging pharmacokinetic profile

- **Transient detection of CNTY-101 in circulation**
- CNTY-101 persistence is detected via a novel cell-free (cf) DNA assay on Day 3 and beyond
- CNTY-101 cfDNA AUC trending to increase with dose
- 3/4 pts who received an additional CNTY-101 cycle without LD had CNTY-101 cfDNA detected at Day 3+

PBMC genomic DNA



Plasma cell-free DNA[1]



Data is shown as mean ± SD for the initial cycle across subjects at each dose level in Schedule A as of May 1st, 2024 data cutoff date.

cfDNA: Cell-free DNA, LD: Lymphodepletion
Ramachandran, et al. 2023 ASH Annual Conference

[1]Cell-free DNA has short half-life in circulation, ranging from minutes to hours (Khier and Lohan, Future Science 2018)

ASH 2023 case study: Dose level 1 patient with 6-month durable complete response

Multiple Doses of CNTY-101, an iPSC-Derived Allogeneic CD19 Targeting CAR-NK Product, are Safe and Result in Tumor Microenvironment Changes Associated with Response: A Case Study

Indu Ramachandran[1], Sarah Rothman[1], Mariano Clausi[1], Kile McFadden[1], Brenda Salantes[1], Gloria Jih[1], Thomas Brigman[1], Sam Kelly[1], Matthew S. Hall[1], Stephanie Yee[1], Iphigenia Koumenis[1], Poulomee Das[1], Jordan Briggs[2], Tori Braun[2], Ying Yuan[3], Elizabeth Devlin[1], Adrienne Farid[1], Nikolaus Trede[1], Tamara K. Moyo[5], Tahir Latif[4], Krish Patel[2]

[1]Century Therapeutics, Philadelphia, PA [2]Swedish Cancer Institute, Seattle, WA [3]MD Anderson Cancer Center, Houston, TX [4]Atrium Health Levine Cancer Institute, Charlotte, NC [5]University of Cincinnati Medical Center, Cincinnati, OH

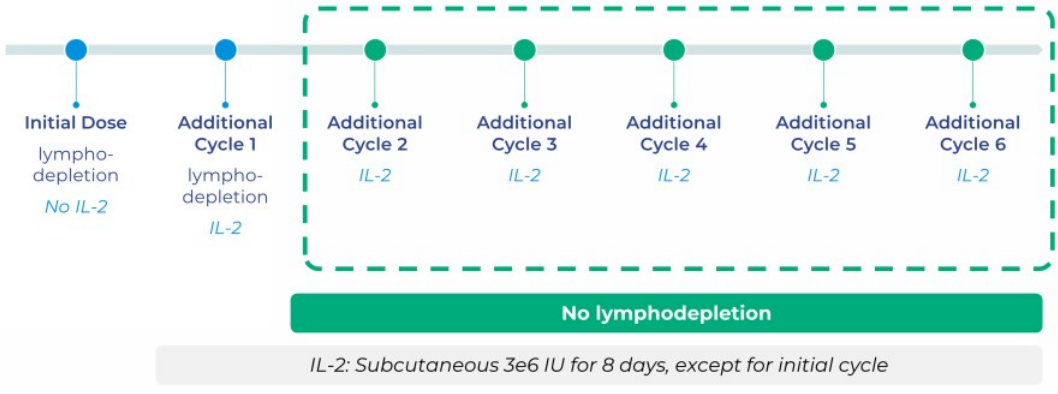
Sex/Age: Female/63

Tumor Subtype: Follicular Lymphoma

Dose/Schedule: 100e6 cells x 1 per cycle (Dose Level 1; Schedule A)

Prior Therapy:

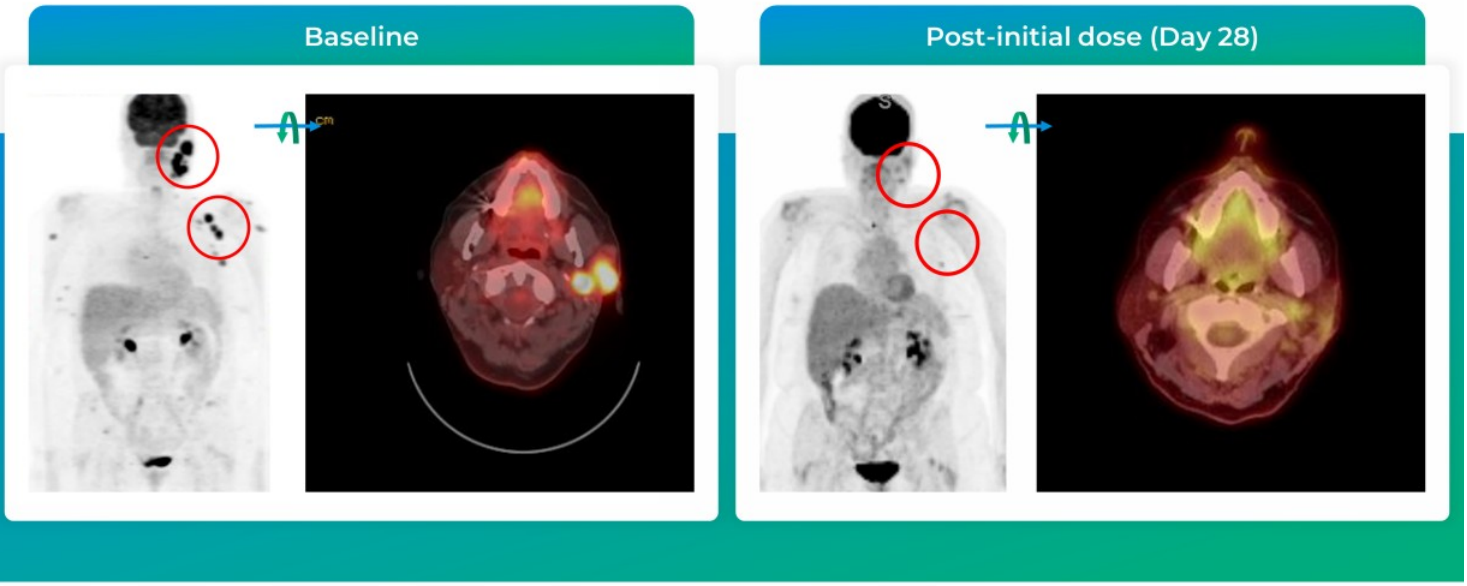
- 4 prior lines of therapy including anti-CD20, bispecific, and investigational therapy
- High-risk R/R - Relapsed within 12 months of starting R-CHOP



IL-2: Subcutaneous 3e6 IU for 8 days, except for initial cycle

**Data cutoff date of November 13, 2023; represents data verified post data cut*
^Patient subsequently progressed
Ramachandran, et al. 2023 ASH Annual Conference

ASH 2023 case study: Early evidence of anti-lymphoma activity with durable 6-month complete response^



^Patient subsequently progressed
Ramachandran, et al. 2023 ASH Annual Conference

Allo-Evasion™ enables repeat dosing without the need for continued lymphodepletion

Initial clinical evidence indicates no sign of allo-rejection for CNTY-101 (ASH case study)

Allo-Evasion™ edits + repeat dosing without the need for LD

Allo-Evasion™ provides potential to more tightly control drug exposure to enable sustained pressure on the target

ELiPSE-1 Clinical Data

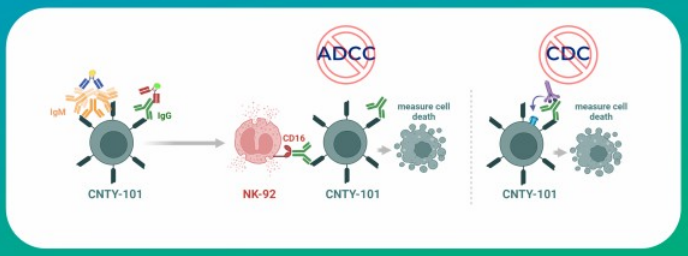
CNTY-101 cells persist in tissues for at least 3 days as measured by cfDNA; observed with and without LD

	Initial Cycle	AC1	No LD AC2	AC3	AC4	AC5	AC6
DAY 3	not collected	30 [+]	16 [+]	24 [+]	21 [+]	30 [+]	19 [+]
DAY 10	not collected	3 [+]	6 [+]	3 [+]	0 [–]	not collected	not collected
DAY 15	not collected	2 [–]	not collected	2 [–]	1 [–]	not collected	2 [–]
DAY 28	6 [+]	2 [–]	6 [+]	2 [–]	2 [–]	1 [–]	3 [+]

p value: < 1e−10, 1e−8, 1e−6, 1e−4, 1e−2, 1 — positive [+] / negative [–]

Clinical patient case from Ph1 ELiPSE-1 trial.
Detectable signal [+] was determined to be significantly above negative controls using two sample Poisson test, p < 0.05; transgene copies detected in 1 mL of plasma is indicated

Anti-drug antibodies and functional humoral immune response against CNTY-101 are not detected (seven cycles evaluated)



ADCC: Antibody-dependent cellular cytotoxicity
CDC: Complement dependent cytotoxicity

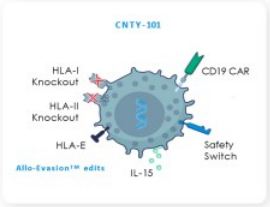
ELiPSE-1 initial data: Key takeaways

- Heavily pretreated and refractory patient population treated in first-in-human dose escalation trial
- Favorable safety profile; can be delivered in an outpatient setting
- Encouraging early efficacy signals at initial 3 dose levels in Schedule A
- Novel cfDNA assay enables monitoring of CNTY-101 persistence in extravascular space; AUC increase trending with dose
- Initial data for CNTY-101 supports the potential for Allo-Evasion™ to enable a multi-dosing regimen without the need for continued lymphodepletion

CNTY-101's manageable initial safety profile, initial response data, and PK/PD supports advancing to higher doses to potentially deepen and prolong clinical response

CR: Complete Response

Key differentiators of CNTY-101 in autoimmune disease treatment



CNTY-101: CD-19 targeted iNK cell therapy with 6 precision gene edits including Allo-Evasion™ technology

- Ph1 CALiPSO-1 trial in B cell-mediated autoimmune diseases (Systemic Lupus Erythematosus and Lupus Nephritis) initiated in early 3Q24
- Currently being studied in Ph1 ELiPSE-1 trial in R/R NHL

Key differentiators in AID: (1) Allogeneic (2) NK cells (3) Allo-Evasion™

Allogeneic

- Available "off-the-shelf"
- No patient apheresis required
- No manufacturing wait time
- Platform enables lower COGs than donor-derived or autologous

NK cells

- Killing potency ≥ primary CAR-T
- Trafficking to secondary lymphoid tissues and marrow favors pathogenic B-cell targeting
- Limited *in vivo* expansion

Allo-Evasion™

- Avoiding host immune rejection
- Ability to repeat dose without continued lymphodepletion
- Ability to retreat, if needed

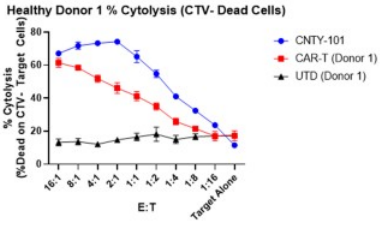
Tighter control over drug exposure:
B-cell depletion without prolonged B-cell aplasia

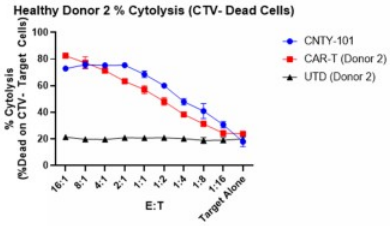
CNTY-101: Potential to drive B-cell depletion with tighter control over drug exposure

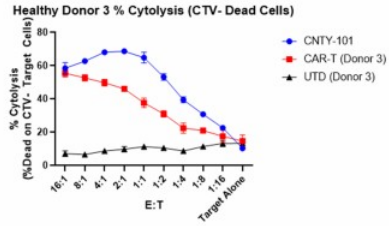
More potent than primary CAR-T at B-cell killing in preclinical comparison

CNTY-101 more potent than primary CAR-T cells at B-cell killing at 24 hours in preclinical comparison

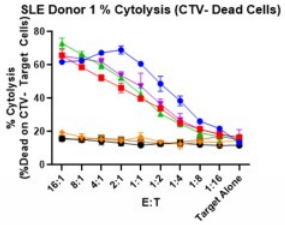
CNTY-101 & Autologous CAR-T on B Cells Isolated from Healthy Donors

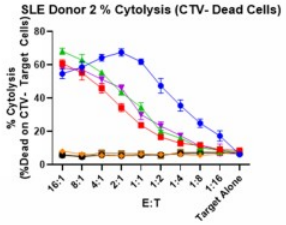


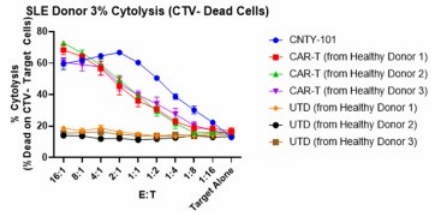




CNTY-101 & CAR-Ts from Healthy Donors on B Cells Isolated from SLE Patients







Isolated B cells or CD19+ target cells were co-cultured with CNTY-101 or primary CAR-T at several E:Ts in 96-well U bottom plates in NKCM with assay harvested at 24h. Assay plates were harvested and stained for Fixable Live/Dead. Cells were fixed and run on cytometer to determine Target+Dead Cell populations.

Opportunity in systemic lupus erythematosus and lupus nephritis to improve long-term disease control

Estimated global prevalence of 3.4 million patients[1]

- Abnormal B cell function and autoantibody production are central to disease pathogenesis
- Major causes of morbidity and mortality involve multiple systems
  - Renal, CNS and cardiovascular involvement are major causes of morbidity and mortality

Despite approved treatments, significant unmet need remains

- Chronic treatment with broad-acting anti-inflammatory and immunosuppressives
- Current treatments fail to significantly impact morbidity in the moderate to severe population
- Treatment toxicity and disease flares remain common

Autologous anti-CD19 CAR T cell therapies have established a promising efficacy proof of concept in SLE/LN

- Challenges remain due to potential exposure to CRS and ICANS, product availability, and long-term risks including B-cell aplasia

1. Tian J, et al. Ann Rheum Dis 2023;82:351–356 http://dx.doi.org/10.1136/ard-2022-223035
2. Mackensen A, et al.. Nature Medicine 2022 28:10 (2124-2132) https://doi.org/10.1038/s41591-022-02017-5
3. Muller, F et al NEJM 2024 390:687 https://www.nejm.org/doi/full/10.1056/NEJMoa2308917

CNS: Central Nervous System
SLE: systemic lupus erythematosus
LN: lupus nephritis

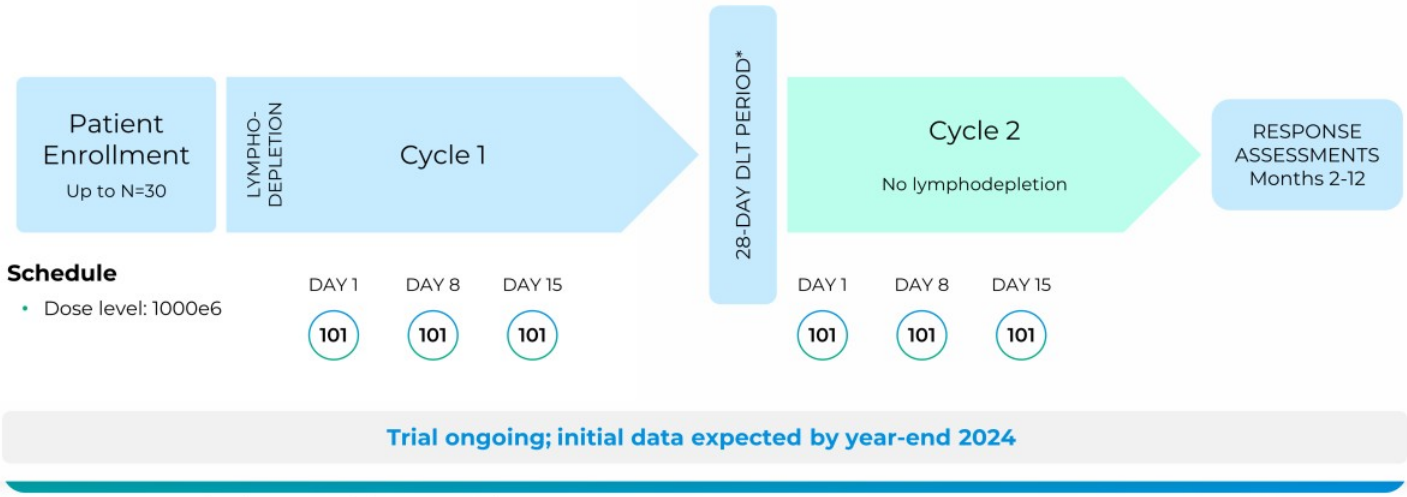
CNTY-101: CALiPSO-1 (NCT06255028) B cell-mediated autoimmune diseases Phase 1 study

Inclusion:

- Patients with moderate to severe SLE and LN after 2+ standard immunosuppressive therapies

Endpoints:

- Key endpoints: Safety, Lupus activity per clinical and laboratory assessments
- Translational Endpoints: B-cell depletion, auto-antibody decline



Trial ongoing; initial data expected by year-end 2024

**Response assessment conducted at one month; does not gate Cycle 2*
DLT: Dose limiting toxicity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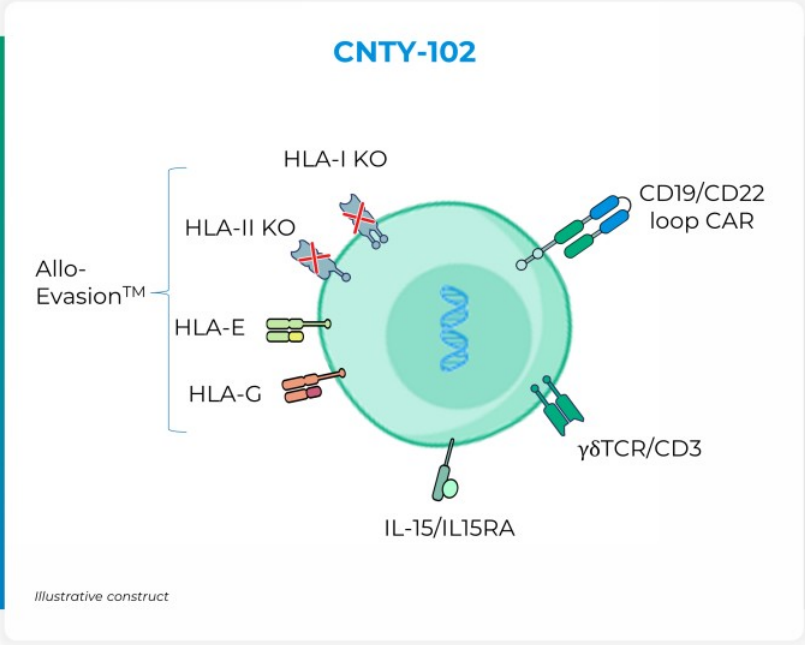
Discovery Programs

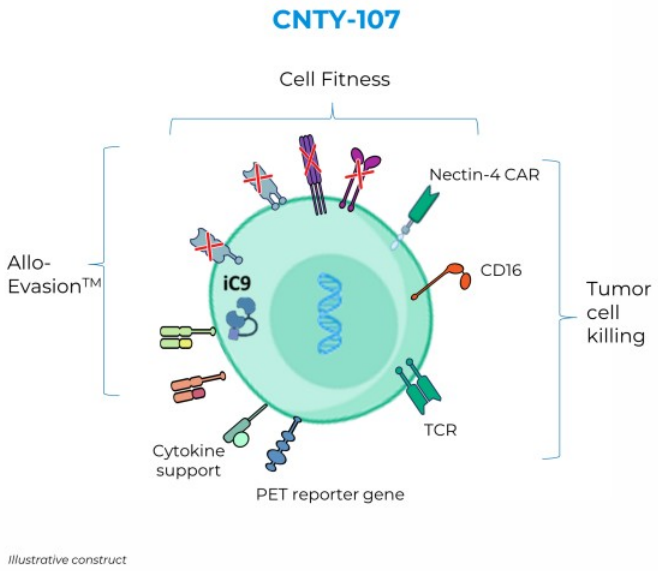
CNTY-102: Leveraging the next generation γδ iT cell platform designed to deliver best-in-class potential



Designed to address factors that limit durability of cell therapy in B-cell malignancies

- γδiT cells have distinct properties that provide optionality in the face of different biological challenges
- Dual targeting designed to counter antigen escape relapse - a major limiting factor for durability of CD19 CAR T therapies
- Armed with Allo-Evasion™ edits to enable repeat dosing to potentially deliver durable responses

CNTY-107: First in class Nectin-4 targeted γδ iT cell therapy



Illustrative construct

Leveraging the power of the γδ iT cell platform for solid tumors

Nectin-4 has been validated by ADC approaches

- Opportunity to address multiple Nectin-4 positive solid tumors
  - Potential indications include bladder, breast, pancreatic, non-small cell lung cancer, esophageal/gastric, head and neck, and/or ovarian cancers[1]

γδ iT allogeneic therapies provide potential to improve upon ADC toxicity profile and efficacy

- Intrinsic homing of γδ iT cells to tissues and solid malignancies
- Multi-tumor killing modalities to tackle heterogeneity

1. Cancer Res . 2016 May 15;76(10):3003-13

CENTURY
THERAPEUTICS

Corporate Position & Upcoming Milestones

Advancing next-generation iPSC-derived allogeneic NK and T cell therapy candidates for the treatment of cancer and autoimmunity

Differentiated pipeline based on Allo-Evasion™ technology

- ✓ *Potential to overcome limitations of conventional allogeneic cell therapy*

Encouraging preliminary clinical data from Phase 1 trial of CNTY-101 in R/R B-cell lymphomas

- ✓ *Well-tolerated with early evidence of anti-lymphoma activity, and supports the ability to re-dose without lymphodepletion*
- ✓ *Additional data from EliPSE-1 announced, completed dose escalation*

Expansion into additional autoimmune indications

- ✓ CALiPSO-1 trial initiated; amended to include additional cohort of LN patients
- ✓ *CNTY-101 has differentiated profile in AID (allogeneic, iNK with Allo-Evasion™)*
- ✓ *Clade Therapeutics acquisition further expands and enhances autoimmune opportunities and platform technology*

In-house manufacturing capabilities

- ✓ *Ability to accelerate learnings and enable faster product iteration*

MULTIPLE NEAR-TERM CATALYSTS

Phase 1 ELiPSE-1 trial of CNTY-101 in B-cell malignancie

- Progressing into dose expansion in 2H 2024

Phase 1 CALiPSO-1 trial of CNTY-101 in B-cell mediated autoimmune diseases

- Initial clinical data expected by YE 2024

Pursuing additional autoimmune regulatory filings fo CNTY-101 in 2H 2024

CASH RESOURCES

Cash runway into 2026

Ended 2Q24 with cash, cash equivalents, and investment of $269.6M

Century Therapeutics: Building an industry-leading, next-generation allogeneic iPSC-derived cell therapy platform