



Investor Relations Event at the 64<sup>th</sup> ASH Annual Meeting

December 11, 2022



# Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended and Section 21E of the Securities Exchange Act of 1934, as amended, that are based on our management's beliefs and assumptions and on information currently available to our management. All statements other than statements of historical facts contained in this presentation, including statements regarding the anticipated completion of our proposed collaboration with Kite and the proposed concurrent equity investment by Kite; the potential benefits, value, synergies and results that may be achieved through the proposed collaboration; the anticipated payments that may be received by us in connection with the collaboration, including potential milestones and royalties; our and Kite's respective rights and obligations under the transaction agreements; expectations of our ability to benefit from Kite's capabilities, including operational, manufacturing and commercialization expertise and infrastructure; expected costs and expenses to be incurred and shared with Kite; our future financial condition, results of operations, business strategy, operations, timelines and prospects; the potential of and expectations regarding our product candidates and programs; the mission, plans and objectives of management; industry trends, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "anticipate," "believe," "can," "contemplate," "continue," "could," "design," "estimate," "expect," "imagine," "intend," "likely," "may," "might," "objective," "ongoing," "plan," "potential," "predict," "project," "should," "target," "will" or "would," or the negative of these terms or other similar expressions or other comparable terminology are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy and financial needs, and these statements represent our views as of the date of this presentation. We may not actually achieve the plans, intentions or expectations disclosed in these forward-looking statements, and you should not place undue reliance on these forward-looking statements. Forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified. Information regarding certain risks, uncertainties and assumptions may be found in our filings with the Securities and Exchange Commission. New risk factors emerge from time to time and it is not possible for our management team to predict all risk factors or assess the impact of all factors on the business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in, or implied by, any forward-looking statements. While we may elect to update these forward-looking statements at some point in the future, we specifically disclaim any obligation to do so. These forward-looking statements should not be relied upon as representing our views as of any date subsequent to the date of this presentation.

This presentation discusses product candidates that are under preclinical or clinical evaluation and that have not yet been approved for marketing by the U.S. Food and Drug Administration or any other regulatory authority. The presentation also includes select interim and preliminary results from an ongoing clinical trial as of specific data cutoff dates. Such results should be viewed with caution as final results may differ as additional data becomes available. Until finalized in a clinical study report, clinical trial data presented herein remain subject to adjustment as a result of clinical site audits and other review processes. No representation is made as to the safety or effectiveness of these product candidates for the use for which such product candidates are being studied.

This presentation also contains estimates and other statistical data made by independent parties or publicly available information, as well as other information based on our internal sources. These data involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. We have not independently verified the accuracy or completeness of the data contained in these industry publications and other publicly available information. Accordingly, we makes no representations as to the accuracy or completeness of that data.



# Agenda

## Opening Remarks

**Rami Elghandour** 15 Minutes  
Chairman and Chief Executive Officer, Arcellx

## Phase I Study of CART-ddBCMA: A CART-Therapy Utilizing a Novel Synthetic Binding Domain for the Treatment of Subjects with Relapsed or Refractory Multiple Myeloma

**Matthew J. Frigault, M.D., M.S.** 15 Minutes  
CART-ddBCMA and ACLX-001 Clinical Study Investigator, Assistant Director of the Cellular Therapy Service at Mass General Cancer Center and Instructor at Harvard Medical School

## Panel Discussion and Q&A

Panelists 45 Minutes  
**Matthew J. Frigault, M.D., M.S.**

**Krina K. Patel, M.D., M.Sc.**  
Associate Professor, Department of Lymphoma/Myeloma, Division of Cancer Medicine at the University of Texas MD Anderson Cancer Center

Moderator:  
**Chris Heery, M.D.**  
Chief Medical Officer, Arcellx

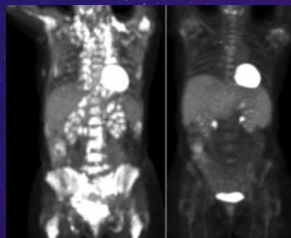


# Reimagining Cell Therapy



## Novel Synthetic Binding Domain

Single-infusion ddCAR and dosable, controllable ARC-SparX platforms



## Positive Preliminary Clinical Results

Demonstrated 100% overall response rate and deep durability in multiple myeloma Phase 1 study.

Pivotal study enrolling



## Partnered Lead Program

Combining potential best in class program with Kite's commercial and manufacturing expertise

| Indication                        | Platform | Phase 1             | Stage of Development |           |           | Approved  |
|-----------------------------------|----------|---------------------|----------------------|-----------|-----------|-----------|
|                                   |          |                     | Phase 2              | Phase 3   | Phase 4   |           |
| Clinical and Preclinical Pipeline |          |                     |                      |           |           |           |
| Multiple Myeloma                  | ARCC     | ARCC-101 (ARCC-101) | Completed            | Completed | Completed | Completed |
|                                   | ARCC     | ARCC-102 (ARCC-102) | Completed            | Completed | Completed | Completed |
|                                   | ARCC     | ARCC-103 (ARCC-103) | Completed            | Completed | Completed | Completed |
| AML/MDS                           | ARCC     | ARCC-104 (ARCC-104) | Completed            | Completed | Completed | Completed |
|                                   | ARCC     | ARCC-105 (ARCC-105) | Completed            | Completed | Completed | Completed |
|                                   | ARCC     | ARCC-106 (ARCC-106) | Completed            | Completed | Completed | Completed |
| Solid Tumors                      | ARCC     | ARCC-107 (ARCC-107) | Completed            | Completed | Completed | Completed |
|                                   | ARCC     | ARCC-108 (ARCC-108) | Completed            | Completed | Completed | Completed |

## Platform Potential

ARC-SparX Phase 1 clinical trial in multiple myeloma initiated in 2Q22

ARC-SparX Phase 1 clinical trial in acute myelogenous leukemia / myelodysplastic initiated in 4Q22



## Built for Success

Strong investor base

Exceptional team

Wholly owned IP

Well capitalized





# Maximizing the Value of MM Opportunity with Kite Partnership



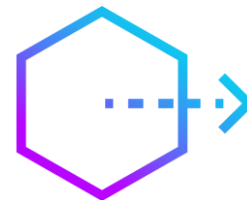
## Positioned for Leadership in CAR-T Space

- ▶ Combining a potential best-in-class therapy with Kite's operational capabilities
- ▶ Proven manufacturing and commercial infrastructure with global cell therapy leader, Kite
- ▶ Leveraging synergies across both companies to accelerate patient access



## Global Collaboration

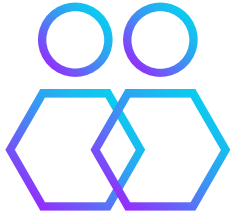
- ▶ Co-development and co-commercialization of CAR-T ddBCMA with split profits in the U.S.
- ▶ Arcellx to receive low to mid-teen royalties ex-U.S.
- ▶ Arcellx and Kite to collaborate on next generation autologous and non-autologous programs incorporating ddBCMA
- ▶ Kite to have exclusive option rights to ARC-SparX programs targeting BCMA or CSI for use in myeloma



## Long-term Value

- ▶ Arcellx to receive \$225M upfront payment and \$100M equity investment
- ▶ Kite will manufacture following tech transfer and bear the CMC commercial readiness costs
- ▶ Arcellx will continue to independently progress its development pipeline for new product candidates beyond myeloma
- ▶ Arcellx is well capitalized to fund operations through BLA filing

# Kite – The Cell Therapy Partner of Choice



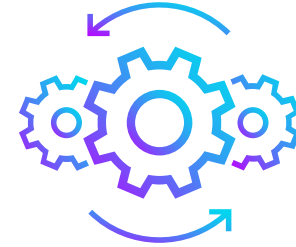
## Manufacturing

- ▶ Largest dedicated in-house global cell therapy manufacturing network
- ▶ Investing in internal vector development and manufacturing
- ▶ 96% manufacturing success rate
- ▶ 16-day median turnaround time in U.S.
- ▶ Continues to increase its manufacturing network capacity to meet demand



## Commercial

- ▶ More than 11,000 patients treated (clinical trial and commercial patients)
- ▶ +315 ATCs globally with leading support hub: Kite Konnect®
- ▶ 5 indications launched in multiple geographies
- ▶ CAR-T reimbursement in more than 20 countries
- ▶ Gilead commercial operations in over 40 countries worldwide



## Pipeline Investment

- ▶ Kite may integrate complementary technologies with Arcellx's platform to create next-generation autologous and allogenic candidates across various cell types

# Kite Partnership Summary

- ▶ **Topline economics:**
  - Total upfront consideration: \$325Mn
    - ▶ Upfront payment: \$225Mn
    - ▶ Equity Investment (3,478,261 shares): \$100Mn
  - Contingent milestones across all programs
    - ▶ Up to \$335M, \$635M and \$508M for each ddBCMA, next-generation autologous, and non-autologous product, respectively
  - Royalties in tiered, low-to-mid-teens percentages for co-promote products outside the US and for non-co-promote products worldwide (including next-gen autologous products if Arcellx does not elect to co-promote)
- ▶ **For Co-promote products, including CART-ddBCMA and any next-generation autologous products that Arcellx elects to co-promote:**
  - **Development:**
    - ▶ Joint development
    - ▶ Arcellx will continue to run iMMagine-1 pivotal trial
    - ▶ Out-of-pocket development costs will be shared (including clinical manufacturing costs):
      - 50/50 in the US
      - 40/60 (Arcellx/Kite) outside the US, only for global studies
      - Kite will be solely responsible for the costs for country-specific clinical studies outside the US
  - **CMC (commercial readiness):**
    - ▶ Kite will solely bear the CMC commercial readiness costs and any associated capital expenses
    - ▶ Following tech transfer, Kite will manufacture
  - **Commercialization:**
    - ▶ In the US, Arcellx and Kite will be jointly responsible for commercialization
    - ▶ In the US, from time of commercialization, Arcellx and Kite will equally share profits and losses from directly-related myeloma commercialization activities
    - ▶ Outside the US, Kite will be responsible (at its sole cost) for commercialization activities


# Partnership Structure Creates Value While Maximizing Runway

- ▶ **Limiting outflows of capital related to CMC:** CMC commercial readiness are borne by Kite; leveraging Kite's prior investments in CMC helps us realize downstream benefits in COGS and timelines to scale-up to meet demand
- ▶ **Reducing costs prior to commercialization:** Cost split for development includes Kite and Arcellx each contributing to funding 50% of-out-of-pocket costs in the US, including 50% of iMMagine-1
- ▶ **Managing P&L while leveraging Kite infrastructure:**
  - Cost split for development is limited to out-of-pocket costs and batch costs for clinical manufacturing
  - Cost split for commercial is limited to only directly-related myeloma activities with defined expense categories
- ▶ **Accelerating global timelines:** Utilizing existing Kite infrastructure to achieve quicker access to ex-US markets at tiered low-to-mid teen royalty rates without any upfront Arcellx investments required to build global infrastructure
- ▶ **Maximizing Cash runway:** Along with upfront cash infusion and reducing CapEx, other mechanisms are built into both stretch our runway and limit development and commercial expenses





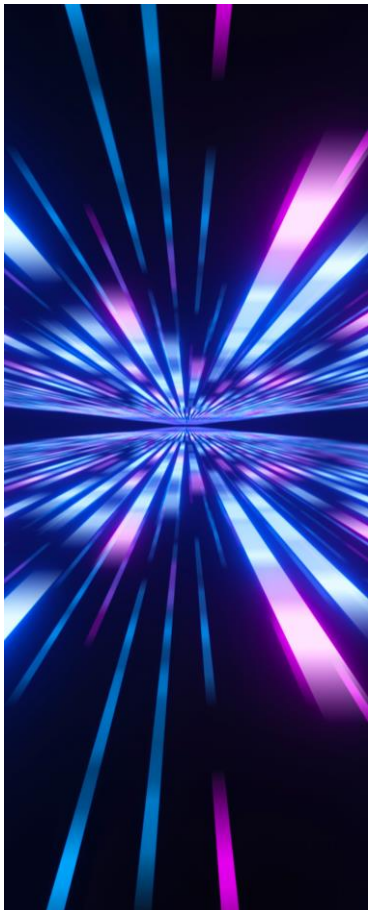
# A Rich Development Pipeline with Growth in Mind









| Stage of Development              |           |  |         |         |         |   |
|-----------------------------------|-----------|--|---------|---------|---------|---|
| Indication                        | Platform  | Discovery/<br>Preclinical                | Phase 1 | Phase 2 | Phase 3 | Partnered   |
| Clinical and Preclinical Pipeline |           |  |         |         |         |   |
| Multiple Myeloma                  | ddCAR     | iMMagine-1 pivotal/ CART-ddBCMA          |         |         |         |  |
|                                   | ddCAR     | iMMagine-2 (earlier lines) / CART-ddBCMA |         |         |         |   |
|                                   | ARC-SparX | ACLX-001: BCMA *                         |         |         |         |   |
| AML/MDS                           | ARC-SparX | ACLX-002: CD123                          |         |         |         |   |
|                                   | ARC-SparX | ACLX-003                                 |         |         |         |   |
| Solid Tumors                      | ARC-SparX | SCLC                                     |         |         |         |   |
|                                   | ddCAR     | HCC                                      |         |         |         |   |

\*Kite retains an option for select ARC-SparX programs in multiple myeloma



# 2022 Achievements and Upcoming Milestones



| Multiple Myeloma   |   | Projected Date  |
|--|---|---|
| <b>ddCAR</b> - FDA End-of-Phase 1 meeting                              | ▶ | 4Q21   |
| <b>ddCAR</b> - ASH 2021 Data Update                                    | ▶ | 4Q21   |
| <b>ARC-SparX</b> - Initiate Phase 1 Enrollment in ACLX-001             | ▶ | 1H22   |
| <b>ddCAR</b> - Present Data Update                                     | ▶ | 1H22   |
| <b>ddCAR</b> - Present Data Update                                     | ▶ | Q422   |
| <b>ddCAR</b> - Initiate Pivotal Study                                  | ▶ | YE22   |
| <b>ddCAR</b> - Partnered lead clinical program with Kite               | ▶ | YE22   |
| <b>ARC-SparX</b> - Present interim clinical data from ACLX-001         | ▶ | 2023  |
| <b>ddCAR</b> - Initiate iMMagine-2, earlier line clinical trial        | ▶ | 2023  |
| <b>ddCAR</b> - Anticipated BLA filing for the treatment of BCMA        | ▶ | 1H25  |
| AML/MDS  |   | Projected Date  |
| <b>ARC-SparX</b> - Initiate ACLX-002 Phase 1 clinical trial in AML/MDS | ▶ | 2H22  |





# Abstract 3313

## Phase 1 Study of CART- ddBCMA for the Treatment of Subjects with Relapsed and/or Refractory Multiple Myeloma

*Matthew Frigault, MD, MS<sup>1</sup>, Jacalyn Rosenblatt, MD<sup>2</sup>, Binod Dhakal, MBBS<sup>3</sup>, Noopur Raje, MD<sup>4</sup>, Daniella Cook, BS<sup>5\*</sup>, Mahmoud R. Gaballa, MD<sup>6</sup>, Estelle Emmanuel-Alejandro<sup>7\*</sup>, Danielle Nissen<sup>8\*</sup>, Christine Cornwell<sup>9\*</sup>, Kamalika Banerjee<sup>9\*</sup>, Anand Rotte, PhD<sup>9\*</sup>, Christopher R. Heery, MD<sup>9</sup>, David Avigan, MD<sup>10</sup>, Andrzej Jakubowiak, MD, PhD<sup>11</sup> and Michael R. Bishop, MD<sup>12</sup>*



# Background and Methods

CART-ddBCMA is an autologous CAR-T containing a novel synthetic protein<sup>1,2</sup> binding domain (non-scFv) engineered to reduce the risk of immunogenicity and is highly stable

Phase 1 first-in-human trial has completed enrollment of relapsed and/or refractory myeloma

- Prior IMiD, PI, and CD38-targeted therapy required
- Received ≥3 prior therapies or triple refractory

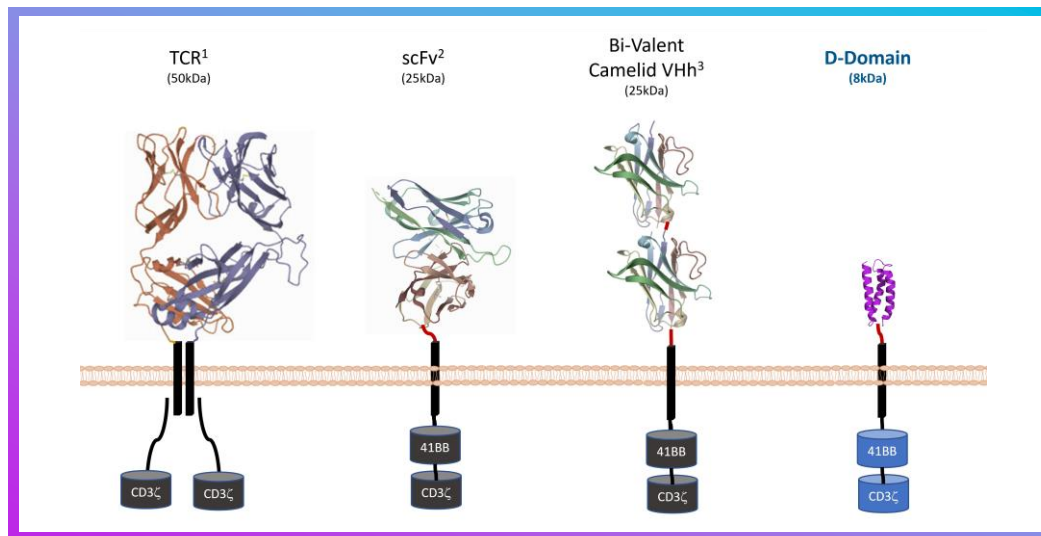
2 Dose Levels evaluated, 6 subjects in each dose escalation cohort

- DL1 = 100 x 10<sup>6</sup> CAR+ cells;
- DL2 = 300 x 10<sup>6</sup> CAR+ cells

Expansion cohort is enrolled at DL1

<sup>1</sup>Rotte, et al. "BCMA targeting CAR T cells using a novel D-domain binder for multiple myeloma: clinical development update." *Immuno-Oncology Insights* 2022; 3(1), 13-24

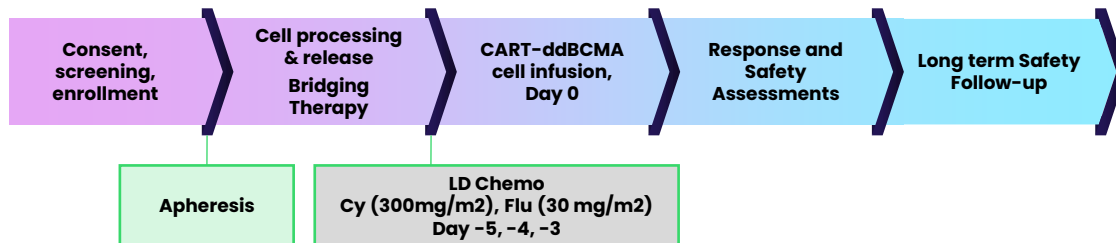
<sup>2</sup>Frigault et al. "Phase 1 Study of CART-ddBCMA for the treatment of subjects with relapsed and refractory Multiple Myeloma." *Blood Advances* 2022; bloodadvances.2022007210. doi: <https://doi.org/10.1182/bloodadvances.2022007210>.



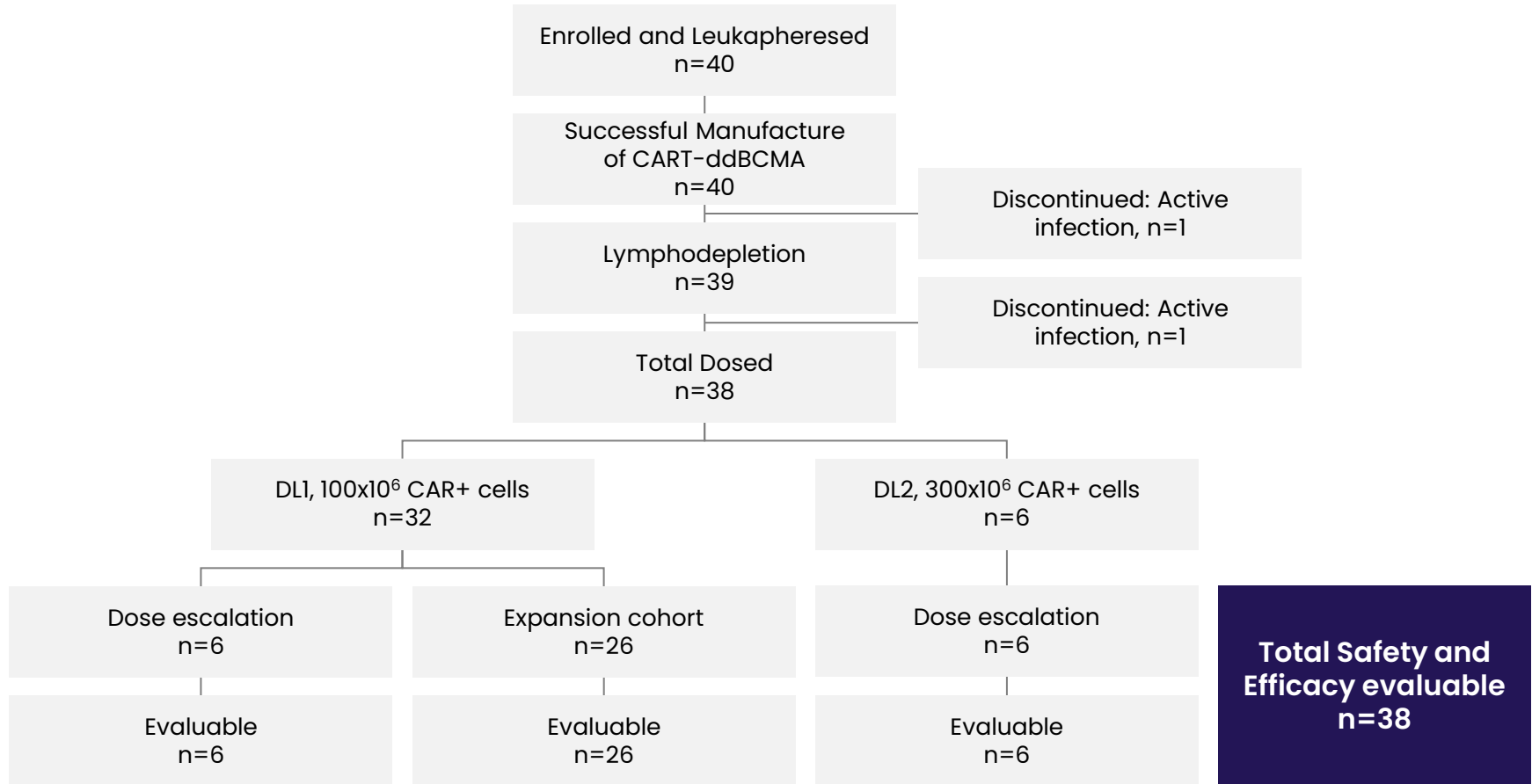
<sup>1</sup> Chan, KF. et al. 2018., Nat Commun 9:1026-1026

<sup>2</sup> Bjerragaard-Anderson, K., et al 2018. Sci. Rep., 8:10836-10836.

<sup>3</sup> [https://commons.wikimedia.org/wiki/File:1l3v\\_\(Lama\\_VHH\\_domain\\_unligated\).png#file](https://commons.wikimedia.org/wiki/File:1l3v_(Lama_VHH_domain_unligated).png#file)



# Patient Disposition



# Patient Demographics (as of 31 Oct 2022)

| Characteristics                               | Dose Level 1<br>100 million CAR-T<br>(n=32) | Dose Level 2<br>300 million CAR-T<br>(n=6) | Total<br>(n=38)                  |
|---|---|--|----------------------------------|
| Age, median (min - max)                       | 66 (44 - 76)                                | 60 (52 - 65)                               | 66(44 - 76)                      |
| Gender  | 18 Male (56%)<br>14 Female (44%)            | 5 Male (83%)<br>1 Female (17%)             | 23 Male (61%)<br>15 Female (39%) |
| ECOG PS*                                      |   |  |                                  |
| 0   | 9/32 (28%)                                  | 3/6 (50%)                                  | 12/38(32%)                       |
| 1   | 23/32 (72%)                                 | 3/6 (50%)                                  | 26/38 (68%)                      |
| High Risk Prognostic Feature                  | 16/32 (50%)                                 | 6/6 (100%)                                 | 22/38 (58%)                      |
| BMPC ≥60%                                     | 6/32 (19%)                                  | 3/6 (50%)                                  | 9/38 (24%)                       |
| ISS Stage III (B2M ≥ 5.5)                     | 3/32 (9%)                                   | 2/6 (33%)                                  | 5/38 (13%)                       |
| Extra-medullary disease                       | 10/32 (31%)                                 | 3/6 (50%)                                  | 13/38 (34%)                      |
| High Risk Cytogenetics**                      | 9/32 (28%)                                  | 2/6 (33%)                                  | 11/38 (29%)                      |
| Prior Lines of Therapy,<br>Median (min - max) | 5 (3 - 7)                                   | 4 (3 - 16)                                 | 4 (3 - 16)                       |
| Triple refractory***                          | 32/32 (100%)                                | 6/6 (100%)                                 | 38/38 (100%)                     |
| Penta refractory                              | 21/32 (66%)                                 | 5/6 (83%)                                  | 26/38 (68%)                      |
| IgG myeloma                                   | 19  | 5  | 24                               |
| IgA myeloma                                   | 6   | 0  | 6                                |
| Light chain only                              | 5   | 1  | 6                                |

\*Eastern Cooperative Oncology Group Performance Status Scale

\*\*Defined as Del 17p, t(14;16), t(4;14).

\*\*\*Note: modified from ASCO 2022 due to data cleaning efforts.

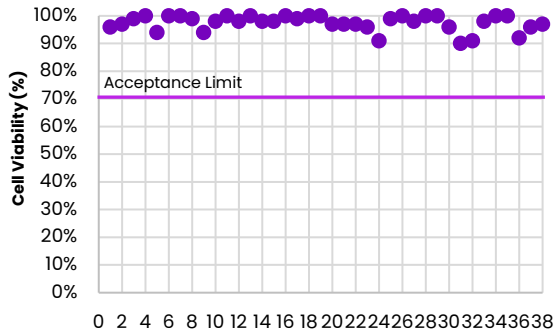




# CART-ddBCMA Manufacturability: Reliable Process, Consistent Product

## 100% of initiated cell product runs released to date

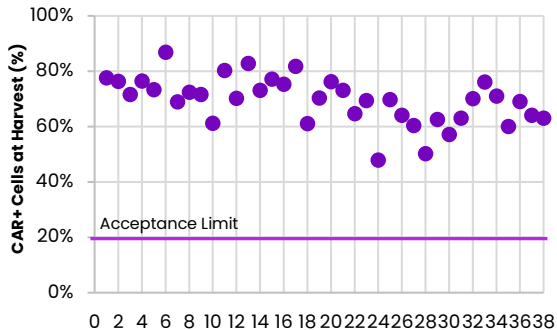
### Cell Viability



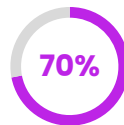
**High cell viability:  
median 98%  
viable cells**



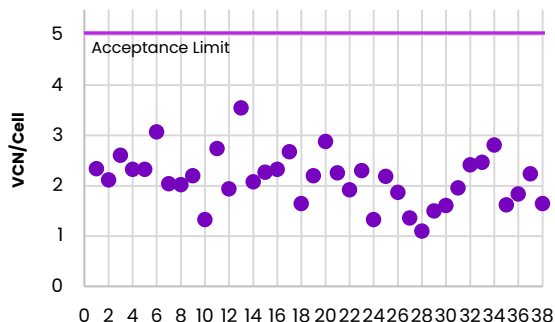
### CAR Positivity



**Low inter-patient  
variability in CAR+  
cells: median 70%  
CAR+ cells**

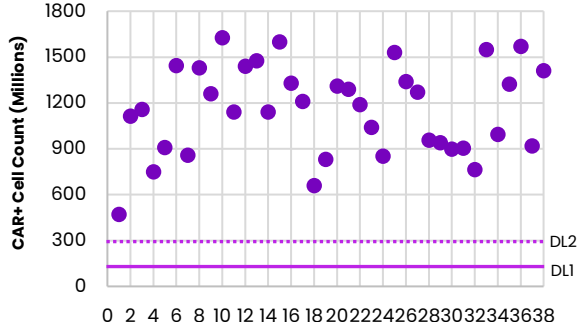


### Vector Copy Number



**Low inter-patient  
variability in CAR  
expression/cell:  
median 2.2  
copies/cell**

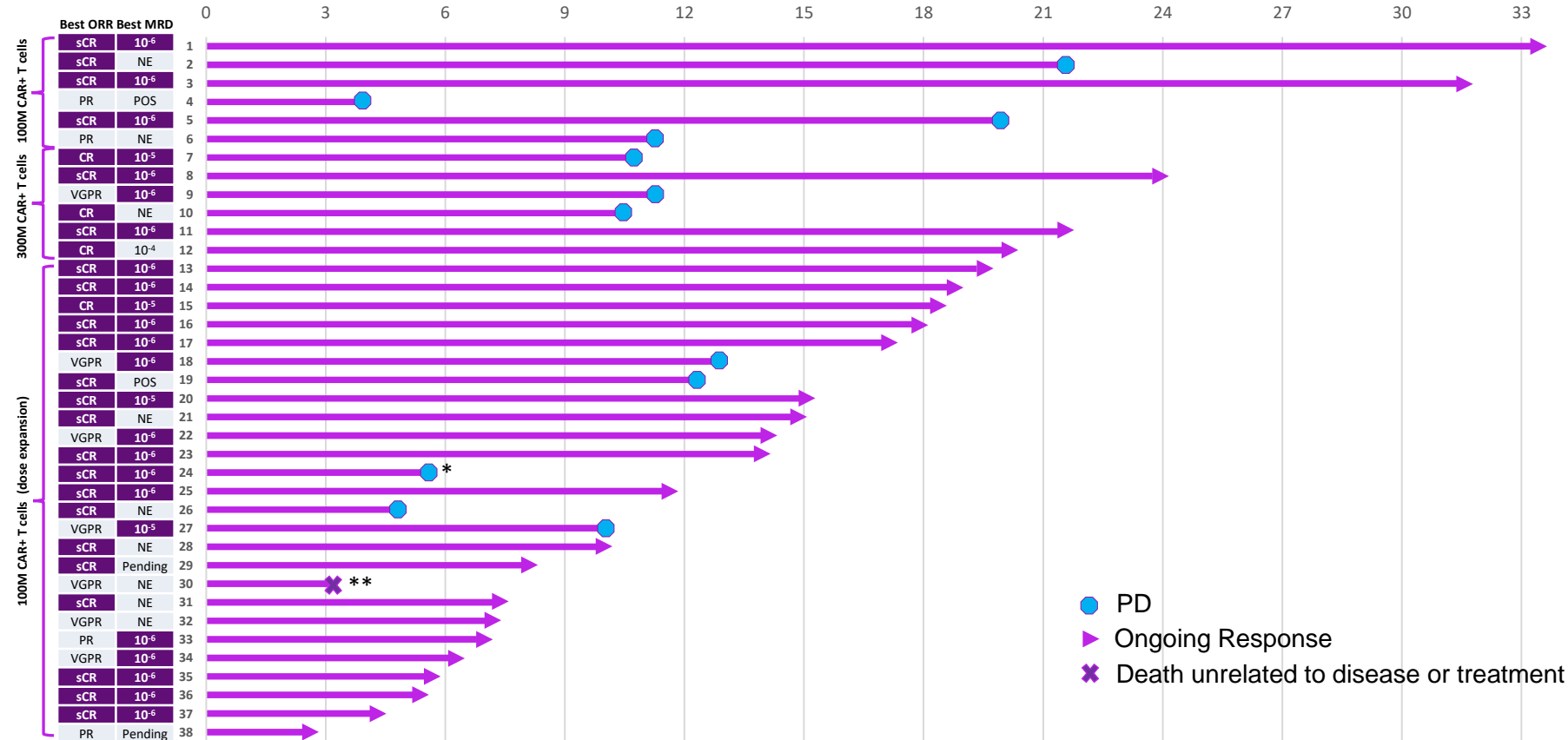
### Total Manufactured Cells



**High yield:  $\geq 3$   
doses of DL1 can  
be administered  
from a single  
manufacture run**



# Potential for Best-in-Class Treatment



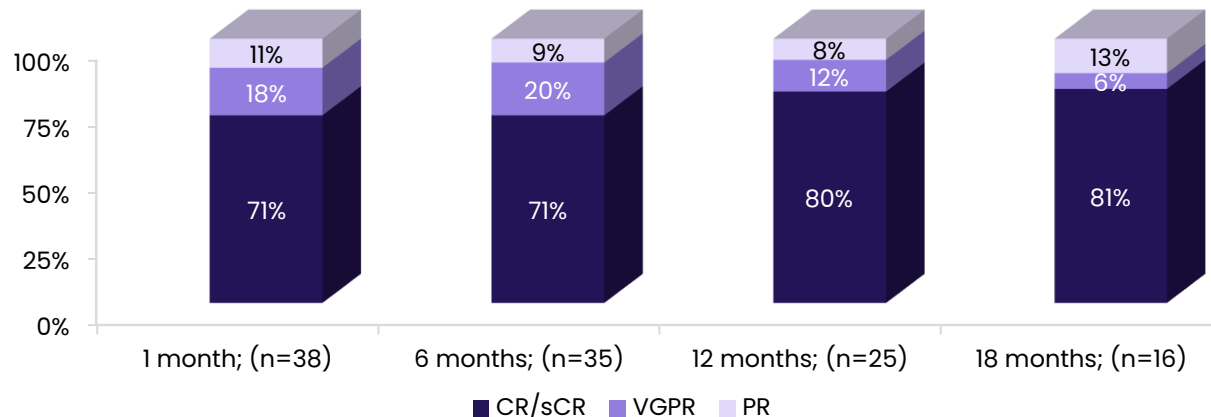
\*Patient initiated subsequent therapy prior to official PD.

\*\*Subject 30 died of cardiac arrest secondary to drug overdose.

MRD abbreviations: NE = not evaluable, failed calibration; POS = positive; Pending = sample being analyzed



# CART-ddBCMA Responses Deepen Over Time



| Minimum months since infusion (M) | 1        | 6        | 12       | 18       |
|-----------------------------------|----------|----------|----------|----------|
| Sample Size (n)*                  | 38       | 35       | 25       | 16       |
| Median Follow-up (mo)             | 15.0     | 16.4     | 18.9     | 22.9     |
| High Risk Features** # (%)        | 22 (58%) | 21 (60%) | 19 (76%) | 13 (81%) |
| ORR                               | 100%     | 100%     | 100%     | 100%     |
| CR/sCR rate***                    | 27 (71%) | 25 (71%) | 20 (80%) | 13 (81%) |

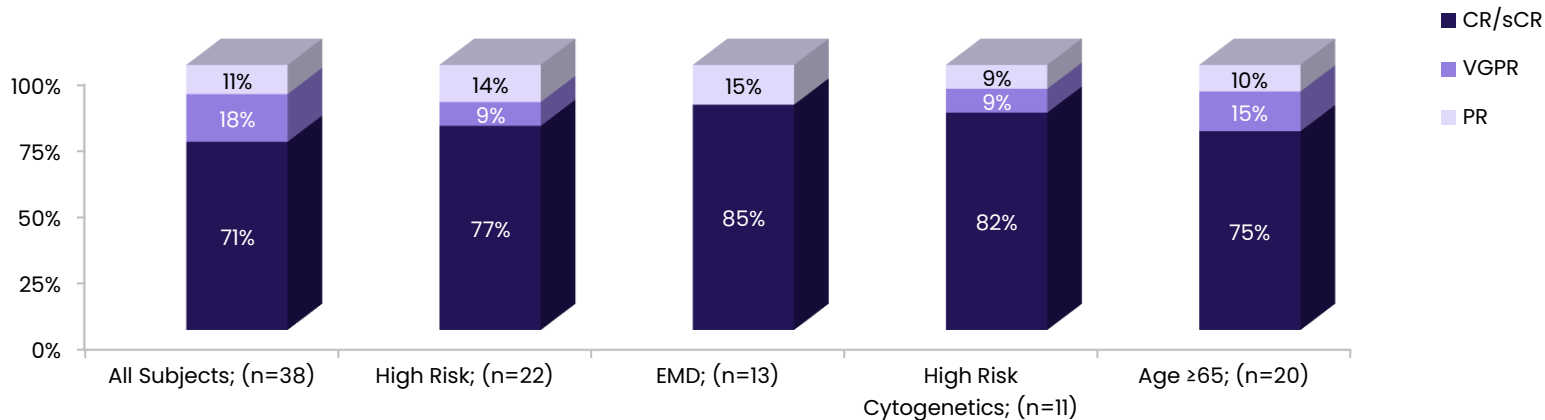
\*Includes patients who were dosed at least M months prior or have had follow visit at Mth-month as of 11/22/22.

\*\*High risk features defined as presence of EMD, BMPC  $\geq$  60, or B2M  $\geq$  5.5

\*\*\*Calculated using number of patients who reached CR/sCR divided by number treated at least 1, 6, 12, or 18 months prior



# Responses in Subgroups



|                                | Patients n (%) | 6-month PFS % (95% ci) | 12-month PFS % (95% ci) | 18-month PFS % (95% ci) |
|--------------------------------|----------------|------------------------|-------------------------|-------------------------|
| <b>Overall</b>                 | 38 (100%)      | 91.8% (76.7%, 97.2%)   | 72.7% (52.2%, 85.5%)    | 64.6% (43.7%, 79.4%)    |
| <b>≥ 65 years</b>              | 20 (52.6%)     | 95.0% (69.4%, 99.3%)   | 82.3% (54.3%, 94.0%)    | 75.4% (46.7%, 90.1%)    |
| <b>Complete Responders</b>     | 27 (71.1%)     | 96.2% (75.7%, 99.4%)   | 86.0% (62.3%, 95.3%)    | 80.7% (55.9%, 92.4%)    |
| <b>High Risk Features*</b>     | 22 (57.9%)     | 90.5% (67.0%, 97.5%)   | 69.2% (43.7%, 84.9%)    | 63.4% (38.0%, 80.7%)    |
| <b>Extramedullary disease</b>  | 13 (34.2%)     | 91.7% (53.9%, 98.8%)   | 64.2% (30.2%, 84.8%)    | 64.2% (30.2%, 84.8%)    |
| <b>High Risk Cyto genetics</b> | 11 (28.9%)     | 80.8% (42.3%, 94.8%)   | 69.2% (31.1%, 89.1%)    | 69.2% (31.1%, 89.1%)    |

\*High risk features defined as presence of EMD, BMPC ≥ 60, or B2M ≥ 5.5



# CART-ddBCMA: 100% ORR, High CR Rate, and Durable Responses Demonstrate Potential for Best-in-Class Treatment

|                                | CART-ddBCMA             |             | LEGEND-2                 | CARTITUDE-1                 |                    |
|--------------------------------|-------------------------|-------------|--------------------------|-----------------------------|--------------------|
| <b>Minimum follow-up (mo.)</b> | <b>1</b>                | <b>18</b>   | <b>1</b>                 | <b>1.5</b>                  | <b>13.5 (est.)</b> |
| Sample Size (n)                | 38                      | 16          | 57                       | 97                          |                    |
| Median Follow-up (mo.)         | 15.0                    | 22.9        | 8                        | 12.4                        | 24                 |
| EMD %                          | 34%                     | 50%         | 30%                      | 13%                         | 13%                |
| <b>ORR</b>                     | <b>100%</b>             | <b>100%</b> | <b>88%</b>               | <b>97%</b>                  | <b>98%</b>         |
| <b>CR rate</b>                 | <b>71%</b>              | <b>81%</b>  | <b>68%</b>               | <b>67%</b>                  | <b>83%</b>         |
| Kaplan Meier Estimate PFS Rate | All subjects            |             | LEGEND-2<br>All subjects | CARTITUDE-1<br>All subjects |                    |
| @ 6 months                     | 91.8%<br>(76.7%, 97.2%) |             | ~82%                     | 87%                         |                    |
| @ 12 months                    | 72.7%<br>(52.2%, 85.5%) |             | ~70%                     | ~75%                        |                    |
| @18 months                     | 64.6%<br>(43.7%, 79.4%) |             | ~41%                     | ~67%                        |                    |

Based on preliminary data cut October 31, 2022

LEGEND-2 estimates are based on KM curves from Zhao BMC 2018 (Figure 2a) and CARTITUDE-1 estimates are based on KM curves from Martin JCO 2022 (Fig 2a).



# Adverse Event Profile (as of 31 Oct 2022)

| Grade 3/4 AEs (non-CRS/ICANS)<br>≥5% after cell infusion<br>(N=38) |            | CAR-T-associated AEs<br>Per ASTCT criteria | 100 million<br>(N=32)     |                     | 300 million<br>(N=6) |                |
|--|------------|--|---------------------------|---------------------|----------------------|----------------|
| <b>Hematologic</b>   |            | <b>Cytokine Release Syndrome (CRS)</b>     | <b>Grade 1/2</b>          | <b>Grade 3</b>      | <b>Grade 1/2</b>     | <b>Grade 3</b> |
| Neutrophil count decreased   | 29 (76.3%) |  | <b>30 (94%)</b>           | <b>0</b>            | <b>5 (83%)</b>       | <b>1 (17%)</b> |
| Anemia   | 22 (57.9%) |  | Median onset (min-max)*   | 2 days (1-12 days)  | 2 day (1-2 days)     |                |
| Thrombocytopenia   | 15 (39.4%) |  | Median duration (min-max) | 8 days (2-14 days)  | 5 days (3-10 days)   |                |
| Lymphocyte count decreased   | 13 (36.8%) | <b>Neurotoxicity (ICANS)</b>               | <b>Grade 1/2</b>          | <b>Grade 3</b>      | <b>Grade 1/2</b>     | <b>Grade 3</b> |
| White blood cell count decreased                                   | 7 (18.4%)  |  | <b>5 (16%)</b>            | <b>1 (3%)</b>       | <b>0</b>             | <b>1 (17%)</b> |
| Febrile Neutropenia  | 6 (15.8%)  |  | Median onset (min-max)*   | 4.5 days (3-6 days) | 7 days               |                |
| <b>Non-hematologic</b>   |            | Median duration (min-max)                  | 7.5 days (4 - 11 days)    | 23 days             |                      |                |
| Hypertension   | 3 (7.9%)   | <b>Toxicity Management</b>                 |                           |                     |                      |                |
| Hyponatremia   | 2 (5.3%)   | Tocilizumab                                | 27 (84%)                  | 5 (83%)             |                      |                |
| Pain in extremity  | 2 (5.3%)   | Dexamethasone                              | 20 (63%)                  | 2 (33%)             |                      |                |
| Cellulitis   | 2 (5.3%)   |  |                           |                     |                      |                |
| Sepsis   | 2 (5.3%)   |  |                           |                     |                      |                |

\*Infusion Day 0 is considered Study Day 1

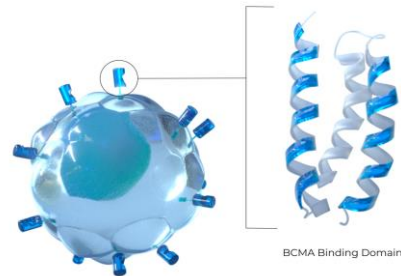




# CART-ddBCMA Phase 1: Conclusions

## CART-ddBCMA utilizes a novel, synthetic highly stable binding domain

- 2 dose levels studied (100 and 300 million CAR+ T-cells); MTD not reached
- Consistency in manufacturing (100% success) highlighted by high CAR-T cell viability, low inter-patient variability in CAR+ cells and high CAR-T cell yield



**100%  
ORR**  
per IMWG  
across both  
dose levels

## Deep and durable responses

- **All Patients: 38/38 (100%) ORR; 27/38 (71%) CR/sCR**, 7/38 (18%) VGPR, 4/38 (11%) PR;  $\geq$ VGPR = 34/38 (89%)
- **Pts w/ 12 mo f/u: 25/25 (100%) ORR; 20/25 (80%) CR/sCR**, 3/25 (12%) VGPR, 2/25 (8%) PR;  $\geq$ VGPR = 23/25 (92%)
- **Pts w/ 18 mo f/u: 16/16 (100%) ORR; 13/16 (81%) CR/sCR**, 1/16 (6%) VGPR, 2/16 (13%) PR;  $\geq$ VGPR = 14/16 (88%)

## Median Duration of Response Not Reached for Overall Population

- PFS Rate: @6 months 92%, @12 months 73%, @ 18 months 65%

## Durable responses in patients with high-risk features

- PFS rate 63% @18 months in population defined by EMD, BMPC  $\geq$  60%, and/or B2M  $\geq$  5.5

**24 of 27 (89%) of MRD  
evaluable subjects  
achieved Negativity at  $\geq 10^{-5}$**

## Adverse Event Profile appears potentially differentiated from other CAR T products

- No tissue-targeted toxicities observed
- No cases grade 3 (or greater) CRS, 1 case (3%) Grade 3 ICANS event at RP2D (n=32)
- No delayed neurotoxicity or parkinsonian-like events observed in entire population (n=38)

**Pivotal Phase 2 Trial  
is now enrolling!**  
(RP2D, 115 $\pm$ 10 million  
CAR+ T cells)





# Panel Discussion Moderated by Dr. Chris Heery





Q&A

