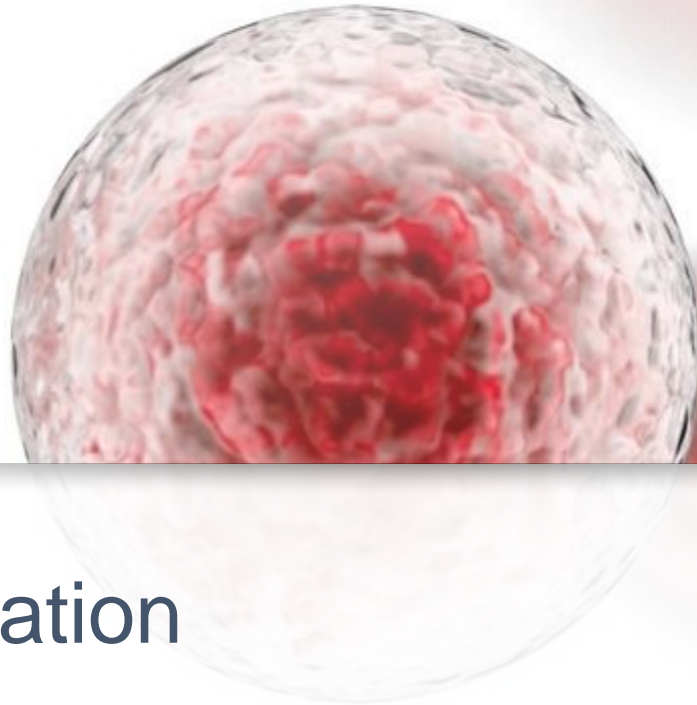


Cabaletta Bio[®]




Corporate Presentation

MAY 2022

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Various risks, uncertainties and assumptions could cause actual results to differ materially from those anticipated or implied in our forward-looking statements. Such risks and uncertainties include, but are not limited to, risks related to the success, cost, and timing of our product candidate development activities and preclinical studies and clinical trials, risks related to our ability to demonstrate sufficient evidence of safety, efficacy and tolerability in our preclinical and clinical trials of DSG3-CAART and MuSK-CAART, the risk that signs of biologic activity or persistence may not inform long-term results, the risk that persistence observed with effective CART-19 oncology studies in combination with lymphodepletion is not indicative of, or applicable to, clinical responses in patients with mPV; risks related to clinical trial site activation or enrollment rates that are lower than expected, our ability to protect and maintain our intellectual property position, risks related to our relationship with third parties, uncertainties related to regulatory agencies’ evaluation of regulatory filings and other information related to our product candidates, our ability to retain and recognize the intended incentives conferred by any Orphan Drug Designation and Fast Track Designations, the risk that any one or more of our product candidates will not be successfully developed and commercialized, the risk that the results of preclinical studies or clinical studies will not be predictive of future results in connection with future studies, the impact of COVID-19 on the timing, progress, interpretability of data, and results of ongoing or planned clinical trials and risks relating to as a result of extraordinary events or circumstances such as the COVID-19 pandemic, and any business interruptions to our operations or to those of our clinical sites, manufacturers, suppliers, or other vendors resulting from the COVID-19 pandemic or similar public health crisis. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. 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. Although we believe the expectations reflected in such forward-looking statements are reasonable, we can give no assurance that such expectations will prove to be correct. Accordingly, you are cautioned not to place undue reliance on these forward-looking statements. No representations or warranties (expressed or implied) are made about the accuracy of any such forward-looking statements. For a discussion of these and other risks and uncertainties, and other important factors, any of which could cause our actual results to differ materially from those contained in the forward-looking statements, see the section entitled “Risk Factors” in our most recent annual report on Form 10-K, as well as discussions of potential risks, uncertainties, and other important factors in our other filings with the Securities and Exchange Commission. Certain information contained in this Presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the Company’s own internal estimates and research. While the Company believes these third-party sources to be reliable as of the date of this Presentation, it has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. The Company is the owner of various trademarks, trade names and service marks. Certain other trademarks, trade names and service marks appearing in this Presentation are the property of third parties. Solely for convenience, the trademarks and trade names in this Presentation are referred to without the ® and TM symbols, but such references should not be construed as any indicator that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto.

A microscopic image of a cell, likely a lymphocyte, with a prominent red nucleus and a textured, light blue-grey cytoplasm. The cell is centered in the lower half of the slide, partially obscured by the text above it.

Develop and launch the first curative
targeted cellular therapies for patients
with autoimmune diseases

Cabaletta Bio[®]

Cabalella[®] overview

- **Developing highly specific CAAR T products to treat B cell-mediated autoimmune diseases**
- **DesCAARTes[™] trial in patients with mucosal pemphigus vulgaris (mPV) ongoing**
 - Favorable safety profile for DSG3-CAART demonstrated in cohorts A1 through A4 at doses up to 2.5 billion cells
 - No CRS, ICANS, dose-limiting toxicities or related SAEs observed in any patient in cohorts A1 to A4
 - Dose-dependent increase in DSG3-CAART persistence observed in cohorts A1 to A4, as presented at 25th Annual ASGCT Conference
 - Cohort A4 persistence approached the lower end of the range seen with anti-CD19 CART with lymphodepletion in oncology^{1,2,3}
 - Cohort A5 dosing up to 7.5 billion cells ongoing with multiple additional cohorts possible to enhance in vivo DSG3-CAART exposure
- **MusCAARTes[™] trial in patients with MuSK myasthenia gravis on track to initiate in 2022**
- **Cell therapy pipeline⁴ targeting diseases that affect over 80,000 U.S. patients**
- **Cash runway through 3Q23 with \$109.2M in cash and investments at the end of 1Q22**

CRS – Cytokine release syndrome; ICANS – Immune effector cell-associated neurotoxicity syndrome; SAE – Serious adverse event

1. Mueller, Karen Thudium, et al. "Cellular kinetics of CTL019 in relapsed/refractory B-cell acute lymphoblastic leukemia and chronic lymphocytic leukemia." Blood, The Journal of the American Society of Hematology 130.21 (2017): 2317-2325.

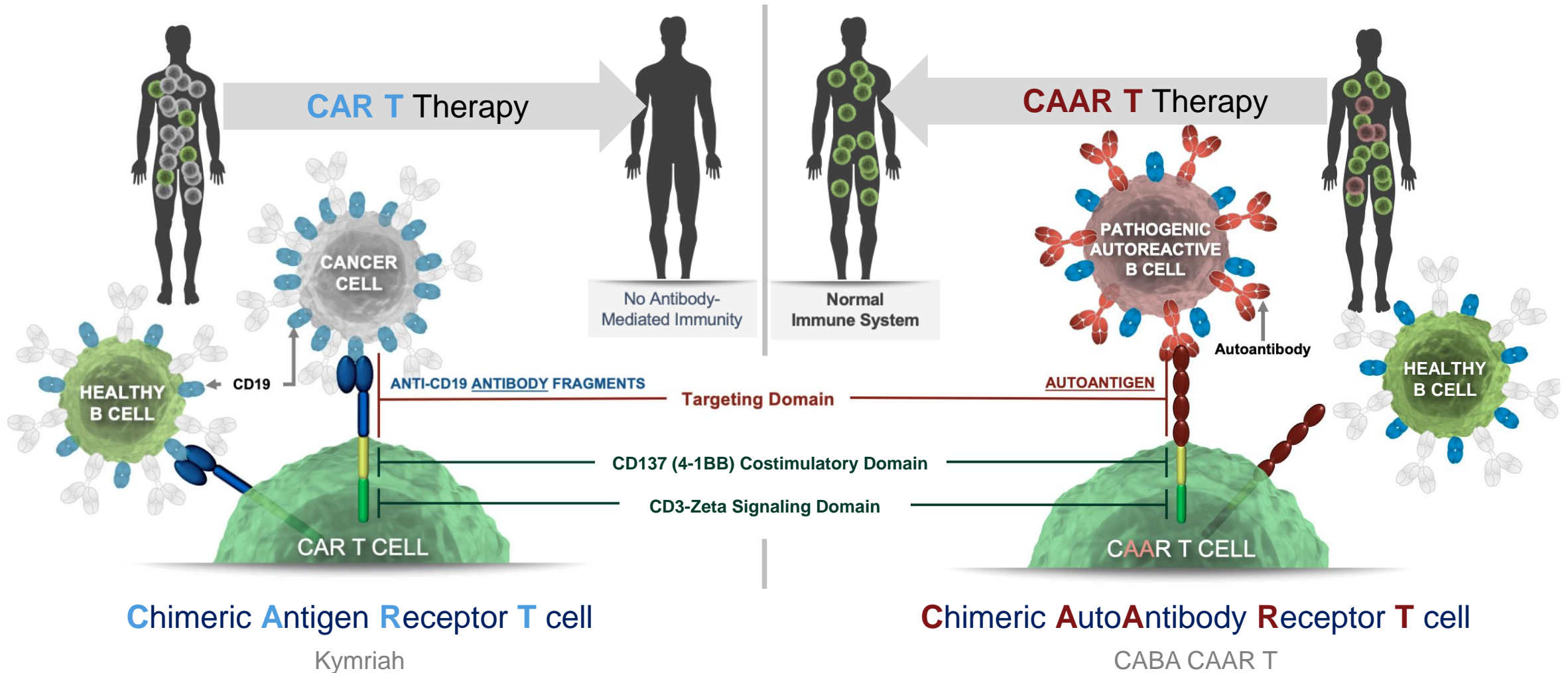
2. Schuster SJ, Bishop MR, Tam CS, et al. Tisagenlecleucel in Adult Relapsed or Refractory Diffuse Large B-Cell Lymphoma. N Engl J Med. 2019;380(1):45-56. doi:10.1056/NEJMoa1804980

3. The range of persistence observed with anti-CD19 CART therapy in oncology has not been confirmed to be necessary or sufficient for clinical responses in patients with mPV.

4. Includes five disclosed product candidates and two undisclosed pipeline disease targets in our pipeline.

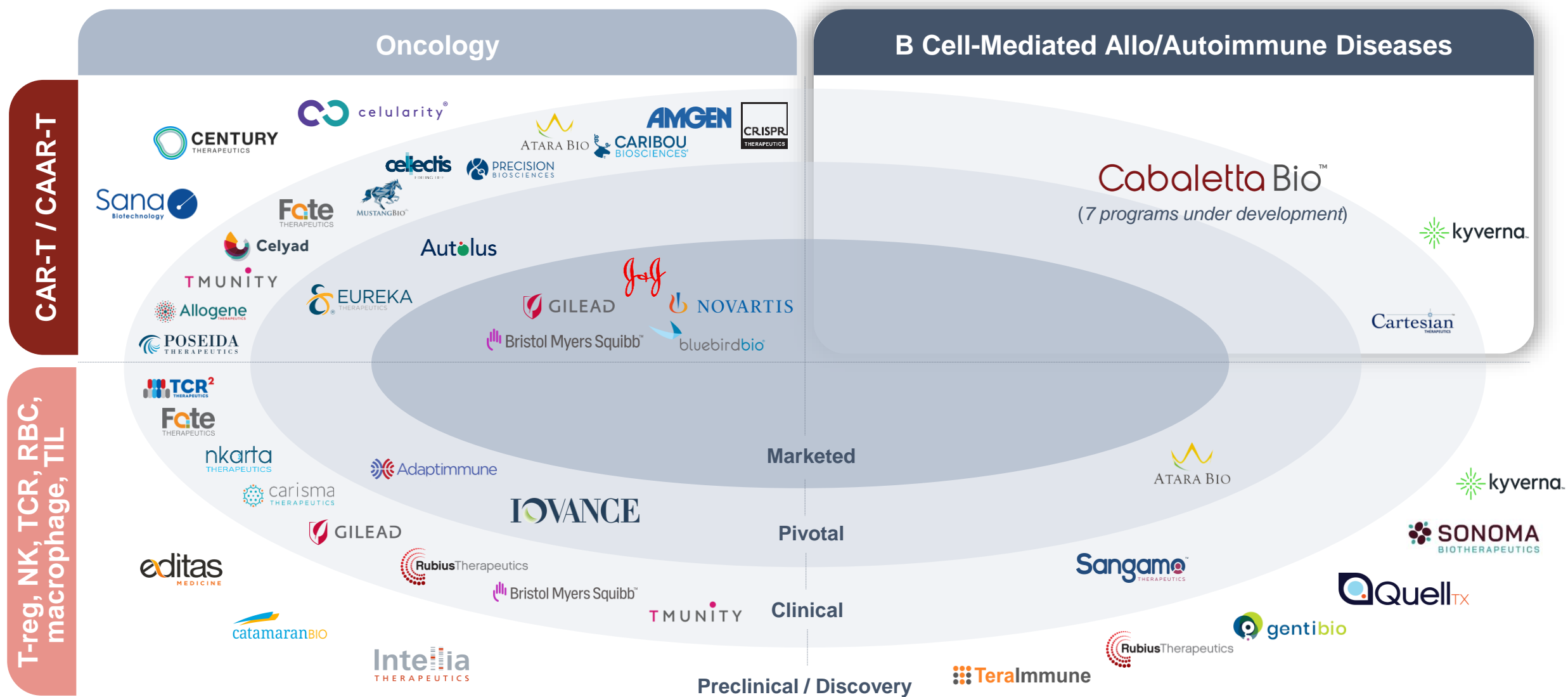
Our scientific platform leverages clinically validated CAR T technology

CAAR T product candidates are designed for selective and specific elimination of the pathogenic B cells



Cabaletta: Advancing targeted cell therapy to autoimmunity

Foundational CAR T technology clinically validated in treating B cell-mediated cancers



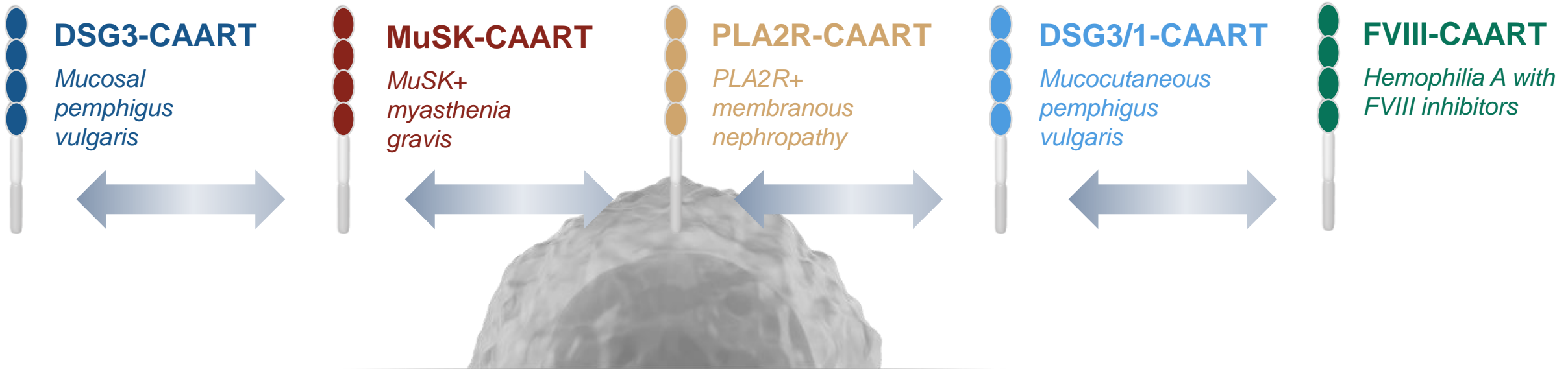
Note: Landscape for illustrative purposes only.

Cabaletta Bio®

Modular platform with “plug-and-play” architecture





CABA™ platform designed to enable a portfolio of programs targeting B cell-mediated diseases

Swapping the extracellular domain, or autoantigen, creates **new product candidates**



Clinically validated engineered T cell platform is the foundational technology

Pipeline¹ includes multiple disease targets where cure is possible

Therapeutic Area	Indication	Program	Discovery ²	Preclinical	Phase 1	Phase 2/3
 Dermatology	Mucosal Pemphigus Vulgaris	DSG3-CAART				
	Mucocutaneous Pemphigus Vulgaris	DSG3/1-CAART				
 Neurology	MuSK Myasthenia Gravis	MuSK-CAART				
 Nephrology	PLA2R Membranous Nephropathy	PLA2R-CAART				
 Hematology	Hemophilia A w/ FVIII Alloantibodies	FVIII-CAART				

Current pipeline includes 7 programs targeting diseases affecting >80,000 patients in the U.S.

1. Two additional undisclosed disease targets currently in discovery stage are not shown in our pipeline portfolio.

2. In our discovery stage, we perform epitope mapping and optimize CAAR construct and design.

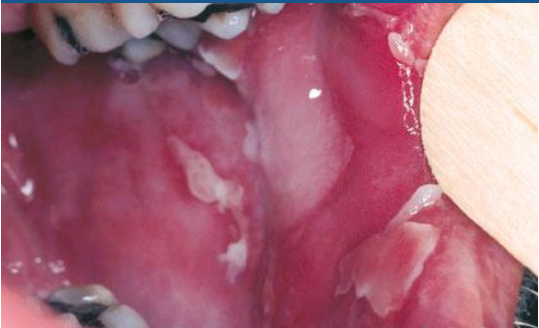

A healthcare professional with dark hair in a teal scrub top is smiling and using a stethoscope to listen to the chest of an elderly patient with short grey hair. The patient is wearing a white hospital gown. The background is softly blurred, suggesting a clinical setting.

DSG3-CAART for patients with mucosal pemphigus vulgaris

Caballetta Bio[®]

Overview of pemphigus vulgaris

Current treatments require broad immunosuppression associated with safety risks and transient efficacy

	Mucosal PV ¹ 25% of U.S. pemphigus vulgaris	Mucocutaneous PV ² 75% of U.S. pemphigus vulgaris
		
Associated Antibody	Anti-DSG3	Anti-DSG3 + Anti-DSG1
Clinical Signs	Painful blisters of the mucous membranes (mouth, nose, larynx, esophagus, eyes, genitalia, rectum)	Blisters on orifices and skin
US Disease Prevalence	3,250 to 4,750	9,750 to 14,250

CROT = 8+ weeks without lesions while off systemic therapy

1. Image credit: D@nderm.

2. <http://www.vgrrd.org/archive/cases/2004/pv/DSCN4996%20copy.JPG>

3. Joly, Pascal, et al. "First-line rituximab combined with short-term prednisone versus prednisone alone for the treatment of pemphigus (Ritux 3): a prospective, multicentre, parallel-group, open-label randomised trial." *The Lancet* 389.10083 (2017): 2031-2040.

4. Werth, Victoria P., et al. "Rituximab versus Mycophenolate Mofetil in Patients with Pemphigus Vulgaris." *New England Journal of Medicine* (2021).

5. Rituximab label, 08/2020 revision.

6. Kushner, Carolyn J., et al. "Factors Associated With Complete Remission After Rituximab Therapy for Pemphigus." *JAMA dermatology* (2019).

7. Tony, Hans-Peter, et al. "Safety and clinical outcomes of rituximab therapy in patients with different autoimmune diseases: experience from a national registry (GRAID)." *Arthritis research & therapy* 13.3 (2011): 1-14.

Current Treatment Landscape

Broad immunosuppression^{3,6}

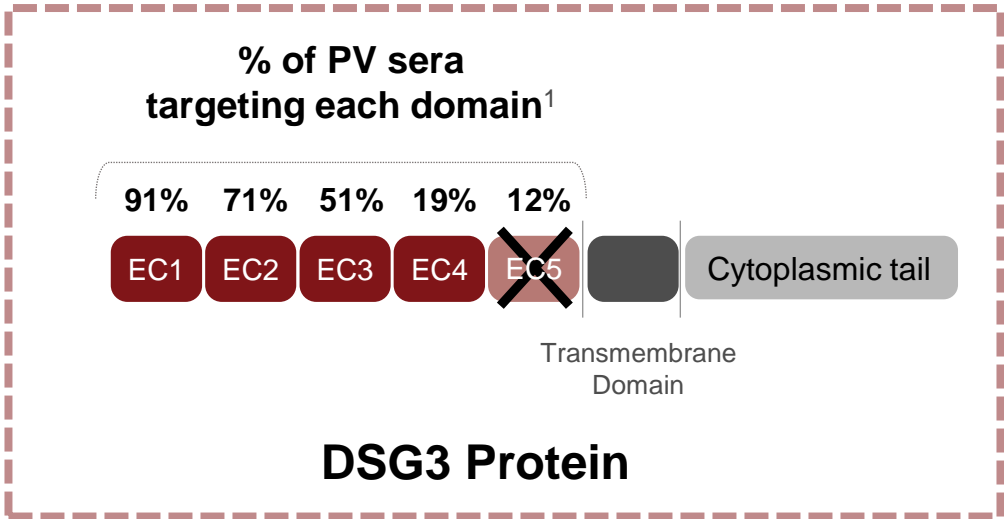
- Modestly effective
- Poorly tolerated

Rituximab plus steroids (~3,500 mg/yr)⁴

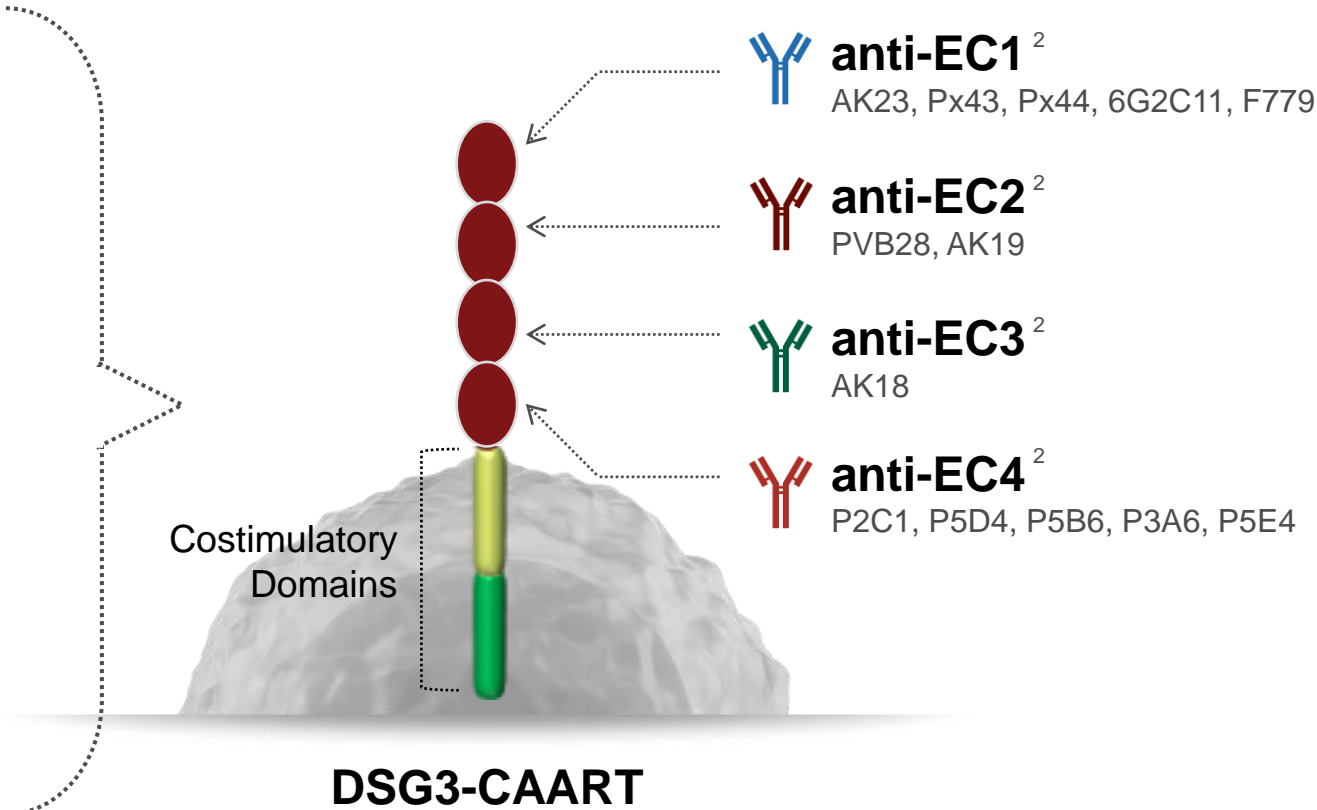
- Response: ~40% of patients achieved a 16-week period with no lesions or medicines during 1 yr^{4,5}
- 22% annual serious adverse event (SAE) rate⁴
 - 4-9%^{3,4,5} annual risk of severe infection in PV
- Real world data indicate:
 - *Transient* remission ~ 70% CROT⁶:
 - ~30% relapse in 1 year⁶
 - >50% relapse within 2 years⁶
 - ~30% never achieve CROT⁶
 - ~1.9% lifetime risk of fatal infection⁷

DSG3-CAART is designed to bind all known pathogenic autoantibodies

Inclusion of all disease-relevant epitopes enables a ‘one-size-fits-all’ approach for patients with mPV



EC5 directed antibodies are not known to be pathogenic³



1. Ohyama, Bungo, et al. "Epitope spreading is rarely found in pemphigus vulgaris by large-scale longitudinal study using desmoglein 2-based swapped molecules." Journal of investigative dermatology 132.4 (2012): 1158-1168.

2. Antibodies that target the specific extracellular domain are shown below each extracellular domain.

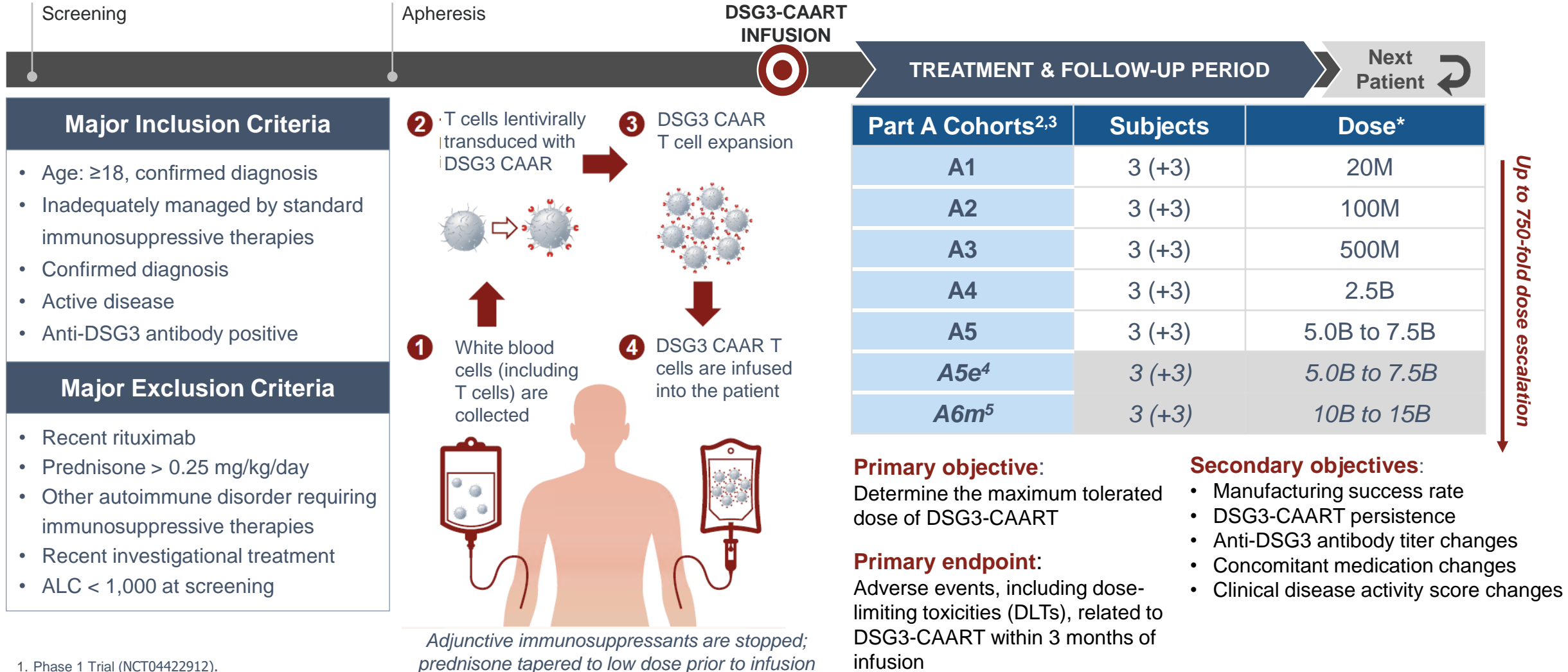
3. Amagai, Masayuki, et al. "Autoantibodies against the amino-terminal cadherin-like binding domain of pemphigus vulgaris antigen are pathogenic." The Journal of clinical investigation 90.3 (1992): 919-926.

DesCAARTes™ Phase 1 study of DSG3-CAART¹

Trial in patients with mPV evaluating up to 750x dose range (20M up to 10-15B cells)

Orphan Drug
Designation

Fast Track
Designation



1. Phase 1 Trial (NCT04422912).

2. FDA has requested, and the Company has agreed, that we will share data from part A to inform a discussion on the optimal design of part C. According to FDA advice, the submission of part A data is not gating to planned enrollment in part B.

3. Cohort progression following A5 (e.g. A5e or A6m) is to be prioritized according to emerging data and discussions with the FDA, as applicable.

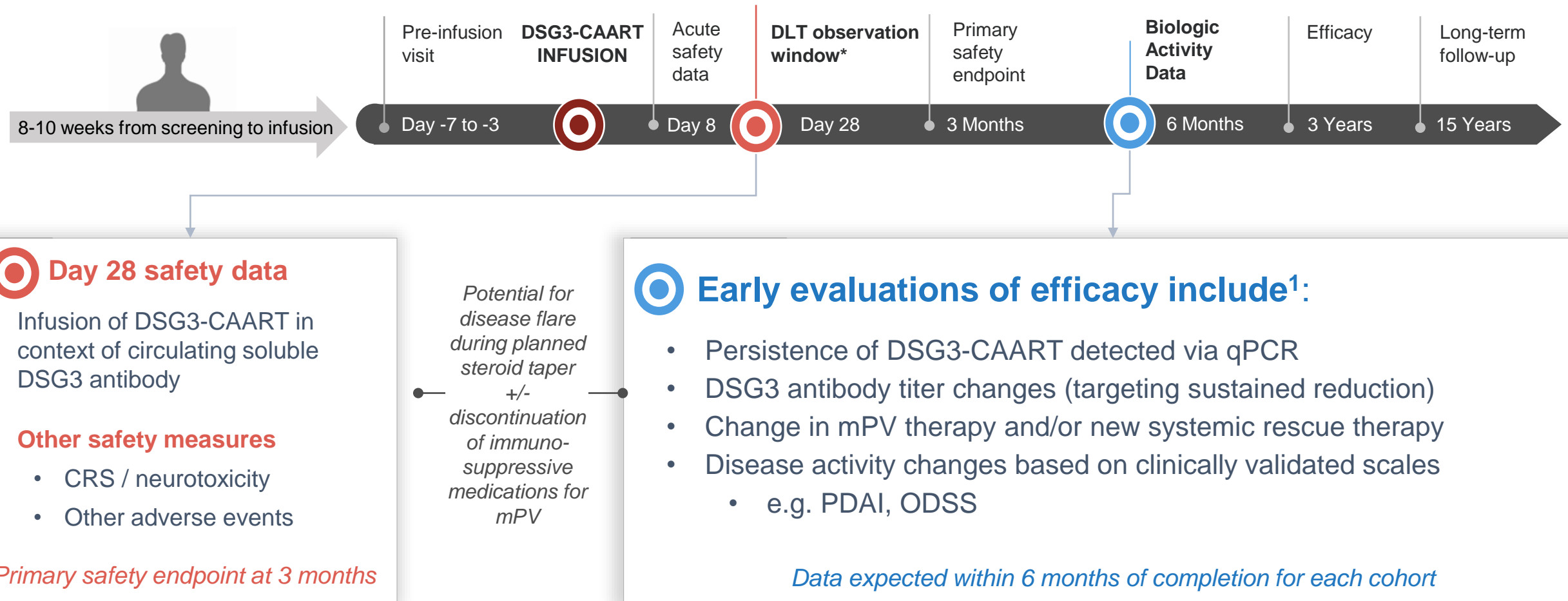
4. Cohort A5e reflects an enhanced manufacturing process designed to amplify the already present cell subtypes in the product in order to potentially improve product potency and trafficking.

5. Cohort A6m reflects a multi-dose regimen where patients will receive a total of 10 to 15 billion cells.

* 20M, 100M, 500M, 2.5B, 5.0B to 7.5B and 10B to 15B refers to the number of DSG3-CAART cells infused for patients in dosing cohorts A1 to A (M – millions; B – billions).

DesCAARTes™ clinical trial assessments & current timeframes

Safety assessed acutely, at 28 days & at 3 months, with data on biologic activity within 6 months



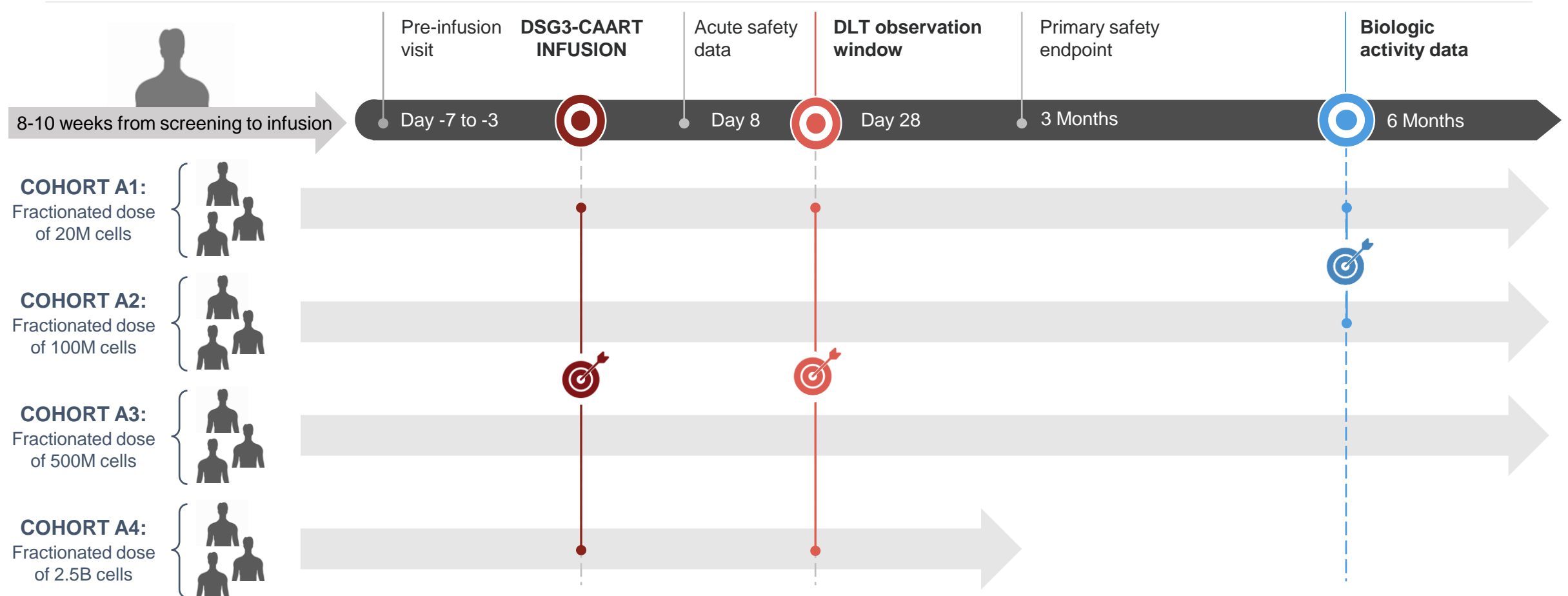
* Clearance of 28-day observation window without DLTs required to initiate next dosing cohort. DLTs include any grade 3 or 4 CRS or neurotoxicity, or any Grade 2 CRS or neurotoxicity that failed to improve to ≤ Grade 1 or baseline within 7 days

1. This information represents data that we believe can be used to inform potential efficacy endpoints in future clinical development.

2. Spindler, Volker, et al. "Mechanisms causing loss of keratinocyte cohesion in pemphigus." Journal of Investigative Dermatology 138.1 (2018): 32-37.

No DLTs observed to date in first 4 cohorts of DesCAARTes™ trial

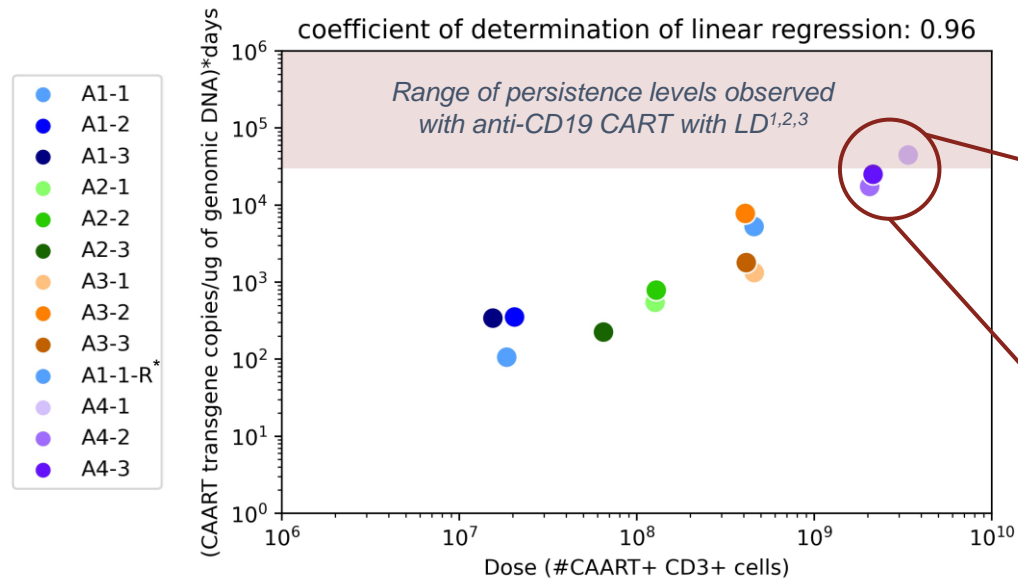
Favorable safety profile at all reported doses of DSG3-CAART, including the 2.5B cell dose cohort



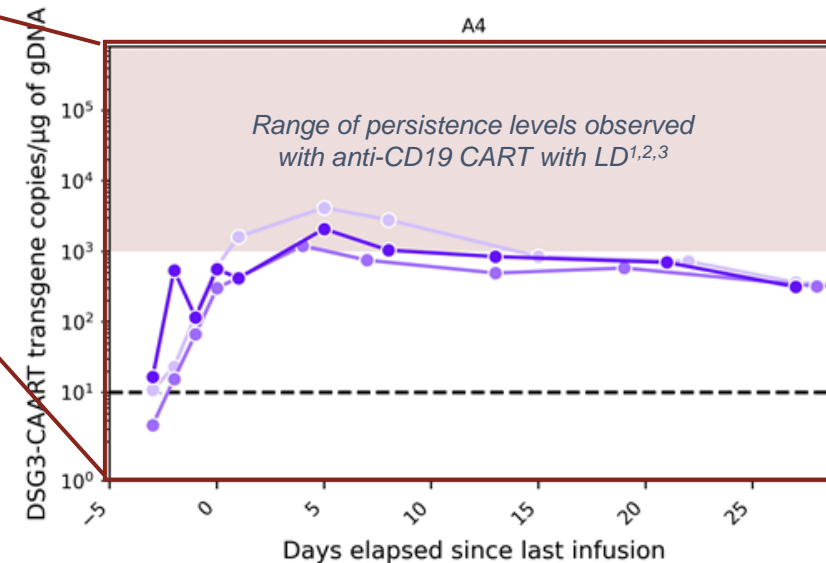
**Cohort A5 (two-split fractionated dose of 5.0-7.5B cells) progressing;
additional clinical data for cohort A4 expected to be provided at a scientific meeting in mid-2022**

Dose-dependent persistence of DSG3-CAART in cohorts A1 to A4

DSG3-CAART persistence in cohort A4 approached levels seen in CART-19 with lymphodepletion in oncology



Persistence in cohort A4 approached the lower end of the range observed with anti-CD19 CART with lymphodepletion in oncology^{1,2,3}



Persistence 'area under the curve' throughout 29 days post infusion was dose dependent

Ongoing & planned cohorts designed to further increase DSG3-CAART exposure

1. Mueller, Karen Thudium, et al. "Cellular kinetics of CTL019 in relapsed/refractory B-cell acute lymphoblastic leukemia and chronic lymphocytic leukemia." Blood, The Journal of the American Society of Hematology 130.21 (2017): 2317-2325.

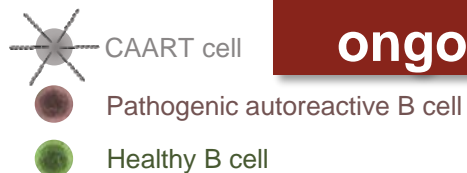
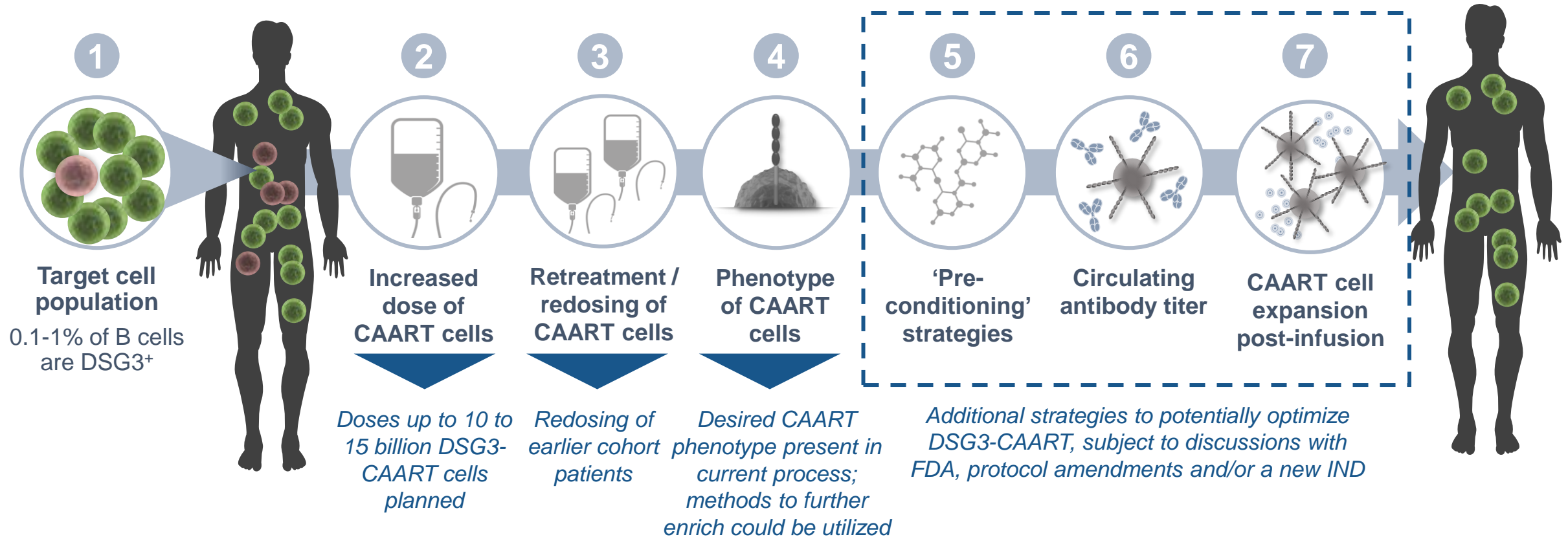
2. Schuster SJ, Bishop MR, Tam CS, et al. Tisagenlecleucel in Adult Relapsed or Refractory Diffuse Large B-Cell Lymphoma. N Engl J Med. 2019;380(1):45-56. doi:10.1056/NEJMoa1804980

3. The range of persistence observed with anti-CD19 CART therapy in oncology has not been confirmed to be necessary or sufficient for clinical responses in patients with mPV.


* A1-1-R refers to a subject in cohort A1 who was retreated at the cohort A3 dose (500 million cells).

Optimizing DSG3-CAART product and patient profiles

Range of strategies to consider for targeted cell therapy approaches in patients with autoimmune diseases



Many options exist to optimize product and patient profiles, ongoing evaluation of strategies to enhance DSG3-CAART exposure



MuSK-CAART for patients with MuSK myasthenia gravis

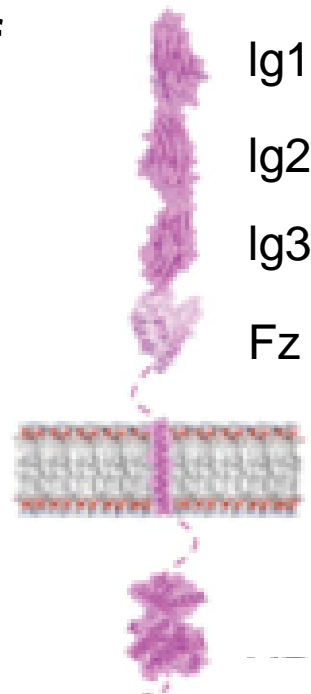
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High unmet need in MuSK myasthenia gravis; a valuable CAAR target

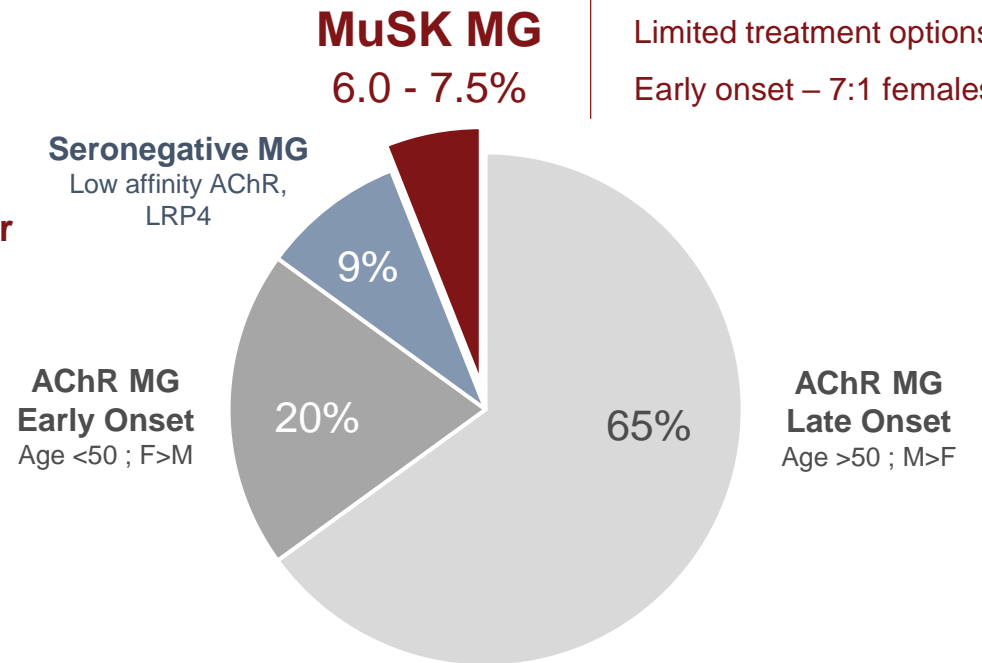
All known extracellular domains can be included in the CAAR design

Similarities to pemphigus support clinical potential of CAAR T in MuSK MG

- 1 IgG4-dominant disease, similar to PV
- 2 Autoantibody titers drop after rituximab^{1,2}
- 3 Pathogenic B cells are incompletely eliminated by rituximab and persist during relapse³



MuSK has similar modular structure and size as DSG3

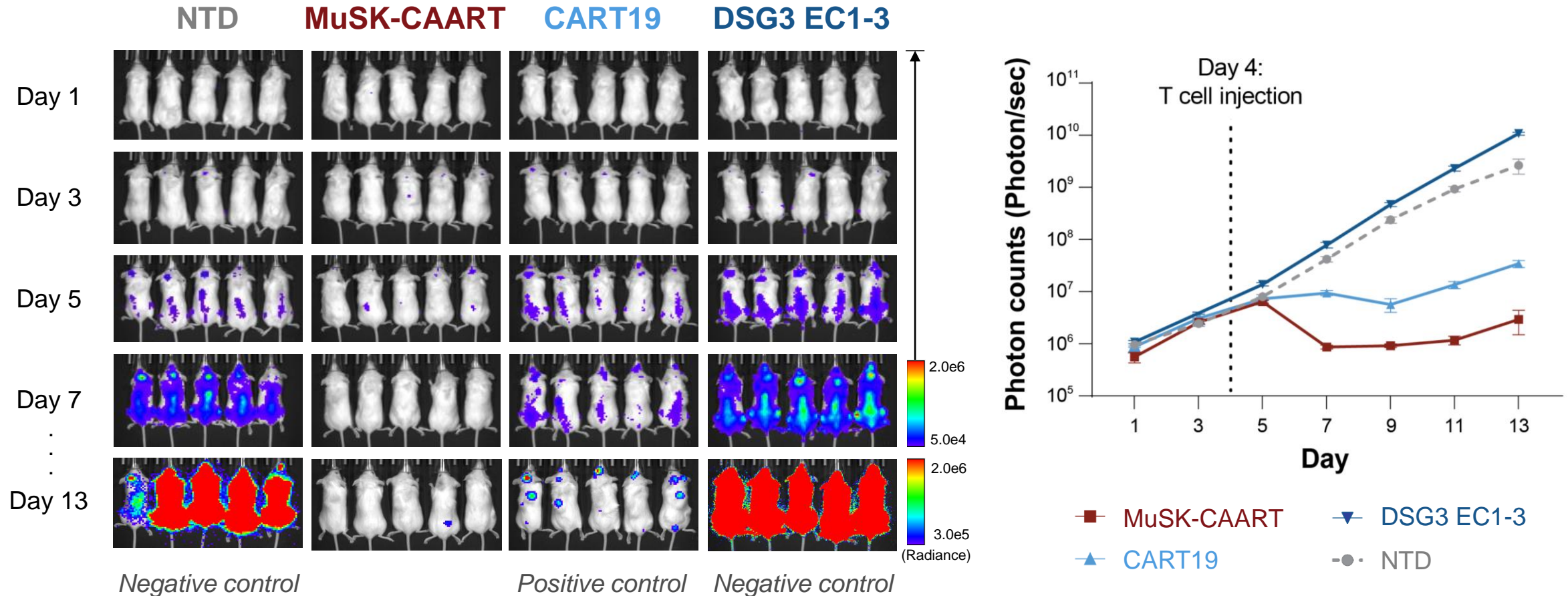


Total US MG Prevalence: 50,000 to 80,000 patients

1. Hain, Berit, et al. "Successful treatment of MuSK antibody-positive myasthenia gravis with rituximab." Muscle & Nerve: Official Journal of the American Association of Electrodiagnostic Medicine 33.4 (2006): 575-580.
2. Illa, Isabel, et al. "Sustained response to Rituximab in anti-AChR and anti-MuSK positive Myasthenia Gravis patients." Journal of neuroimmunology 201 (2008): 90-94.
3. Jiang, Ruoyi, et al. "Single-cell repertoire tracing identifies rituximab-resistant B cells during myasthenia gravis relapses." JCI insight 5.14 (2020).

MuSK-CAART demonstrated specific *in vivo* target engagement¹

MuSK-CAART eliminated anti-MuSK target cells² in an animal model where CART19 cells were a positive control



MuSK-CAART IND open and planning to initiate first-in-human MuSK-CAART trial in 2022

1. <https://cabalettabio.com/technology/posters-publications>; recently presented at AAI Immunology 2022, MGFA International and ASGCT 2022 conferences in May 2022.

2. Target cells represent a B cell tumor line (CD19 positive) that has been modified to express the anti-MuSK antibody.

MusCAARTes™ study of MuSK-CAART

Fast Track
Designation

Strategy for upcoming trial evaluating MuSK-CAART informed by progression of DesCAARTes™ study

Open-label study to determine the maximum tolerated dose & to evaluate safety of MuSK-CAART

Major Inclusion Criteria

- Age: ≥18
- MG severity Class I-IVa
- MGC ≥ 4
- Anti-MuSK antibody positive
- Negative anti-AChR antibody test

Major Exclusion Criteria

- Prednisone > 0.25-0.5 mg/kg/day
- Other autoimmune disorder requiring immunosuppressive therapies

SCREENING

MANUFACTURING

TREATMENT
(SINGLE INFUSION)

MONITORING
(2-4 WEEKS)

Next Patient ↻

2 Single dose rather than fractionation

1 Higher starting dose

Part	Cohort	# Subjects
A – Dose Escalation Increasing dose levels with 2 (+4) design (A1 – 100M*; A2 – 500M*; A3 – 2.5B*)	A1-A3	2 (+4) per cohort
Highest planned selected dose ¹ (A4 – 5 to 7.5B*)	A4	6
B – Expansion Expanded subject enrollment at final selected dose	B	~12

3 versus 3 (+3) design in DesCAARTes™ trial

Study Endpoint & Objectives

Primary Endpoint: Adverse Events, including DLT

Secondary & Tertiary Objectives: CAAR T expansion/persistence, effect on serum anti-MuSK antibody titer, use of concomitant systemic medications, effect on clinical symptoms, manufacturing success rate

* 100M, 500M, 2.5B and 5.0B to 7.5B refers to the number of MuSK-CAART cells infused for patients in dosing cohorts A1 to A4 (M – millions; B – billions).

1. A total of 6 subjects will need to have received the final selected dose in Part A of the study.

A background image showing a doctor in a white coat using a stethoscope on a patient's chest. The image is semi-transparent and serves as a backdrop for the text.

PLA2R-CAART for patients with PLA2R-associated membranous nephropathy

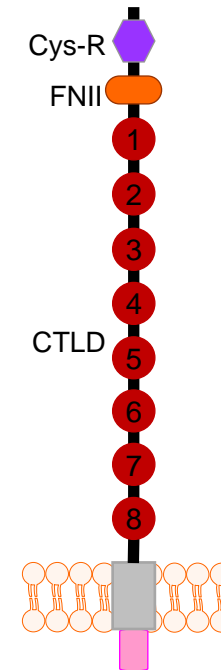
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Preclinical stage CAART program in membranous nephropathy

Primary MN is an immune-mediated kidney disease with anti-PLA2R antibodies in ~75% of patients

Accumulating evidence of a correlation between PLA2R antibodies and disease activity, remission and relapse in primary MN

- 1 PLA2R autoantibody levels routinely used as diagnostic and prognostic markers
- 2 Autoantibody titer shown to rise rapidly before clinical manifestations
- 3 Co-localization of antigen & PLA2R antibodies at site of damage in kidney



PLA2R+ MN is attractive for CAAR development

- > Epitopes are well-defined
- > IgG4-dominant disease, similar to PV and MuSK MG
- > Eligible US population
 - prevalence of ~4,000-8,000;
 - incidence of ~700-1,400 / yr

PLA2R-CAART showed *in vitro* antigen-specific cytotoxicity¹

- PLA2R CAARs demonstrated activity in the presence of physiologic levels of anti-PLA2R autoantibodies
- Candidate CAAR contains targets that bind >95% of anti-PLA2R autoantibodies
- Demonstrated no off-target binding interactions in membrane protein array



Manufacturing

Cabaletta Bio[®]

Manufacturing strategy

Three-stage approach allows for efficient allocation of capital while leveraging experienced partners



1. Penn-sponsored CD19 CAR IND CMC data has been cross-referenced in DSG3-CAART IND to provide additional data reflecting alignment; cross reference not required for MuSK-CAART IND.



Corporate Summary

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Cabaletta Bio leadership

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President, CEO & Chairman



Samik Basu, M.D.
Chief Scientific Officer



Gwendolyn Binder, Ph.D.
President, Science & Technology



David J. Chang, M.D., M.P.H.
Chief Medical Officer



Arun Das, M.D.
Chief Business Officer



Michael Gerard
General Counsel



Heather Harte-Hall
Chief Compliance Officer



Anup Marda
Chief Financial Officer



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Drew Weissman, M.D., Ph.D.

Iain McInnes, Ph.D., FRCP, FRSE, FMedSci

Multiple potential data catalysts with possible pipeline read-through

➤ DesCAARTes™ trial ongoing: Currently progressing cohort A5 (5.0-7.5B cells)

- Data presented at ASGCT 2022 demonstrate dose-dependent increase in persistence
 - Cohort A4 persistence approached the lower end of the range seen in anti-CD19 CART with LD in oncology^{1,2,3}
 - Demonstrated a favorable safety profile in cohorts A1 to A4
- Additional data from the DesCAARTes trial anticipated at scientific meetings in mid-2022
 - Clinical and translational data for cohort A4⁴
 - 28-day safety data for cohort A5⁴
- Multiple additional planned cohorts designed to enhance DSG3-CAART exposure

➤ MuSK-CAART: Plan to initiate first-in-human trial in 2022; received FDA Fast Track Designation

Expanding network of academic & industry partners



1. Mueller, Karen Thudium, et al. "Cellular kinetics of CTL019 in relapsed/refractory B-cell acute lymphoblastic leukemia and chronic lymphocytic leukemia." Blood, The Journal of the American Society of Hematology 130.21 (2017): 2317-2325.

2. Schuster SJ, Bishop MR, Tam CS, et al. Tisagenlecleucel in Adult Relapsed or Refractory Diffuse Large B-Cell Lymphoma. N Engl J Med. 2019;380(1):45-56. doi:10.1056/NEJMoa1804980

3. The range of persistence observed with anti-CD19 CART therapy in oncology has not been confirmed to be necessary or sufficient for clinical responses in patients with mPV.

4. Assumes no dose-limiting toxicities are observed during each cohort, uninterrupted enrollment and no delays due to COVID-19 resurgence occur in the trial.

* 20M, 100M, 500M, 2.5B, 5.0B to 7.5B and 10B to 15B refers to the number of DSG3-CAART cells infused for patients in dosing cohorts A1 to A6m (M – millions; B – billions).

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A microscopic view of several cells, likely cancer cells, with prominent red nuclei. The cells are shown in various stages of focus, with one cell in the foreground being sharp and others in the background being blurred.

Corporate Presentation

MAY 2022