Corporate Presentation

November 2025

Forward-Looking Statements

This presentation contains “forward-looking” statements within the meaning of applicable securities laws, including the Private Securities Litigation Reform Act of 1995. Forward-looking statements may be identified by words such as “anticipated,” “designed to,” "could," “expected,” "may," "potentially," and "would," or the negative of these and similar expressions.

These forward-looking statements, which are based on our management’s current expectations and assumptions and on information currently available to management, including information provided or otherwise publicly reported by our licensed partners, include statements regarding the market opportunities with respect to lasme-cel (and the assumptions on which such determinations are based, including with respect to addressable populations and potential pricing), the potential of the phase 2 study to be a registrational phase, the advancement, timing and progress of clinical trials (including with respect to patient enrollment and follow-up), the timing of our presentation of data and submission of regulatory filings (including, without limitation, the date of BLA filing), the operational capabilities of our manufacturing facilities, the sufficiency of cash to fund operations, the potential benefit of our product candidates and technologies, and the financial position of Cellectis.

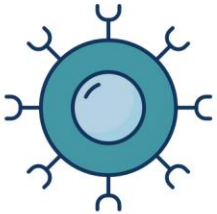
These forward-looking statements are made in light of information currently available to us and are subject to numerous risks and uncertainties, including with respect to the numerous risks associated with biopharmaceutical product candidate development. Among these risks are significant risks that the phase 1 or preliminary data of our clinical trials may not be validated by data from later stage of clinical trials and that our product candidates may not receive regulatory approval. Particular caution should be exercised when interpreting the results from phase 1 studies and results relating to a small number of patients, such results should not be viewed as predictive of future results.

With respect to our cash runway, our operating plans, including product development plans, may change as a result of various factors, including factors currently unknown to us. Furthermore, many other important factors, including those described in our Annual Report on Form 20-F and the financial report (including the management report) for the year ended December 31, 2024 and subsequent filings Cellectis makes with the Securities Exchange Commission from time to time, as well as other known and unknown risks and uncertainties may adversely affect such forward-looking statements and cause our actual results, performance or achievements to be materially different from those expressed or implied by the forward-looking statements. Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons why actual results could differ materially from those anticipated in the forward-looking statements, even if new information becomes available in the future.

Cellectis' Leadership Position in Cell & Gene Therapy

BEST-IN-CLASS GENE EDITING PLATFORM

Backed by Strong IP



INNOVATIVE ALLOGENEIC CAR-T

5 ongoing clinical programs*
300+ patients treated**

END-TO-END IN-HOUSE MANUFACTURING

STRONG PARTNERSHIPS

Diversified Financial Upsides

(*) 2 Cellectis fully-owned and 3 licensed partners programs
(**) in Cellectis fully-owned and licensed partners trials
IP: Intellectual Property

Cellectis Partners with Industry Leaders

Cash Position

$225M*

as of September 30, 2025

Expected runway
into H2 2027

Partnerships with industry leaders:
$6bn potential milestones + royalties

SERVIER moved by you

Allogene THERAPEUTICS

IOVANCE

AstraZeneca**

*Cash, cash equivalents and fixed-term deposits include restricted cash of $4.4 million as of September 30, 2025 and fixed-term deposits of $168.2 million as of September 30, 2025, of which $137.6 million are classified as current financial assets and $30.6 million are classified as non-current financial assets (due to a fixed bank deposit investment maturing in October 2026, including accrued interest).

**AstraZeneca's shares represent 44% of the share capital and 29% of the voting rights of the Company as of September 30, 2025.

TALEN® is Best-in-class Gene Editing

SAFE	Low genotoxicity and off-target*
PRECISE	Targets precisely any DNA
EFFICIENT	High editing efficiencies (up to 100%)
VERSATILE	Vectorized into mRNA

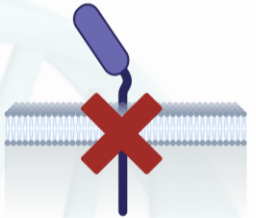
NUCLEASE
Gene replacement, correction, insertion

BASE EDITORS
Gene editing without CRISPR-associated genotoxicity

GENE MODULATORS
Gene activation or inactivation without DNA alteration

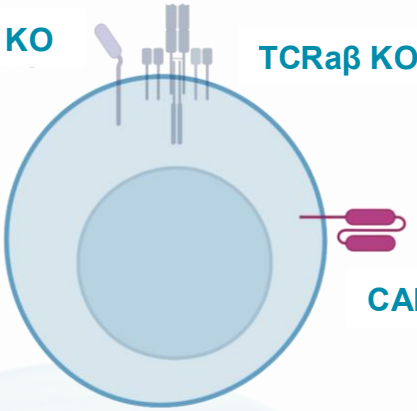
(*) Based on our current observations referring to low genotoxicity and off-target

UCART Design



CD52 KO
Resistance to anti-CD52 abs

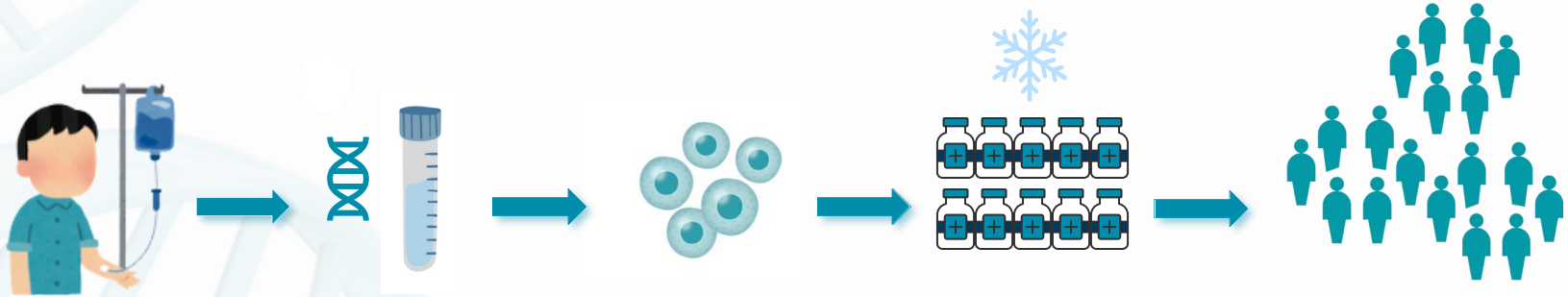
TCRaβ KO
Minimizes risk of GvHD



CAR-T cell

Abs: Antibodies ; CART: Chimeric Antigen Receptor T-cell ; GvHD: Graft-versus-Host-Disease ; KO: Knock-Out ; UCART: Universal Chimeric Antigen Receptor T-cell

Allogeneic CAR-T: Unlocking a Scalable Industrial Approach



Scalable Manufacturing
1 batch = 100s doses
Scalable to 1000s doses

Off-The-Shelf
Immediate access and attractive gross margins

Fully Integrated Manufacturing

Paris, France
14,000 sq ft. facility

CMC Development, Starting Materials

- ✓ Process & analytical development
- ✓ Starting materials manufacturing:
  - Buffers,
  - Plasmids,
  - mRNA,
  - Viral vectors,
  - & QC testing
- ✓ Cryogenic storage rooms
- ✓ EU supply chain & logistics

Raleigh, NC
82,000 sq ft. facility

UCART – Clinical & Intended Ready Site

- ✓ UCART GMP manufacturing
- ✓ QC testing labs
- ✓ Cryogenic storage rooms
- ✓ U.S. supply chain & logistics

Allogeneic CAR-T

Scalable Manufacturing

Controlled CoGs

CMC: Chemistry Manufacturing and Controls; GMP: Good Manufacturing Practice ; QC: Quality Control ;CoGs: Cost of Goods

Advancing an Industry-Leading Pipeline

STUDY	INDICATION	PRECLINICAL	PHASE 1	PHASE 2[1]	UPCOMING EXPECTED MILESTONE	
BALLI-01 Lasme-cel (CD22)	B-ALL				Pivotal Phase 2 first interim analysis expected in Q4 2026	Fully Owned
NATHALI-01 Eti-cel (CD20, CD22)	NHL				Full Phase 1 dataset expected in 2026	Fully Owned
ALPHA 3 **Cema-cel (CD19)[2]**	LBCL				SERVIER moved by you / Allogene THERAPEUTICS	Licensed Partners
TRAVERSE[3] **ALLO-316 (CD70)**	RCC				Allogene THERAPEUTICS	Licensed Partners
IOV-GM1-201 **IOV-4001**	Melanoma				IOVANCE	Licensed Partners

1. Phase 3 may not be required if Phase 2 is pivotal. According to Allogene, ALPHA3 is a pivotal Phase 2 trial.
2. cemacabtagene ansegedleucel has been developed under a collaboration agreement between Servier and Allogene based on an exclusive license granted by Cellectis to Servier. Servier grants to Allogene exclusive rights to cemacabtagene ansegedleucel in the U.S., EU and UK. The ALPHA3 study targets Large B-Cell Lymphoma (LBCL).
3. ALLO-316 utilizes TALEN® gene-editing technology pioneered and owned by Cellectis. Allogene has an exclusive license to the Cellectis technologies for allogeneic products directed at the CD70 target. Allogene holds global development and commercial rights for this investigational candidate.

B-ALL, B-cell Acute Lymphoblastic Leukemia; NHL, Non-Hodgkin's Lymphoma; LBCL, Large B-Cell Lymphoma; RCC, Renal Cell Carcinoma; NSCLC, Non-Small Cell Lung Cancer

Lasme-cel and Eti-cel Differentiated Positioning

Post-CD19 CAR-T autologous treatments

LEGEND BIOTECH	LCAR-AIO CD19/CD20/CD22
Kite A GILEAD Company	KITE-363/ KITE-753 CD19/CD20
J&J	C-CARO39 CD19/CD20

Post-CD19 CAR-T allogeneic treatments

Roche POSEIDA THERAPEUTICS	P-CD19CD20-ALLO1 CD19/CD20

cellectis EDITING LIFE

- **CD20 & CD22:** Differentiated targets validated in oncology
- **Lasme-cel:** Best-in-class allogeneic CD22 CAR-T for B-ALL.
- **Eti-cel:** Unique allogeneic dual CAR-T product targeting CD20 & CD22
- **High unmet need** persists for effective r/r B-ALL and NHL treatments

r/r: relapsed or refractory

Lasme-cel for patients with relapsed or refractory B-ALL

Lasme-cel is not FDA approved

B-ALL: an Unmet Medical Need

B-CELL ACUTE LYMPHOBLASTIC LEUKEMIA

- **1L treated population: ~9,200 Patients (US, EU4, UK)***
  High relapse in adults

CHALLENGES WITH EXISTING TREATMENTS

- **Chemotherapies:** Lead to high relapse rate in adults
- **ADCs have a limited effect:** Low antigen expression
- **CD19-directed therapies: ~50% relapse****
- **Therapies based on patient T-cells:** When patients' T-cells are unfit or scarce, autologous CAR-T, *in vivo* CAR-T and T-cell engagers perform less effectively

(*) Projected 2035E figures
(**) Nature Reviews Clinical Oncology (2020-2023)
1L: first line of treatment; ADC: Antibody-Drug Conjugate
EU4: Germany, France, Spain, Italy

Why an Allogeneic CD22 CAR-T cell Product for r/r B-ALL?

Allogeneic CAR-T Starts with Healthy-donor T Cells
Healthier and less exhausted than autologous cells from heavily pretreated patients

Off-the-Shelf is designed for “Speed” – in B-ALL Every Day Counts

Standardized, Repeatable Quality
All patients would get the same product

CD22 Complements/Preempts CD19 (CD19-naïve and post-CD19)
Engaging CD22 could potentially rescue CD19 failures

Poor Response Rates after Targeted Therapy Failure[1]

After targeted therapy failure, salvage chemo yields low ORR and MRD:

High unmet need in heavily pretreated patients

BLINCYTO® (blinatumomab)

Post Blina failure

ORR <20%
MRD-ve <10%

BESPONSA® inotuzumab ozogamicin

Post Ino failure

ORR <10-15%
MRD-ve <5-10%

KYMRIAH® (tisagenlecleucel) Suspension for IV infusion

TECARTUS® (brexucabtagene autoleucel) Suspension for IV infusion

Post CAR-T failure

ORR <10%
MRD-ve <5%

1. International reference analysis of outcomes in adults with B-precursor Ph-negative relapsed/refractory acute lymphoblastic leukemia : Gökbuget et al Haematologica, Vol. 101 No. 12 (2016): December, 2016 https://doi.org/10.3324/haematol.2016.144311

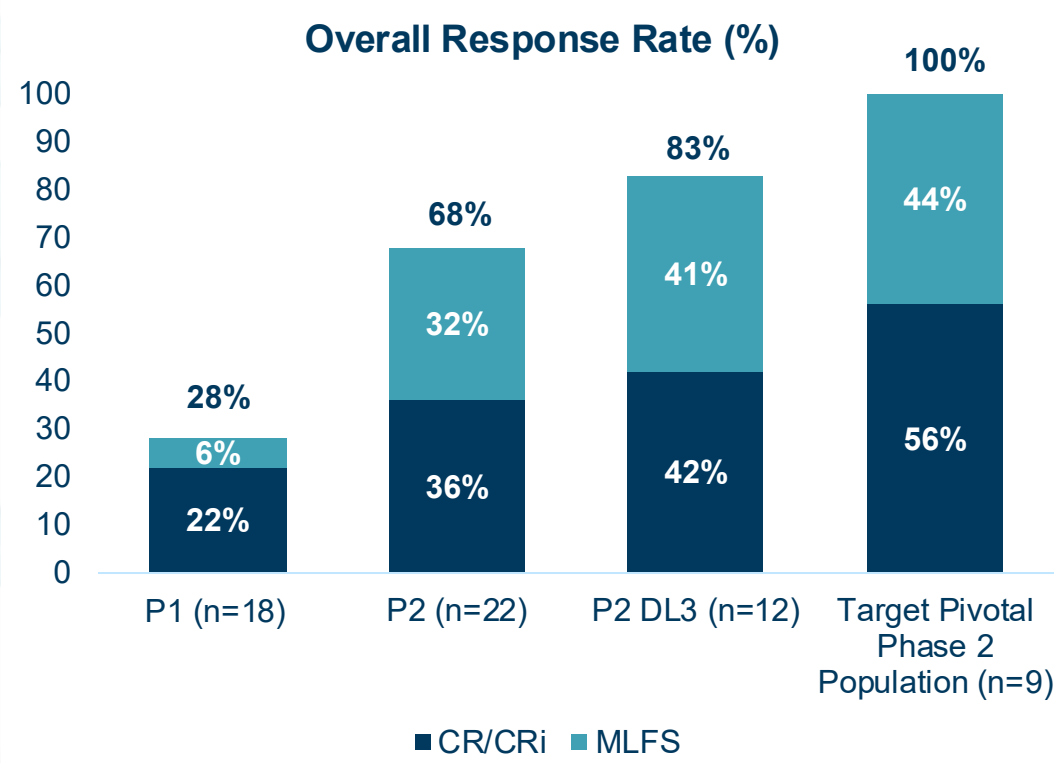
ORR: overall response rate ; MRD: Minimal Residual Disease ; MRD-ve: minimal residual disease negative

BALLI 01 | Demographic and Baseline Characteristics

	DL3 P2 (n=12)	DL3 P2 Age ≤ 50 (n=9)	All Subjects Total (n=40)
Age (yrs), median (range)	**27 (16 - 66)**	**23 (16 - 45)**	**27 (16 - 68)**
Sex, n (%)			
Male	5 (41.7)	3 (33.3)	22 (55)
Female	7 (58.3)	6 (66.7)	18 (45)
ECOG PS, n (%)			
0	5 (41.7)	4 (44.4)	14 (35)
1	6 (50)	4 (44.4)	23 (57.5)
Missing	1 (8.3)	1 (11.1)	3 (7.5)
Number of prior treatments, median (range)	**5 (2 - 11)**	**5 (4 - 11)**	**4 (2 - 11)**
Prior HSCT, n (%)	4 (33.3)	4 (44.4)	18 (45)
Prior inotuzumab, n (%)	7 (58.3)	5 (55.6)	22 (55)
Prior blinatumomab, n (%)	11 (91.6)	8 (88.9)	32 (80)
Prior CD19 CAR T-cell therapy, n (%)	5 (41.7)	4 (44.4)	20 (50)
Bone Marrow blasts %	**62.5 (14 - 91.5)**	**62.5 (14 - 91.5)**	**63.25 (1.0 - 99.0)**

ECOG PS: Eastern Cooperative Oncology Group Performance Status, HSCT: Hematopoietic Stem Cell Transplantation

High Response Rates in P2 Cohort



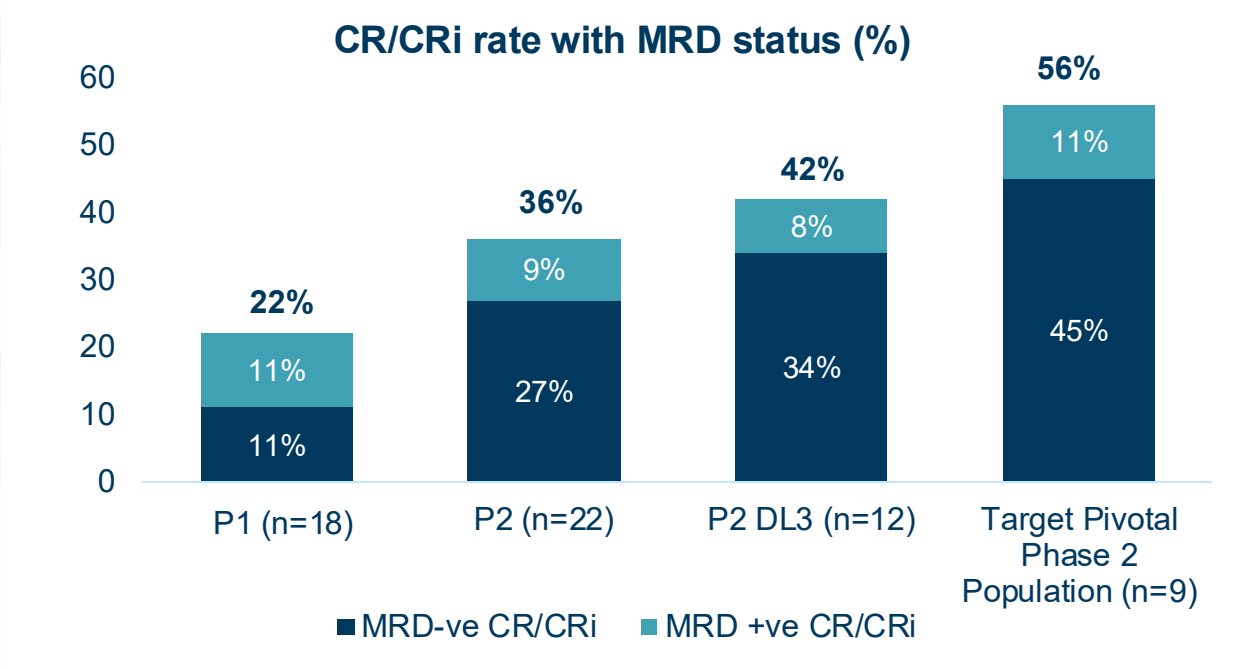
Cellectis manufactured product (P2) is superior to CDMO product (P1)

Recommended Phase 2 Dose: DL3

Target Phase 2 population: DL3 ≤ 50 years

CR/CRi: Complete Remission/Complete Remission with incomplete hematologic recovery; DL3: Dose Level 3; MLFS: Morphologic Leukemia-Free State

High Response Rates in P2 Cohort

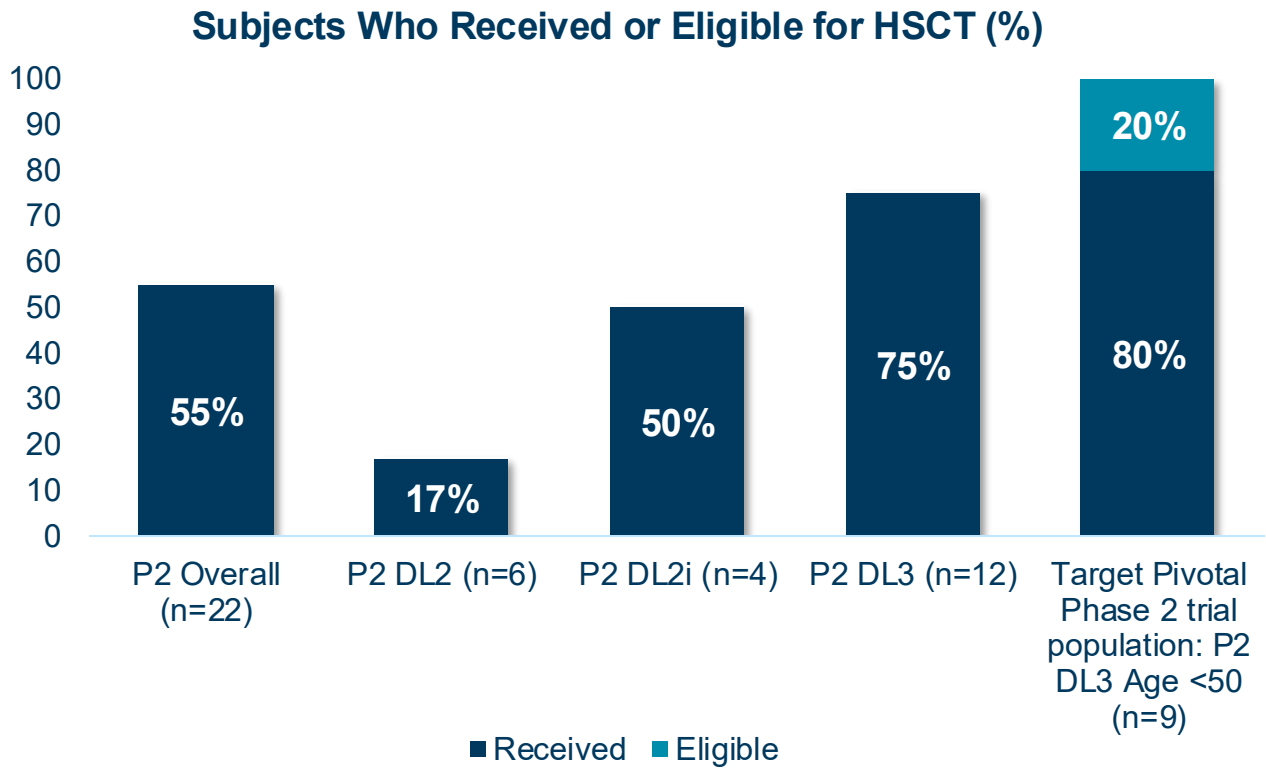


In Target Phase 2 population, 80% who achieved CR/CRi were also MRD negative

Achieving Transplant: an Important Clinical Outcome

100% Received or Eligible for HSCT

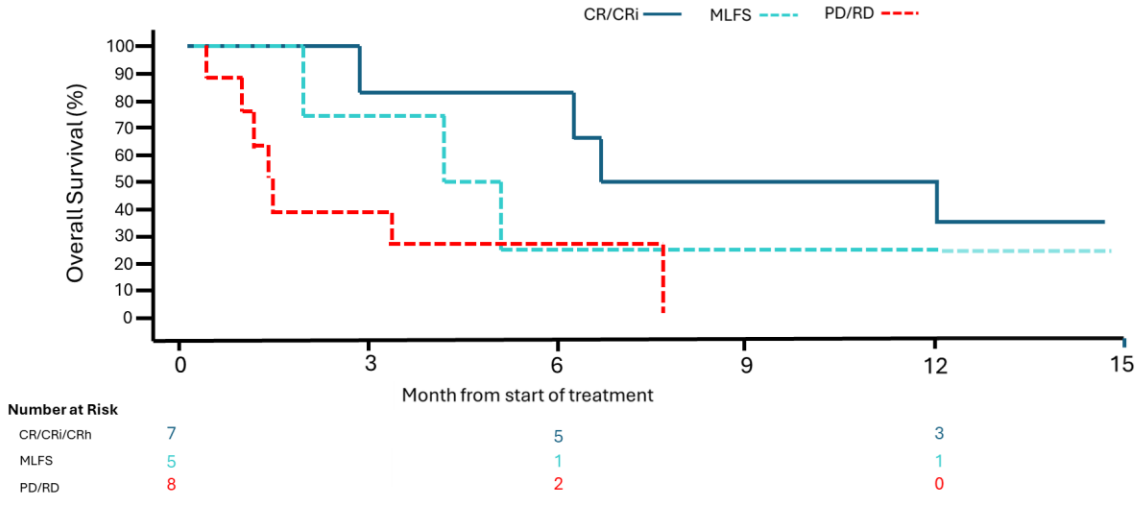
In Phase 2 target population



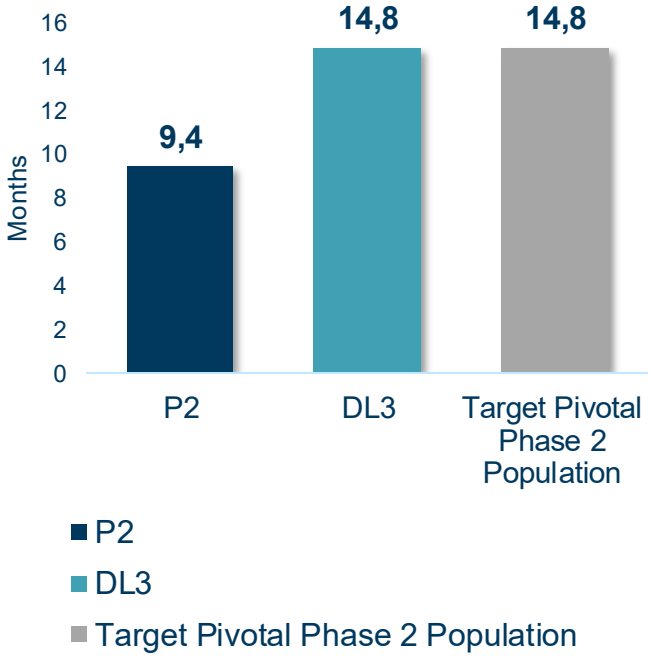
DL2: Dose level 2; DL2i: Intermediate Dose Level 2

Improved Survival in Patients Who Responded

Overall Survival over 12 months by Response (P2)



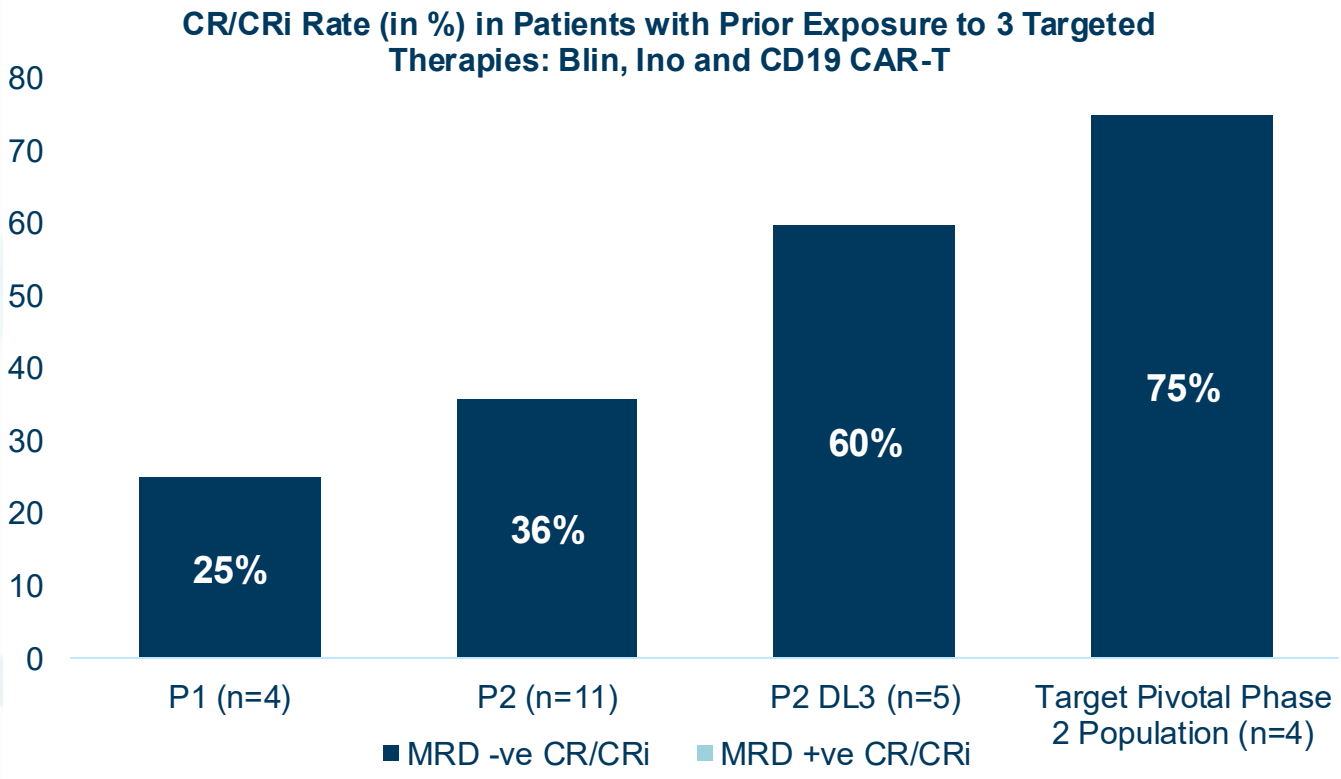
Median Overall Survival in Subjects who Achieve MRD-negative CR/CRi



14.8 months
Median overall survival in subjects who achieve MRD-negative CR/CRi

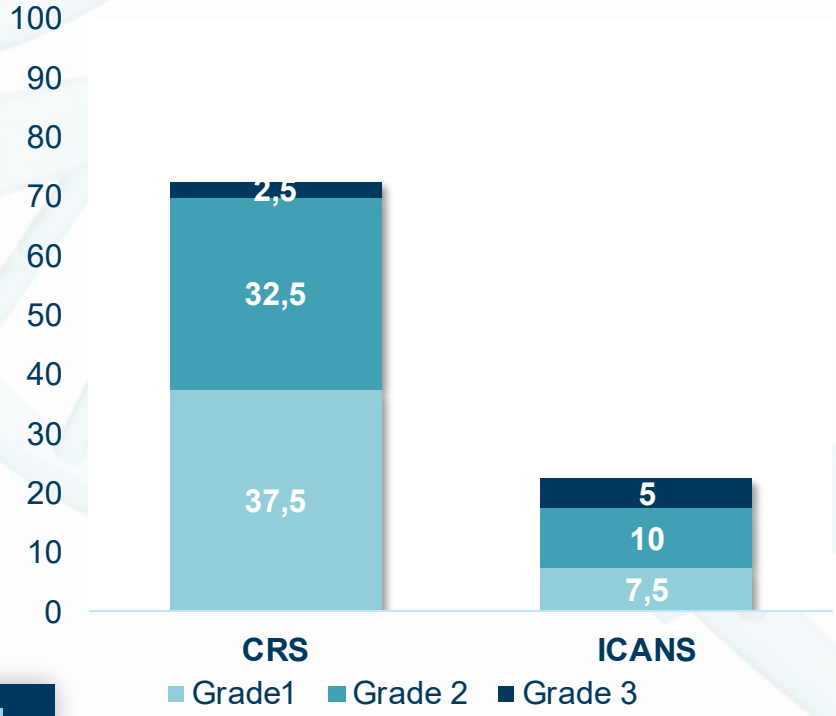
High CR/CRi Rates in Patients Exposed to 3 Prior Targeted Therapies: Inotuzumab, Blinatumomab and CD19 CAR-T

Deep responses if received all 3 available targeted therapies

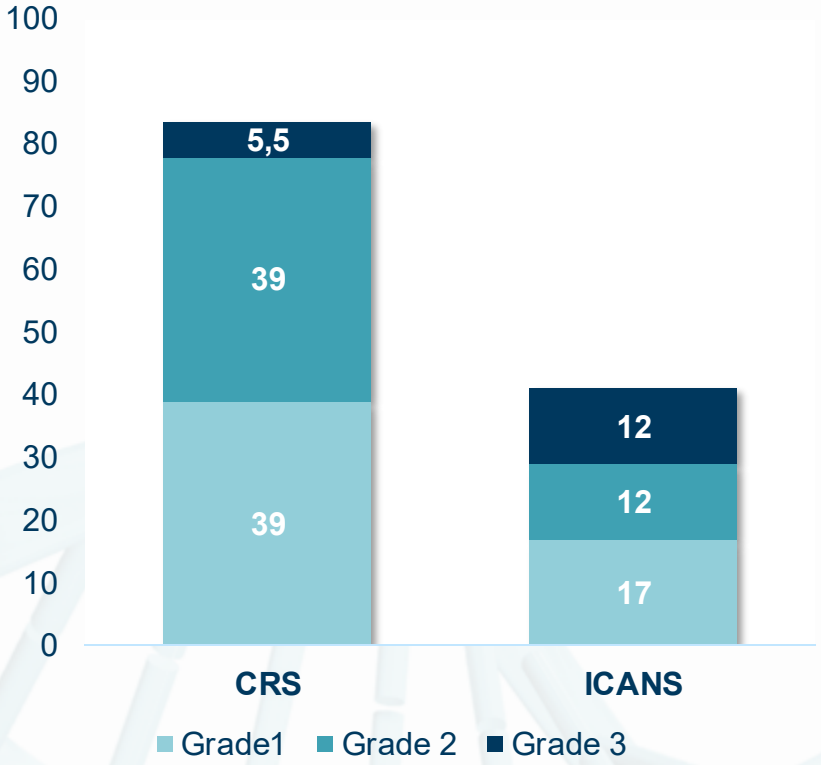


Low Incidence of Grade ≥ 3 CRS and ICANS

CRS and ICANS: Total Population (n=40)



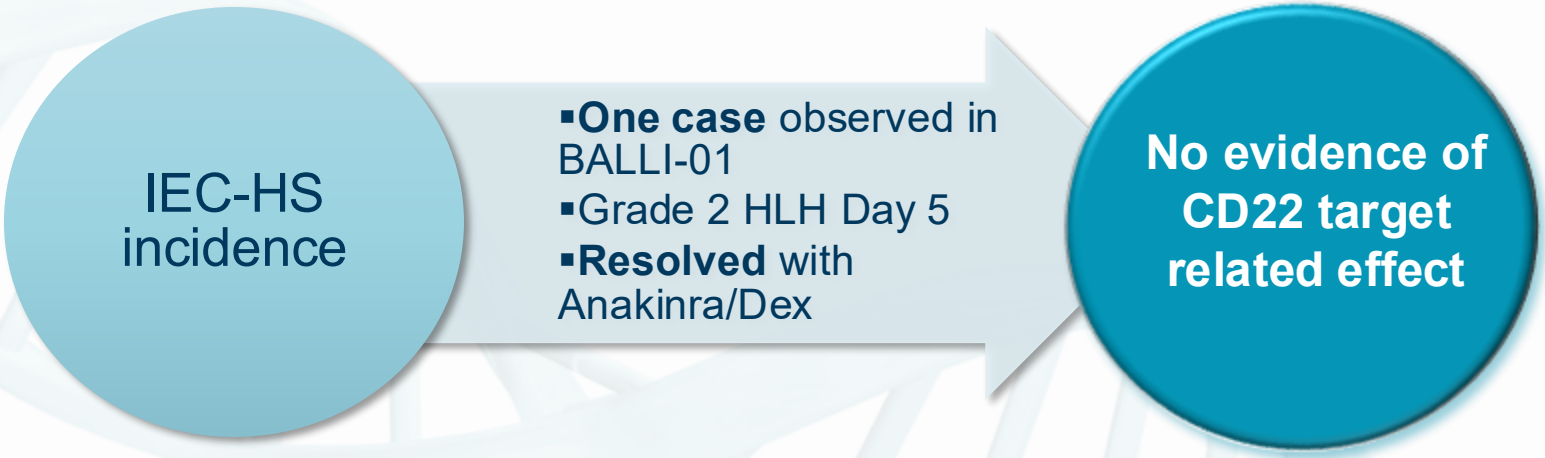
CRS and ICANS: DL3 (n=18)



ICANS: Immune effector Cell-Associated Neurotoxicity Syndrome ; CRS: Cytokine Release Syndrome

No Current Signal for IEC-HS

Significant interest in the risk of IEC-HS based on prior CD22 targeting autologous CAR-T

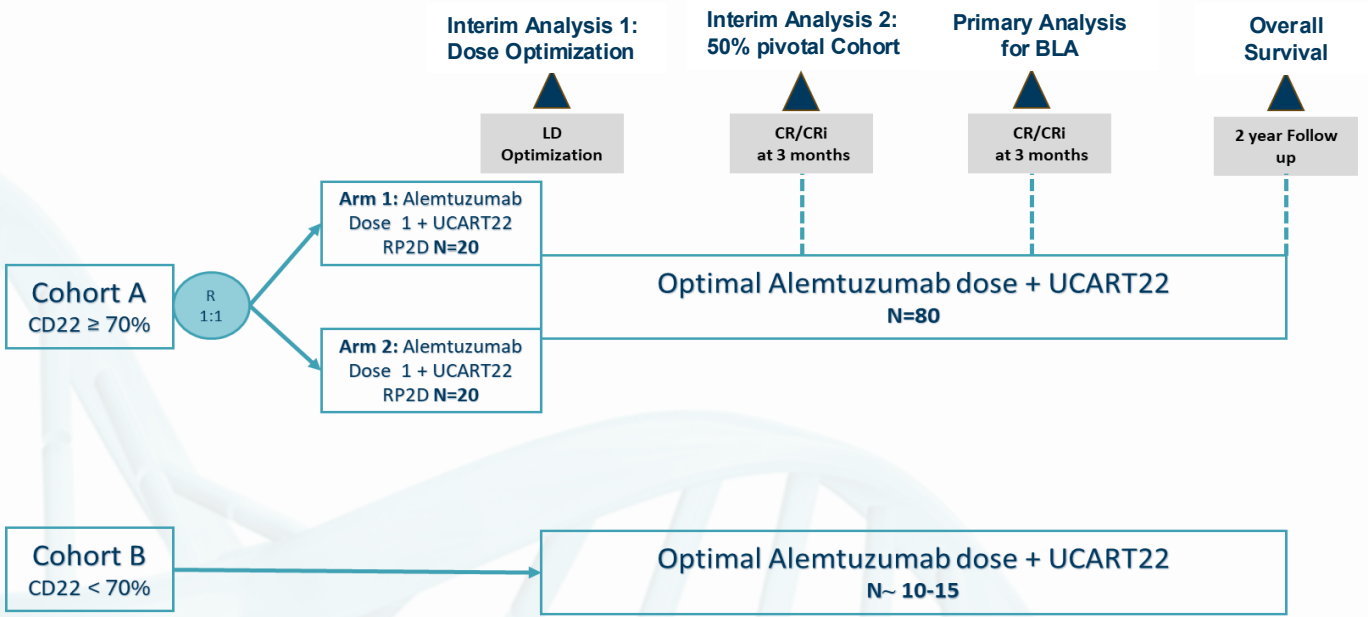


IEC-HS: Immune Effector Cell–Associated Hemophagocytic Syndrome ; HLH: Hemophagocytic Lymphohistiocytosis

Study Design: Pivotal Phase 2

Primary Endpoint:
CR / CRi,
evaluated within
3 months (from
Day 28 to Day 84)

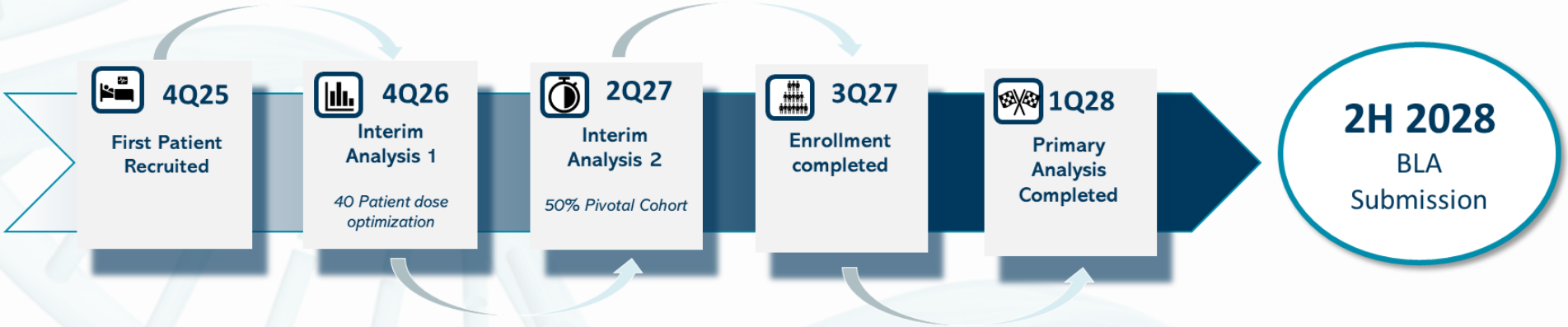
Age 12-50 years



Recruitment of patients driven by 75 planned study centers in North America and Europe

LD: lymphodepletion; RP2D: Recommended Phase 2 dose

Clear Registration Path to BLA Submission Targeted For 2028: Key Anticipated Milestones

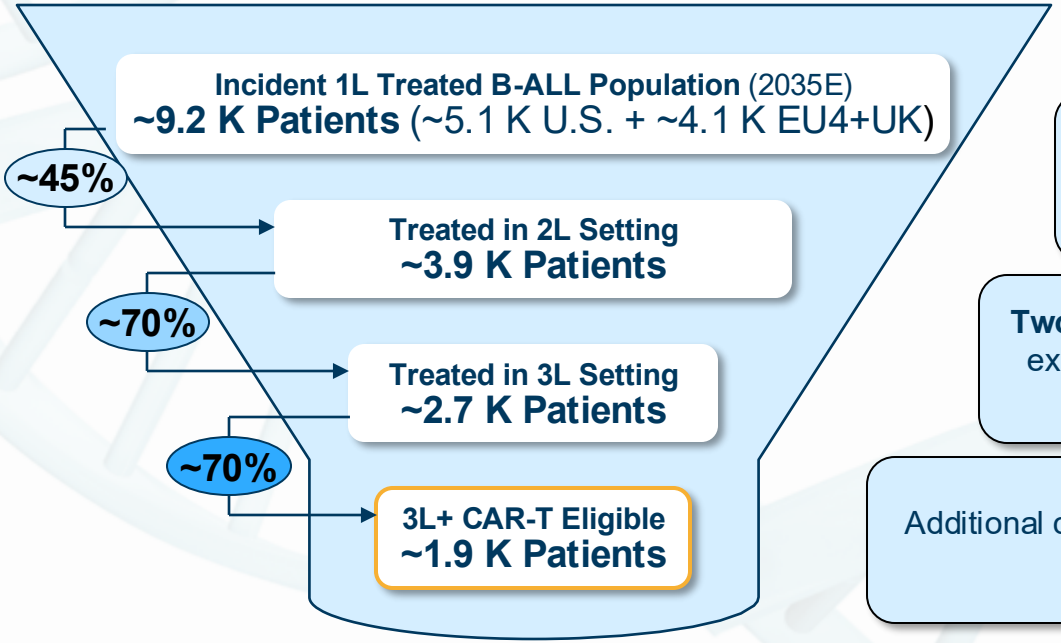


Multiple Catalysts to 2H 2028

BLA: Biologics Licence Application

Lasme-cel Has the Potential to Reach Up To ~1.9 K Addressable 3L+ Patients

U.S. and EU4+UK 2035E Lasme-cel Addressable Population



Of the **~9.2 K expected B-ALL** patients, **~45% are expected to progress to 2L,** mostly adolescents and adults given better outcomes for children

Two-thirds of patients treated in the 2L setting are expected to go on to **require further therapeutic intervention**

Additional cuts for **clinical allo CAR-T eligibility** based on patient fitness and comorbidities[1]

Note: Values may not multiply exactly due to rounding.
Source: Joshi. Clin Lymphoma Myeloma Leuk. 2022; Kim. Leukemia & Lymphoma. 2018; Rheingold. Leukemia. 2024; Geyer. JCO. 2025. SEER; ClearView Analysis.
Note: Assumes nearly all pediatric patients and adults under 65 receive treatment, only 60% of adults over 65 receive treatment.
1. In Kymriah ELIANA trial (ages 3-23), 77% of screened patients receive Kymriah or with manufacturing failures; assumes lower real-world clinical eligibility.

Lasme-cel Could Achieve Up To ~$700 M in Peak Gross Sales (U.S., EU4, UK)

Assumption			Source / Rationale
Addressable Patients (#)	~1.1 K	~840	Represents expected 3L CAR-T eligible patients in 2035
	x	x	
Preference Share (%)	~65%	~65%	• Triangulated using physician-reported preferences and average market share of preferred oncology treatment classes with superior efficacy (e.g., PD-1 in NSCLC, PARPi in HRD OC, CAR-T vs HSCT in lymphoma)[1]
	x	x	
Market Access (%)	~90%	~90%	• Based on industry standard assumption in oncology, triangulated with Yescarta access for both the U.S. and EU4+UK
	=	=	
Treated Patients (#)	~620	~490	
	x	x	
Gross Price ($)	~$840 K	~$365 K	• Price anchored on 2025 references for Kymriah, Tecartus, and Aucatzyl (Navlin), with 2035 projections using ~5% CAGR in the U.S. and flat pricing across EU4+UK
	=	=	
Peak Gross Sales ($)	**~$520 M**	**~$180 M**	

2035E Potential Peak Gross Sales (U.S., EU4, UK) **Up to ~$700 M**

Note: Values may not multiply exactly due to rounding. [1]Based on average class share among NSCLC PD-(L)1 inhibitors (48 – 66%), NSCLC Targeted EGFR (~86%) and ALK (~75%) inhibitors, PARP inhibitors in HRD+ ovarian cancer (56 – 63%), and Lymphoma CAR-T (~45%). NSCLC: Non-small Cell Lung Cancer. Source: Carroll. Cancer Treat Res Commun. 2023; Veluswamy. Cancer Med. 2022; Steeghs. Lung Cancer. 2022; Chan. J of Clin Onc. 2022; Chase. Fut Onc. 2025; CIMBTR 2024 Report; Navlin; Physician Interviews; ClearView Analysis.

Eti-cel for patients with relapsed or refractory NHL

Eti-cel is not FDA approved

Eti-cel: Study Design

Key inclusion criteria:

- Age 18–80 years
- Mature B-cell NHL except CLL/SLL, Richter's from CLL/SLL, Burkitt's lymphoma, or Waldenstrom's macroglobulinemia
- Tumor positive for CD20 and/or CD22
- Received ≥2 prior lines including CD19 CAR T if eligible

Primary objective:

- Safety, tolerability, & MTD/RP2D of Eti-cel

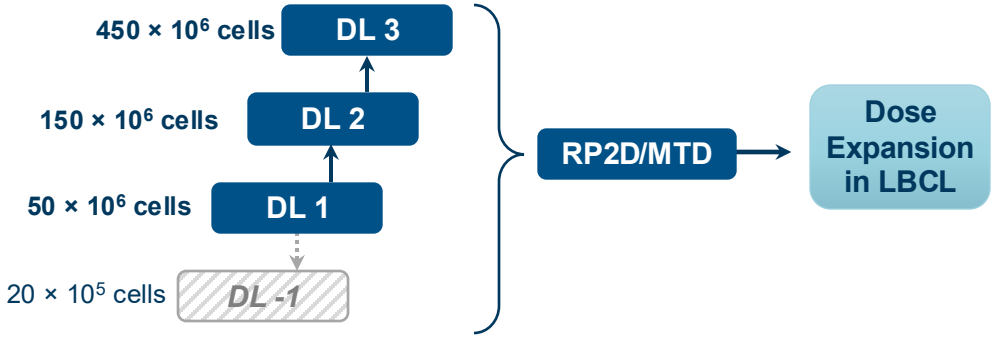
Additional objectives:

- Investigator-assessed response by Lugano
- Eti-cel expansion in PB
- Immune reconstitution

Dose Escalation

BOIN design • 2-4 pts/cohort

Dose Expansion



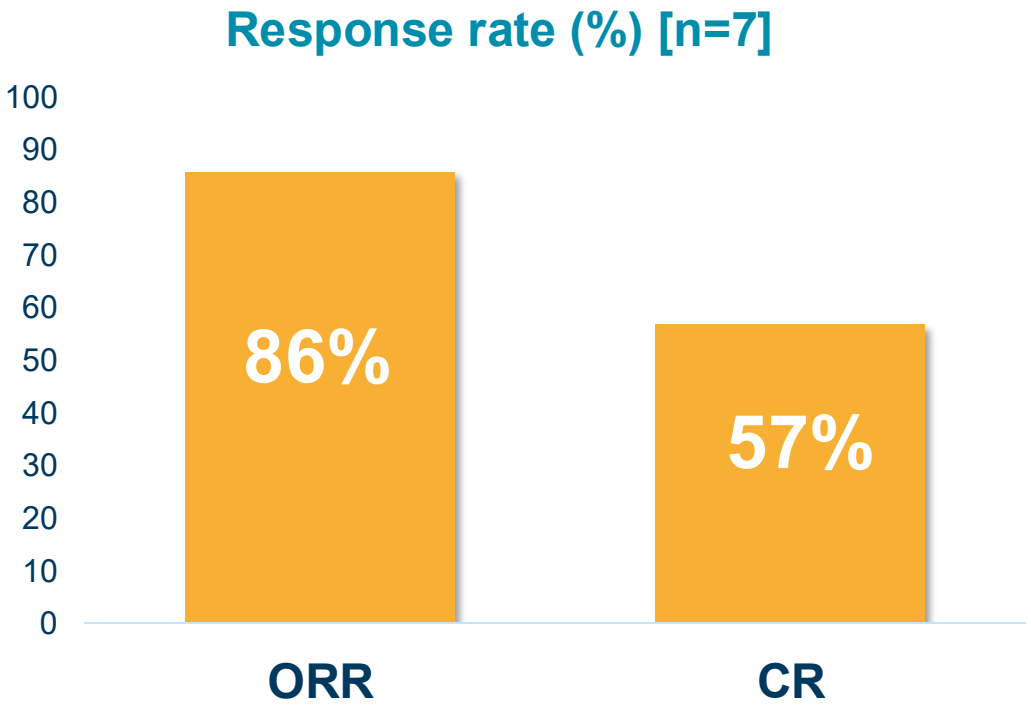
FCA LD regimen:

- **Fludarabine** 30 mg/m^2 × 3d
- **Cyclophosphamide** 0.5 g/m^2 × 3d
- **Alemtuzumab** 60 mg total over 3 days

BOIN: Bayesian Optimal Interval; CLL/SLL: Chronic Lymphocytic Leukemia / Small Lymphocytic Lymphoma, DL: Dose Level; d: days; FCA: Fludarabine + Cyclophosphamide + Alemtuzumab; MTD: Maximum Tolerated Dose; PB: Peripheral Blood; pts: patients

Eti-cel: High Response Rates in R/R NHL

4/7 CR at Current Dose Level



Update on Program at ASH 2025

ASH: American Society of Hematology annual congress

Expected 2026 Catalysts

Lasme-cel Phase 2 first Interim Analysis

Eti-cel Potential EoP1 in r/r NHL

Preclinical PoC for *In Vivo* Gene Therapy

EoP1: End-of-Phase 1 ; PoC: Proof-of-Concept

Thank You

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Cellectis Raleigh
2500 Sumner Boulevard
Raleigh, NC, 27616 – USA

Diversified Partnerships with Industry Leaders

SERVIER moved by you / Allogene THERAPEUTICS	Allogene THERAPEUTICS	IOVANCE BIOTHERAPEUTICS	AstraZeneca
CAR-T CD19 (ALLO-501, Cema-cel)	**CAR-T BCMA, CD70 + 13 targets**	**TILs**	**Cell and Gene Therapies**
Exclusive worldwide license to CD19-directed allogeneic CAR T-cells	Exclusive worldwide license to 15 allogeneic CAR T-cell targets[1]	Research collaboration and exclusive worldwide license agreement to develop gene-edited TILs	Joint Research and Collaboration agreement to develop up to 10 novel products in oncology, immunology and rare diseases and investment agreement
U.S. rights exclusively sublicensed to Allogene by Servier[1]			
Up to $410M in Development & Sales Milestones + Low Double-Digit Royalties on Sales Arbitral Decision On or Before December 15, 2025. Cellectis' requests: 1. Terminating the License Agreement, and 2. Financial Compensation for Losses Incurred	Up to $2.8B in Development & Sales Milestones + High Single-Digit Royalties on Sales	Undisclosed Financials	$25M upfront. Milestones from $70M to $220M per product and tiered royalties. $220M equity investment.

1. Servier grants to Allogene exclusive rights to cemacabtagene ansegedleucel in the U.S., EU and UK
TIL: Tumor-Infiltrating Lymphocyte