

#### 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, but not limited to, the following are forward-looking statements: statements regarding the attributes of the D-Domain and its potential benefits; the safety and efficacy profiles of anito-cel, its potential to be best-in-class, the speed, reliability and scalability of its manufacturing, the ability of patients to access anito-cel, and growth opportunities for anito-cel; enrollment in the iMMagine-3 study; our future financial condition, results, strategy, operations and prospects; plans and timelines for the preclinical and clinical development of our product candidates, including the therapeutic potential, clinical benefits and safety profiles; expectations regarding timing, success and data announcements of our preclinical studies and clinical trials, the initiation, timing, progress and results of our current and future preclinical studies and clinical trials; our plans to develop and commercialize our current and future product candidates, alone or with other parties; the plans and objectives of management; and the industry size and trends and market opportunities. In some cases, you can identify forward-looking statements by terminology such as "assume," "believe," "can," "contemplate," "continue," "could," "design," "estimate," "expect," "imagine," "intend," "likely," "may," "might," "objective," "ongoing," "plan," "potential," "predict," "project," "seek" "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, including those set forth in Part II, Item 1A (Risk Factors) in the Quarterly Report on Form 10-Q for the quarter ended September 30, 2024, filed with the Securities and Exchange Commission (SEC) on November 7, 2024, and the other documents that we may file from time to time with the SEC. New risk factors emerge from time to time and it is no 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. As a result of these risks and others, including those set forth in our filings with the Securities and Exchange Commission (SEC), actual results could vary significantly from those anticipated in this presentation, and our financial condition and results of operations could be materially adversely affected.

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. 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. 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. Cross-trial comparisons are not based on head-to-head studies and no direct comparisons can be made. Cross-trial data interpretation should be considered with caution as it is limited by differences in study population, design and other factors.

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 we have not independently verified the accuracy or completeness of the data contained in these industry publications and other publicly available information. Accordingly, we make no representations as to the accuracy or completeness of that data.

Rami Elghandour

Chairman and Chief Executive Officer, Arcellx

iMMagine-1 Oral Presentation 20 min

Ciara L. Freeman M.D., Ph.D

iMMagine-1 Clinical Study Investigator

Physician Panel Discussion 30 min

**Q&A** 30 min





a Different Kind of Cell Therapy Company



Potential best-in-class therapy partnered with Kite, the global leader in cell therapy.

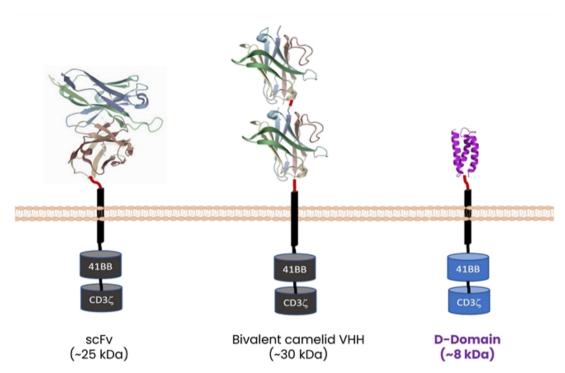


Scalable manufacturing and commercial footprint to support leadership in a \$12B+ Multiple Myeloma cell therapy market.



Sufficient capital to fund operations into 2027.

# Anitocabtagene Autoleucel (anito-cel/CART-ddBCMA) Autologous BCMA-directed CAR T-cell therapy using a novel, D-Domain binder<sup>1,2</sup>



Anito-cel attributes from novel D-Domain		
Low total cell dose	Small D-Domain construct facilitates high transduction efficiency and CAR positivity, which permit a low total cell dose	
Lack of tonic signaling	Rapid folding, lack of disulfide bonds, and a hydrophobic core enables D-Domain stability and lack of tonic signaling <sup>5,6</sup>	
Optimal tumor cell killing	The D-Domain has a fast off-rate <sup>4</sup> and high CAR surface expression. <sup>3,4</sup> This combination may allow optimal tumor cell killing without prolonged inflammation	



#### Anito-cel: The BCMA CAR T Without Compromise



#### Potential Best-in-Class Efficacy Profile

- Phase 1 median PFS of 30.2 months
- iMMagine-1 pivotal trial consistent with Phase 1 findings, with comparable ORR, CRR, MRD-, and 6and 12-mo PFS and OS %
- Similar efficacy profile, with comparable depth and durability of responses observed across highrisk subgroups



### Differentiated Safety Profile with No Delayed Neurotoxicity

- Zero cases of delayed neurotoxicity or other non-ICANS neurotoxicity seen in >150 patients treated with anito-cel to date
- iMMagine-1 had highest rates of
   Grade 1 CRS (86%) and no ICANS
   (91%) out of all BCMA CAR T pivotal trials
- Favorable safety profile can get patients home sooner, expanding capacity at hospitals, and lowering resource utilization / cost of care



#### Rapid and Reliable Manufacturing

- <17-day turnaround time¹ for patients treated in iMMagine-3, in line with other Kite commercial CAR Ts
- 96% commercial manufacturing success rate with >25,000 patients treated¹ from Kite's global CAR T infrastructure
- Expansive market presence with 500+ ATCs globally<sup>1</sup> will provide unparalleled access to anito-cel



# Arcellx | 2024 ASH IR Event

#### Multiple Myeloma is a Large Global Market Opportunity for CAR T



**4L+** 

Anito-cel potential best-in-class candidate at launch iMMagine-3 captures largest anticipated coverage (95%) of \$12B Total Addressable Market (2L+) in CAR T at steady state

Future growth
opportunities in
treating frontline MM
patients and
retreating CAR T
patients



Note: Based on internal projections and estimates of 2024 MM Incidence, which management believes are reasonable and accurate, key assumptions include: 2L+ steady-state figures in US, EU7, Canada, Australia, and Japan and 75% anti-CD38 utilization in frontline by 2028E

# Arcellx | 2024 ASH IR Event

#### Anito-cel Facilitates Current MM CAR T Adoption Drivers

#### **CAR T Journey**

CART CART **Post Infusion Apheresis** Manufacturing Infusion **Monitoring Current CAR T Challenges Limited US ATC** Long turnaround High rates of High footprint out-of-spec rates hospital admission time 70d median vein to vein time 78 Carvykti ATCs ~20-30% products out of ~85-95% of patients treated (range: 36 - 275 days)1 130 Abecma ATCs specification and outpatient admitted to hospital<sup>2</sup>; delayed neurotoxicity not reimbursed1 yields patient dropout from disease progression may also require admission

#### Anito-cel: The BCMA CAR T without compromise



>150 Kite
US ATCs3



Consistency ≥96% Mfg Success Rate<sup>3</sup>



Reliability
<a href="mailto:17-day"><a href="mailto:17

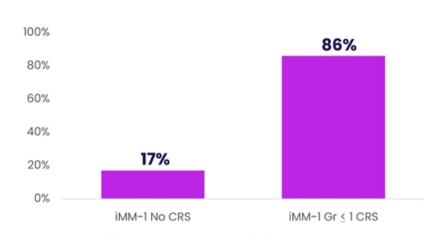


O delayed neurotox 86% ≤ Grade 1 CRS



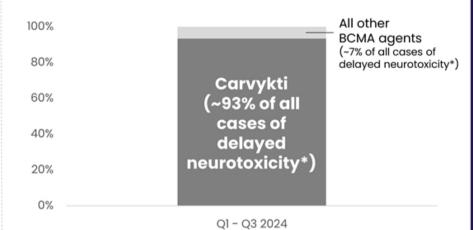
#### Anito-cel Can Significantly Expand CAR T Access for MM Patients

Anito-cel CRS median time to onset ~4 days and median duration ~3 days, potentially limiting time in hospital and driving outpatient treatment



~92% of iMM-1 patients had no CRS symptoms 10 days from infusion

Anito-cel has seen 0 cases of Parkinsonism, Guillain-Barré syndrome, or cranial nerve palsies, potentially driving patient volume in earlier lines of therapy



Anito-cel has seen 0 cases of delayed or non-ICANS neurotoxicity to date

>80% of CAR T cases have favorable reimbursement through case rate agreements or ASP+



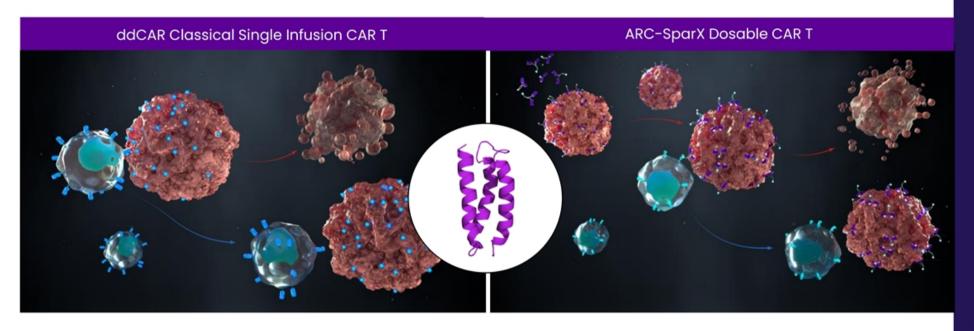
# iMMagine-3 Global Phase 3 Trial with Kite Manufacturing, Currently Enrolling

### Multi-center, Global, Phase 3 Randomized Controlled Clinical Trial (RCT) for anti-CD38 mAb and IMiD exposed patients

- Largest percentage of second line (2L) patients as anti-CD38 mAbs become standard of care in front line (1L)
- Anticipate high physician interest in iMMagine-3 based on:
  - Potential best-in-class product profile
  - Relevant standard of care alternatives
  - Rapid and reliable turnaround time with Kite manufacturing
- Easy to identify patient population, expected to streamline access to anito-cel post approval
- ► Confirmatory RCT will include ~450 adult patients randomized 1:1 in US and Intl sites



#### D-Domain Technology: Expansive Platform



- Ability to leverage autologous or allogeneic strategies
- ▶ Therapeutic potential across liquid and solid tumors as well as non-oncology indications

#### A Rich Development Pipeline with Growth in Mind



Rami Elghandour

Chairman and Chief Executive Officer, Arcellx

iMMagine-1 Oral Presentation 20 min

Ciara L. Freeman M.D., Ph.D iMMagine-1 Clinical Study Investigator

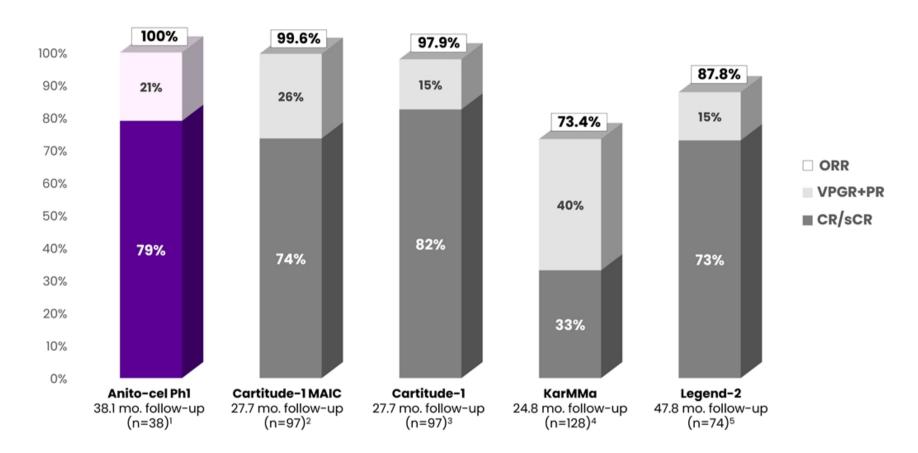
Physician Panel Discussion 30 min

**Q&A** 30 min



# 2024 ASH IR Event Arcellx

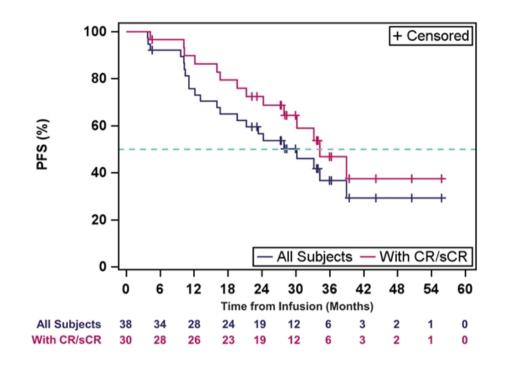
#### Anito-cel Phase 1: 100% Overall Response and 79% Complete Response



Data cut-off October 3, 2024

Note: MAIC is matching-adjusted indirect comparison, a J&J study comparing Cartitude-1 results by adjusting its population to match that of KarMMa; Data above are not from head-to-head studies. Cross-trial data interpretation should be considered with caution as it is limited by differences in median follow-up, study population, design, and other factors. Bishop et al. (2024); 2Martin et al. (2022); 3Martin et al. (2023); 4Anderson et al. (2021); 5Zhao et al.

#### Anito-cel Phase 1: Median PFS is 30.2 Months



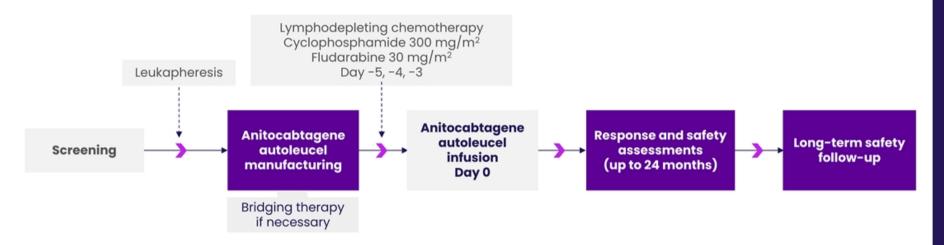
Minimum Follow-up 25.0 months					
	Time (months)	PFS Estimate (%)	95% Confidence Interval (%)		
	6	92.1	(77.5, 97.4)		
	12	75.9	(58.7, 86.6)		
All Subjects (n=38)	18	65.0	(47.5, 78.0)		
(11–33)	24	56.6	(39.2, 70.8)		
	30	50.3	(33.0, 65.3)		

Anito-cel Phase 1

Median Follow-up 38.1 months



#### Anito-cel iMMagine-1: Phase 2 Study Design



#### **Key Eligibility Criteria**

- · Prior IMiD, PI, and CD38-targeted therapy
- Received ≥3 prior lines of therapy
- Refractory to the last line of therapy
- ECOG PS of 0 or 1
- · Evidence of measurable disease

#### Target Dose of 115 x 106 CAR+ T cells

#### **Primary Endpoint:**

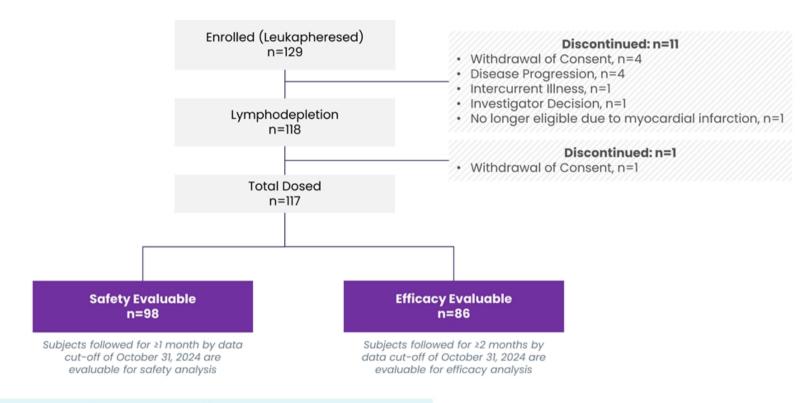
ORR, per 2016 IMWG criteria

#### **Key Secondary Endpoints:**

- sCR/CR rate, per 2016 IMWG criteria
- ORR in patients limited to 3 prior LoT, per 2016 IMWG criteria



# Anito-cel iMMagine-1: Overall Patient Disposition and Evaluable Populations



Anito-cel was successfully manufactured for 99% of patients enrolled

Total Patients Dosed per clinical database as of presentation date [12/09/2024] Freeman et al., Oral Presentation, ASH (Dec 2024)



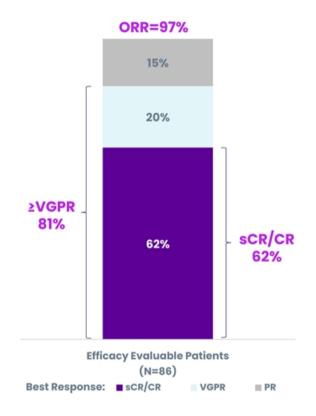
#### Anito-cel iMMagine-1: Patient and Disease Characteristics

	Anito-cel iMMagine-1 <sup>1</sup>	Cartitude-1 <sup>2</sup>	KarMMa³
	N=98	N=97	N=128
Age group ≥ 65, # (%)	51 (52%)	35 (36%)	45 (35%)
Age group ≥ 70, # (%)	30 (31%)		20 (16%)5
Gender (Male / Female)	56% / 44%	59% / 41%	59% / 41%
Black / African-American, # (%)	9 (9%)	17 (18%)	
ECOGª 0	45 (46%)	39 (40%)	57 (45%)
EMD <sup>b</sup> , # (%)	16 (16%)	13 (13%)	50 (39%)*
High risk cytogenetics <sup>c</sup> , # (%)	39 (40%)	23 (24%)	45 (35%)
Median prior therapies (min-max)	4 (3-8)	6 (3-18)	6 (3-16)
3 Prior lines of therapy, # (%)	45 (46%)	17 (18%)	128 (100%)**
Refractory to last line, # (%)	98 (100%)	96 (99%)	128 (100%)**
Triple refractory, # (%)	85 (87%)	85 (88%)	108 (84%)
Penta refractory, # (%)	41 (42%)	41 (42%)	33 (26%)
Median time since diagnosis (min-max)	7.2 (1 – 23)	5.9 (2 – 18)4	6.0 (1 – 18)
Prior ASCT, # (%)	73 (75%)	87 (90%)	120 (94%)
Bridging therapy, # (%)	65 (66%)	73 (75%)	112 (88%)
Outpatient administration	8 (8%)	0 (0%)	0 (0%)

Anito-cel iMMagine-1 data cut-off October 31, 2024; \*Includes bone-based lesions (plasmacytomas); \*\*Assumed per protocol requirements
Cross-trial data interpretation should be considered with caution as it is limited by differences in study population, study design, and other factors; a) Eastern Cooperative Oncology Group Performance Status Scale; b)
EMD is a form of Multiple Myeloma characterized by the presence of a non-bone based plasmacytoma; c) Defined as the presence of Del 17p, t(14;16), or t(4;14)

\*Freeman et al., Oral Presentation, ASH (Dec 2024); \*Martin et al. (2023); \*Munshi et al. (2021); \*Janssen Carvykti Prior Line of Therapies (Dec 2024); \*Berdeja et al. (2020)

# Anito-cel iMMagine-1: Overall Response Rate and MRD Negativity Efficacy Evaluable Patients (N=86)



At a median follow-up of 9.5 months, ORR was 97% and sCR/CR rate was 62%

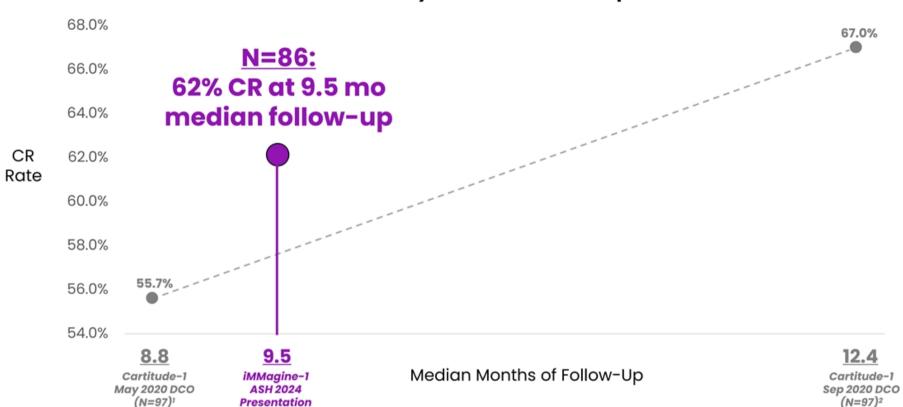
93.1% (n=54/58) of evaluable patients were MRD negative at minimum of 10<sup>-5</sup> sensitivity

	Evaluable Patients	Months (min - max)
Median time to first response	83	1.0 (0.9 - 7.3)
Median time to MRD negativity of ≤10 <sup>-5</sup>	54	1.0 (0.9 - 6.4)



#### Anito-cel iMMagine-1: Complete Response Rate

#### CR Rate by Months of Follow-Up

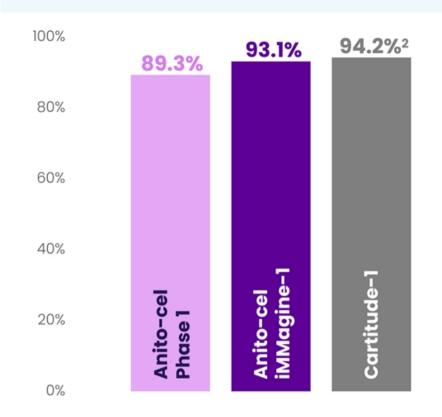


Note: Cross-trial data interpretation should be considered with caution as it is limited by differences in median follow-up, study population, design and other factors 'Madduri et al. (2020); 'Berdeja et al. (2021); Freeman et al., Oral Presentation, ASH (Dec 2024)



#### Anito-cel iMMagine-1: Minimum Residual Disease

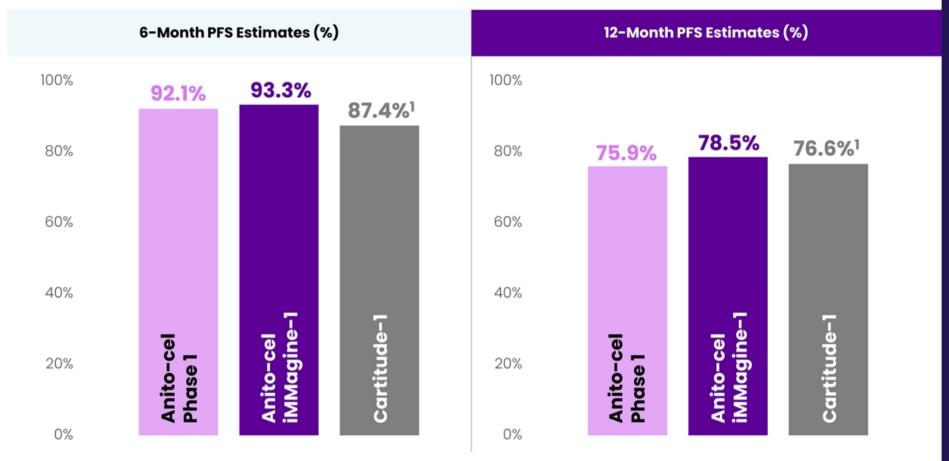
#### Minimum Residual Disease at 10<sup>-5</sup> sensitivity



- Anito-cel sees comparable depth of response to other BCMA CAR T products
  - Patients demonstrated rapid response, with median time to MRD negativity ~1 month¹
- Anito-cel MRD- at 10<sup>-6</sup> is 80.9%, affirming deep depletion of malignant plasma cells<sup>1</sup>



#### Anito-cel iMMagine-1: 6-mo PFS Rate is 93.3%, 12-mo PFS Rate is 78.5%

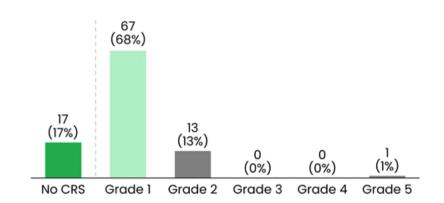


Note: Carvykti 6-mo PFS at 8.8 months of median follow-up, 12-mo PFS at 12.4 months of median follow-up. Median follow-up for anito-cel iMMagine-1 was 9.5 months [Range 2 - 23] Cross-trial data interpretation should be considered with caution as it is limited by differences in median follow-up, study population, design and other factors.

Anito-cel Phase 1 data (N=38): Bishop et al, American Society of Hematology 2024, Poster 4825; Anito-cel iMMagine-1 data (N=86): Freeman et al., Oral Presentation, ASH (Dec 2024); Madduri et al. (2020) including supplementary materials (N=97)

#### Anito-cel iMMagine-1: Cytokine Release Syndrome

#### Maximum CRS Grade (N=98)



- 83% (81/98) of patients had CRS of any Grade; the median onset was 4 days
- 86% (84/98) of patients had CRS Grade 1 or less, including 17% (17/98) with no CRS
- · % of patients with either no CRS or CRS that resolved by:
  - ≤7 days of anito-cel infusion: 63% (62/98)
  - ≤10 days of anito-cel infusion: 92% (90/98)
  - \( \preceq 14 \) days of anito-cel infusion: 98% (96/98)

ASTCT, American Society for Transplantation and Cellular Therapy Freeman et al., Oral Presentation, ASH (Dec 2024), Data cut-off October 31, 2024

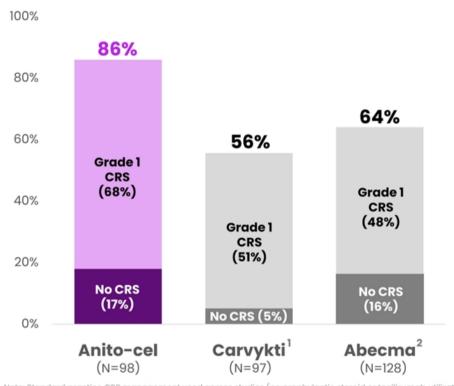
Cytokine Release Syndrome (CRS) Per ASTCT criteria	Safety Evaluable Patients N=98
Median onset (min - max)	4 days (1 - 17 days)
Median duration (min - max)	3 days (1 - 9 days)
Supportive Measures	
Tocilizumab	72% (71/98)
Dexamethasone	65% (64/98)
Anakinra	8% (8/98)
Siltuximab	4% (4/98)
Vasopressor used	1% (1/98)
Intubation/mechanical ventilation	1% (1/98)

- CRS management per protocol was in line with standard medical practice with no prophylactic administration of tocilizumab or dexamethasone
  - For CRS onset in the first 48 hours, tocilizumab and dexamethasone were protocol recommended
  - For CRS onset after the first 48 hours, if tocilizumab was administered at investigator discretion, dexamethasone was also recommended
- 2/3 of all patients who received dexamethasone only ever received a single dose of 10 mg of dexamethasone
- Grade 5 CRS occurred in a 76-year-old patient who had rapidly progressive disease between screening and baseline and did not receive bridging therapy



#### Anito-cel iMMagine-1: Majority of Patients with ≤ Grade 1 CRS

#### % of Patients with CRS Grade 1 or Less



In the 83% of patients with CRS, Median onset was 4 days (range: 1-17 days)

86% (84/98) of CRS cases ≤ Gr 1, including 17% of patients with no CRS

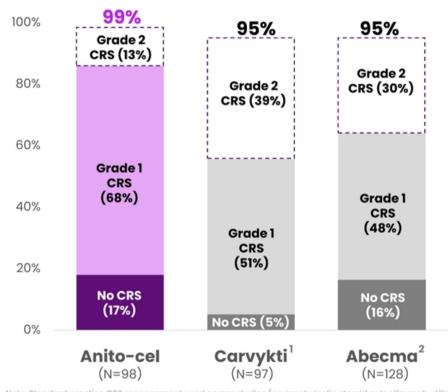
92% of patients either had no CRS or CRS that resolved within 10 days of anito-cel infusion



Note: Standard practice CRS management used across studies (no prophylactic steroid or tocilizumab utilization). Cross-trial data interpretation should be considered with caution as it is limited by differences in median follow-up, study population, design and other factors.

#### Anito-cel iMMagine-1: Majority of Patients with < Grade 1 CRS

#### % of Patients with CRS Grade 2 or Less



In the 83% of patients with CRS, Median onset was 4 days (range: 1-17 days)

86% (84/98) of CRS cases ≤ Gr 1, including 17% of patients with no CRS

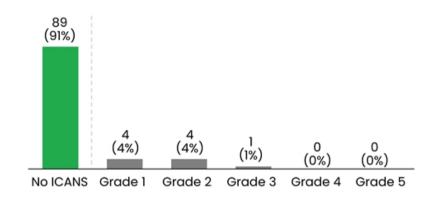
92% of patients either had no CRS or CRS that resolved within 10 days of anito-cel infusion



Note: Standard practice CRS management used across studies (no prophylactic steroid or tocilizumab utilization). Cross-trial data interpretation should be considered with caution as it is limited by differences in median follow-up, study population, design and other factors.

# Anito-cel iMMagine-1: Immune Effector Cell-associated Neurotoxicity Syndrome

#### Maximum ICANS Grade (N=98)



- No delayed or non-ICANS neurotoxicities were observed, including no incidence of Parkinsonism, no cranial nerve palsies, and no Guillain-Barré syndrome (n=98)
- Similarly, no delayed or non-ICANS neurotoxicities have been observed in the Phase 1 study<sup>1</sup> (n=38, median follow-up of 38.1 months with minimum follow-up of 25 months)

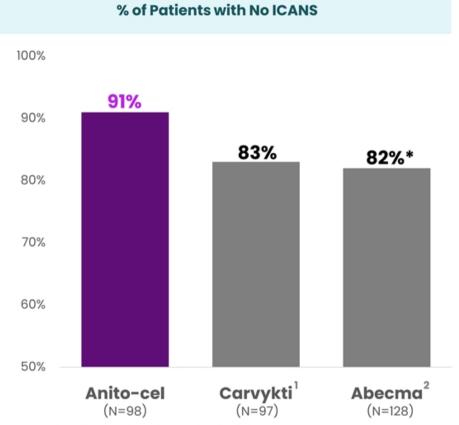
ICANS Per ASTCT criteria	Safety Evaluable Patients N=98	
Median onset (min - max <sup>a</sup> )	7 days (2 - 10º days)	
Median duration (min - max <sup>b</sup> )	4 days (1 - 10 <sup>b</sup> days)	
Supportive Measures		
Tocilizumab	3% (3/98)	
Dexamethasone	6% (6/98)	
Anakinra	1% (1/98)	
Siltuximab	1% (1/98)	

<sup>&</sup>lt;sup>a</sup> With the exception of n=1 Grade 1 ICANS (confusion) on day 34 post infusion that rapidly resolved



b With the exception of n=1 max Grade 2 ICANS with 29-day duration to resolution

#### Anito-cel iMMagine-1: Majority of Patients with No ICANS



91% of patients did not have ICANS

ICANS of any grade was observed in 9 patients (9%), of which 1 (1%) was Grade 3, all cases resolved

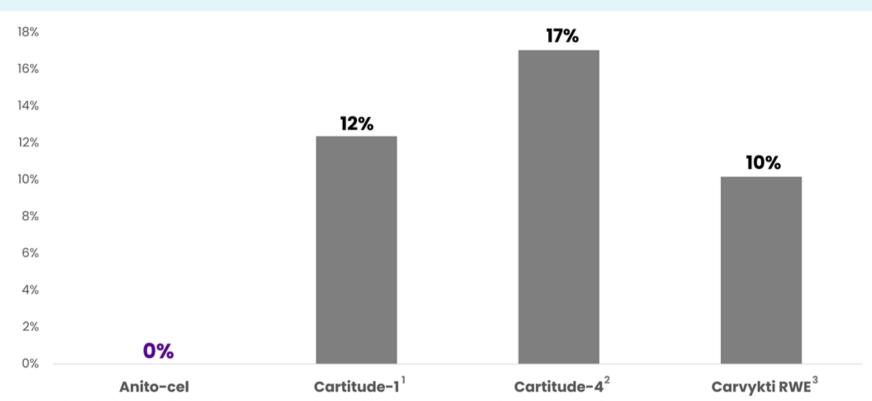
No delayed or non-ICANS
neurotoxicities were observed,
including no incidence of
Parkinsonism, no cranial nerve
palsies, and no Guillain-Barré
syndrome to date





#### Anito-cel iMMagine-1: Zero Cases of Delayed Neurotoxicity

#### % of Patients with Delayed or Non-ICANS Neurotoxicity



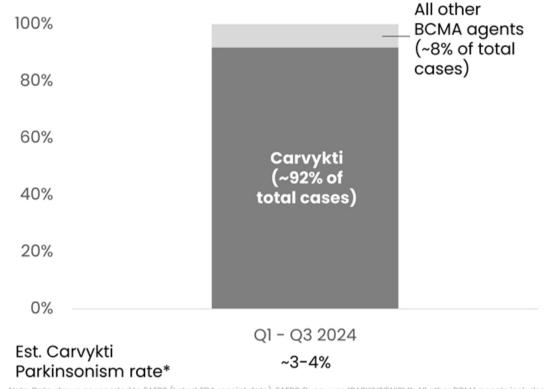


#### Anito-cel iMMagine-1: Zero Cases of Parkinsonism



Number of Parkinsonism Cases Reported via

- In 2024, of those patients treated with BCMA therapies, Carvykti treated ~40-50%
- Parkinsonism cases are driven by Carvykti (~92% of BCMA targeted agents) despite movement into earlier lines of therapy
- Anito-cel has seen 0 cases of delayed neurotoxicity in >150 patients treated to date (6x10<sup>-8</sup>% odds ratio using binomial probability of seeing an event at observed Caryvkti rate ~13%)







#### Anito-cel iMMagine-1: Safety Profile

- > >150 patients have been treated with anito-cel to date between the Phase 1 and iMMagine-1 studies, 38 patients have minimum follow-up of at least 25 months
- Out of all BCMA CAR T pivotal trials to date, iMMagine-1 had the highest rates of ≤ Grade 1 CRS (N=84, 86%), including 17% with no CRS, and ≤ Grade 1 ICANS (N=93, 95%), including 91% with no ICANS
- No delayed or non-ICANS neurotoxicities have been observed to date, including no Parkinsonism, no cranial nerve palsies, and no Guillain-Barré syndrome
- No secondary primary malignancies of T-cell origin; no replication competent lentivirus detected
- ▶ Three deaths occurred due to AEs (related or unrelated to anito-cel) in iMMagine-1
  - Retroperitoneal hemorrhage\* secondary to biopsy complication in the context of plasma cell leukemia developing prior to anito-cel infusion
  - CRS
  - Fungal infection

Anito-cel has shown a differentiated safety profile in the Phase I and iMMagine-I studies to date



#### Anito-cel iMMagine-1: Conclusions

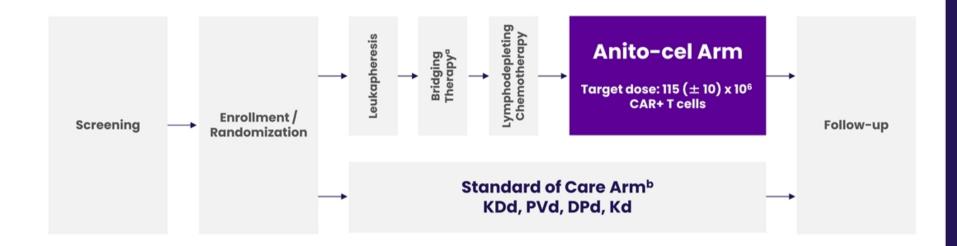
- Anito-cel utilizes a novel, synthetic, compact, and stable D-Domain binder
  - D-Domain facilitates high transduction efficiency, CAR positivity, and CAR density on the T-cell surface and has a
    fast off-rate
- Anito-cel demonstrated deep and durable efficacy at a median follow-up of 9.5 months
  - ORR was 97% and sCR/CR rate was 62%, per IMWG criteria
  - 93.1% of MRD evaluable patients (n=54/58) were MRD negative at  $10^{-5}$  or lower
  - Median PFS and OS not reached; 12-month PFS rate was 78.5% and OS rate was 96.5%
- The anito-cel safety profile is predictable and manageable
  - No delayed or non-ICANS neurotoxicities to date, including no Parkinsonism, no cranial nerve palsies, and no Guillain-Barré syndrome reported across clinical trials
  - 86% of patients did not have CRS or had a max Grade 1 CRS
  - 91% of patients did not have ICANS
- More than 150 patients dosed across the anito-cel programs for RRMM

Anito-cel demonstrated deep, durable responses in 4L+ RRMM with a manageable safety profile, including no delayed or non-ICANS neurotoxicities



# Anito-cel iMMagine-3 (NCT06413498): Global Phase 3 Trial Currently Enrolling

1-3 prior LoT, including an anti-CD38 monoclonal antibody and an iMiD



#### **Study Design**

- 1:1 Randomization
- n = Approximately 450, ~130 sites globally

#### **Study Endpoints**

- Primary Endpoint: PFS
- · Key Secondary Endpoints: CR rate, MRD, OS, safety



Optional Bridging therapy will be the SOC regimen selected prior to randomization

<sup>&</sup>lt;sup>b</sup>Cycles will continue until unacceptable toxicity, progression as per IMWG criteria, or patient withdrawal of consent

#### References

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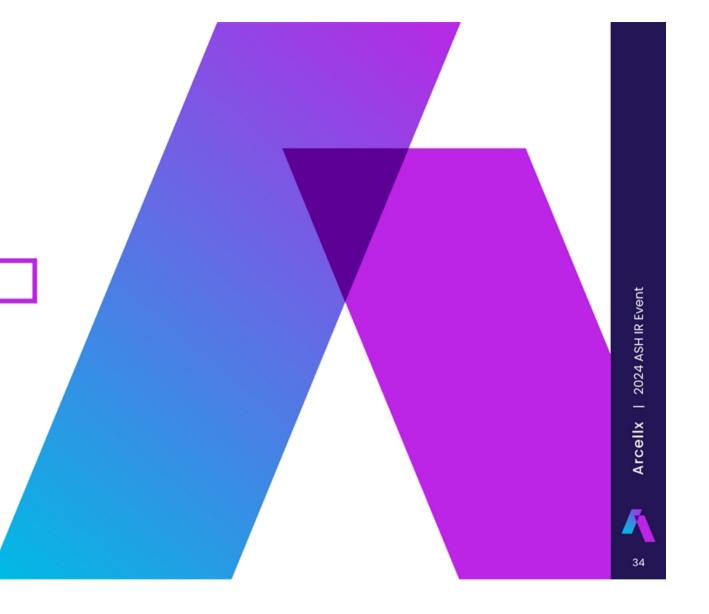
iMMagine-1 Oral Presentation 20 min

Ciara L. Freeman M.D., Ph.D

iMMagine-1 Clinical Study Investigator

**Physician Panel Discussion** 30 min

**Q&A** 30 min



## ARCELLX Panel Discussion and Q&A



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