

# IMA203CD8 Cell Therapy in PRAME-positive Solid Tumors

- Phase 1a Dose Escalation Clinical Data Update

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December 11, 2025



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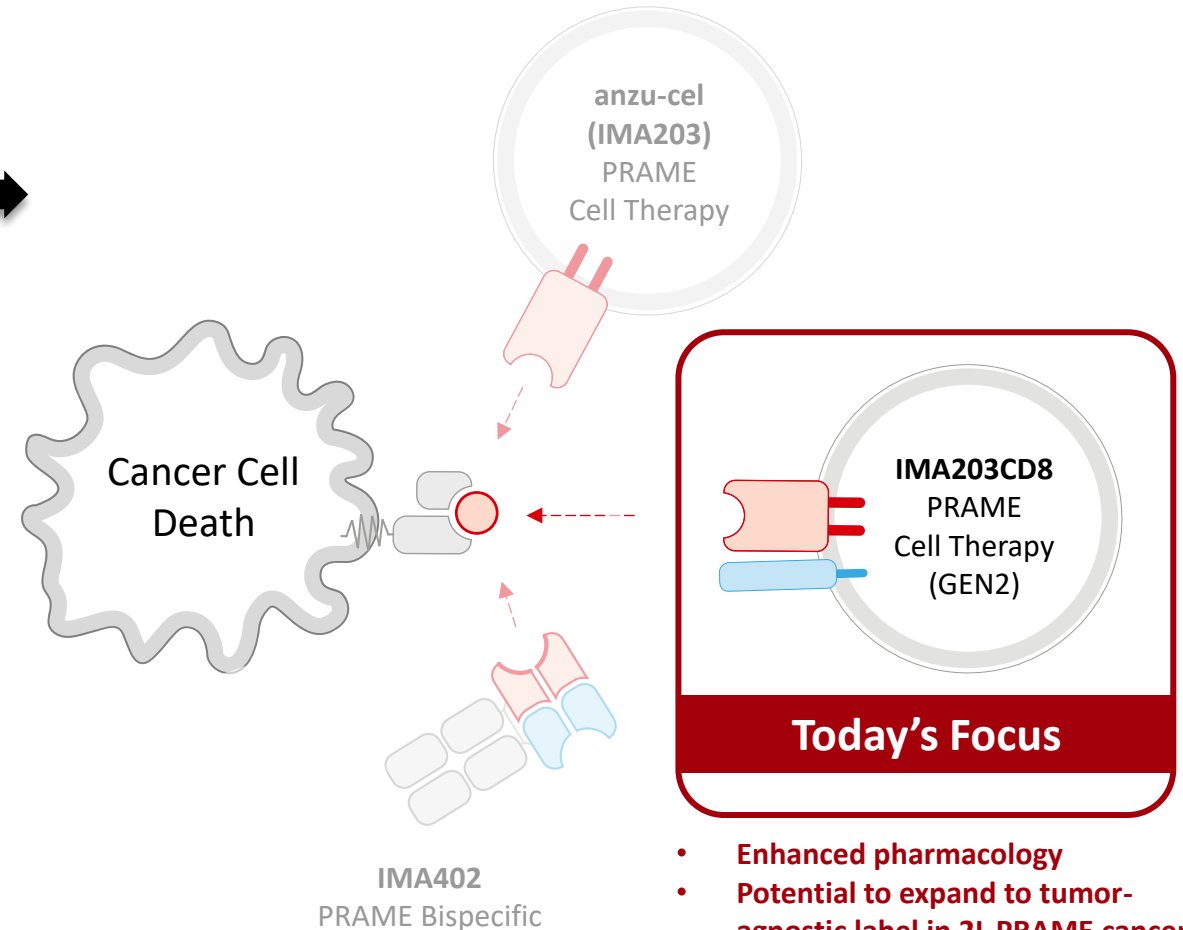
# Positioning of IMA203CD8: Expanding to PRAME Cancers beyond Melanoma

Indication
Cutaneous Melanoma
Endometrioid Endometrial Carcinoma
Uterine Carcinosarcoma
Synovial Sarcoma
Acral Melanoma
Uveal Melanoma
Mucosal Melanoma
Endometrial Clear Cell Carcinoma
Endometrial Serous Carcinoma
Ovarian Serous Cystadenocarcinoma
Ovarian Clear Cell Carcinoma
Ovarian Endometrioid Carcinoma
Head and Neck Salivary Duct Carcinoma
Adenoid Cystic Carcinoma
Neuroblastoma
Malignant Rhabdoid Tumor
Wilms Tumor (Nephroblastoma)
Squamous Cell NSCLC
Triple Negative Breast Carcinoma (TNBC)
Cervical Adenosquamous Cell Carcinoma
Large Cell Neuroendocrine Lung Carcinoma (LCNEC)
Basal Cell Carcinoma
Mucoepidermoid Carcinoma
Large Cell Lung Carcinoma (LCLC)
Spindle Cell Melanoma
Testicular Germ Cell Tumor (Seminoma and Non-Seminoma)
Myxoid Liposarcoma
Angiosarcoma
Small Cell Lung Cancer (SCLC)
Esophageal Small Cell Carcinoma
Cutaneous Squamous Cell Carcinoma
Thymoma
Merkel Cell Carcinoma
Endometrial Sarcoma
Esophageal Squamous Carcinoma
Esophageal Adenosquamous Carcinoma
Kidney Renal Papillary Cell Carcinoma
Malignant Peripheral Nerve Sheath Tumor (MPNST)
Cholangiocarcinoma
Cervical Adenocarcinoma
Head and Neck Salivary Gland Carcinoma
Osteosarcoma
HER2-Enriched Breast Carcinoma
Embryonal Rhabdomyosarcoma
Adenosquamous NSCLC
Diffuse Large B-cell Lymphoma (DLBCL)
Sarcomatoid Carcinoma of the Lung
Adenocarcinoma NSCLC
Head and Neck Squamous Cell Carcinoma (HNSCC)
Alveolar Rhabdomyosarcoma
Ovarian Mucinous Carcinoma
Adrenocortical Carcinoma
Kidney Renal Clear Cell Carcinoma
Hepatocellular Carcinoma
Bladder Urothelial Carcinoma
Cervical Squamous Cell Carcinoma
Non-Squamous Anal Carcinoma
Pancreatic Neuroendocrine Adenocarcinoma
Prostate Neuroendocrine Adenocarcinoma
Liposarcoma
Undifferentiated Pleomorphic Sarcoma
Acute Myeloid Leukemia (AML)
Ewing Sarcoma
Ovarian Leiomyosarcoma
Breast Carcinoma, Luminal A
Breast Carcinoma, Luminal B
Squamous Anal Carcinoma
Stomach Adenocarcinoma
Esophageal Adenocarcinoma
Fibrosarcoma
Anaplastic Thyroid Carcinoma
(...)

**PRAME** is expressed in more than 50 cancers

Indication	% PRAME+ patients <sup>1</sup>
Cutaneous Melanoma	95%
Uterine Carcinoma	95%
Uterine Carcinosarcoma	95%
Synovial Sarcoma	95%
Uveal Melanoma	90%
Mucosal Melanoma	90%
Ovarian Carcinoma Subtypes	85%
Squamous Cell NSCLC	70%
Triple-negative Breast Carcinoma	65%
Small Cell Lung Cancer	45%
Esophageal Carcinoma Subtype	45%
Kidney Carcinoma Subtype	40%
Cholangiocarcinoma	35%
HER2-Enriched Breast Carcinoma	30%
Adenocarcinoma NSCLC	25%
Head & Neck Squamous Cell Carcinoma	25%
Hepatocellular Carcinoma	20%
Bladder Carcinoma	20%

≥95% ≥10%



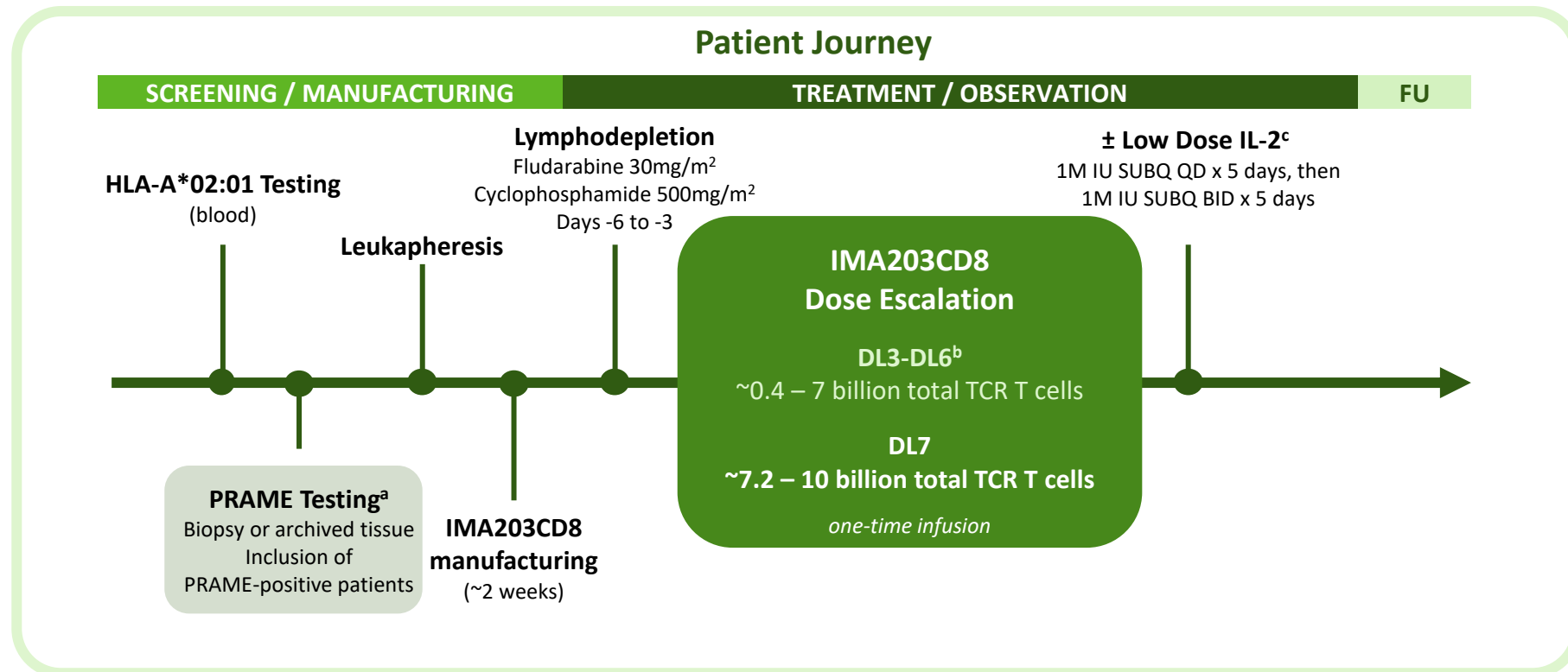
- Enhanced pharmacology
- Potential to expand to tumor-agnostic label in 2L PRAME cancers across broad spectrum of PRAME expression level
- Ovarian carcinoma chosen as initial proof-of-concept

# Study Schema: IMA203CD8 in Solid Tumors Expressing PRAME

## Ongoing Phase 1a Dose Escalation Study

### Key Eligibility Criteria

- Adults with advanced and/or metastatic solid tumors
- ECOG PS 0-1
- HLA-A\*02:01 positive
- PRAME positive
- Patients having received or not been eligible for all available SOC treatment
- Adequate organ function
- No active brain metastasis



### Key Objectives

#### Primary:

- Safety/tolerability

#### Secondary:

- Efficacy
- Pharmacokinetics

# Demographics: Baseline Characteristics

	Safety Population <sup>1</sup>	Efficacy-evaluable Population <sup>2</sup>			
	All Indications N=78	Melanoma <sup>3</sup> n=42	Ovarian Carcinoma n=11	Synovial Sarcoma n=11	Other <sup>4</sup> n=5
Age, median (range)	60 (20, 85)	62 (23, 85)	60 (35, 75)	40 (20, 66)	54 (38, 71)
Female, n (%)	46 (59)	21 (50)	11 (100)	4 (36)	3 (60)
ECOG PS 1, n (%)	36 (46)	22 (52)	8 (73)	2 (18)	2 (40)
LDH ≥1 x ULN, n (%)	37 (47)	22 (52)	5 (45)	4 (36)	4 (80)
<b>Tumor burden<sup>5</sup></b>					
Target lesion sum of diameter [cm], median (range)	9.4 (1.1, 43.4)	8.8 (1.5, 43.4)	9.6 (3.4, 21.6)	9.4 (1.2, 41.1)	6.4 (3.9, 12.3)
<b>Number of tumor lesions<sup>5</sup></b>					
Median (range)	5 (1, 25)	4 (1, 25)	5 (2, 25)	7 (1, 15)	6 (5, 14)
Liver metastasis <sup>5</sup> , n (%)	33 (45)	24 (57)	4 (36)	1 (9)	1 (20)
Brain metastasis <sup>5</sup> , n (%)	4 (5)	4 (10)	0 (0)	0 (0)	0 (0)
Platinum-resistant, n (%)	-	-	5 (45)	-	-

## Patient Population with Limited Treatment Options

# Demographics: Treatment Experience

Prior Therapy	Safety Population <sup>1</sup>	Efficacy-evaluable Population <sup>2</sup>			
	All Indications N=78	Melanoma <sup>3</sup> n=42	Ovarian Carcinoma n=11	Synovial Sarcoma n=11	Other <sup>4</sup> n=5
<b>Treatment, n (%)</b>					
Radiation	47 (60)	27 (64)	3 (27)	8 (73)	5 (100)
Systemic treatment	77 (99)	41 (98)	11 (100)	11 (100)	5 (100)
<b>Lines of systemic treatment</b>					
Median, (range)	3 (0, 8)	3 (0, 8)	4 (1, 7)	2 (1, 5)	3 (2, 5)
≥3, n (%)	50 (64)	26 (62)	10 (91)	5 (45)	3 (60)
Immune checkpoint inhibitors, n (%)	46 (59)	37 (88)	1 (9)	0 (0)	5 (100)
Chemotherapy, n (%)	52 (67)	18 (43)	10 (91)	11 (100)	5 (100)
Platinum-based regimen, n (%)	27 (35)	5 (12)	10 (91)	0 (0)	5 (100)
Targeted therapies (i.e., ADCs, TKIs), n (%)	15 (19)	8 (19)	4 (36)	0 (0)	0 (0)
TCR-based therapies, n (%)	18 (23)	15 (36)	0 (0)	1 (9)	0 (0)
<b>On Study</b>	<b>All Indications N=78</b>	<b>Melanoma<sup>3</sup> n=42</b>	<b>Ovarian Carcinoma n=11</b>	<b>Synovial Sarcoma n=11</b>	<b>Other<sup>4</sup> n=5</b>
<b>Total infused dose</b>					
TCR T cells [x10 <sup>9</sup> ], median (range)	<b>1.6 (0.4, 12.5)</b>	<b>1.6 (0.4, 11.7)</b>	<b>2.3 (1.4, 7.1)</b>	<b>1.6 (0.9, 2.1)</b>	<b>1.6 (1.3, 2.1)</b>
CD4 subset	0.9 (0.1, 7.4)	1.0 (0.1, 5.7)	1.3 (0.7, 4.0)	0.6 (0.2, 1.1)	0.7 (0.2, 1.2)
CD8 subset	0.7 (0.2, 8.3)	0.6 (0.2, 0.8)	0.8 (0.4, 3.0)	0.8 (0.5, 1.6)	0.9 (0.7, 1.4)

## Heavily Pre-treated Patients Treated with IMA203CD8 at Escalating Doses

# IMA203CD8: Tolerability in Advanced Solid Tumors

## Overall Manageable Tolerability Profile

### TEAEs in ≥20% of patients

Preferred term, n (%)	N=78 <sup>a</sup>	
	Any grade	Grade ≥3
Neutropenia	67 (86)	66 (85)
Anaemia	61 (78)	40 (51)
Thrombocytopenia	55 (71)	25 (32)
Nausea	50 (64)	0
Lymphopenia	36 (46)	35 (45)
Fatigue	30 (39)	6 (8)
ALT/AST increased	30 (39)	9 (12)
Rash/Rash maculo-papular	26 (33)	3 (4)
Constipation	25 (32)	0
Hypokalaemia	24 (31)	0
Leukopenia	20 (26)	18 (23)
Vomiting	20 (26)	0
Abdominal pain	17 (22)	2 (3)
Diarrhoea	17 (22)	3 (4)
Pyrexia	17 (22)	0
Hyponatraemia	17 (22)	1 (1)
Headache	16 (21)	0

### Adverse events of special interest

CRS, any grade, n (%)	N=78 <sup>a</sup>	
	Any grade	Grade ≥3
Grade 1	27 (35)	
Grade 2	39 (50)	
Grade 3	7 (9)	
Grade 4	1 (1)	
<b>HLH, any grade, n (%)</b>	<b>7 (9)</b>	
Grade 1	0	
Grade 2	4 (5)	
Grade 3	2 (3)	
Grade 4	1 (1)	
<b>ICANS, any grade, n (%)</b>	<b>6 (8)</b>	
Grade 1	4 (5)	
Grade 2	1 (1)	
Grade 3	1 (1)	

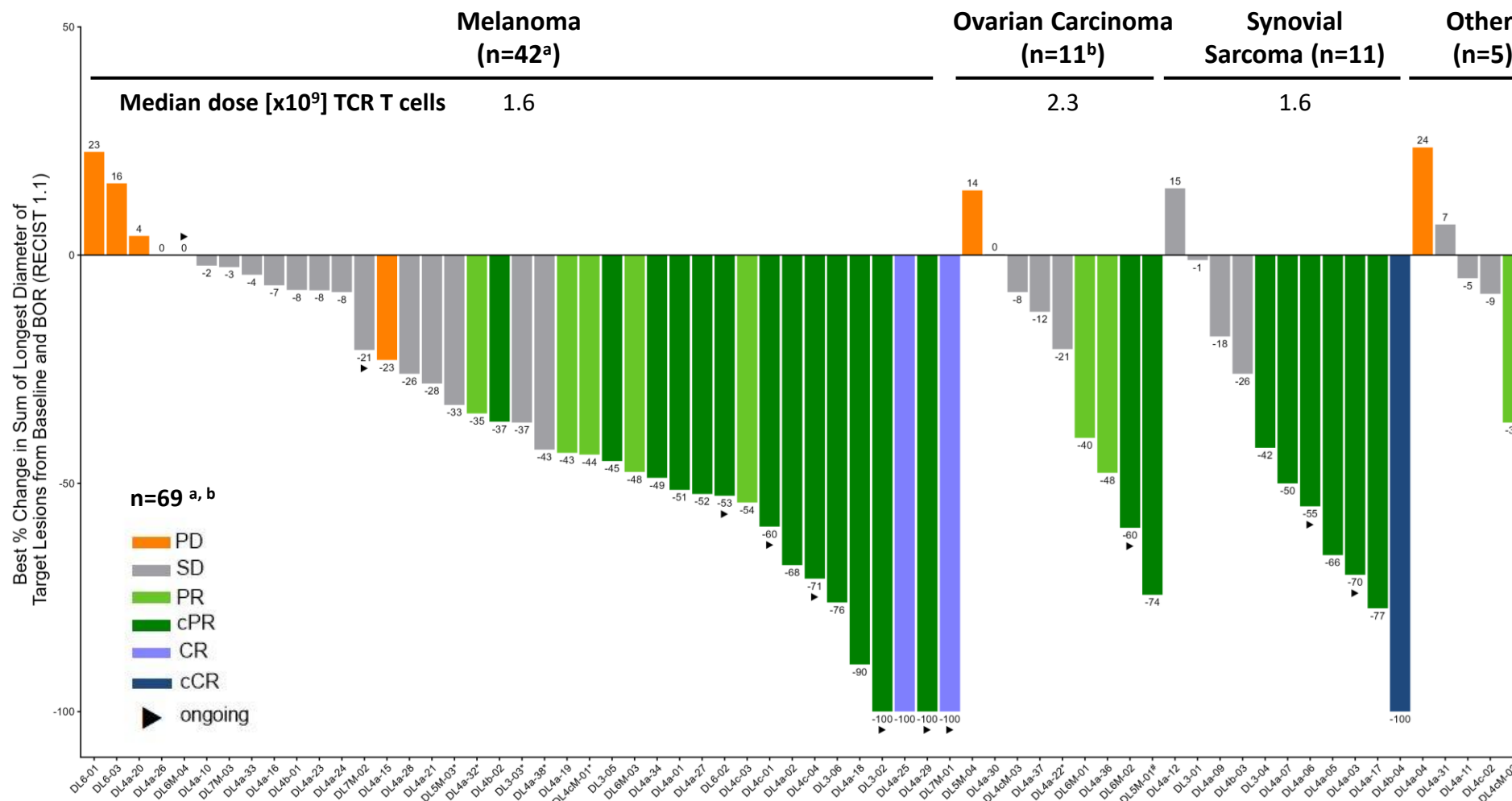
All TEAEs occurring in at least 16 patients (≥20%) are presented. Grades were determined according to National Cancer Institute Common Terminology Criteria of Adverse Events, version 5.0. Grades for CRS and ICANS were determined according to CARTOX criteria (Neelapu et al, 2018, for patients enrolled under protocol v11.0 and higher according to Neelapu et al, 2019).

- Most frequent TEAEs were anticipated cytopenias associated with lymphodepletion
- Expected and manageable CRS, mostly Grade 1-2, consistent with mechanism of action
- Previously reported DLTs in 2 patients at DL4b
  - Patient DL4b-01: high in vivo TCR T-cell expansion, Grade 4 neurotoxicity, Grade 4 CRS, Grade 3 HLH
  - Patient DL4b-04: Grade 3 CRS defined by Grade 3 ALT elevation which resolved to Grade 2 within 10 days; no need for vasopressors or ventilation
- Further modification of the inclusion/exclusion criteria and IL-2 scheme allowed continuation of dose escalation to DL4c up to present DL7; no further DLTs observed since then
- No IMA203CD8-related Grade 5 events<sup>b</sup>

**Dose escalation ongoing at DL7 based upon manageable tolerability**

# IMA203CD8: Tumor Reduction During Dose Escalation

## All Dose Levels Across Various PRAME-expressing Indications

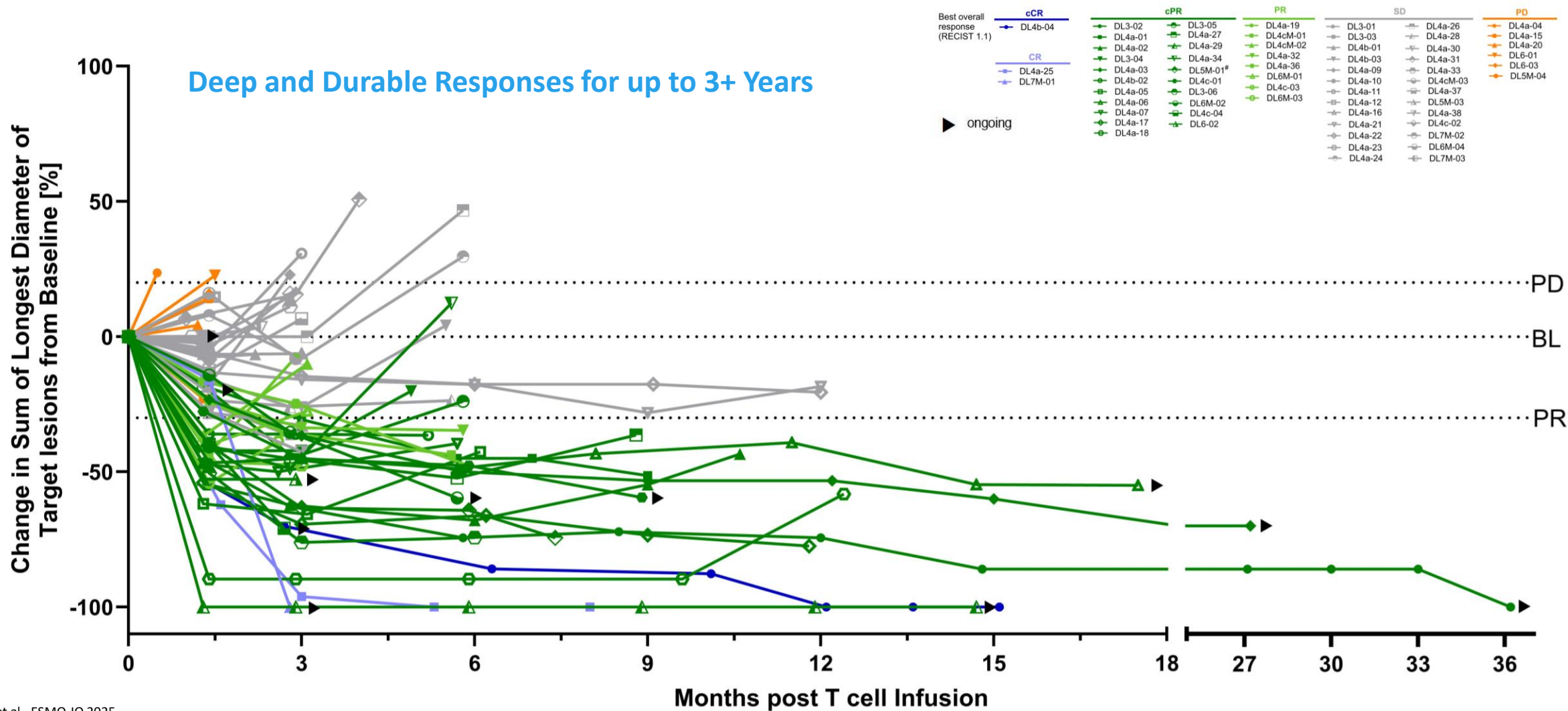


**All (n=69)**

<b>cORR</b>	<b>36% (23/64)</b>
ORR	46% (32/69)
Tumor reduction	78% (54/69)
DCR (at week 6)	84% (58/69)
mDOR, (range)	9.2 mo (1.5, 36.4+)
mFU	14 mo

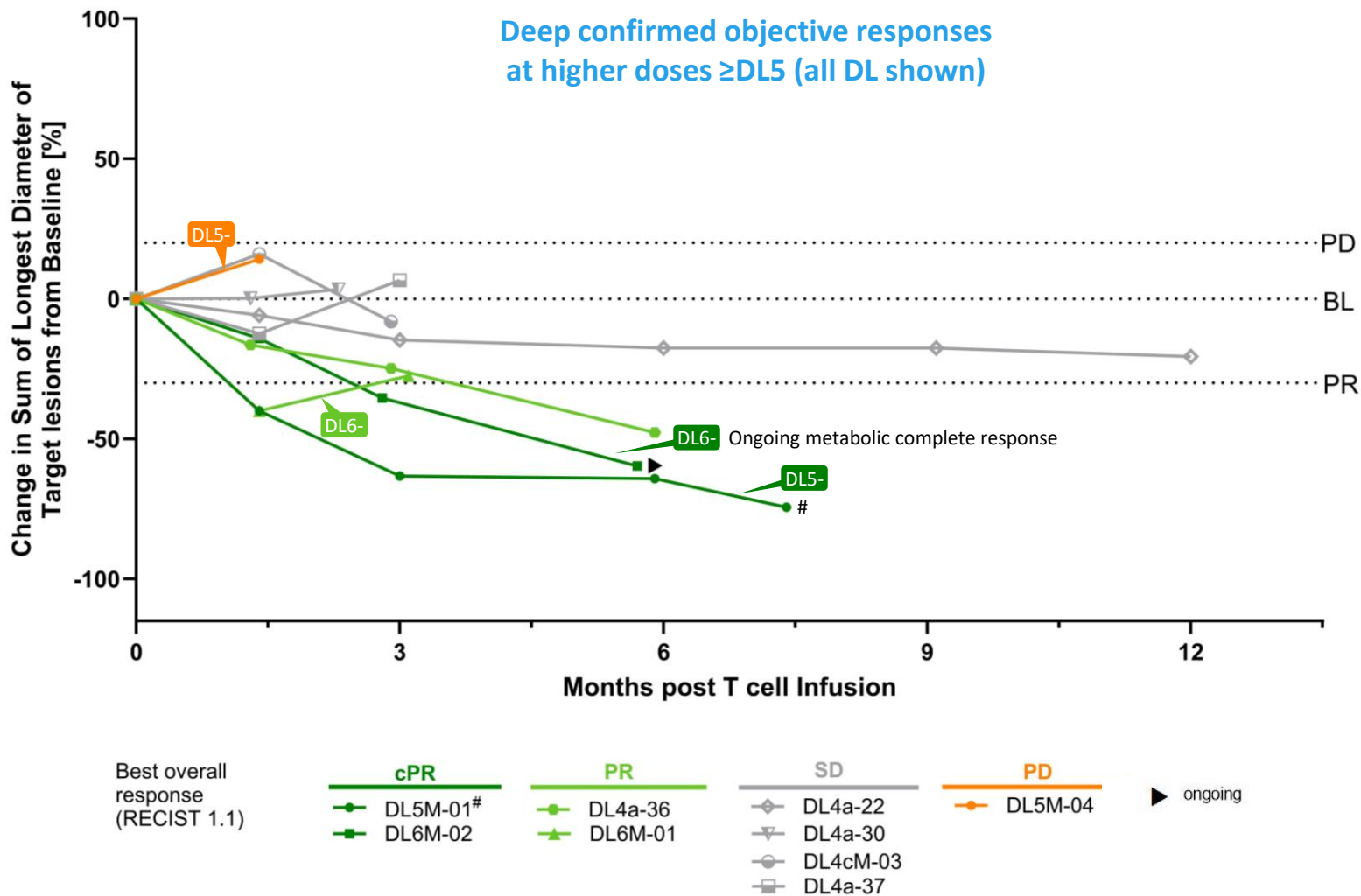
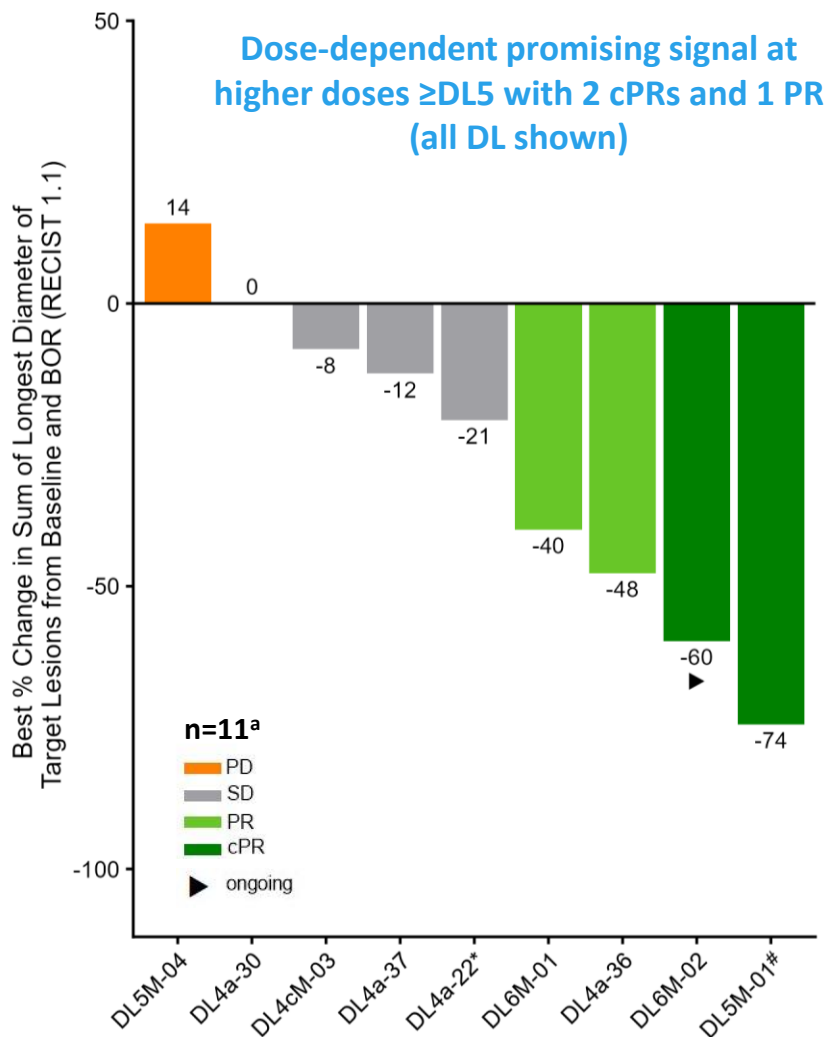
**Encouraging response rate already at low median dose of 1.6 billion total IMA203CD8 TCR T cells**

# IMA203CD8: Changes in Tumor Size Over Time During Dose Escalation



# IMA203CD8 in Patients with Ovarian Carcinoma

## Dose Escalation at Higher Doses ( $\geq$ DL5) Ongoing to Unlock Full Potential of IMA203CD8



**Tolerability in ovarian carcinoma was generally consistent with full IMA203CD8 tolerability profile**

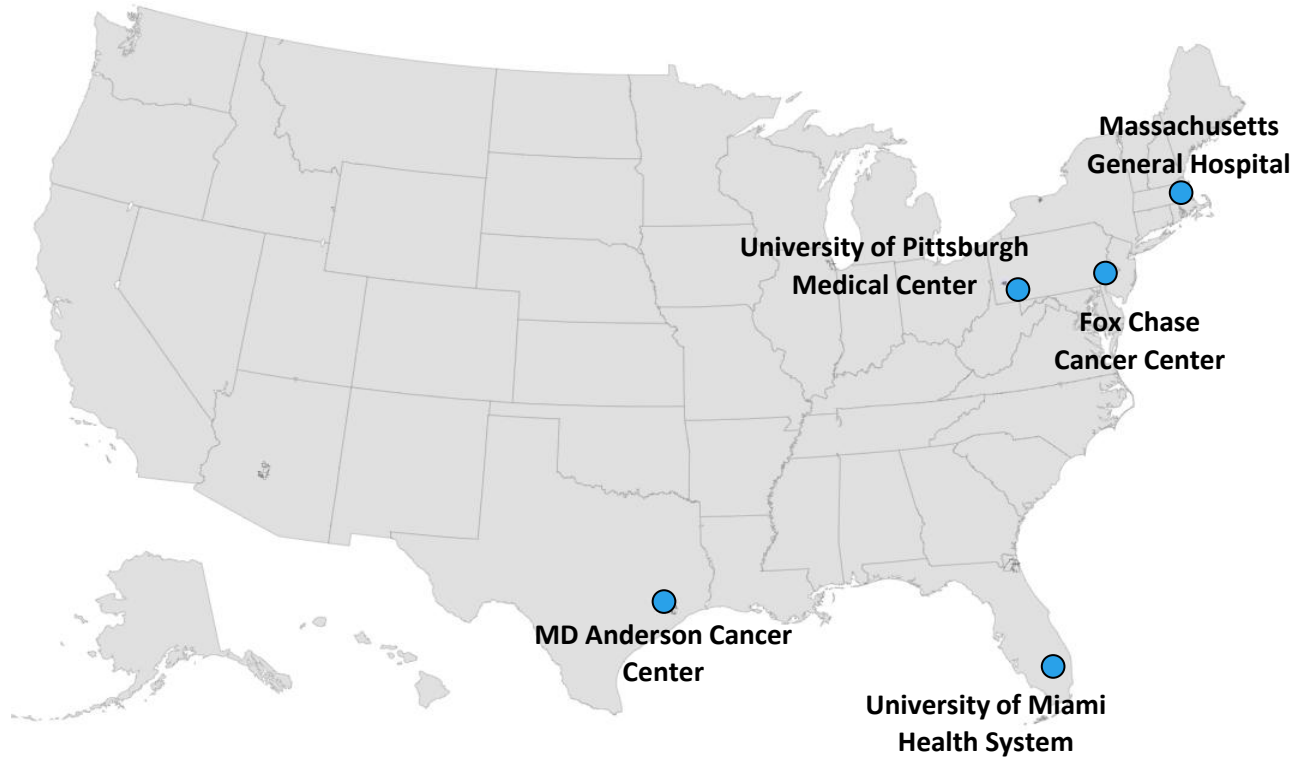
# Conclusions

## Towards Proof-of-concept for Tumor-agnostic Targeting of PRAME cancers with IMA203CD8

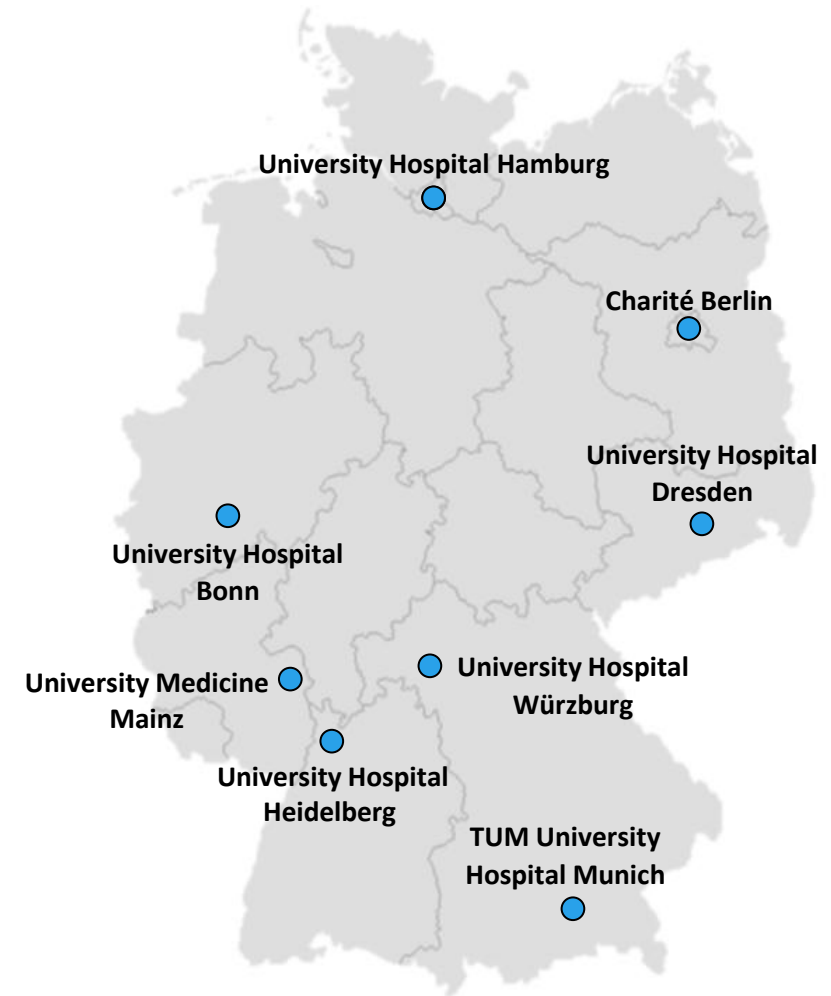
- Manageable tolerability at increasing dose levels with most frequent  $\geq$ Grade 3 AEs being anticipated cytopenia
- Encouraging clinical anti-tumor activity after one-time infusion of IMA203CD8 already at a low median dose of 1.6 billion total TCR T cells
- Deep and durable objective responses in advanced solid tumors during dose escalation including beyond melanoma
  - **3 complete responses plus 2 cPRs with -100% reduction of target lesions**
  - **66% (21/32) of responders showing deep responses with tumor reduction of  $\geq$  50%**
  - **7 responses ongoing for  $\geq$  1 year post infusion**
  - **Promising initial dose-dependent signal in 5 patients with ovarian carcinoma treated at  $\geq$ DL5: 2 cPRs, including 1 ongoing metabolic complete response, and 1 PR – all observed without post-infusion low-dose IL-2**
- **Early proof-of-concept data in ovarian carcinoma supports the strategy to position IMA203CD8 in the tumor-agnostic setting of advanced PRAME cancers beyond melanoma, starting with gynecologic cancers**
- **The Phase 1 trial could also support the positioning of IMA203CD8 without the requirement of post-infusion low-dose IL-2 in the future**
- **Dose escalation and determination of RP2D on track to be completed in 2026 to unlock the full clinical potential of IMA203CD8**
- **Efficacy readouts including patients treated at the two highest dose levels (DL6 and DL7) expected in 2026**

# Thank You – Study Participants & Caregivers

## United States



## Germany



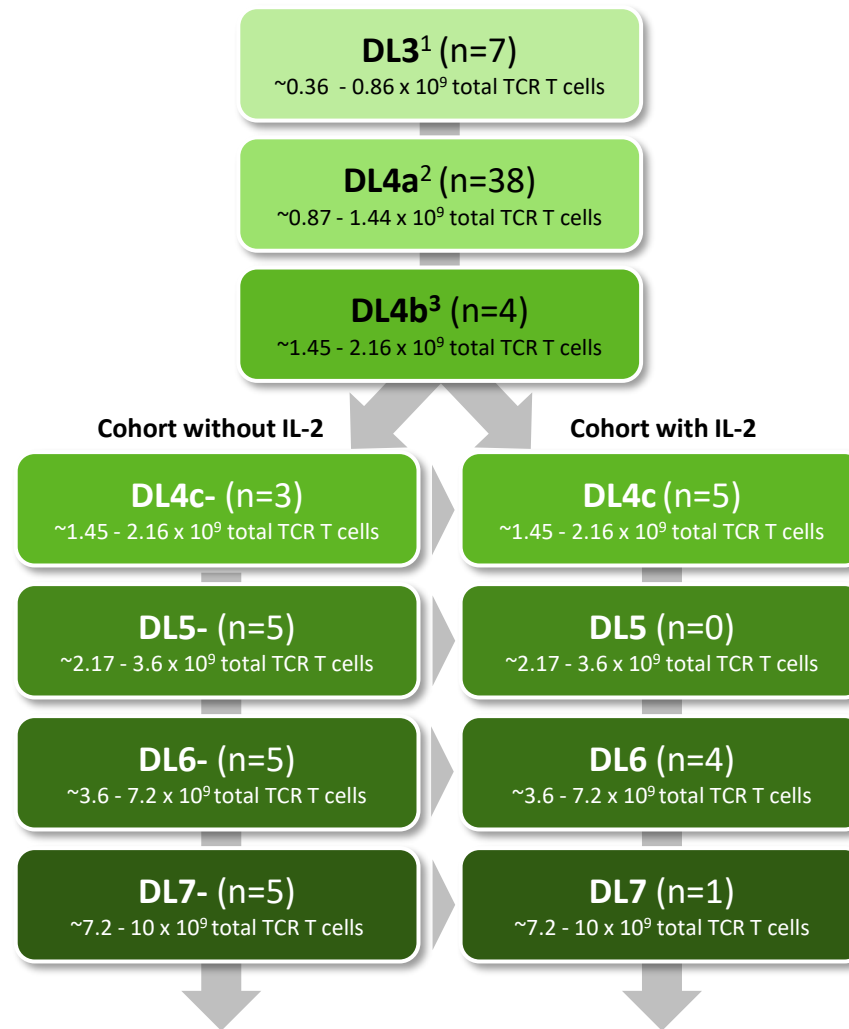
**IMA203CD8 Phase 1 Study**  
**Sponsor: Immatics**



## Appendix

# Phase 1a Dose Escalation Study Design

## Safety Population (N=78\*)



Median dose of 1.6 billion total IMA203CD8 TCR T cells  
Dose escalation at DL7 with and without IL-2 ongoing

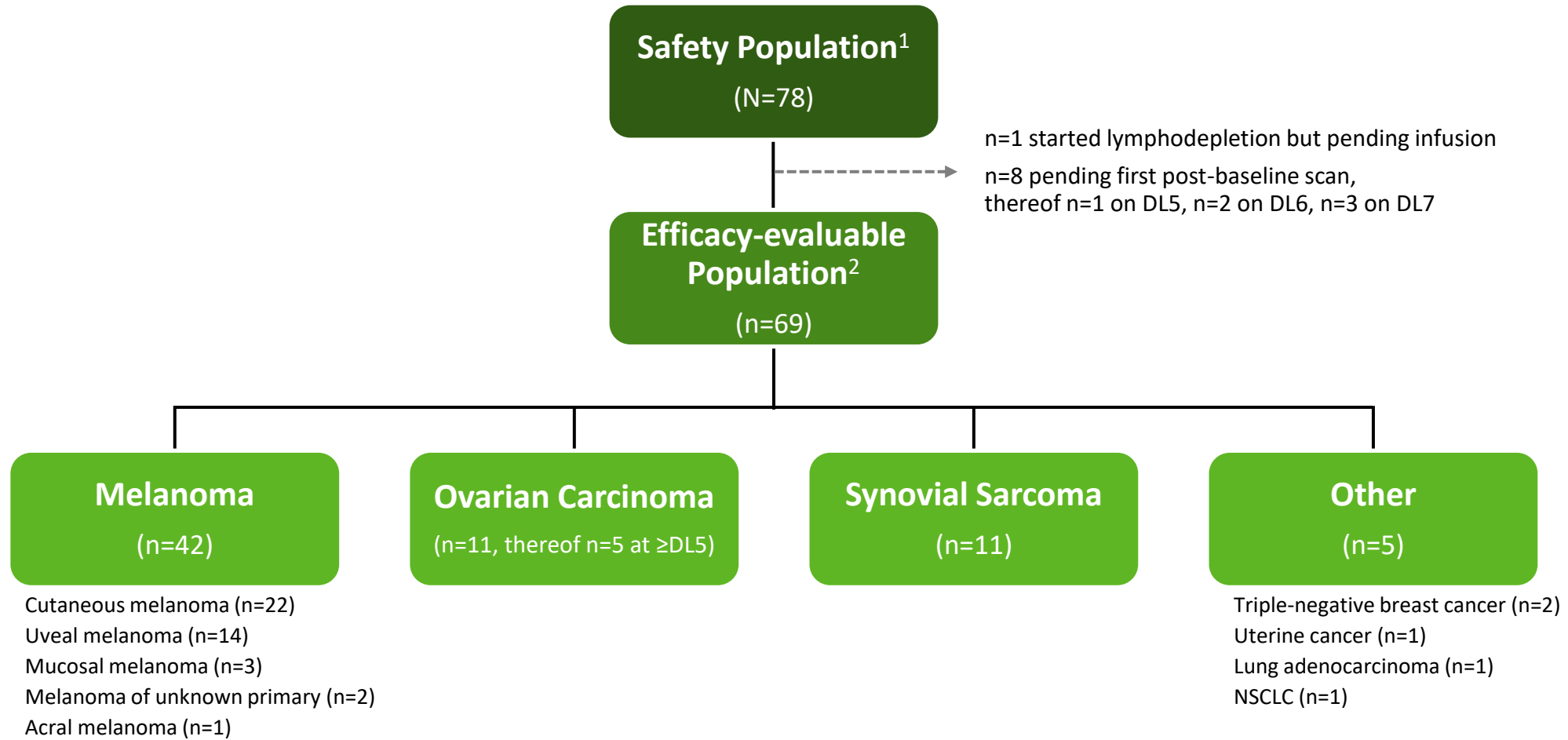
Patients assigned to the cohort without IL-2 are indicated with an additional "M" in their patient ID depicted in waterfall and spider plots

Data Supplement to Busse et al., ESMO-IO 2025

\* Includes one patient who started lymphodepletion but pending IMA203CD8 infusion; <sup>1</sup> Based on initial safety data observed with anzu-cel (IMA203), dose escalation for IMA203CD8 was initiated at DL3; <sup>2</sup> DL4a cleared in Dec 2023; <sup>3</sup> DLTs at DL4b triggered modifications of the eligibility criteria, adapted patient population is treated with DL4c. Each dose level ≥ DL4c is evaluated ±IL-2: start without IL-2; if considered tolerable, either add IL-2 at the same dose, or escalate to the next dose without IL-2; patients depicted according to assigned cohort, two patients in cohort with IL-2 did not receive IL-2 infusions (DL4c-04, DL6-01). Total TCR T cells calculated from defined number of TCR T cells/m<sup>2</sup> body surface area (BSA) per dose level x 1.8 m<sup>2</sup> BSA (BSA of average patient). BSA: body surface area; DL: dose level; DLT: dose-limiting toxicity; MTD: maximum tolerated dose; TCR, T-cell receptor.

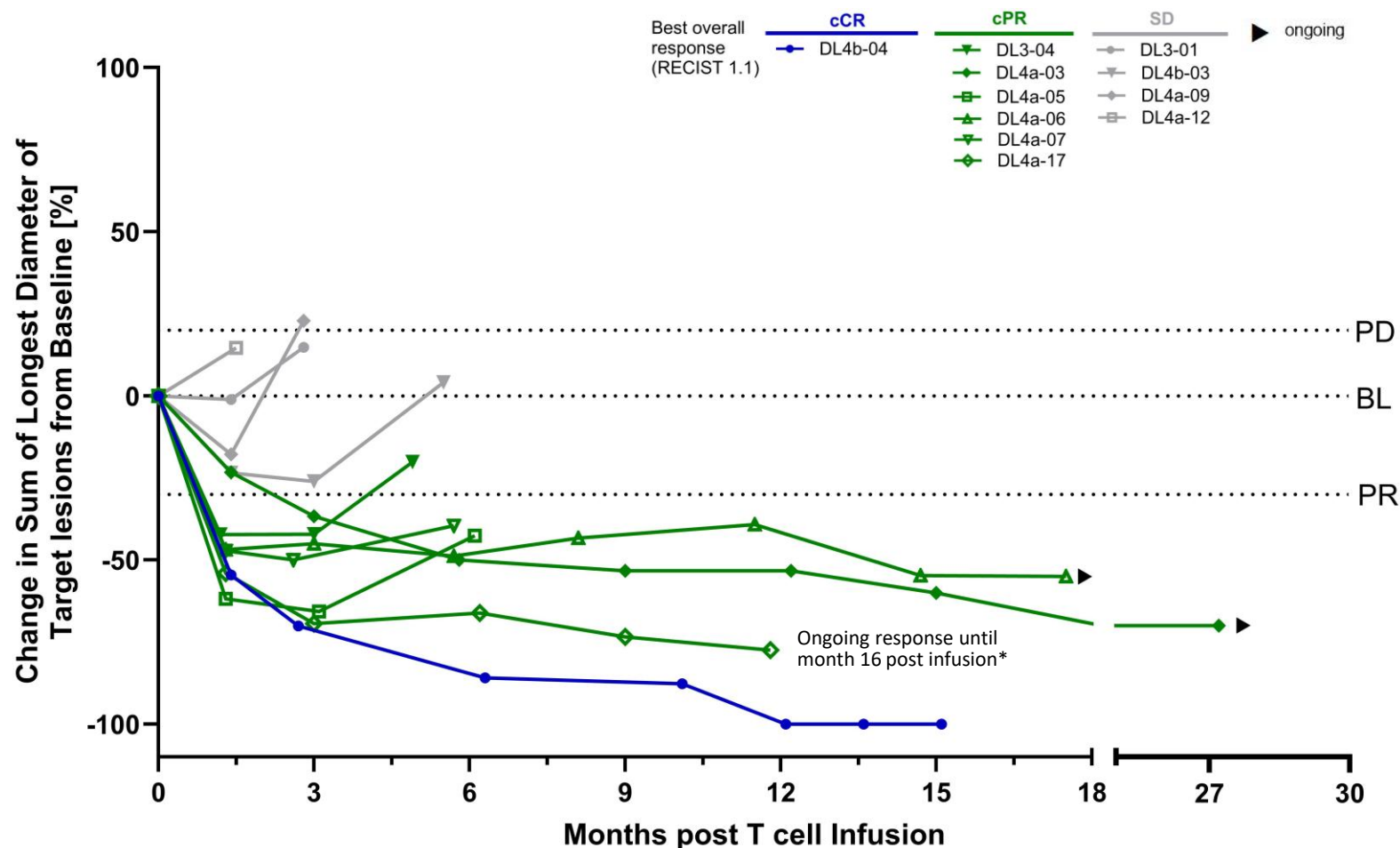
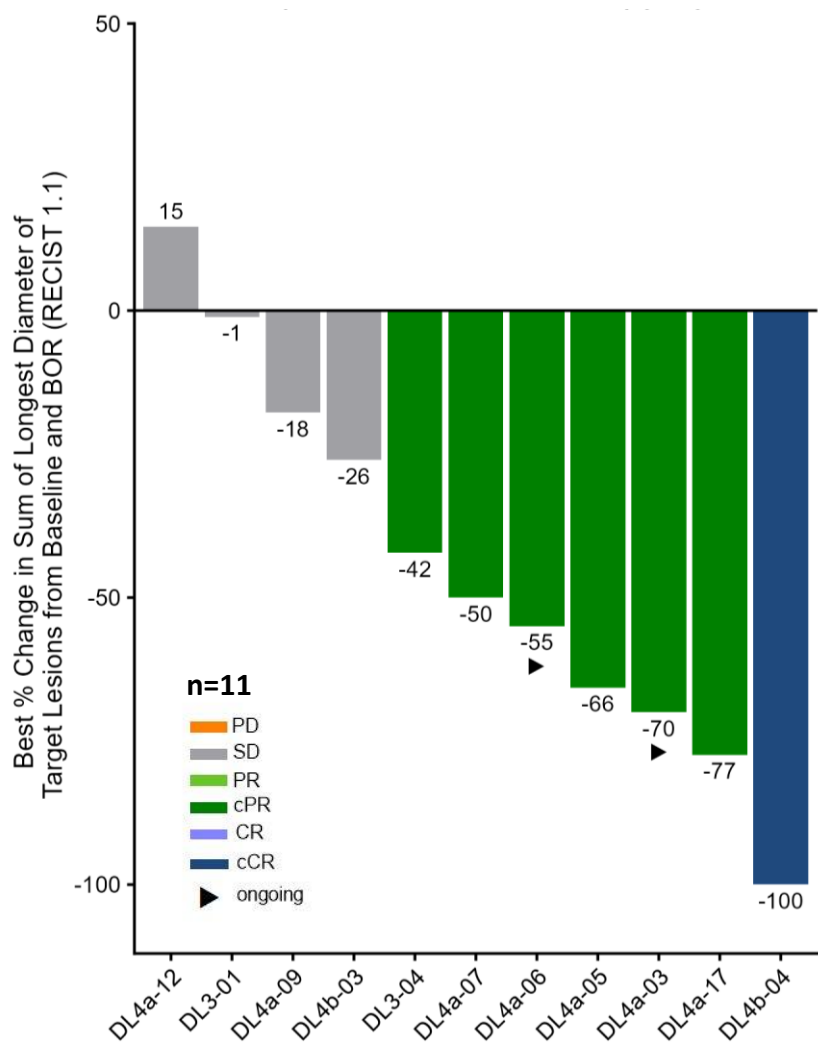
# Patient Populations

## Various PRAME-Expressing Indications Across All Dose Levels



# IMA203CD8 in Patients with Synovial Sarcoma

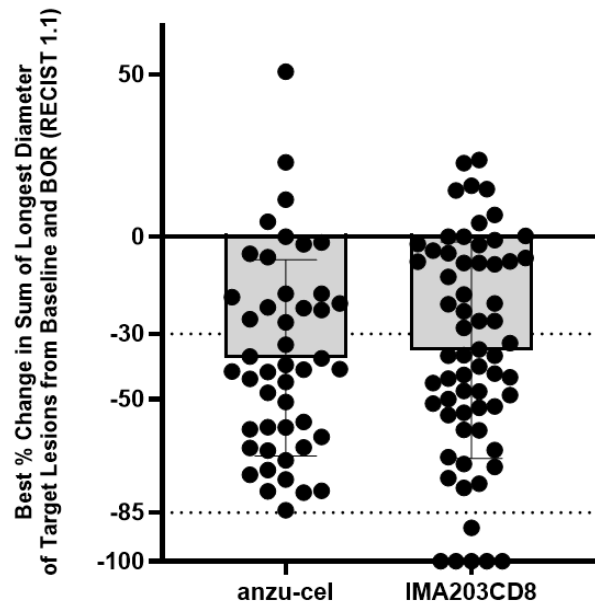
## Promising Clinical Activity with Deep and Durable Responses at Low Doses (DL1-DL4a)



Tolerability in synovial sarcoma was generally consistent with full IMA203CD8 tolerability profile

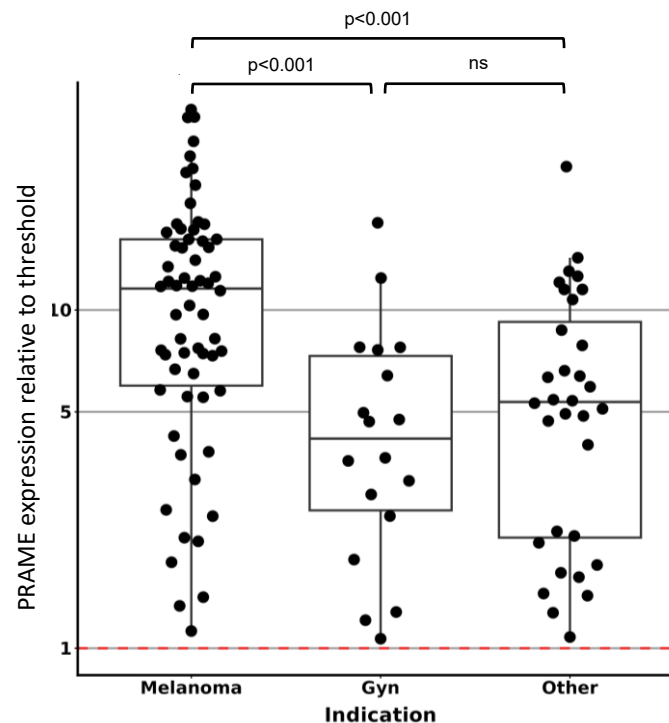
# Opportunity of IMA203CD8 across Broad Range of PRAME Expressing Indications

### Deep responses with IMA203CD8 at low doses



Number of patients	n=46	n=69
Total infused dose	4.59	1.60
TCR-T cells [ $\times 10^9$ ]	(1.00-10.20)	(0.44-11.70)
Tumor burden at baseline (mm)	104.0 (21.0-309.80)	93.10 (12.40-434.40)

### Potential for targeting PRAME expressing tumors with IMA203CD8



IMA203CD8 offers similar **depth of response** at  $1.6 \times 10^9$  total infused dose compared to those demonstrated by anzu-cel at  $\sim 3x$  higher dose.

With **higher doses** currently being explored, IMA203CD8 may offer an **enhanced opportunity** to treat cancers across a broad spectrum of **PRAME expression** including ovarian carcinoma, uterine cancer, sqNSCLC, triple-negative breast cancer and others

# IMA203CD8 and Anzu-cel (IMA203) in Cutaneous Melanoma

Cutaneous melanoma	IMA203CD8 Ph1a Dose Escalation	Anzu-cel (IMA203) Ph1a Dose Escalation	Anzu-cel (IMA203) Ph1b Dose Expansion at RP2D
Data cutoff	Oct 27, 2025	Sep 30, 2023	Apr 7, 2025
Efficacy-evaluable patients <sup>1</sup>	22	8	14
Tumor burden (target lesion sum of diameter) [cm], median	6.0	10.6	12.1
Total infused dose TCR T cells [x10 <sup>9</sup> ], median	1.6	1.1	4.0
cORR <sup>2</sup>	39% (7/18)	25% (2/8)	50% (7/14)

- Promising IMA203CD8 dose escalation data at low median dose, but too early for conclusive comparison to anzu-cel
- IMA203CD8 has entered higher dose levels at ~7.2 - 10 billion total TCR T cells outside melanoma to unlock its full clinical potential, next data update expected in 2026