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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

**FORM 6-K**

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

September 11, 2023

Commission File Number: 001-39363

**IMMATICS N.V.**  
Paul-Ehrlich-Straße 15  
72076 Tübingen, Federal Republic of Germany  
(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F:

Form 20-F

Form 40-F

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## INFORMATION CONTAINED IN THIS REPORT ON FORM 6-K

On September 7, 2023, Immatix Biotechnologies GmbH, a subsidiary of Immatix N.V. (the “Company” or “Immatix”), entered into a Master Collaboration and License Agreement (the “Master Collaboration and License Agreement”) with ModernaTX, Inc., a subsidiary of Moderna, Inc. (“Moderna”), relating to three research programs for the development and commercialization of products employing Immatix’ and Moderna’s technologies: (i) a collaboration to discover and develop mRNA-based TCER therapeutics against targets of interest to Moderna (the “TCER Program”); (ii) the validation, generation and application of data useful for the research and development of cancer vaccines (the “Database/Vaccine Program”); and (iii) a combination therapy clinical trial with respect to IMA203 and a Moderna mRNA-based cancer vaccine (the “Clinical Combo Program”). Each research program will be governed by the Master Collaboration and License Agreement and a project agreement as described below.

Pursuant to the Master Collaboration and License Agreement, following Hart-Scott-Rodino Antitrust Improvements Act clearance, Moderna will pay to Immatix a \$120 million upfront payment. In addition, as described below, Immatix may be eligible to receive development, regulatory and commercial milestone payments that could exceed \$1.7 billion.

With respect to the TCER Program, pursuant to the Master Collaboration and License Agreement and the TCER Collaboration Project Agreement between the parties (the “TCER Project Agreement”), the parties will conduct the TCER Program for the research and development of TCERs with respect to HLA-presented peptide targets derived from an agreed upon number of proteins selected by Moderna. Immatix will be responsible for, and be reimbursed the cost of, TCER identification, validation and engineering to generate the applicable TCER sequence and preclinical studies in accordance with the applicable mutually agreed research plan, while Moderna will be responsible for, and bear the cost of, developing, manufacturing and commercializing the applicable products containing or comprising such TCERs; provided that Immatix has a right to co-fund the development and commercialization of certain products by making an opt-in payment in exchange for profit and loss sharing on such products. Immatix will grant to Moderna an exclusive, worldwide sublicensable license to develop, manufacture and commercialize any product (or that contain any product) developed under the TCER Project Agreement. For each target, depending on certain product characteristics, Immatix may be eligible to receive milestone payments of up to a mid-eight-digit amount upon the achievement of certain development milestones and up to a mid-nine-digit amount upon the achievement of certain regulatory and commercial milestones. In addition, during the royalty term (as described below) and depending on certain product characteristics, Immatix will be eligible to receive tiered, mid-single-digit to low-double-digit percentage royalties on worldwide net sales of the applicable product, which royalty percentages are subject to reduction in a given country under certain circumstances. A royalty term with respect to a product under the TCER Program in a given country begins upon the first commercial sale of such product in such country and terminates on the latest of the expiration of regulatory exclusivity, the expiration of valid patent claims covering such product, and 10 years after first commercial sale of the product in a given country. The TCER Project Agreement will expire upon expiration of the last royalty term contemplated by the TCER Project Agreement. During the term of the TCER Program, Immatix has certain exclusivity and notification obligations to Moderna, and its ability to develop, manufacture and commercialize certain cell therapy products that bind to the targets subject to the TCER Project Agreement is limited by the TCER Project Agreement.

With respect to the Database/Vaccine Program, pursuant to the Master Collaboration and License Agreement and the Database/Vaccine Collaboration Project Agreement between the parties (the “Database/Vaccine Project Agreement”), the parties will use Immatix’ XPRESIDENT platform to (i) generate reports for proteins or cancer vaccine candidates and validate cancer vaccine candidates (the “Database Query Program”), (ii) select peptides for respect to specific tumor types selected by Moderna for the development of cancer vaccines (the “Shared Vaccine Program”), and (iii) provide certain epitope prediction data for potential development and validation of cancer vaccines (the “Optimized Vaccine Program”). The term of these programs can be up to approximately five years. Immatix will grant to Moderna an exclusive, worldwide sublicensable license to develop, manufacture and commercialize any Shared Vaccine product or Optimized Vaccine product developed under the Database/Vaccine Project Agreement. Immatix may be eligible to receive (i) depending on the characteristics of the cancer vaccine, certain milestone payments under the Database Query Program, (ii) for each resulting cancer vaccine in the Shared Vaccine Program and the Optimized Vaccine Program, depending on certain product characteristics, up to a low-eight-digit amount upon the achievement of certain development milestones and up to a low-nine-digit amount upon the achievement of certain regulatory and commercial milestones, and (iii) for each resulting cancer vaccine in the Shared Vaccine Program, during the royalty term (as described below) and depending on certain product characteristics, tiered, low- to mid-single-digit percentage royalties on worldwide net sales of such product. A royalty term with respect to a cancer vaccine in the Shared Vaccine Program and the Optimized Vaccine Program in a given country begins upon the first commercial sale of such product in such country and

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terminates on the latest of the expiration of regulatory exclusivity, the expiration of valid patent claims covering such product, and 10 years after first commercial sale of the product in a given country. During the term of the Database/Vaccine Program, Immatics has certain exclusivity obligations to Moderna, and its ability to develop certain cancer vaccines is limited by the Database/Vaccine Project Agreement.

With respect to the Clinical Combo Program, pursuant to the Master Collaboration and License Agreement and the Combination Collaboration Project Agreement between the parties (the "Clinical Combo Project Agreement"), the parties will collaborate to develop a combination therapy of IMA203 (or IMA203CD8) and a Moderna mRNA-based cancer vaccine. Immatics will be responsible for, and the parties will share the cost of, development activities in accordance with the applicable mutually agreed research plan. For so long as the parties are conducting the combination therapy clinical trial, Immatics has certain exclusivity obligations to Moderna, and its ability to develop, manufacture and commercialize combination products that involve a cancer vaccine and a cell therapy product that binds to the target of IMA203 is limited by the Clinical Combo Project Agreement.

The foregoing descriptions of the Master Collaboration and License Agreement and the project agreements thereunder do not purport to be complete and are qualified in their entirety by reference to the full text of the applicable agreements, which will be filed as an exhibit to the Company's Annual Report on Form 20-F for the year ended December 31, 2023 or a Report on Form 6-K.

In connection with the foregoing, the Company issued a press release, a copy of which is attached hereto as Exhibit 99.1, and made available an updated investor presentation on its website, a copy of which is attached hereto as Exhibit 99.2.

#### INCORPORATION BY REFERENCE

This Report on Form 6-K (other than Exhibit 99.1 and 99.2 hereto) shall be deemed to be incorporated by reference into the registration statements on Form F-3 (Registration Nos. 333-258351, 333-240260 and 333-274218) of Immatics N.V. and to be a part thereof from the date on which this report is filed, to the extent not superseded by documents or reports subsequently filed or furnished.

#### EXHIBIT INDEX

<b>Exhibit No.</b>	<b>Description</b>
99.1	Press release dated September 11, 2023
99.2	Presentation dated September 11, 2023

#### SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: September 11, 2023

#### IMMATICS N.V.

By: /s/ Harpreet Singh  
Name: Harpreet Singh  
Title: Chief Executive Officer

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## PRESS RELEASE

### Moderna and Immatics Announce Strategic Multi-Platform Collaboration to Develop Innovative Oncology Therapeutics

- Collaboration combines leading technologies to develop breakthrough, mRNA-enabled *in vivo* expressed TCER® molecules
- Companies to leverage Immatics' XPRESIDENT® target discovery platform and Moderna's mRNA technology for the development of novel cancer vaccines
- Collaboration to include evaluation of Immatics' investigational IMA203 PRAME TCR-T in combination with Moderna's investigational PRAME mRNA cancer vaccine
- Immatics to receive \$120 million upfront cash payment plus research funding with the potential for additional milestone and royalty payments

**Cambridge, Massachusetts and Tuebingen, Germany, September 11, 2023** – Moderna, Inc. (NASDAQ: MRNA, “Moderna”) and Immatics N.V. (NASDAQ: IMTX, “Immatics”), a clinical-stage biopharmaceutical company active in the discovery and development of T cell-redirecting cancer immunotherapies, today announced a strategic research and development collaboration to pioneer novel and transformative therapies for cancer patients with high unmet medical need. This broad multi-platform collaboration will leverage the deep scientific expertise and core operational capabilities of both companies, combining Immatics' TCR platform with Moderna's cutting-edge mRNA technology, and span various therapeutic modalities including bispecifics, cell therapy and cancer vaccines.

The strategic R&D collaboration between Moderna and Immatics focuses on three pillars:

- Applying Moderna's mRNA technology for *in vivo* expression of Immatics' next-generation, half-life extended TCR bispecifics (TCER®) targeting cancer-specific HLA-presented peptides.
- Enabling the discovery and development of novel mRNA-based cancer vaccines by leveraging Moderna's deep knowledge of mRNA science and customized information from Immatics' wealth of tumor and normal tissue data included in the target discovery platform XPRESIDENT® and its bioinformatics and AI platform XCUBE™.
- Evaluating Immatics' IMA203 TCR-T therapy targeting PRAME in combination with Moderna's PRAME mRNA-based cancer vaccine. The collaboration contemplates conducting preclinical studies and a Phase 1 clinical trial evaluating the safety and efficacy of the combination with the objective of further enhancing IMA203 T cell responses.

"We are excited to embark on this strategic collaboration with Immatics, a pioneer in developing innovative cancer immunotherapies. This partnership presents a groundbreaking opportunity to leverage our mRNA technology alongside Immatics' TCR platform, potentially diversifying and augmenting the way we approach cancer treatment. We believe this collaboration will accelerate the development of novel oncology therapies and bring us one step closer to providing significant benefits for patients with high unmet medical needs," said Rose Loughlin, Ph.D., Moderna's Senior Vice President for Research and Early Development.

"We are thrilled to join forces with Moderna in our quest to pioneer innovative and transformative therapies to combat cancer. We believe Immatics' cancer target and TCR platforms, along with Moderna's cutting-edge mRNA technology, represent a powerful combination that has the potential to deliver meaningful benefits to cancer patients," said Toni Weinschenk, PhD, Chief Innovation Officer at Immatics. "The rapid advancement of our first 2 TCER® programs into the clinic, with additional TCER® compounds fueling our pre-clinical pipeline, underscores our commitment to develop innovative therapeutics. We are confident that we can explore the optimal delivery of TCER® molecules through this collaboration to maximize clinical benefit in a broad patient population," added Carsten Reinhardt, MD, PhD, Chief Development Officer of Immatics.

#### **About the Collaboration**

Under the terms of the agreement, Immatics will receive an upfront payment of \$120 million. Immatics will also receive research funding and is eligible to receive development, regulatory, and commercial milestone payments that could exceed \$1.7 billion. Immatics is also eligible to receive tiered royalties on global net sales of TCER® products and certain vaccine products that are commercialized under the agreement. Under the agreement, Immatics has an option to enter into a global profit and loss share arrangement for the most advanced TCER®.

Moderna will lead the clinical development and commercialization of cancer vaccines and TCER® therapeutics resulting from the collaboration. Immatics will be responsible for conducting the preclinical studies and a potential Phase 1 clinical trial investigating IMA203 TCR-T in combination with the PRAME mRNA vaccine to further enhance IMA203 T cell responses. Each party will retain full ownership of its investigational PRAME compound, and the parties will fund the clinical study on a cost sharing basis.

Within the collaboration, preclinical activities conducted by Immatics will be managed by the Immatics Discovery Unit, a recently created internal division at Immatics integrating its

technology platforms into one interdisciplinary team focused on all early-stage preclinical pipeline and collaboration programs.

The collaboration is subject to customary antitrust clearance in the United States.

– END –

#### **About Moderna**

In over 10 years since its inception, Moderna has transformed from a research-stage company advancing programs in the field of messenger RNA (mRNA), to an enterprise with a diverse clinical portfolio of vaccines and therapeutics across seven modalities, a broad intellectual property portfolio in areas including mRNA and lipid nanoparticle formulation, and an integrated manufacturing plant that allows for both clinical and commercial production at scale. Moderna maintains alliances with a broad range of domestic and overseas government and commercial collaborators, which has allowed for the pursuit of both groundbreaking science and rapid scaling of manufacturing. Most recently, Moderna's capabilities have come together to allow the authorized use and approval of one of the earliest and most effective vaccines against the COVID-19 pandemic.

Moderna's mRNA platform builds on continuous advances in basic and applied mRNA science, delivery technology, and manufacturing, and has allowed the development of therapeutics and vaccines for infectious diseases, immune-oncology, rare diseases, cardiovascular diseases, and autoimmune diseases. Moderna Genomics was created to leverage the recent advancement in both the RNA delivery platform and the genomic medicines to create the next generation of in vivo gene editing therapeutics. Moderna has been named a top biopharmaceutical employer by Science for the past eight years. To learn more, visit [www.modernatx.com](http://www.modernatx.com).

#### **Moderna Forward-Looking Statements:**

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including regarding: the agreement between Moderna and Immatics to develop innovative oncology therapeutics; the opportunity presented by the collaboration to leverage Moderna's mRNA technology alongside Immatics' TCR platform to potentially diversify and augment the way we approach cancer treatment; the potential for the collaboration to accelerate the development of novel oncology therapies; and the antitrust clearance process in the United States. The forward-looking statements in this press release are neither promises nor guarantees, and you should not place undue reliance on these forward-looking statements because they involve known and unknown risks, uncertainties, and

other factors, many of which are beyond Moderna's control and which could cause actual results to differ materially from those expressed or implied by these forward-looking statements. These risks, uncertainties, and other factors include those other risks and uncertainties described under the heading "Risk Factors" in Moderna's Annual Report on Form 10-K for the year ended December 31, 2022, filed with the U.S. Securities and Exchange Commission (SEC), and in subsequent filings made by Moderna with the SEC, which are available on the SEC's website at [www.sec.gov](http://www.sec.gov). Except as required by law, Moderna disclaims any intention or responsibility for updating or revising any forward-looking statements contained in this press release in the event of new information, future developments or otherwise. These forward-looking statements are based on Moderna's current expectations and speak only as of the date of this press release.

#### **About Immatics**

Immatics combines the discovery of true targets for cancer immunotherapies with the development of the right T cell receptors with the goal of enabling a robust and specific T cell response against these targets. This deep know-how is the foundation for our pipeline of Adoptive Cell Therapies and TCR Bispecifics as well as our partnerships with global leaders in the pharmaceutical industry. We are committed to delivering the power of T cells and to unlocking new avenues for patients in their fight against cancer.

Immatics intends to use its website [www.immatics.com](http://www.immatics.com) as a means of disclosing material non-public information. For regular updates you can also follow us on Twitter, Instagram and LinkedIn.

#### **Immatics Forward-Looking Statements:**

Certain statements in this press release may be considered forward-looking statements. Forward-looking statements generally relate to future events or Immatics' future financial or operating performance. For example, statements concerning the timing of product candidates and Immatics' focus on partnerships to advance its strategy are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "may", "should", "expect", "intend", "will", "estimate", "anticipate", "believe", "predict", "potential" or "continue", or the negatives of these terms or variations of them or similar terminology. Such forward-looking statements are subject to risks, uncertainties, and other factors which could cause actual results to differ materially from those expressed or implied by such forward looking statements. These forward-looking statements are based upon estimates and assumptions that, while considered reasonable by Immatics and its management, are inherently uncertain. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. Factors that may cause actual results to differ materially from current expectations include, but are not limited to, various factors beyond management's control

including general economic conditions and other risks, uncertainties and factors set forth in filings with the SEC. Nothing in this press release should be regarded as a representation by any person that the forward-looking statements set forth herein will be achieved or that any of the contemplated results of such forward-looking statements will be achieved. You should not place undue reliance on forward-looking statements, which speak only as of the date they are made. Immatics undertakes no duty to update these forward-looking statements.

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# Immatics Corporate Presentation

September 11, 2023



*Delivering the Power of T cells to Cancer Patients*

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This presentation ("Presentation") is provided by Immatics N.V. ("Immatics" or the "Company") for informational purposes only. The information contained herein does not purport to be all-inclusive and none of Immatics, any of its affiliates, any of its or their respective control persons, officers, directors, employees or representatives makes any representation or warranty, express or implied, as to the accuracy, completeness or reliability of the information contained in this Presentation.

**Forward-Looking Statements.** Certain statements in this presentation may be considered forward-looking statements. Forward-looking statements generally relate to future events or the Company's future financial or operating performance. For example, statements concerning timing of data read-outs for product candidates, the timing of IND or CTA filing for pre-clinical stage product candidates, the Company's focus on partnerships to advance its strategy, and other metrics are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "may", "should", "expect", "intend", "will", "estimate", "anticipate", "believe", "predict", "potential" or "continue", or the negatives of these terms or variations of them or similar terminology. Such forward-looking statements are subject to risks, uncertainties, and other factors which could cause actual results to differ materially from those expressed or implied by such forward looking statements. These forward-looking statements are based upon estimates and assumptions that, while considered reasonable, Immatics and its management, are inherently uncertain. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. Factors that may cause actual results to differ materially from current expectations include, but are not limited to, various factors beyond management's control including general economic conditions and other risks, uncertainties and factors set forth in the Company's Annual report on Form 20-F and other filings with the Securities and Exchange Commission (SEC). Nothing in this presentation should be regarded as a representation by any person that the forward-looking statements set forth herein will be achieved or that any of the contemplated results of such forward-looking statements will be achieved. You should not place undue reliance on forward-looking statements, which speak only as of the date they are made. The Company undertakes no duty to update these forward-looking statements.

**No Offer or Solicitation.** This communication is for informational purposes only and does not constitute, or form a part of, an offer to sell or the solicitation of an offer to sell or an offer to buy or the solicitation of an offer to buy any securities, and there shall be no sale of securities, in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction. No offer of securities shall be made except by means of a prospectus meeting the requirements of Section 10 of the Securities Act of 1933, as amended, or in an offering exempt from registration.

Certain information contained in this Presentation relates to or is based on studies, publications, surveys and the Company's own internal estimates and research. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, while the Company believes its internal research is reliable, such research has not been verified by any independent source. All the scientific and clinical data presented within this presentation are – by definition prior to completion of the clinical trial and a clinical study report – preliminary in nature and subject to further quality checks including customary source data verification.



## Two Clinical-Stage Modalities

Pipeline of TCR-T and TCR Bispecific product candidates in clinical & preclinical development



## Clinical PoC for Cell Therapy

Anti-tumor activity and durability of response across multiple solid tumors in early TCR-T clinical development



## Differentiated Platforms

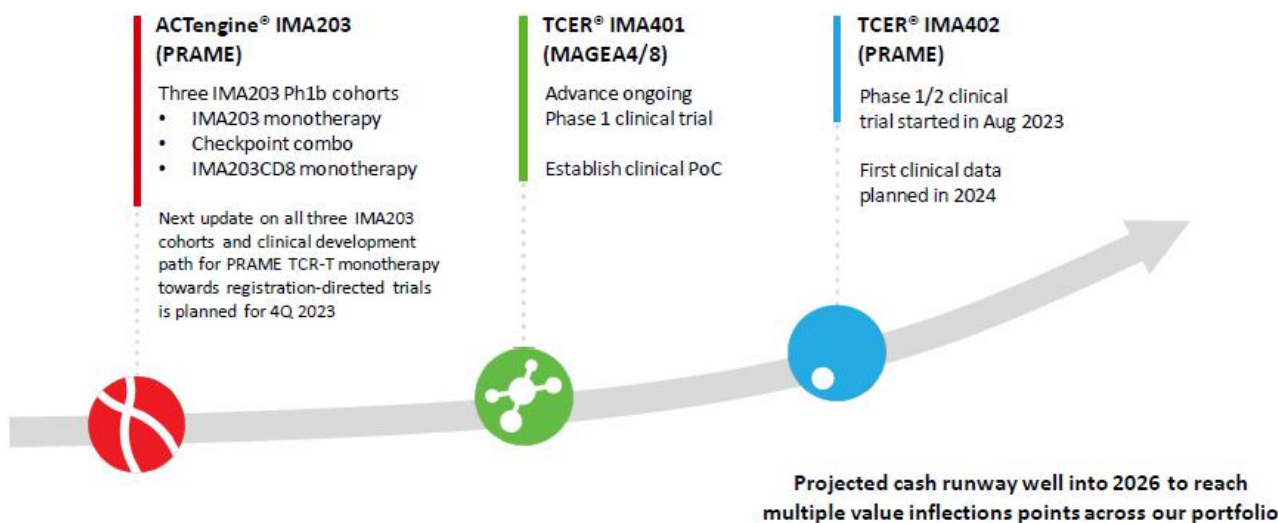
Unique technologies to identify true cancer targets and right TCRs



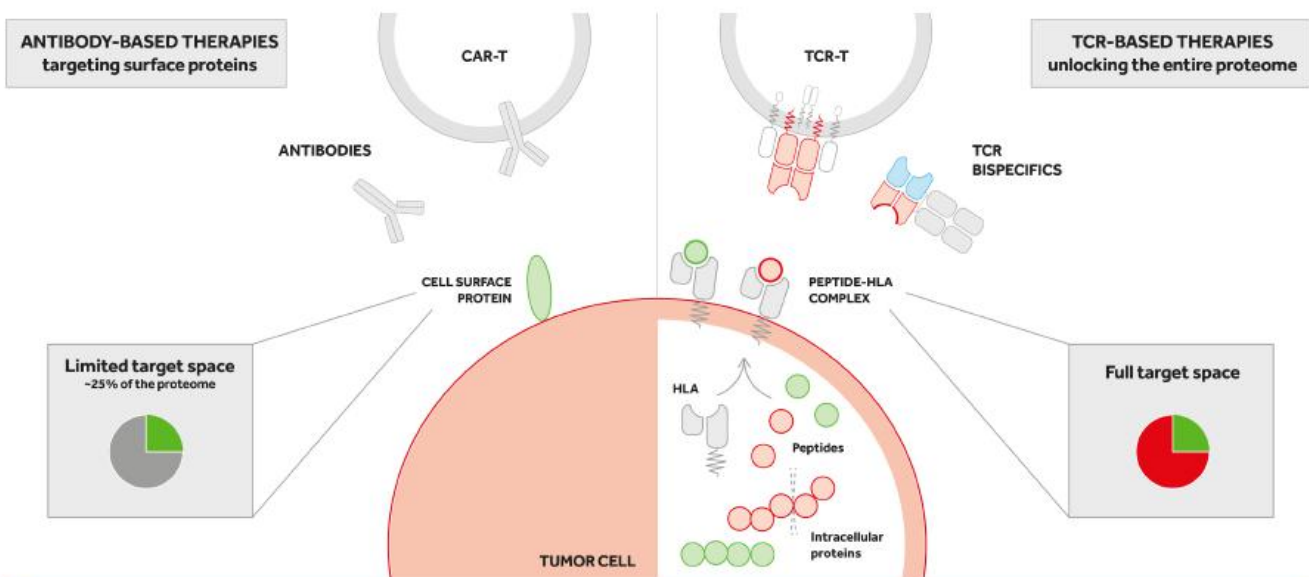
## Therapeutic Opportunity

Potential for addressing large patient populations with high prevalence targets in solid tumors

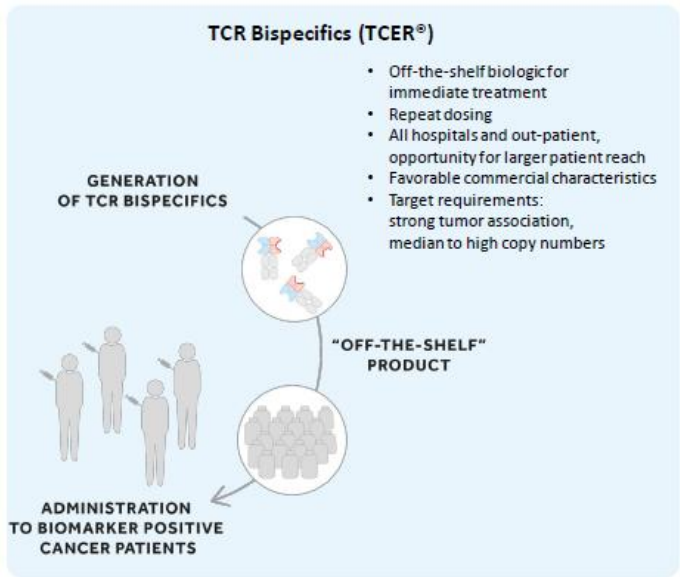
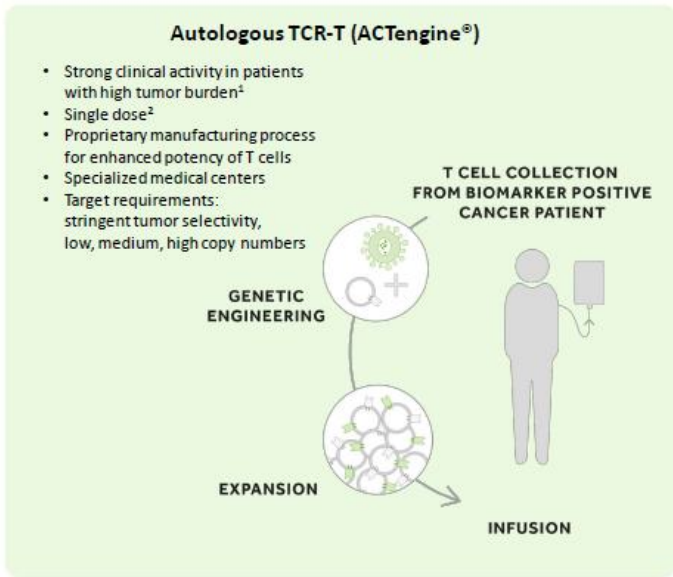
# Our Near-Term Focus – Clinical Development of Our Lead Assets from Our Autologous TCR-T (ACTEngine®) and TCR Bispecifics (TCER®) Pipeline



# Our TCR-based Approaches Leverage the Full Target Space beyond the Cancer Cell Surface







**Differentiated positioning of ACTEngine® vs. TCER® based on patient population and medical need**

# Our Pipeline of TCR-based Adoptive Cell Therapies and Bispecifics



# Immatic & Moderna – A Strategic Cross-platform R&D Collaboration

## Combining Immatics' Target and TCR Platforms with Moderna's mRNA Technology



### TCER<sup>®</sup> mRNA Approach

Development of mRNA-enabled *in vivo* expressed half-life extended TCER<sup>®</sup> molecules targeting cancer-specific HLA-presented peptides

Option for global P&L sharing for most advanced TCER<sup>®</sup> program

### mRNA Cancer Vaccines

Development of mRNA cancer vaccines by leveraging Moderna's mRNA technology and Immatics' target discovery platform XPRESIDENT<sup>®</sup> and bioinformatics and AI platform XCUBE<sup>™</sup>

### TCR-T + mRNA Vaccine Combo

Evaluation of Immatics' IMA203 TCR-T therapy targeting PRAME in combination with Moderna's PRAME mRNA-based cancer vaccine<sup>1</sup>

#### Economics

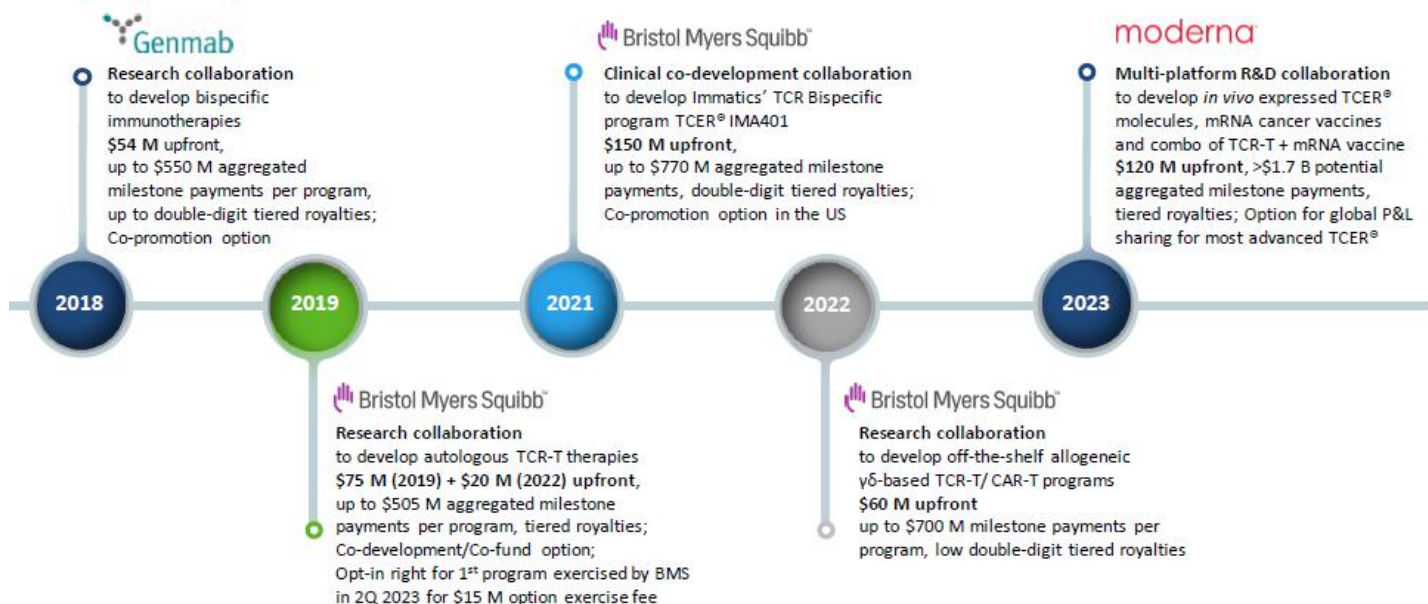
- \$120 million upfront cash payment plus research funding
- >\$1.7 billion potential development, regulatory & commercial milestones
- Potential for tiered royalties on global net sales of TCER<sup>®</sup> products and certain cancer vaccine products commercialized under the agreement



# Strategic Collaborations



## Synergistic Expertise that Can Foster Transformative Innovations across Various Modalities



## IMA203 / IMA402 PRAME

Uterine Carcinoma – 100%  
 Uterine Carcinosarcoma – 100%  
 Sarcoma Subtypes – up to 100%  
 Cut. Melanoma – 95%  
 Uveal Melanoma<sup>1</sup> – 90%  
 Ovarian Carcinoma – 80%  
 Squamous NSCLC – 65%  
 TNBC – 60%  
 Small Cell Lung Cancer – 55%  
 Kidney Carcinoma – up to 45%  
 Cholangiocarcinoma – 35%  
 Adeno NSCLC – 25%  
 Breast Carcinoma – 25%  
 HNSCC – 25%  
 Esophageal Carcinoma – 20%  
 HCC – 20%  
 Bladder Carcinoma – 20%

## IMA401 MAGEA4/8

Sarcoma Subtypes – up to 80%  
 Squamous NSCLC – 50%  
 HNSCC – 35%  
 Bladder Carcinoma – 30%  
 Esophageal Carcinoma – 25%  
 Uterine Carcinosarcoma – 25%  
 Ovarian Carcinoma – 20%  
 Melanoma – 20%

## IMA204 COL6A3 Exon 6

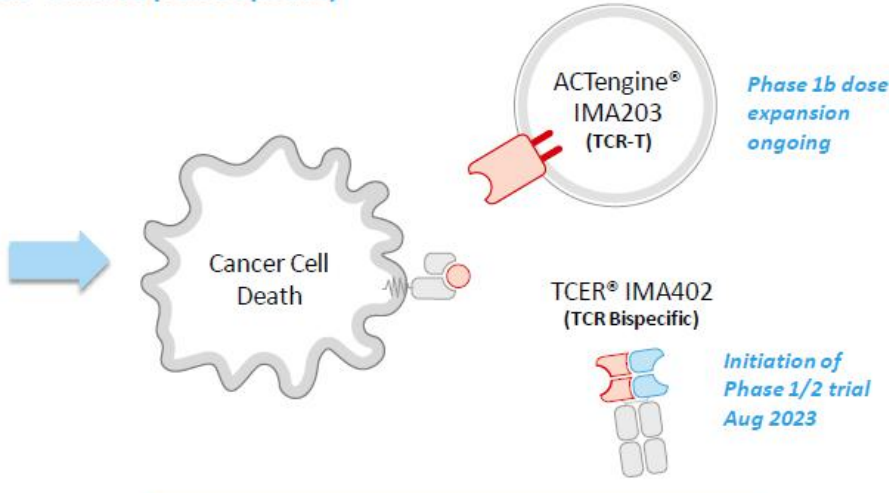
Pancreatic Carcinoma – 80%  
 Breast Carcinoma – 75%  
 Stomach Carcinoma – 65%  
 Sarcoma – 65%  
 Esophageal Carcinoma – 60%  
 Squamous NSCLC – 55%  
 Adeno NSCLC – 55%  
 HNSCC – 55%  
 Uterine Carcinosarcoma – 55%  
 Colorectal Carcinoma – 45%  
 Mesothelioma – 45%  
 Cholangiocarcinoma – 40%  
 Ovarian Carcinoma – 40%  
 Melanoma – 35%  
 Bladder Carcinoma – 35%

**ACTEngine® and TCER® targets demonstrate high prevalence in multiple solid cancers**

# Realizing the Full Multi-Cancer Opportunity of PRAME

ACTengine® IMA203 (TCR-T) and TCER® IMA402 (TCR Bispecific)

Indication	% PRAME positive patients <sup>1</sup>
Uterine Carcinoma	100%
Uterine Carcinosarcoma	100%
Sarcoma Subtypes	up to 100%
Cut. Melanoma	95%
Uveal Melanoma <sup>2</sup>	90%
Ovarian Carcinoma	80%
Squamous NSCLC	65%
TNBC	60%
Small Cell Lung Cancer	55%
Kidney Carcinoma	up to 45%
Cholangiocarcinoma	35%
Adeno NSCLC	25%
Breast Carcinoma	25%
HNSCC	25%
Esophageal Carcinoma	20%
HCC	20%
Bladder Carcinoma	20%



PRAME is one of the most promising and most prevalent, clinically validated solid tumor targets known to date

Leverage the full potential of targeting PRAME by continued evaluation of the best suited therapeutic modality (ACTengine® vs. TCER® or both) for each cancer type

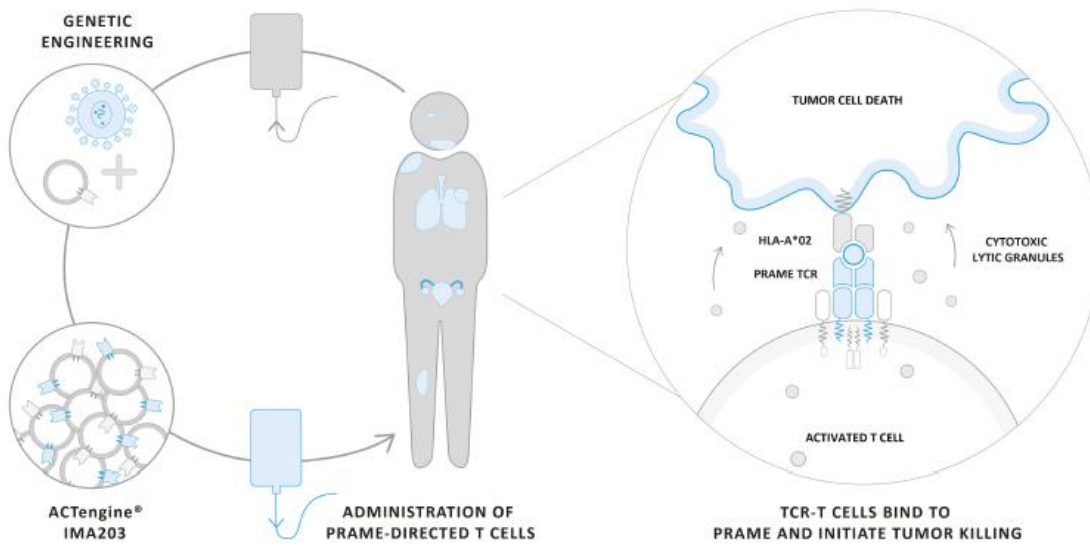
**Intro** <sup>1</sup> PRAME target prevalence is based on TCGA (for SCLC in-house) RNAseq data combined with a proprietary mass spec-guided RNA expression threshold; <sup>2</sup> Uveal melanoma target prevalence is based on IMADetect® qPCR testing of screening biopsies from clinical trial patients (n=21); NSCLC: Non-small cell lung cancer, TNBC: Triple-negative breast cancer, HNSCC: Head and neck squamous cell carcinoma, HCC: Hepatocellular carcinoma



## ACTengine® IMA203 – TCR-T Targeting PRAME

# ACTengine® IMA203 Targeting PRAME – Mechanism of Action

## Immatic's Leading TCR-T Approach



# Key Pillars of Developing a Successful TCR-T Product Candidate

## Summary of Interim Update on IMA203 TCR-T Phase 1b Cohort A as of April 2023



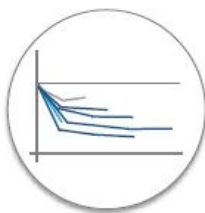
### Safety

Manageable tolerability at doses as high as  $\sim 9 \times 10^9$  TCR-T cells



### Anti-Tumor Activity

High rate of objective responses:  
64% (7/11) ORR<sup>1</sup>  
67% (6/9) cORR<sup>2</sup>



### Durability

Ongoing durable responses at 9+ months  
mDOR: Not reached  
min 1.3+, max 8.8+  
mFU: 8.5 months



### Product Quality

Rapid manufacturing time of 7 days (+ 7-day release testing), manufacturing success rate of 94%



### Broad Reach

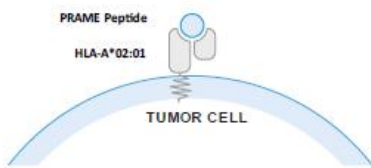
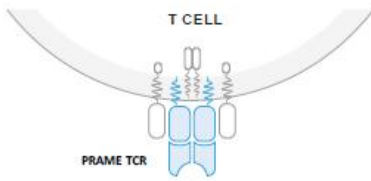
Confirmed objective responses in broad range of solid cancer types at low, medium and high PRAME levels above threshold

IMA203 <sup>1</sup>Initial ORR: Objective response rate according to RECIST 1.1 at first scan post infusion at week 6; <sup>2</sup>Confirmed ORR (cORR): Confirmed objective response rate according to RECIST 1.1 for patients with available second scan post infusion at month 3 or patients with progressive disease (PD) at any timepoint before this scan; mDOR: median duration of response; mFU: median follow-up



# The Multi-Cancer Opportunity of PRAME

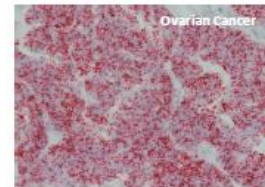
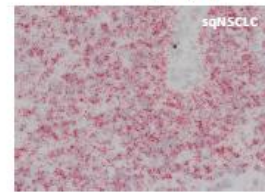
One of the Most Promising Solid Tumor Targets for TCR-based Therapies Known To Date

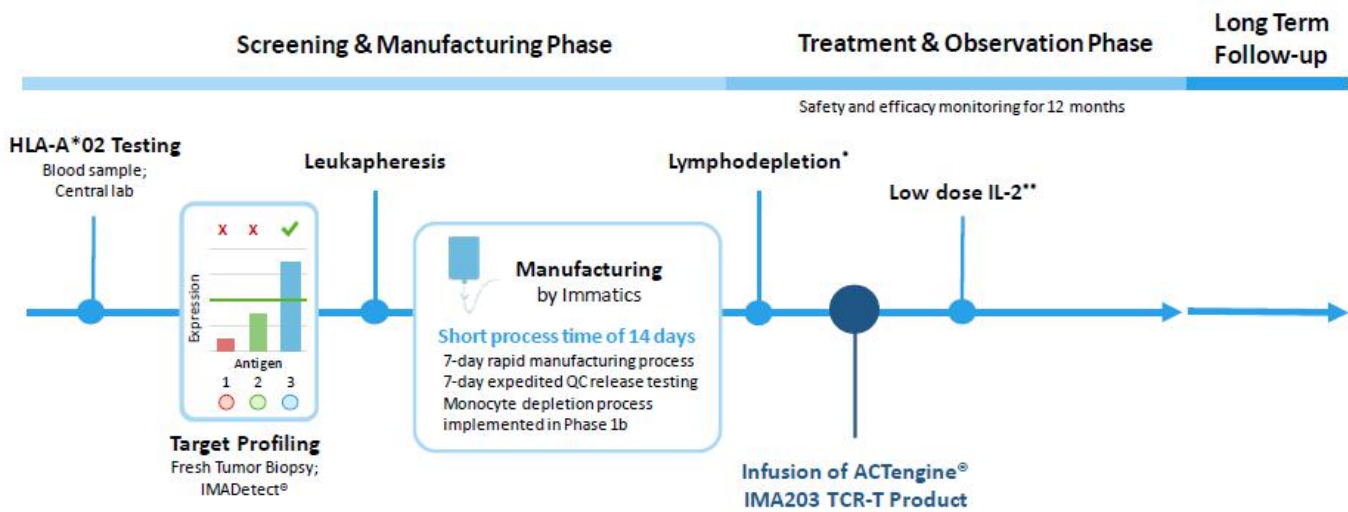


**PRAME fulfills all properties of an ideal target for TCR-based therapies**

- ✓ High prevalence
- ✓ High target density
- ✓ Homogeneous expression
- ✓ “Clean” expression profile
- ✓ Clinical proof-of-concept

PRAME RNA detection in tumor samples (ISH)

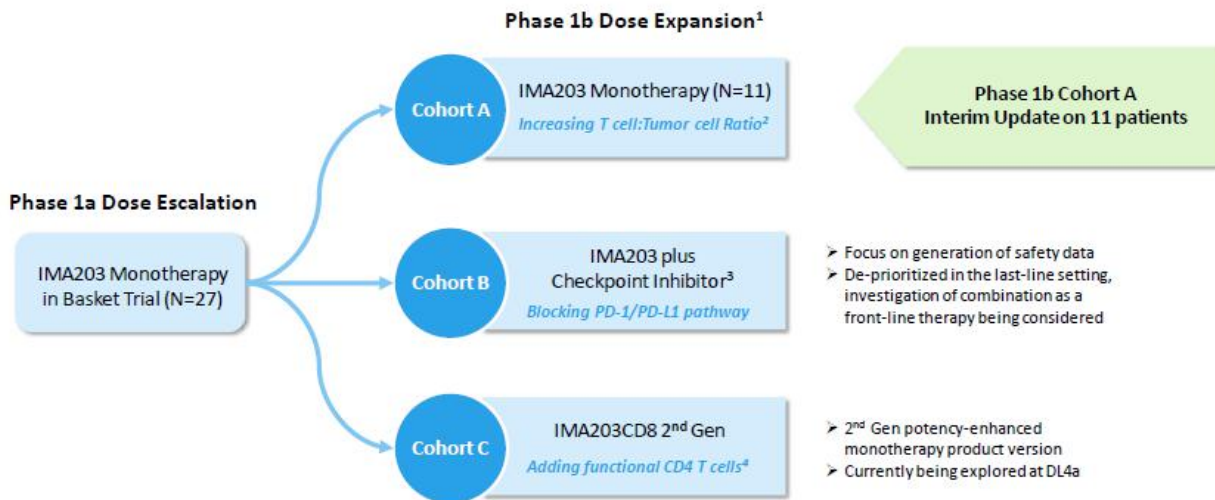






# ACTengine® IMA203 TCR-T Phase 1 Design

## Focus on IMA203 TCR-T Monotherapy Investigated in Cohort A



Data cut-off Apr 04, 2023

IMA203

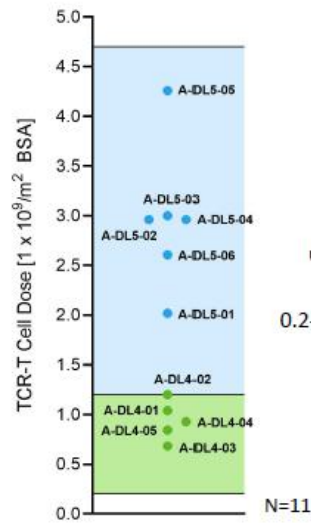
<sup>1</sup> Provisional recommended Phase 2 dose (RP2D) for Cohort A and B determined at DL4a (0.2-4.7 x 10<sup>6</sup> TCR-T cells/m<sup>2</sup> BSA); IMA203CD8 (Cohort C) is currently being explored at DL4a (0.481-0.8x10<sup>6</sup> TCR-T cells/m<sup>2</sup> BSA);  
<sup>2</sup> Demonstrated to be associated with durable response: Locke et al 2020 Blood Advances; <sup>3</sup> Opdivo® (nivolumab), programmed death-1 (PD-1) immune checkpoint inhibitor,  
<sup>4</sup> Demonstrated to be important for long-term repletion: Meesterhout et al 2022 Nature, Bai et al 2022 Science Advances.

# ACTengine® IMA203 TCR-T Monotherapy – Phase 1b Cohort A

## Patient and Product Characteristics



Patients in Phase 1b Cohort A (N=11) <sup>1</sup>	
<b>Age</b>	<b>55.4</b>
Mean (min, max)	(31, 79)
<b>Gender</b>	<b>45.5 / 54.5</b>
Male / Female [% of patients]	
<b>Prior lines of treatment</b>	<b>3.7</b>
Mean (min, max)	(1, 10)
<b>LDH at baseline</b>	<b>54.5</b>
>1 x ULN [% of patients]	
<b>Baseline tumor burden</b>	<b>73.8</b>
Mean target lesion sum of diameter [mm] (min, max)	(21.0, 207.3)
<b>Total infused dose</b>	<b>3.67</b>
Mean TCR-T cells <sup>2</sup> infused [x10 <sup>9</sup> ] (min, max)	(1.30, 8.84)



DL5 cleared for safety, updated provisional RP2D comprises DL4 + DL5: 0.2-4.7 x 10<sup>9</sup> TCR-T cells/m<sup>2</sup> BSA

Heavily pre-treated, metastatic last-line patients that have exhausted all available standard of care treatments

## Most Frequent Adverse Events – Phase 1b Cohort A (N=11)

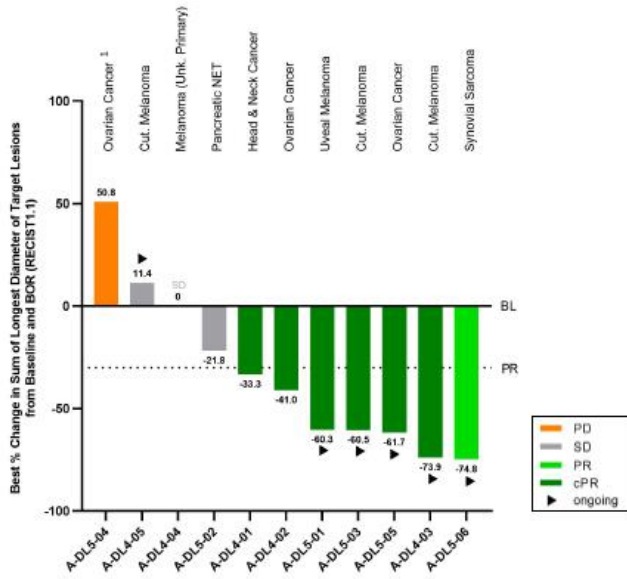
### Manageable Treatment-emergent Adverse Events (TEAEs)

- **Expected cytopenia (Grade 1-4)** associated with lymphodepletion in all patients
- **Low-moderate cytokine release syndrome (CRS)** in 91% (10/11) of patients
  - 45% (5/11) of patients had Grade 1 CRS (3 in DL4, 2 in DL5)
  - 45% (5/11) of patients had Grade 2 CRS (2 in DL4, 3 in DL5)
  - No dose-dependent increase of CRS
- **No ICANS<sup>1</sup>**
- **No Dose-limiting toxicity**
- For IMA203 TCR-T monotherapy tolerability profile including Phase 1a dose escalation, see appendix

**IMA203 TCR-T monotherapy shows manageable tolerability at total doses as high as  $\sim 9 \times 10^9$  TCR-T cells**

# Best Overall Response – Phase 1b Cohort A

## Deep Objective Responses Independent of Tumor Type



ORR (at ~week 6)<sup>2</sup> 64% (7/11)

cORR (at ~month 3)<sup>3</sup> 67% (6/9)

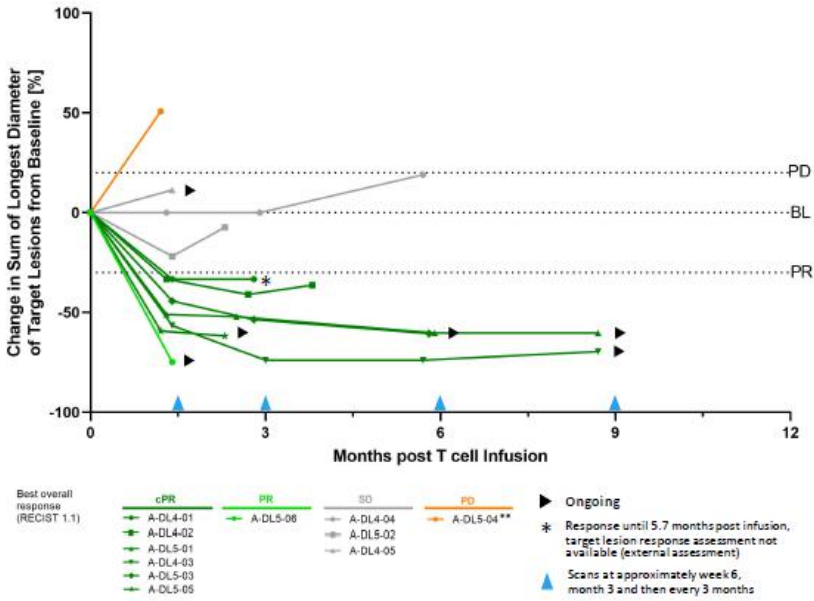
### Deep objective responses observed across multiple, heavily pre-treated tumor types

- Responses observed in cutaneous and uveal melanoma, synovial sarcoma, head and neck cancer, and ovarian cancer
- Initial responses at week 6 were confirmed in all 6 responders with available subsequent 3-month scan
- All cut. melanoma patients were CPI-refractory
- All ovarian cancer patients were platinum-resistant

# Response over Time – Phase 1b Cohort A



## Durable Partial Responses 9+ Months after IMA203 TCR-T Treatment



Median DOR<sup>1</sup>,  
min, max DOR      Not reached,  
1.3+, 8.8+ months

Median Follow-up<sup>2</sup>      8.5 months

Median time from IMA203 TCR-T infusion  
to onset of response was 1.4 months

Ongoing responses in 5 of 7 responders:

- 2 cPRs (cut. & uveal melanoma) ongoing at 9+ months
- 1 cPR (cut. melanoma) ongoing at 6+ months
- 1 cPR (ovarian cancer) ongoing at ~3 months
- 1 PR (synovial sarcoma) ongoing at 6+ weeks

IMA203 \*Ovarian cancer patient A-DL5-04 erroneously received one dose of nivolumab and is part of intent-to-treat population (shown here) but not per-protocol population; <sup>1</sup> Duration of response (DOR) in confirmed responses is defined as time from first documented response until disease progression/death. Patients with ongoing response will be assessed at date of data cut-off. Median DOR is analyzed by using the Kaplan-Meier method; <sup>2</sup> Median Follow-up is analyzed by using the reverse Kaplan-Meier method; PD: Progressive Disease; SD: Stable Disease; PR: Partial Response; cPR: Confirmed Partial Response; BL: Baseline

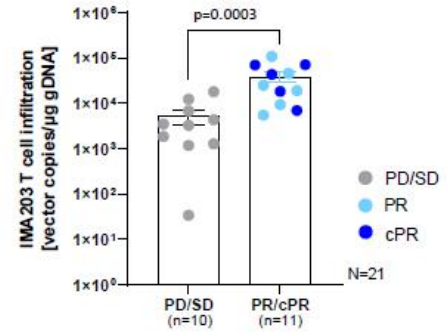
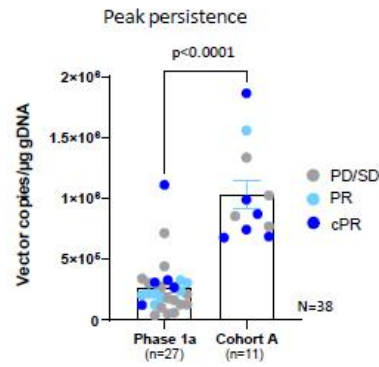
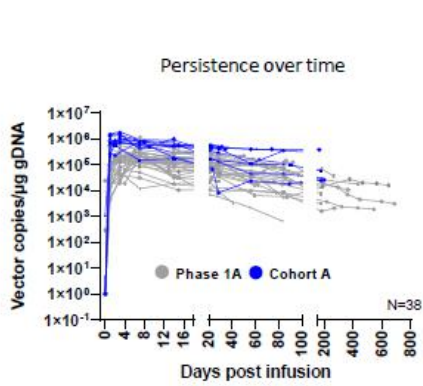
# Biological Data Consistent with Clinical Data



## IMA203 TCR-T Levels and Tumor Infiltration across Patients in Phase 1a and Phase 1b Cohort A

Increased levels of IMA203 T cells in the blood of patients in Cohort A following increase of cell dose and switch to monocyte depletion process

IMA203 T cells found in all evaluable tumor tissues, level of infiltration associated with objective responses<sup>1</sup>





# Favorable TCR-T Product Characteristics and High TCR-T Levels in Patients

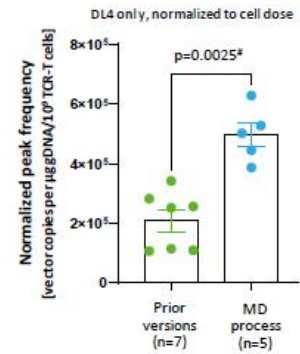
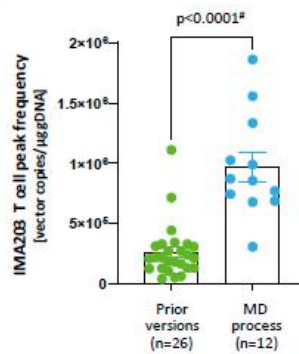
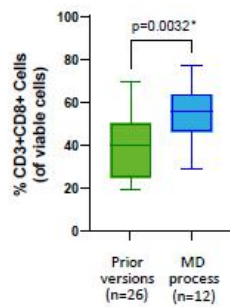
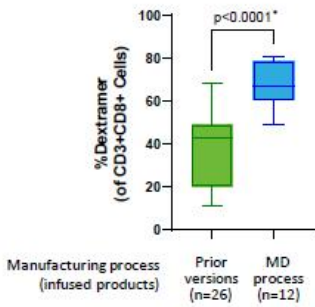
## Manufacturing Improvements Implemented in Phase 1b Enhance Key Features of the Cell Product



### Improved TCR-T product features



### Increased peak TCR-T levels in patients

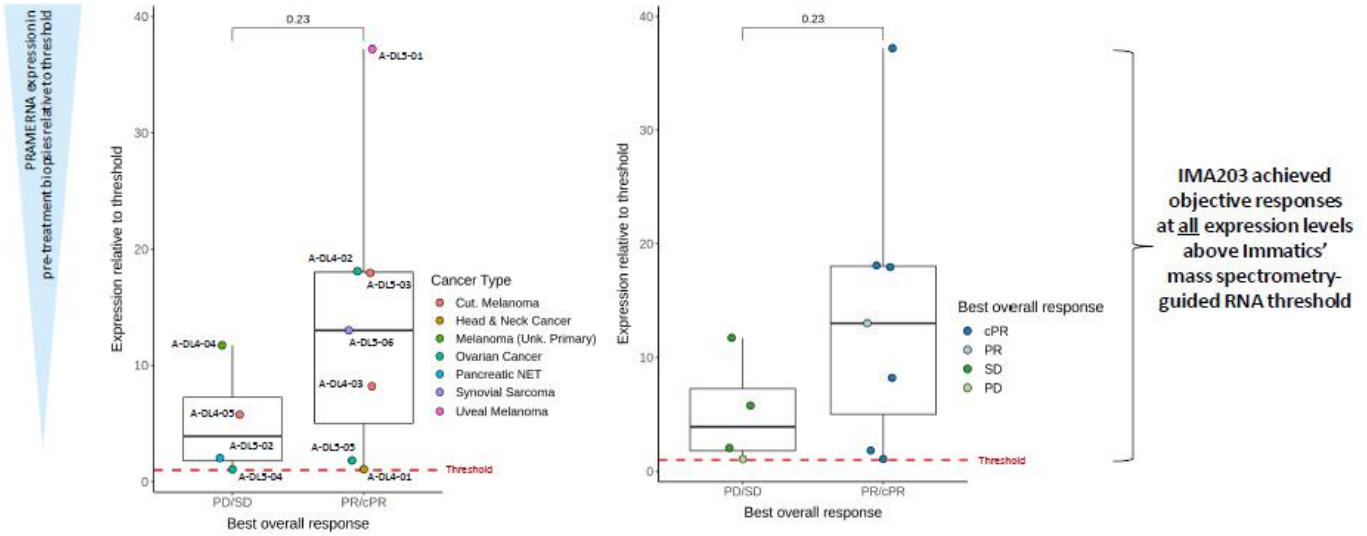


**Manufacturing success rate of 94% to reach provisional RP2D\*\***

Mean cell dose infused in 11 patients in Phase 1b Cohort A was 3.67 × 10<sup>9</sup> TCR-T cells

# Responses above Immatics' PRAME RNA Threshold Independent of Tumor Type

## Highlighting Tumor Types (left) and Type of Best Overall Response (right) – Phase 1b Cohort A

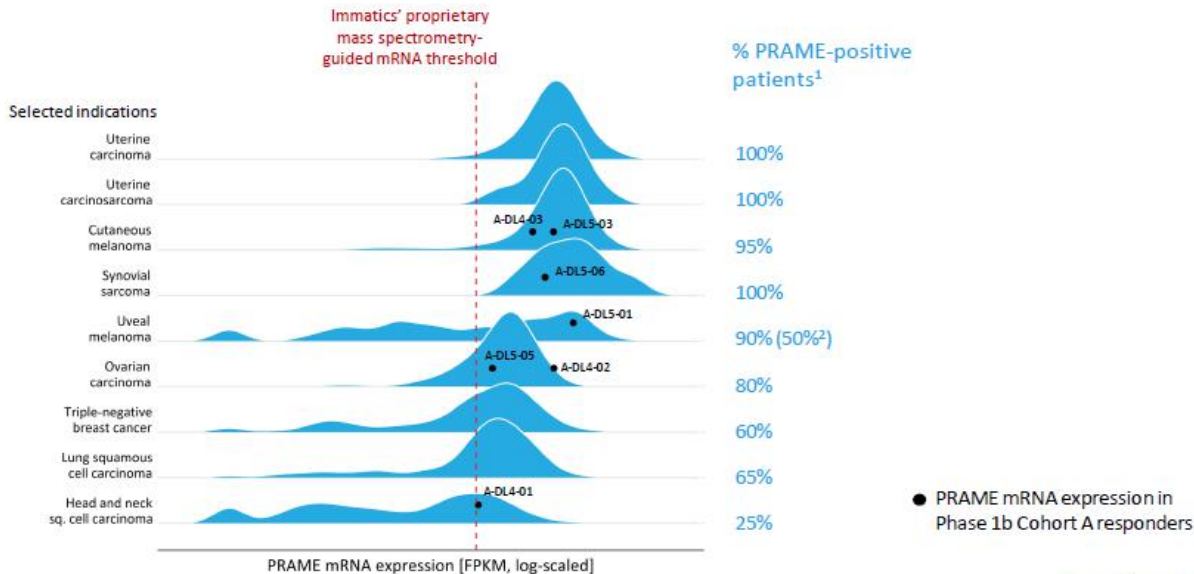


IMA203 has the potential to provide clinical benefit for all PRAME biomarker-positive cancer patients



# Potential of IMA203 in Additional Solid Cancer Indications

## Based on PRAME Expression in IMA203 TCR-T Responders – Phase 1b Cohort A



Data cut-off Apr 04, 2023

# ACTengine® IMA203 TCR-T Monotherapy Targeting PRAME

## Summary of Phase 1b Cohort A Interim Data Update



- **Manageable tolerability** with no high-grade CRS, no ICANS in 11 patients in Cohort A<sup>1</sup>
- **Objective responses observed in heavily pre-treated last-line solid cancer patients** including checkpoint-refractory cutaneous melanoma, platinum-resistant ovarian cancer, uveal melanoma, head and neck cancer, synovial sarcoma
- **High objective response rate (ORR):**
  - 64% (7/11) ORR (at ~week 6)
  - 67% (6/9) cORR (at ~month 3)
- **Ongoing durable responses:**
  - Median duration of response not reached at a median follow-up time of 8.5 months
  - Ongoing PRs 9+ months after IMA203 TCR-T treatment
- **Objective responses independent of tumor type at low, medium and high PRAME levels above threshold**
- **Manufacturing success rate of 94%** to reach current RP2D, **rapid 7-day manufacturing process (+7-day release testing)**

**Increased confidence in the success and broad potential of targeting PRAME  
and our product candidate IMA203 TCR-T**

IMA203

<sup>1</sup> For IMA203 TCR-T monotherapy tolerability profile including Phase 1a dose escalation, see appendix;  
CRS: cytokine Release Syndrome; ICANS: Immune effector cell-associated neurotoxicity syndrome; RP2D: provisional recommended Phase 2 dose

Data cut-off Apr 04, 2023 26

### FAST & FOCUSED

**Objective: Deliver best-in-class therapy in 1-2 last-line solid cancer types as fast as possible**

- Focus on cutaneous melanoma, uveal melanoma and potentially other tumor types with high PRAME prevalence where clinical proof-of-concept has been demonstrated
- Highly modular and scalable manufacturing facility expected to be operational in 2024 to support efforts to maximize speed to market
- Planned start of a first Phase 2 trial in 1H 2024 – targeted to be already registration-directed

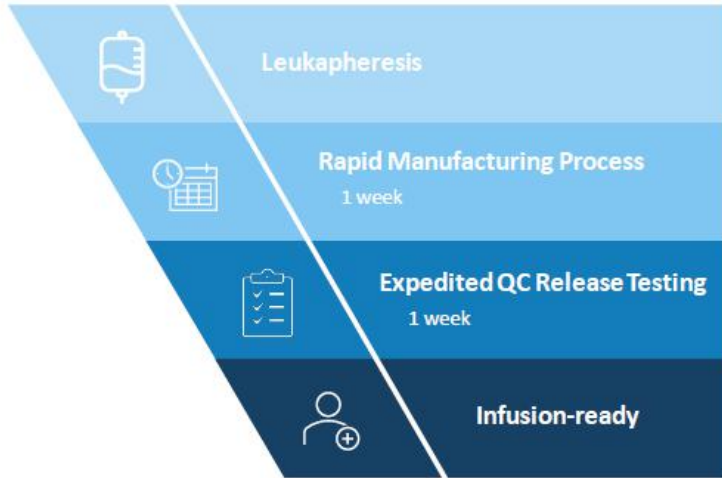
### GO BROAD

**Objective: Expand development to other cancer types**

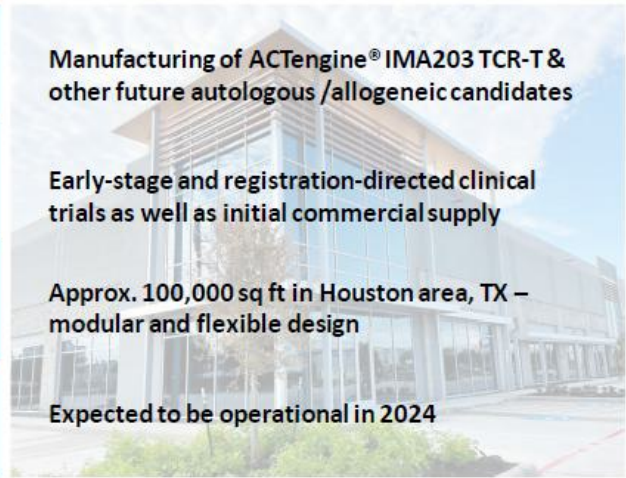
- Signal finding in other cancer types with a broad patient reach, such as ovarian cancer, uterine cancer, lung cancer, breast cancer, head and neck cancer

Next update on all three IMA203 Phase 1b cohorts including the projected clinical development path for PRAME-targeted TCR-T monotherapy towards registration-directed trials is planned for 4Q 2023

**Short manufacturing turnaround time**



**State-of-the-art research & GMP manufacturing facility**



# IMA203 TCR-T Has the Potential to Reach a Large Patient Population

~39,000 Patients per Year in the US only



## Selected Indications

	Incidence	R/R Incidence	PRAME Positive
Cut. Melanoma	99,800	7,700	95%
Uveal Melanoma	1,500	800	90%
Ovarian Carcinoma	19,900	12,800	80%
Uterine Carcinoma	62,700	10,700	100%
Uterine Carcinosarcoma	3,300	1,900	100%
Squamous NSCLC	57,000	34,600	65%
Small Cell Lung Cancer	31,900	19,400	55%
Adeno NSCLC	91,200	55,300	25%
HNSCC	66,500	15,100	25%
Breast Carcinoma	290,600	43,800	25% TNBC: 60%
Synovial Sarcoma	1,000	400	100%
Cholangiocarcinoma	8,000	7,000	35%

## Patient Population

Based on R/R Incidence;  
PRAME and HLA-A\*02:01+

2,999
295
4,198
4,387
779
9,221
4,375
5,668
1,548
4,490
164
1,005

**TOTAL ~39,000  
annually in the US**

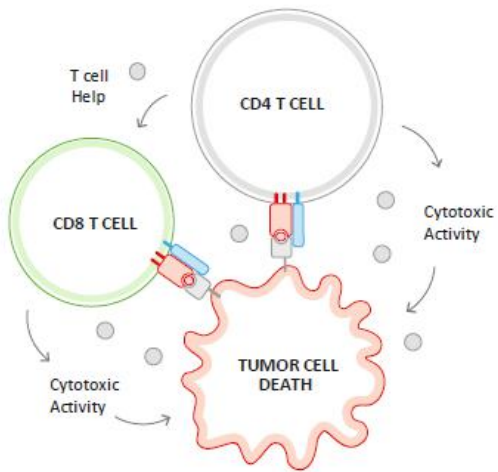
### Multiple opportunities to broaden patient reach and patient benefit:

- Expand beyond US population
- Expand into other indications such as kidney, esophageal, bladder, other liver cancers, other sarcoma subtypes through indication-specific or indication-agnostic label expansion
- Move into earlier lines of therapy (R/R Incidence → Incidence)
- Inclusion of patients with lower PRAME-threshold

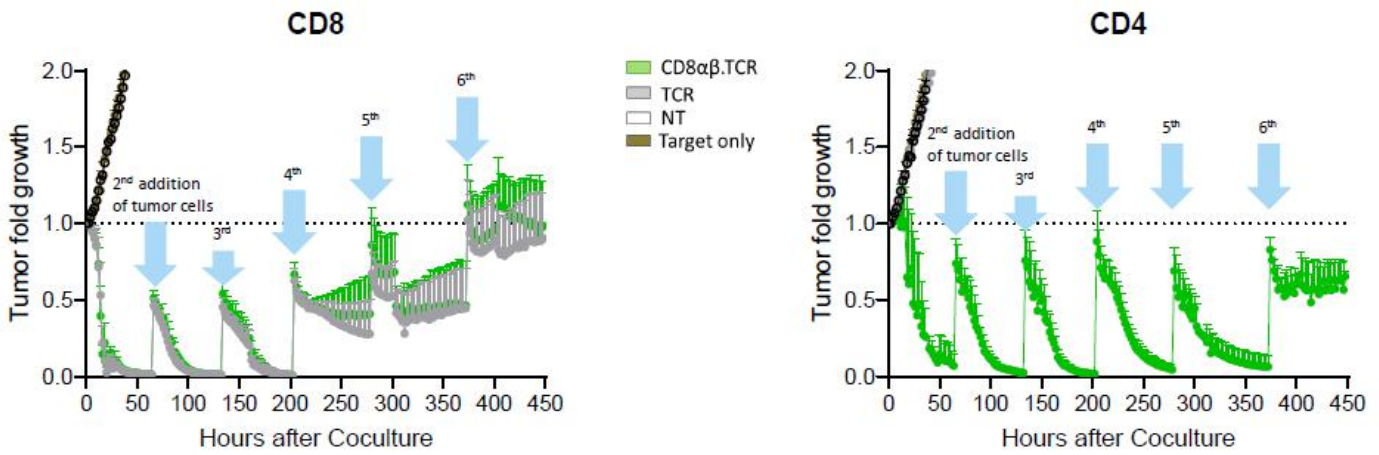


# ACTengine® IMA203CD8 – Next-generation TCR-T

## Building on First-Gen IMA203 Success to Further Improve Anti-Tumor Activity



- Engagement of CD4 T cells by CD8 co-transduction reported to boost anti-tumor activity in TCR-T trials
- Recent data from leukaemia patients treated with CAR-T suggest a relevant role of engineered CD4 T cells in maintaining durable tumor responses over a long period of time<sup>1</sup>
- Functional superiority of the **CD8 $\alpha\beta$**  construct over multiple other CD8 constructs in preclinical experiments
- Proprietary 4-in-1 lentiviral vector to engineer CD4 and CD8 T cells with the PRAME-specific IMA203 TCR and CD8 $\alpha\beta$  construct (IMA203CD8)



Engagement of CD4 T cells may enhance depth and durability of anti-tumor response and clinical outcome of TCR-T in solid cancer patients



**ACTengine® IMA204 – TCR-T Targeting COL6A3 Exon 6**



# ACTengine® IMA204 First-in-Class TCR-T Targeting Tumor Stroma



## Key Features

### TARGET

HLA-A\*02-presented peptide derived from COL6A3 exon 6

Naturally and specifically presented on tumors at high target density<sup>1</sup>:  
**100-700 copies/cell**

Novel tumor stroma target identified and validated by XPRESIDENT® quant. mass spectrometry platform

### TCR

High-affinity, specific TCR targeting COL6A3 exon 6

**Affinity-maturated, CD8-independent TCR**

High functional avidity<sup>2</sup>:  
**~0.01ng/ml**

Identified and characterized by XCEPTOR® TCR discovery and engineering platform

### PRECLINICAL DATA

CD8-independent, next-generation TCR engages both, CD8 and CD4 T cells

*In vitro* anti-tumor activity against target-positive cell lines in CD8 and CD4 T cells

Complete tumor eradication in *in vivo* mouse models

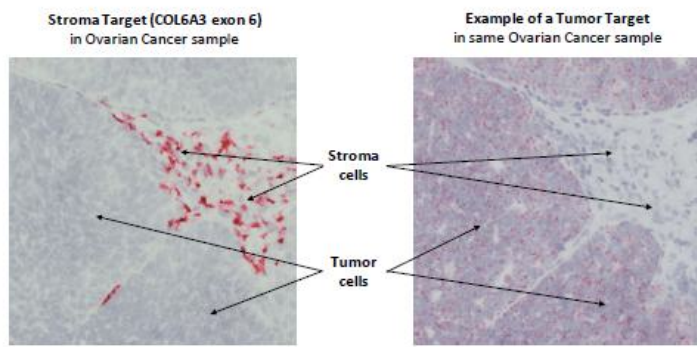
### PATIENT POPULATION<sup>3</sup>

Pancreatic Carcinoma – 80%  
Breast Carcinoma – 75%  
Stomach Carcinoma – 65%  
Sarcoma – 65%  
Esophageal Carcinoma – 60%  
Squamous NSCLC – 55%  
Adeno NSCLC – 55%  
HNSCC – 55%  
Uterine Carcinosarcoma – 55%  
Colorectal Carcinoma – 45%  
Mesothelioma – 45%  
Cholangiocarcinoma – 40%  
Ovarian Carcinoma – 40%  
Melanoma – 35%  
Bladder Carcinoma – 35%

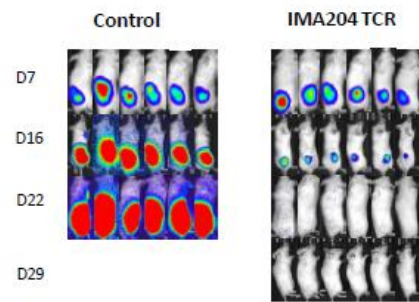
IMA204 provides a promising therapeutic opportunity for a broad patient population as monotherapy or in combination with TCR-T cells directed against tumor targets

# ACTengine® IMA204 – High Affinity, CD8-independent TCR

## Complete Tumor Eradication *in vitro* & *in vivo*<sup>1</sup> by Affinity-enhanced IMA204 TCR



COL6A3 exon 6 prevalently expressed at high target density in tumor stroma across many solid cancers



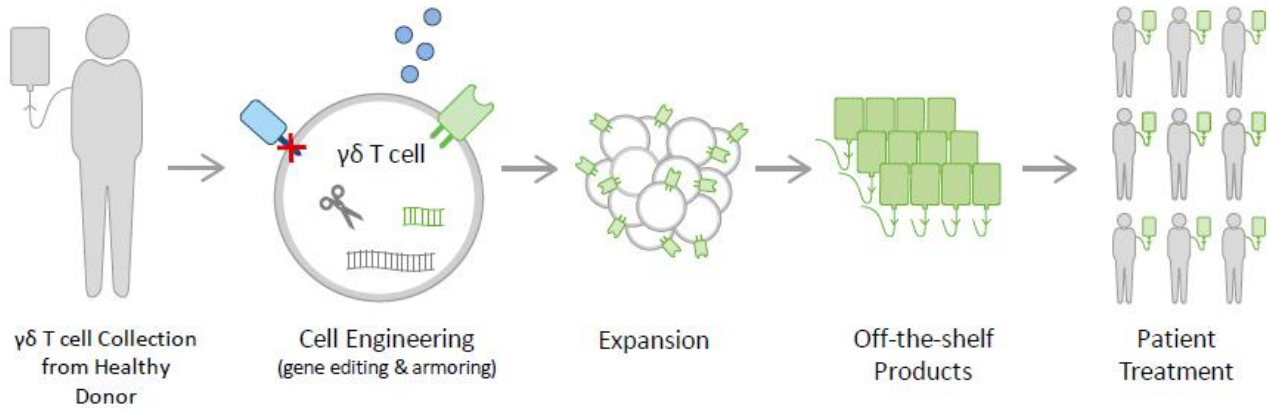
CD8-independent TCR leads to tumor eradication in all mice treated

Affinity matured CD8-independent, next-generation TCR engages both CD4 and CD8 T cells without the need of CD8 co-transduction



## ACTallo® – Our Next-generation Off-the-shelf TCR-T

## ACTallo® – Immatics' Allogeneic Cell Therapy Approach



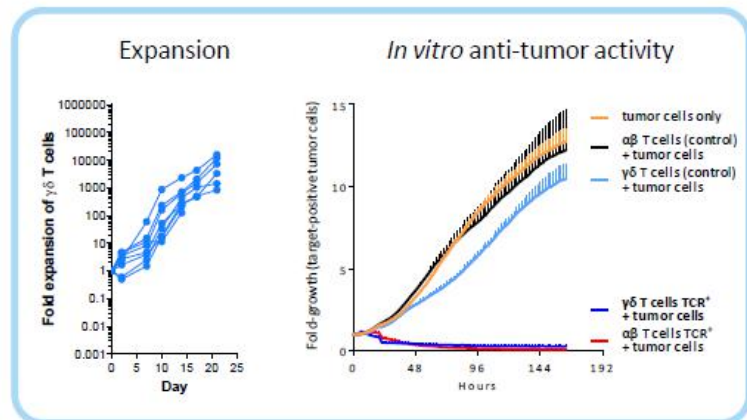
- **Off-the-shelf cell therapy**, no need for personalized manufacturing → reduced logistics and time to application
- **Potential for hundreds of doses** from one single donor leukapheresis → lower cost of goods
- **Use of healthy donor material** provides standardized quality and quantity of starting material
- Strategic collaborations combining Immatics' proprietary ACTallo® platform with Bristol Myers Squibb's next-gen technologies and Editas Medicine's CRISPR gene editing technology to develop next-gen allogeneic  $\gamma\delta$  TCR-T/CAR-T programs

## Why $\gamma\delta$ T cells?

### $\gamma\delta$ T cells Are Well Suited for an Off-the-shelf Cell Therapy Approach

#### $\gamma\delta$ T cells

- ✓ are abundant in the peripheral blood
- ✓ show intrinsic anti-tumor activity
- ✓ naturally infiltrate solid tumors & correlate with favorable prognosis
- ✓ are HLA-independent, thus do not cause graft-vs-host disease in allogeneic setting
- ✓ can be expanded to high numbers in a cGMP-compatible manner
- ✓ can be effectively redirected using  $\alpha\beta$  TCR or CAR constructs



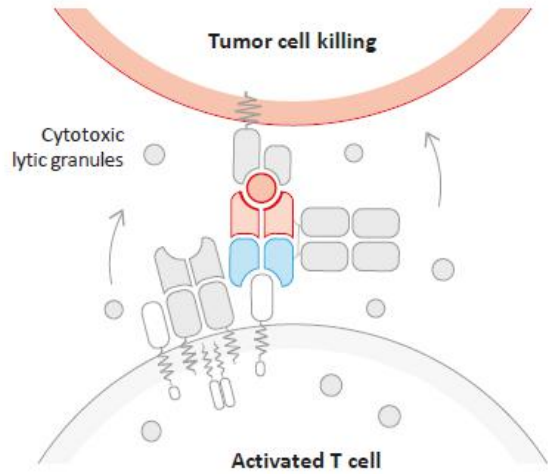
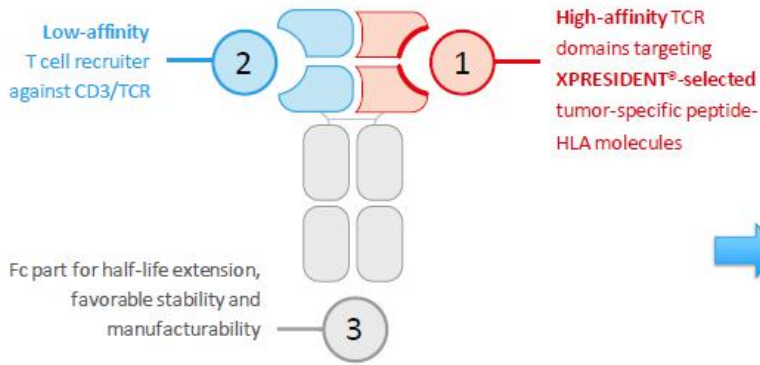


## TCER<sup>®</sup> – TCR Bispecifics



# TCER® – Immatics' Next-generation, Half-Life Extended Bispecifics

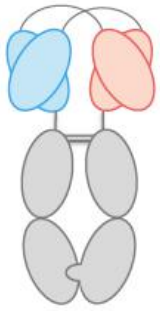
## Proprietary TCER® Format Consisting of Three Distinct Elements



Next-gen, half-life extended TCER® format designed to

- safely apply high drug doses for activity in a broad range of tumors
- achieve optimized scheduling

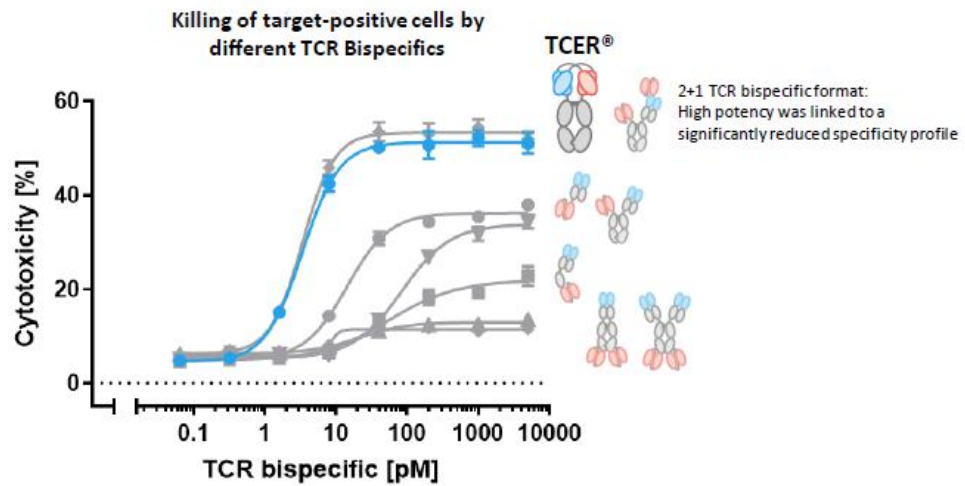




- 1 **pHLA targeting TCR**
  - ✓ **High-affinity** (single digit nM) TCR targeting **XPRESIDENT®-selected** tumor-specific peptide-HLA molecules
  - ✓ Broad therapeutic window through **XPRESIDENT®-guided** affinity maturation (>1000x)<sup>1</sup>
  - ✓ **Complete tumor eradication** in mouse xenograft models at low doses
- 2 **T cell recruiting antibody**
  - ✓ **Low-affinity** (triple digit nM) T cell recruiter against both **TCR & CD3**
  - ✓ **Optimized biodistribution** aiming for enrichment at tumor site and **prevention of CRS**<sup>2</sup>
  - ✓ **Superior anti-tumor activity** in mouse models as compared to widely used CD3 recruiters
- 3 **Next-generation TCER® format**
  - ✓ Off-the-shelf biologic with antibody-like manufacturability<sup>3</sup> and low cost of goods
  - ✓ Superior anti-tumor activity<sup>4</sup> compared to six alternative bispecific formats
  - ✓ Half-life of several days expected in humans

Our TCER® format is designed to maximize efficacy while minimizing toxicities in patients

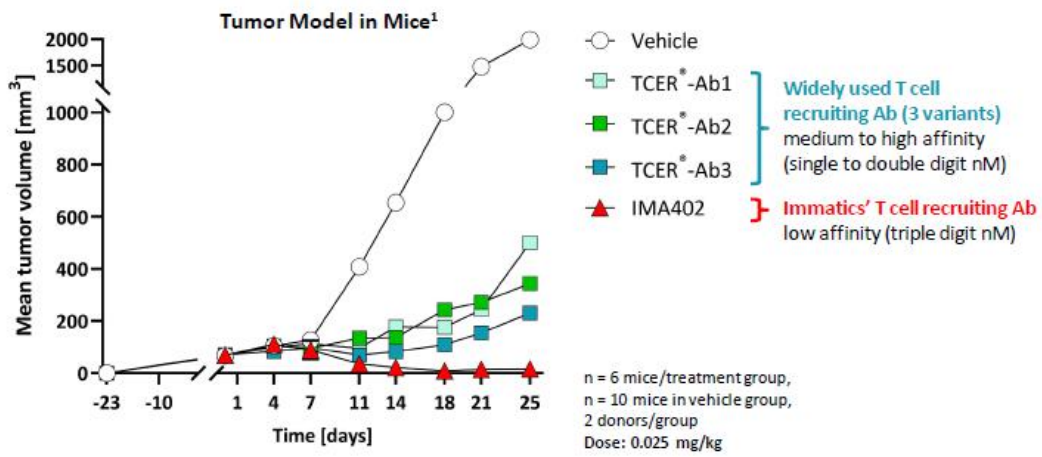
# Potency of Our Proprietary TCR Bispecific Format TCER<sup>®</sup>



- Seven different TCR Bispecific formats were evaluated with a pHLA targeting TCR and the identical T cell recruiting antibody
  - TCER<sup>®</sup> format had higher combination of potency and specificity<sup>1</sup> than six alternative TCR Bispecific format designs evaluated
- Flexible Plug-and-play platform: TCER<sup>®</sup> format successfully validated for different TCRs & different T cell recruiting antibodies**

# TCER<sup>®</sup> Format Is Designed for Optimized Efficacy and Safety

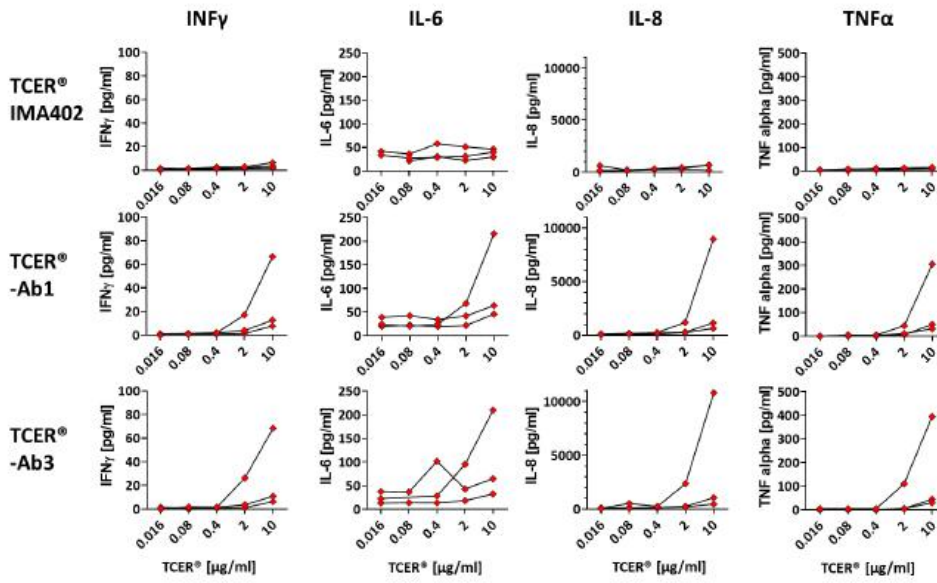
## Superior Tumor Control Using a Novel, Low-Affinity Recruiter



Proprietary, **low-affinity T cell recruiting region** demonstrates superior tumor control compared to analogous TCER<sup>®</sup> molecules designed with higher-affinity variants of a widely used recruiter

# TCER® Format Is Designed for Optimized Efficacy and Safety

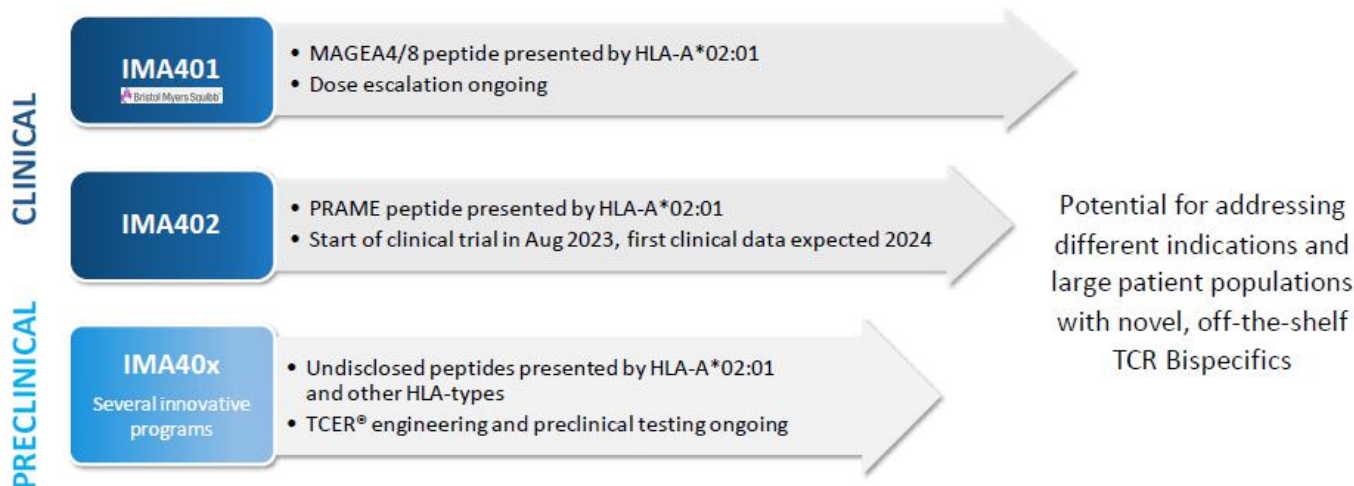
Reduced Target-Unrelated Recruiter-Mediated Cytokine Release using a Low-Affinity Recruiter



Whole blood cytokine release assay  
 N=3 HLA-A\*02-positive donors  
 N=16 cytokines tested,  
 4 exemplary cytokines shown

# Our TCER® Portfolio

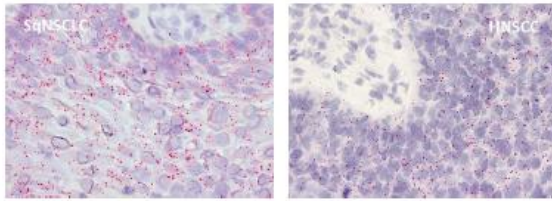
## Broad Pipeline of Next-Gen Half-Life Extended TCR Bispecifics



# TCER® IMA401 Targeting MAGEA4/8

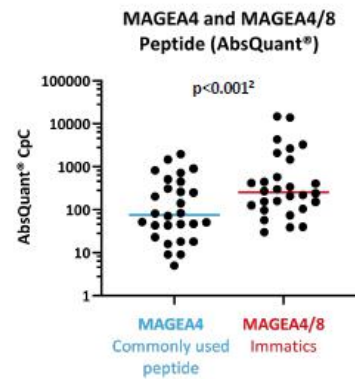
## Homogeneous Expression, Broad Prevalence and High Copy Number Target

### MAGEA4 RNA detection in tumor samples (ISH)



### MAGEA4/8 target prevalence in selected cancer indications

Indications	Target prevalence [%]
Squamous non-small cell lung carcinoma	50%
Head and neck squamous cell carcinoma	35%
Bladder carcinoma	30%
Uterine carcinosarcoma	25%
Esophageal carcinoma	25%
Ovarian carcinoma	20%
Melanoma	20%
<i>plus several further indications</i>	



MAGEA4/8 target is presented at >5-fold higher target density<sup>1</sup> than a commonly used MAGEA4 target peptide



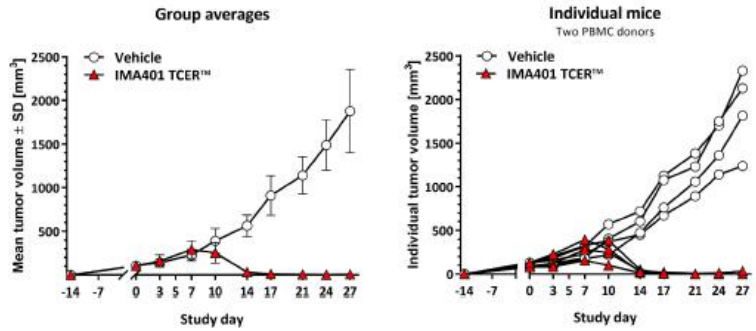
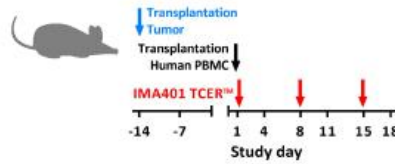
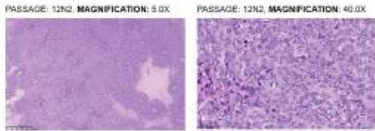
# TCER<sup>®</sup> IMA401 (MAGEA4/8) – Assessment of Anti-Tumor Activity *in vitro*

## Patient-Derived Tumor Model



### NSCLC adenocarcinoma:

- Male, Caucasian, age 58, no therapy prior to surgery
- Site of origin: lung, differentiation poor
- Date of surgery: 1987, Freiburg Medical Center
- Volume doubling time: 7.3 day
- Histology:
  - Stroma content, 4%
  - Vascularization, high
  - Grading, undifferentiated

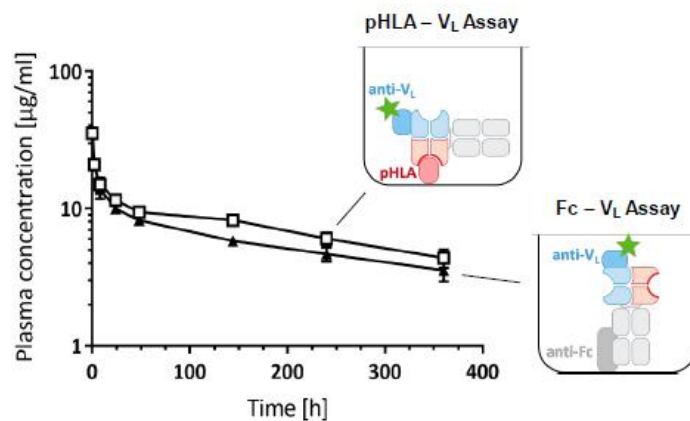
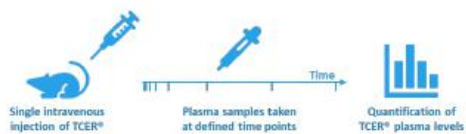


- TCER<sup>®</sup> IMA401 shows **high anti-tumor activity** in Patient-derived xenograft model of non-small cell lung adenocarcinoma
- **Remission observed in all mice (3 out of 4 mice with complete remission)**

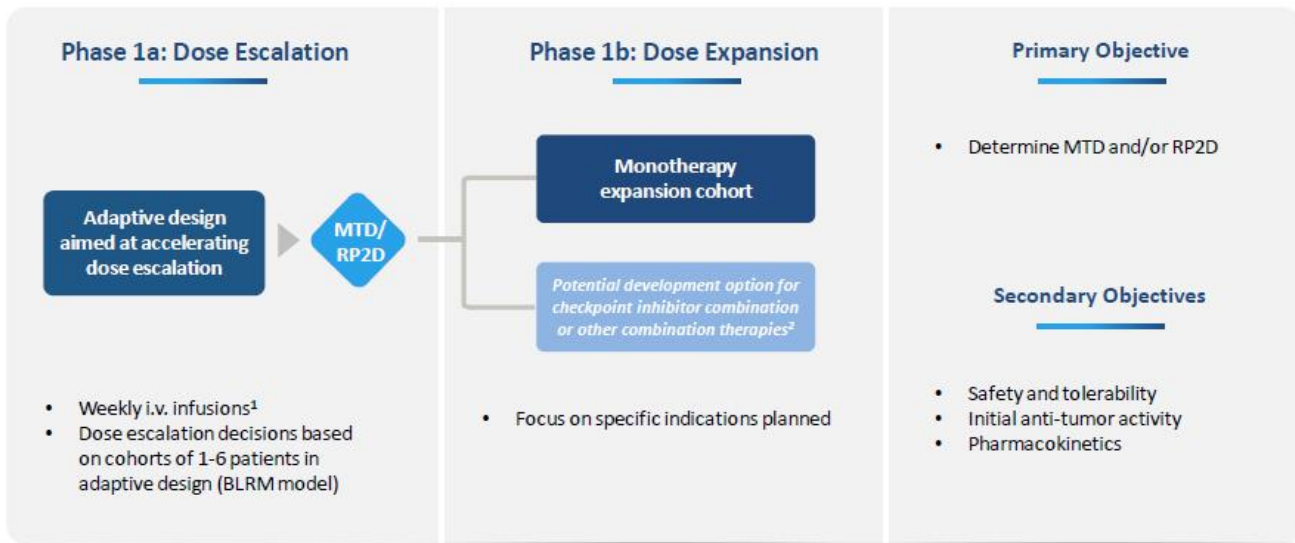


# TCER<sup>®</sup> IMA401 (MAGEA4/8) – Pharmacokinetics

## PK Analysis in NOG Mice

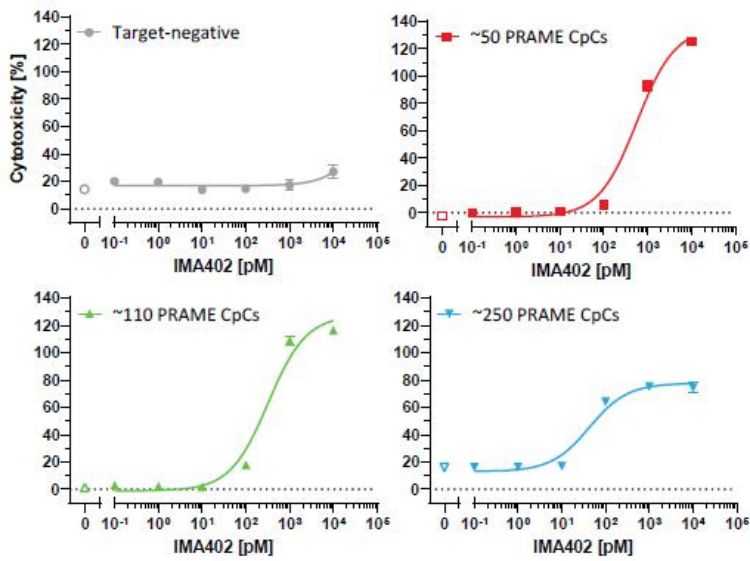


- Two different PK assays established to ensure functional integrity of protein domains
- **Terminal half-life in mice: 10-11 days**

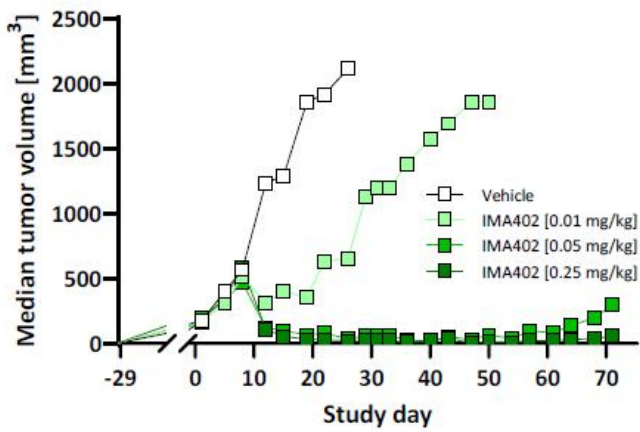


# TCER® IMA402 Targeting PRAME – Efficacy Assessment *in vitro*

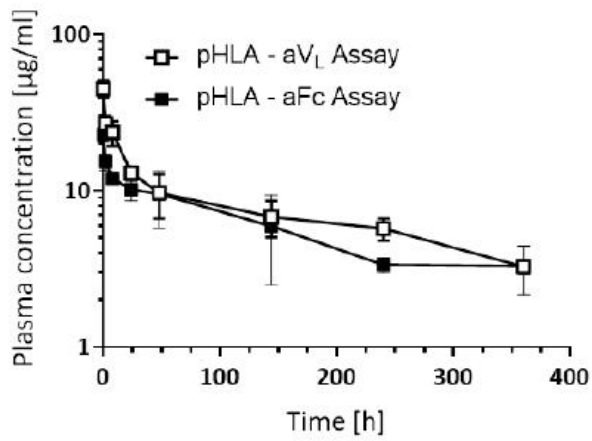
## Tumor Cell Killing at Low Physiological PRAME Peptide Levels



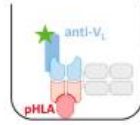
- TCER® IMA402 induces killing of tumor cells with PRAME target copies as low as 50 CpCs
- Physiological PRAME levels detected in majority of cancer tissues from patients are 100 – 1000 CpCs
- Preclinical activity profile enables targeting of a broad variety of tumor indications, such as lung cancer, breast cancer, ovarian cancer, uterine cancer, melanoma and others



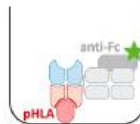
- Dose-dependent efficacy of IMA402 in cell line-derived *in vivo* mouse model
- Durable shrinkage of large tumors including complete responses over prolonged period
- Sufficiently high drug doses are key to achieving desired anti-tumor effect



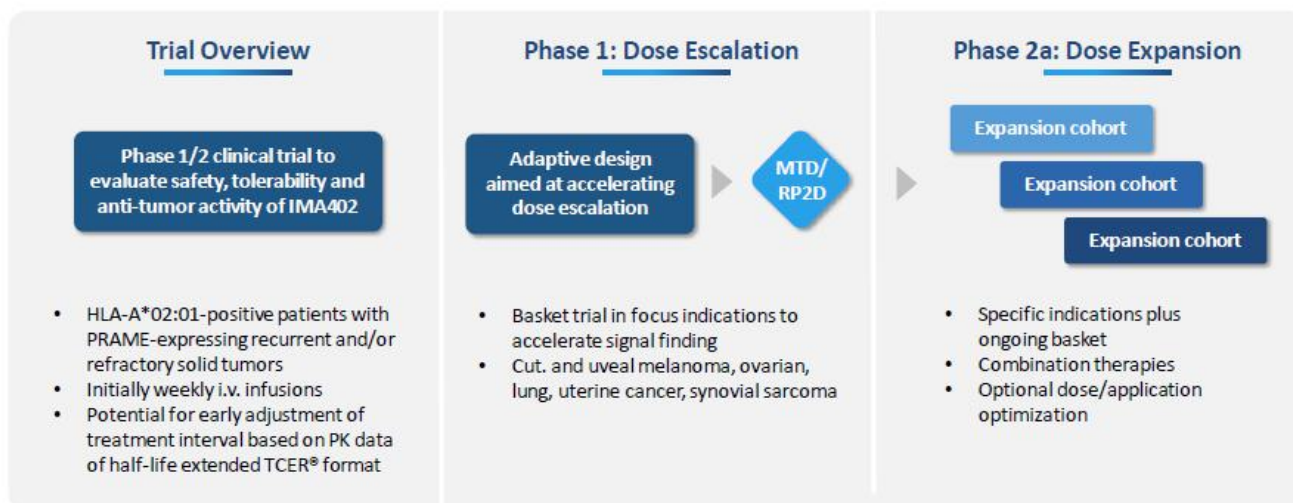
pHLA – aV<sub>L</sub> Assay



pHLA – aFc Assay



- IMA402 shows a terminal serum half-life of ≈ 8 days in mice
- IMA402 will be initially dosed weekly in the clinical trial
- Dosing frequency may be adapted based on clinical data



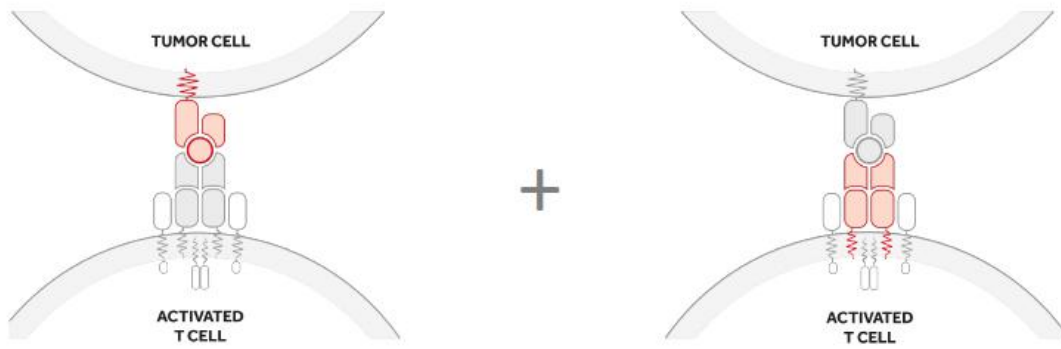


## Immatics' Proprietary Target and TCR Discovery Platforms



## True Cancer Targets & Matching Right TCRs

Goal to Maximize Anti-Tumor Activity and Minimize Safety Risks of TCR-based Immunotherapies

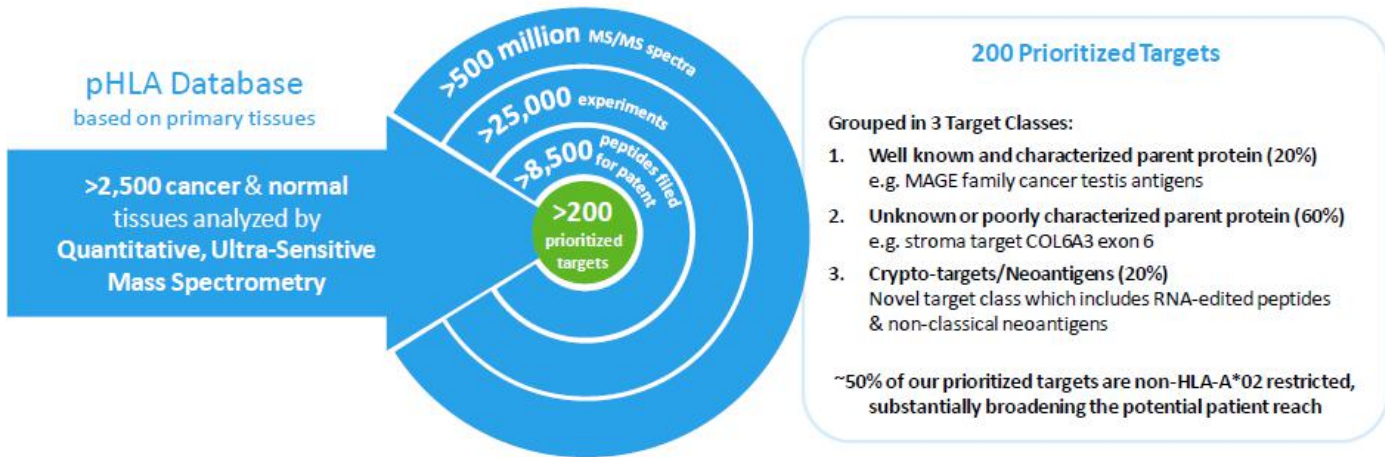


### True Targets via XPRESIDENT® technology platform

- are naturally presented on tumor tissues as identified by mass-spec
- are absent or presented at only low levels on normal tissues
- are presented at high copy numbers to trigger a pharmacological response

### Right TCRs via XCEPTOR® technology platform

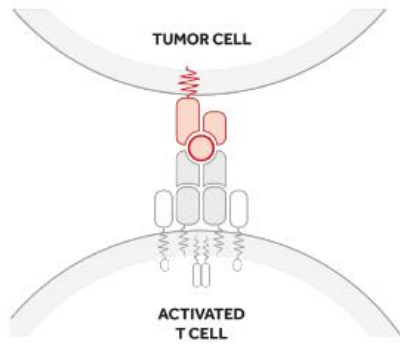
- recognize the target peptide with high affinity and specificity
- show selective killing of tumor cells
- are developed to be suitable for two different therapeutic modalities, Cell Therapies and TCR Bispecifics



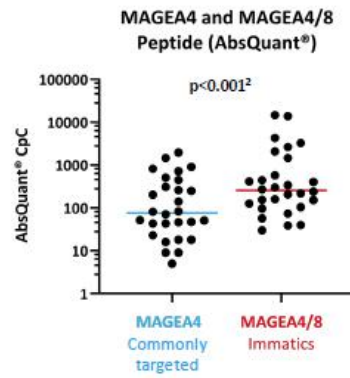
This large data set is leveraged by our bioinformatics & AI-platform XCUBE™ – „AI is where the data is®“

# Immatics' Unique Capability – Identification of the most Relevant Target

## Example of MAGEA4/8 Peptide Target



Ranking of pHLA targets

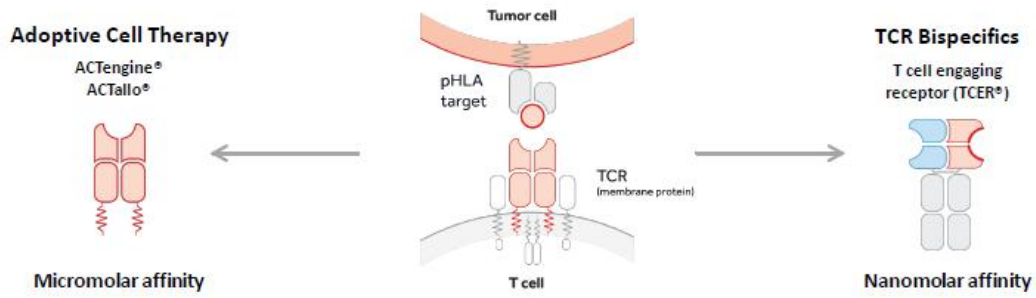


XPRESIDENT® quantitative information on target density<sup>1</sup> between peptides originating from the same source protein

MAGEA4/8 target is presented at >5-fold higher target density<sup>1</sup> than a commonly targeted MAGEA4 target peptide

# Development of the Right TCR – XCEPTOR® Technology

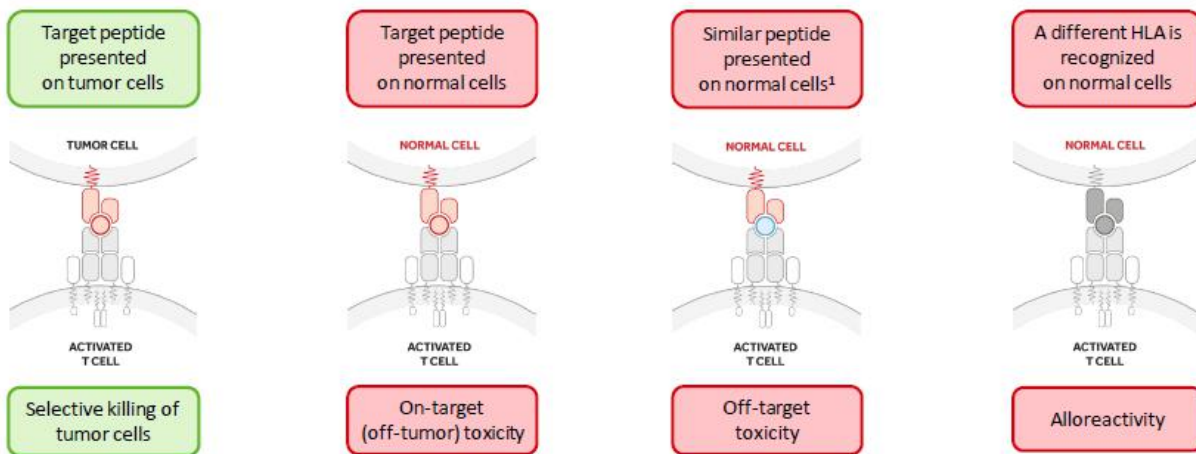
## TCR Discovery and Engineering for ACT and TCR Bispecifics



- Fast, efficient and highly sensitive discovery of highly specific, natural TCRs
- Protein engineering capabilities to design and mature TCRs with increased affinity while retaining specificity
- Early de-selection of cross-reactive TCRs by the unique interplay between Immatics' target and TCR discovery platforms XPRESIDENT® and XCEPTOR® during TCR discovery<sup>1</sup> and TCR maturation<sup>2</sup> (empowered by our bioinformatics & AI-platform XCUBE™)

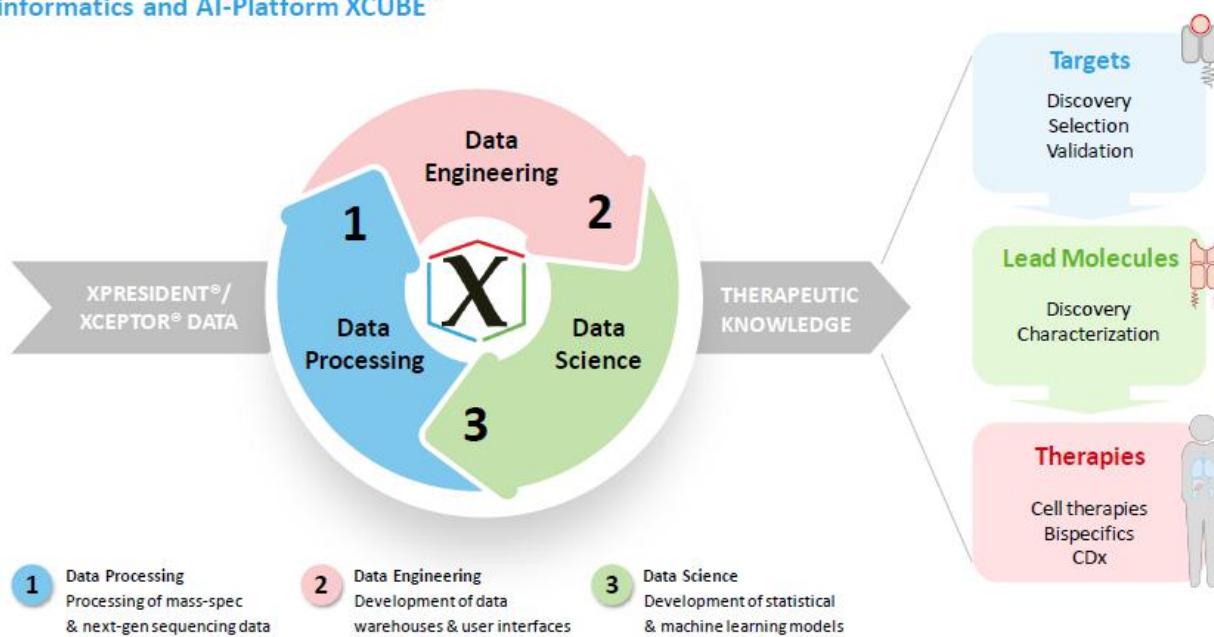
# Optimal Target Selection & TCR Specificity for Minimizing Safety Risks

Unique Interplay between Technology Platforms Allows Early De-risking for Clinical Development



**XPRESIDENT<sup>®</sup>-guided screening** for on- and off-target toxicities of TCRs based on the extensive database of peptides presented on normal tissues

**“AI Is Where the Data Is®”**  
**Bioinformatics and AI-Platform XCUBE™**

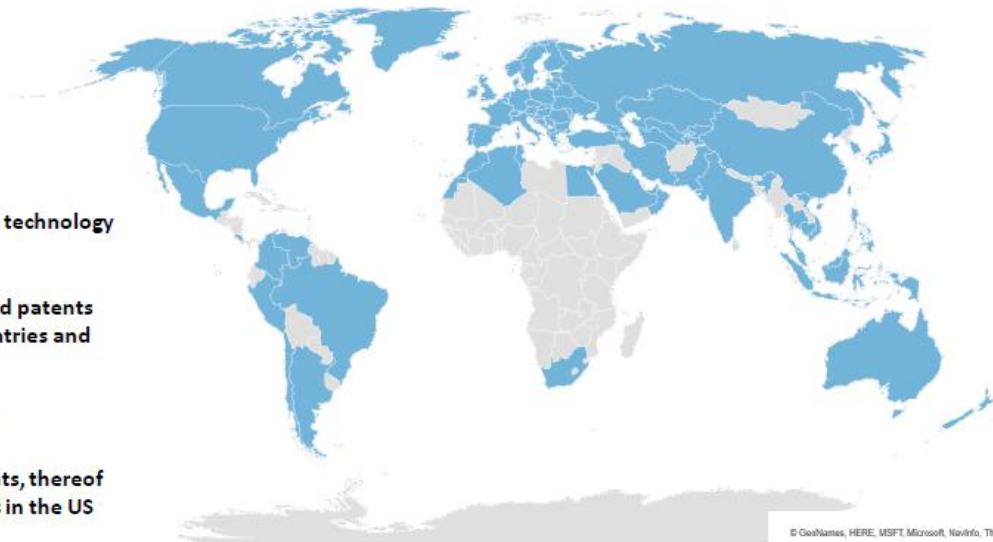


## Robust IP Portfolio

### Immatics' Patent Estate – Territorial Coverage

Cancer targets, TCRs and technology protected by:

- 5,800 applications and patents filed in all major countries and regions
- >115 patent families
- >2,400 granted patents, thereof >550 granted patents in the US







## Corporate Information & Milestones

## Experienced Global Leadership Team Across Europe and the US



**Harpreet Singh**  
Chief Executive Officer  
Co-Founder  
>20 yrs biotech experience



**Arnd Christ**  
Chief Financial Officer  
>20 yrs biotech experience  
(InflaRx, Medigene, Novimmune, Probiodrug)



**Carsten Reinhardt**  
Chief Development Officer  
>20 yrs pharma & biotech experience  
(Micromet, Roche, Fresenius)



**Cedrik Britten**  
Chief Medical Officer  
15 yrs pharma & biotech experience  
(GSK, BioNTech)



**Rainer Kramer**  
Chief Business Officer  
25 yrs pharma & biotech experience  
(Amgen, MorphoSys, Jerini, Shire, Signature Dx)



**Steffen Walter**  
Chief Operating Officer  
Co-Founder Immatics US  
>15 yrs biotech experience



**Toni Weinschenk**  
Chief Innovation Officer  
Co-Founder  
>15 yrs biotech experience



**Edward Sturchio**  
General Counsel  
>15 yrs pharma & biotech experience  
(Abeona Therapeutics, AAA, Novartis, Merck, Schering)



**Jordan Silverstein**  
Head of Strategy  
>10 yrs biotech experience  
(InflaRx, AAA)

## Strong, Focused and Highly Integrated Trans-Atlantic Organization



# Delivering

the Power of T cells  
to Cancer Patients

## Appendix

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# ACTengine® IMA203 TCR-T 1<sup>st</sup> Gen Monotherapy Tolerability Data

## Focus on IMA203 Phase 1b Cohort A – All ≥Grade 3 Adverse Events (N=11)



TEAEs by maximum severity for all patients in Ph1b Cohort A dose expansion (N=11)

Adverse event (System organ class, Preferred term)	≥ Grade 3		Adverse event (System organ class, Preferred term)	≥ Grade 3	
	No.	%		No.	%
<b>Patients with any adverse event</b>	<b>11</b>	<b>100.0</b>	<b>Table continued...</b>		
<b>Adverse Events of Special Interest</b>			<b>Investigations</b>		
Cytokine release syndrome	0	0.0	Alanine aminotransferase increased	1	9.1
ICANS <sup>1</sup>	0	0.0	Aspartate aminotransferase increased	1	9.1
			Blood alkaline phosphatase increased	1	9.1
<b>Blood and lymphatic system disorders</b>			<b>Eye disorders</b>		
Neutropenia	10	90.9	Ulcerative keratitis	1	9.1
Lymphopenia	6	54.5	<b>Gastrointestinal disorders</b>		
Leukopenia	5	45.5	Ileus	1	9.1
Anaemia	5	45.5	<b>Infections and infestations</b>		
Thrombocytopenia	4	36.4	Infection	1	9.1
Leukocytosis	1	9.1	<b>Nervous system disorders</b>		
Lymphocytosis	1	9.1	Headache	1	9.1
			<b>Respiratory, thoracic and mediastinal disorders</b>		
			Laryngeal inflammation	1	9.1

All treatment-emergent adverse events (TEAEs) with a Grade 3 regardless of relatedness to study treatment that occurred in at least 1 patient (except for CRS and ICANS, where only Grade 1-2 occurred; listed for completeness due to being adverse events of special interest) are presented. Adverse events were coded using the Medical Dictionary for Regulatory Activities. 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 (Neeapu et al., 2018). Patients are counted only once per adverse event and severity classification. Based on interim data extracted from open clinical database (04-Apr-2023). <sup>1</sup> ICANS: Immune effector cell-associated neurotoxicity syndrome.

- IMA203 was well tolerated
- No Adverse Event ≥Grade 3 was observed with a frequency ≥10% when excluding expected cytopenias associated with lymphodepletion
- No IMA203-related Grade 5 Adverse Events



# Deep & Durable Responses in Heavily Pre-Treated Patients – Phase 1b Cohort A



Patient ID	Indication	No of prior treatment lines	Prior treatments	Total infused dose TCR-T cells <sup>1</sup> [x10 <sup>6</sup> ]	BOR	BOR (Max % change of target lesions)	Comment
A-DLS-01	Uveal Melanoma	1	ARRY1614/Nivolumab	4.16	cPR	-60.3	Ongoing response 10.1 months post infusion
A-DL4-03	Cut. Melanoma	7	Dabrafenib/Trametinib, Pembrolizumab, Dabrafenib/Trametinib, Vemurafenib/Cobimetinib, Dabrafenib/Trametinib, IMCgp-100, Encorafenib/Sinemetinib	1.30	cPR	-73.9	Ongoing response 9.9 months post infusion
A-DLS-03	Cut. Melanoma	3	Interferon, Pembrolizumab, Nivolumab/pilimumab	5.12	cPR	-60.5	Ongoing response 6.2 months post infusion
A-DL4-01	Head & Neck Cancer	1	Caroplatin/Paclitaxel	1.92	cPR	-33.3	Response until 5.7 months post infusion
A-DL4-02	Ovarian Cancer	10	Caroplatin/Taxol, Taxol, Gemcitabine/Caroplatin, Olaparib, Letrozole, Rucaparib, UFTCC 03118 (CAR-T cell directed folate receptor), Bevacizumab/Cyclophosphamide, Caroplatin, Doxorubicin, Adriamycin/Cytotaxan/Taxol, Caroplatin/Doxil	1.97	cPR	-41.0	Response until 3.8 months post infusion
A-DLS-05	Ovarian Cancer	3	Caroplatin/Taxol, Caroplatin/Doxil	8.84	cPR	-61.7	Ongoing response 2.5 months post infusion
A-DLS-06	Synovial Sarcoma	1	Adriamycin/Mostemide/Mesna	3.94	PR	-74.8	Initial PR at week 6, 3-month scan pending
A-DL4-04	Melanoma (Unk. Primary)	2	Nivolumab/pilimumab, Nivolumab	1.73	SD	0.0	Disease stabilization until 5.7 months post infusion
A-DL4-05	Cut. Melanoma	5	Nivolumab, Nivolumab (re-exposure), Nivolumab/pilimumab, Dabrafenib/Trametinib, Nivolumab	1.63	SD	11.4	Ongoing disease stabilization 2.1 months post infusion
A-DLS-02	Pancreatic Neuroendocrine Tumor	3	Lanreotid, Streptozocin/5-Fluorouracil, Everolimus	5.12	SD	-21.8	Disease stabilization until 2.3 months post infusion
A-DLS-04*	Ovarian Cancer	5	Paclitaxel/Caroplatin, Niraparib, Doxorubicin/Uposomal/Caroplatin, 2020-0808 2N-C3/Gemcitabine, 2020-0733 COM 701/BMS-986207/Nivolumab	4.68	PD	50.8	Progressive disease at 1.2 months post infusion

IMA203

<sup>1</sup> Transduced viable CD8 T cells; PD: Progressive Disease; SD: Stable Disease; PR: Partial Response; cPR: Confirmed Partial Response; BL: Baseline; BOR: Best Overall Response  
 \*Ovarian cancer patient A-DLS-04 erroneously received one dose of nivolumab and is part of intent-to-treat population (shown here) but not per-protocol population.

Data cut-off Apr 04, 2023 66



# ACTengine® IMA203 TCR-T 1<sup>st</sup> Gen Monotherapy Tolerability Data

## Phase 1a and Phase 1b Cohort A – All ≥Grade 3 Adverse Events (N=39)



TEAEs by maximum severity for all patients in Ph1a dose escalation and Ph1b Cohort A dose expansion (N=39)<sup>1</sup>

Adverse event (System organ class, Preferred term)	≥ Grade 3		Adverse event (System organ class, Preferred term)	≥ Grade 3	
	No.	%		No.	%
<b>Patients with any adverse event</b>	<b>39</b>	<b>100.0</b>	<b>table continued</b>		
<b>Adverse Events of Special Interest</b>					
Cytokine release syndrome	2	5.1	Condition aggravated <sup>1</sup>	1	2.6
ICANS <sup>2</sup>	0	0.0	Fatigue	1	2.6
<b>Blood and lymphatic system disorders</b>					
Neutropenia	32	82.1	Pyrexia	1	2.6
Lymphopenia	24	61.5	Swelling face	1	2.6
Leukopenia	22	56.4	<b>Vascular disorders</b>		
Anaemia	20	51.3	Hypertension	3	7.7
Thrombocytopenia	15	38.5	Hypotension	1	2.6
Cytopenia	1	2.6	<b>Metabolism and nutrition disorders</b>		
Leukocytosis	1	2.6	Hypokalaemia	2	5.1
Lymphocytosis	1	2.6	Failure to thrive	1	2.6
<b>Infections and infestations</b>					
Appendicitis	1	2.6	<b>Injury, poisoning and procedural complications</b>		
COVID-19	1	2.6	Humerus fracture	1	2.6
Enterococcal infection	1	2.6	Influenza related reaction	1	2.6
Infection	1	2.6	<b>Renal and urinary disorders</b>		
Orchitis	1	2.6	Acute kidney injury	1	2.6
Sepsis <sup>1,5</sup>	1	2.6	Proteinuria	1	2.6
Septic shock <sup>4</sup>	1	2.6	<b>Cardiac disorders</b>		
<b>Respiratory, thoracic and mediastinal disorders</b>					
Hypoxia	2	5.1	Atrial fibrillation <sup>3</sup>	1	2.6
Bronchial obstruction	1	2.6	<b>Endocrine disorders</b>		
Laryngeal inflammation	1	2.6	Inappropriate antidiuretic hormone secretion	1	2.6
Pleural effusion	1	2.6	<b>Eye disorders</b>		
Respiratory failure	1	2.6	Ulcerative keratitis	1	2.6
<b>Investigations</b>					
Alanine aminotransferase increased	1	2.6	<b>Hepatobiliary disorders</b>		
Aspartate aminotransferase increased	1	2.6	Cholelithiasis	1	2.6
Blood alkaline phosphatase increased	1	2.6	<b>Immune system disorders</b>		
Blood creatinine increased	1	2.6	Contrast media allergy	1	2.6
Blood fibrinogen decreased	1	2.6	<b>Musculoskeletal and connective tissue disorders</b>		
<b>Gastrointestinal disorders</b>					
Abdominal pain	1	2.6	Muscle spasms	1	2.6
Diarrhoea	1	2.6	<b>Nervous system disorders</b>		
Illus	1	2.6	Headache	1	2.6
Vomiting	1	2.6	<b>Reproductive system and breast disorders</b>		
			Vaginal haemorrhage	1	2.6
			<b>Skin and subcutaneous tissue disorders</b>		
			Rash maculo-papular	1	2.6

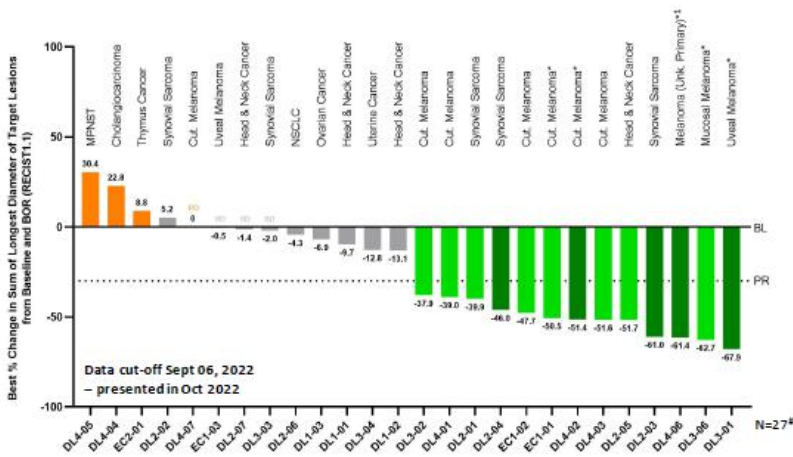
- IMA203 was well tolerated
- No Adverse Event ≥Grade 3 was observed with a frequency ≥10% when excluding expected cytopenias associated with lymphodepletion
- No IMA203-related Grade 5 Adverse Events

All treatment-emergent adverse events (TEAEs) with ≥ Grade 3 regardless of relatedness to study treatment that occurred in at least 1 patient (except for ICANS, where only Grade 1-2 occurred; lists of completeness due to being an adverse event of special interest) are presented. Adverse events were coded using the Medical Dictionary for Regulatory Activities. 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 [Neeapu et al., 2018]. Patients are counted only once per adverse event and severity classification. Based on interim data extracted from open clinical database (04-Apr-2023): <sup>1</sup> Two patients with disease progression after first IMA203 infusion received exploratory second IMA203 infusion. They had these ≥ Grade 3 TEAEs only after second infusion, which are included in the table: First patient: Abdominal pain, Cytokine release syndrome, Diarrhoea, Hypokalaemia, Proteinuria; Second patient: Humerus fracture, Muscle spasms, Neutropenia, Thrombocytopenia; <sup>2</sup> ICANS: Immune effector cell-associated neurotoxicity syndrome; <sup>3</sup> DLT: Dose limiting toxicity in phase 1a at DL2 reported on March 17, 2021; <sup>4</sup> Fatal Adverse events were not considered related to any study drug; <sup>5</sup> Patient died from sepsis of unknown origin and did not receive IMA203 TCR-T cells.

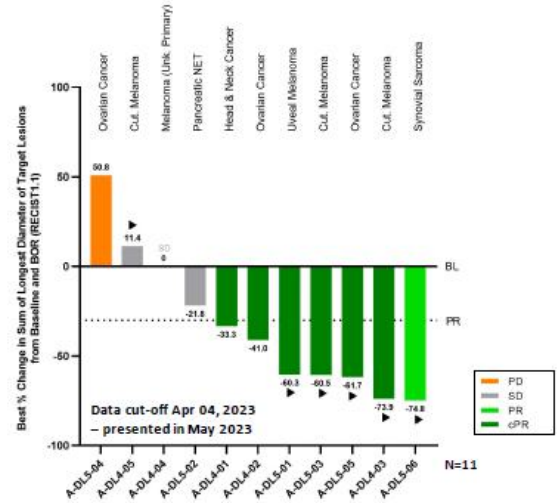
# Phase 1a and Phase 1b Cohort A – Best Overall Response



## Phase 1a (Dose Escalation)



## Phase 1b (Cohort A)



Confirmed objective responses across a broad spectrum of different tumor types such as cutaneous melanoma, uveal melanoma, head and neck cancer, ovarian cancer, synovial sarcoma

IMA203 \* Maximum change of target lesions and RECIST 1.1 BOR at different timepoints; <sup>1</sup> Synovial sarcoma patient (DL3) PD at week 6 not shown as target lesions were not evaluable; <sup>2</sup> Indication was updated to cutaneous melanoma post data cut-off; PD: Progressive disease; SD: Stable disease; PR: Partial response; cPR: Confirmed partial response; BL: Baseline

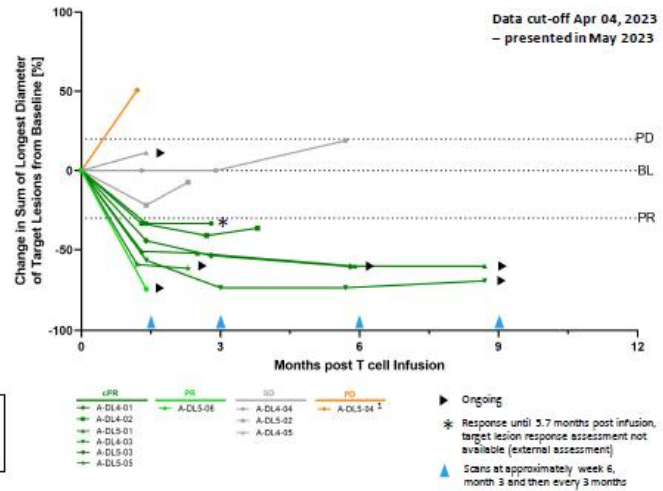
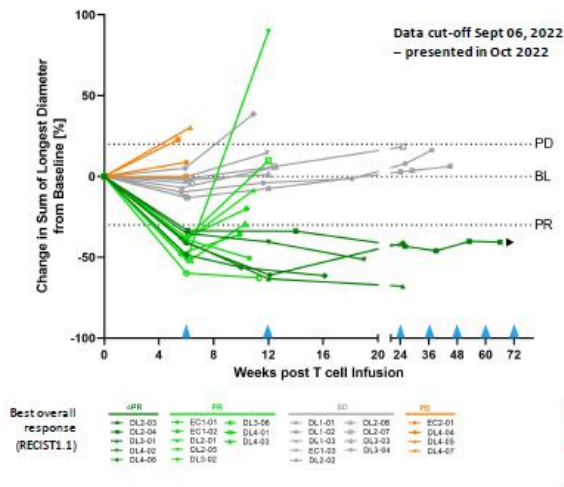
# Phase 1a and Phase 1b Cohort A – Responses over Time

## Improved Durability at Higher Dose and in Phase 1b Patients



**Phase 1a (Dose Escalation)**  
N=27\*

**Phase 1b (Cohort A)**  
N=11



# Focus on Melanoma Patients Phase 1a (DL4 only) and Phase 1b Cohort A



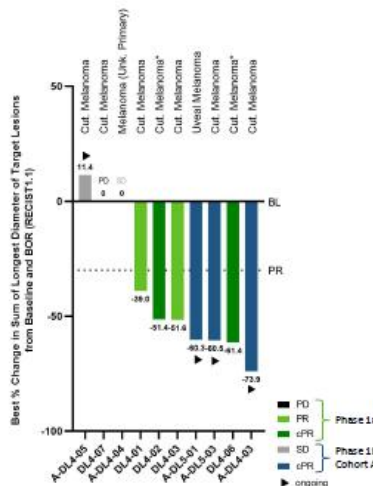
## Continuous Improvement from Phase 1a to Phase 1b Cohort A

### Patient Characteristics (n=10)

Prior lines of treatment	4.5
Mean (min, max)	(1, 7)
Previous lines of CPI	2.6
Mean (Min, Max)	(1, 4)
LDH at baseline	60.0
>1 x ULN [% of patients]	
Baseline tumor burden	66.9
Mean target lesion sum of diameter [mm] (min, max)	(21.0, 178.7)
Total infused dose	2.12
Mean TCR-T cells <sup>1</sup> infused [ $\times 10^7$ ] (min, max)	(1.07, 5.12)
No. of Target- & Non-Target Lesions	60.0% with >3 lesions 40.0% with liver/brain lesions

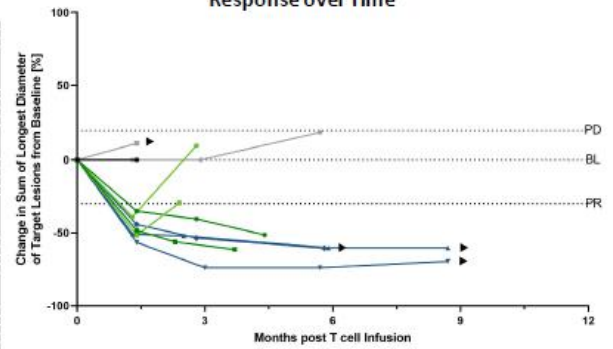
- Heavily pre-treated melanoma patients after 1-4 lines of CPI: Cutaneous (N=8), uveal (N=1) and melanoma of unk. primary (N=1)
- Phase 1a (N=5): previous manufacturing process
- Phase 1b Cohort A (N=5): new monocyte depletion process, higher dose

### Best Overall Response



ORR<sup>2</sup> = 70% (7/10)  
cORR<sup>3</sup> = 56% (5/9)

### Response over Time



Best overall response (RECIST 1.1)	PD (Phase 1a)	PR (Phase 1a)	cPR (Phase 1a)	SD (Cohort A)	cPR (Cohort A)
	DL4-07	DL4-01, DL4-03	DL4-02, DL4-05	A-DL4-04, A-DL4-05	A-DL5-01, A-DL5-03

Median DOR <sup>4</sup> , min, max DOR	Not reached, 2.4, 8.8+ months
Median Follow-up <sup>5</sup>	8.5 months



# Delivering

the Power of T cells  
to Cancer Patients



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