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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

March 22, 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



Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

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## Immatics Announces Full Year 2022 Financial Results and Corporate Update

- ACTengine<sup>®</sup> IMA203 TCR-T monotherapy against PRAME showed 50% confirmed objective response rate (cORR) at or above target dose in different solid cancers in an interim clinical update in Phase 1a and Phase 1b in October 2022
- ACTengine<sup>®</sup> IMA203 TCR-T clinical data update on all three ongoing IMA203 Phase 1b cohorts (Cohort A: 1<sup>st</sup>-gen monotherapy, Cohort B: combination with a checkpoint inhibitor, Cohort C: 2<sup>nd</sup>-gen monotherapy), and identification of most promising cohort to advance towards pivotal trials is planned for 2H 2023; prioritization of patient treatment with 1<sup>st</sup> and 2<sup>nd</sup>-generation monotherapy
- Expansion of cell therapy manufacturing capabilities with construction of an in-house GMP manufacturing facility for registration-directed and commercial production of ACTengine<sup>®</sup> TCR-T products expected to be operational in 2024
- Phase 1 clinical trial for first TCR Bispecific candidate, TCER<sup>®</sup> IMA401 targeting MAGEA4/8 developed in collaboration with Bristol Myers Squibb commenced in May 2022; TCER<sup>®</sup> IMA402 targeting PRAME on track for CTA<sup>1</sup> submission in 2Q 2023
- Strategic collaboration with Bristol Myers Squibb has been expanded in June 2022 to develop allogeneic and autologous cell therapy programs; Immatics received \$80 million upfront payment and is eligible for milestone payments as well as tiered royalties
- \$110 million underwritten offering successfully completed in October 2022
- Cash and cash equivalents as well as other financial assets amount to \$386.3 million<sup>2</sup> (€362.2 million) as of December 31, 2022, and projects cash runway into 2025

**Tuebingen, Germany and Houston, TX, March 22, 2023** – [Immatics N.V.](https://www.immatics.com) (NASDAQ: IMTX; “Immatics”), a clinical-stage biopharmaceutical company active in the discovery and development of T cell-redirecting cancer immunotherapies, today provided a business update and reported financial results for the quarter and full year ended December 31, 2022.

Harpreet Singh, Ph.D., CEO and Co-Founder of Immatics commented, “Our ACTengine<sup>®</sup> IMA203 clinical trial has gained significant traction over the past year with promising data for our

<sup>1</sup> Clinical Trial Application (CTA) is the European equivalent of an Investigational New Drug (IND) application

<sup>2</sup> All amounts translated using the exchange rate published by the European Central Bank in effect as of December 31, 2022 (1 EUR = 1.0666 USD).

monotherapy candidate targeting PRAME. As we continue demonstrating the potential of our first- and second-generation product candidates in patients, we have commenced establishing our in-house GMP cell therapy manufacturing facility in Houston, TX. This positions us to scale our cell therapies for registration-directed trials and commercial supply. In addition, we have significantly advanced our clinical TCR Bispecifics pipeline with one TCER® program targeting MAGEA4/8 now in the clinic and a second TCER® program targeting PRAME commencing clinical studies this year. We demonstrated our ability to execute and deliver on our goals in 2022 and look forward to continuing on this path in 2023.”

#### Full Year 2022 and Subsequent Company Progress

##### Adoptive Cell Therapy Programs

· **ACTengine® IMA203 (PRAME)** – Immatics is investigating IMA203 TCR-T in a Phase 1b trial including three ongoing dose expansion cohorts. Immatics’ focus for 2023 is to advance its monotherapy product candidates, 1<sup>st</sup>-generation IMA203 TCR-T (Cohort A) and 2<sup>nd</sup>-generation IMA203CD8 TCR-T (Cohort C) in the last-line therapy setting. Data generated throughout 2023 with longer follow-up to assess durability of response is intended to identify the most promising cohort to advance towards pivotal trials and potential commercialization. The clinical data update on all three cohorts is planned for 2H 2023.

##### **IMA203 TCR-T monotherapy (Cohort A):**

- o In October 2022, Immatics provided an [interim update](#) on the ongoing IMA203 TCR-T monotherapy trial covering data from 27 patients in the completed Phase 1a dose escalation and the first 5 patients in the Phase 1b dose expansion trial.
- o Treatment with IMA203 continued to show a manageable tolerability profile in a heavily pre-treated patient population.
- o A confirmed objective response rate (cORR) of 50% (6/12) was observed at target dose or above across Phase 1a and Phase 1b.
- o Confirmed responses were observed in 4/5 (80%) patients in the Phase 1b trial alone with early signs of prolonged durability at 12 weeks of follow-up with all responses ongoing at data cut-off.
- o Manufacturing enhancements implemented in Phase 1b (including monocyte depletion) resulted in higher infused T cell doses and significantly higher T cell peak expansion and persistence.
- o Confirmed responses were observed across different solid tumor types: cutaneous melanoma, ovarian cancer, head and neck cancer, uveal melanoma, and synovial sarcoma.

**IMA203 TCR-T in combination with nivolumab (Cohort B):**

- o In May 2022, the [first patient was treated](#) with IMA203 in combination with the PD-1 immune checkpoint inhibitor nivolumab at the provisional recommended Phase 2 dose (RP2D).
- o Immatics is currently prioritizing patient treatment with IMA203 and IMA203CD8 TCR-T monotherapy in a last-line therapy setting but is considering further investigation of a combination with nivolumab as a front-line therapy.

**IMA203CD8 2<sup>nd</sup>-generation TCR-T monotherapy (Cohort C):**

- o IMA203CD8 is Immatics' 2<sup>nd</sup>-generation monotherapy product candidate directed against PRAME in which IMA203 engineered T cells are co-transduced with a CD8αβ co-receptor that engages functional CD4 and CD8 T cells.
- o The [first patient was treated](#) in August 2022. As IMA203CD8 is a novel product candidate under a new IND amendment, a staggered enrollment was implemented; the treatment of three patients at dose level 3 (DL3) has been completed. Patients are currently being treated at DL4a (up to  $0.8 \times 10^9$  TCR-T cells/m<sup>2</sup> body surface area).

**Cell Therapy Manufacturing** – Immatics is further enhancing its cell therapy manufacturing process and capabilities.

- o Immatics proprietary manufacturing process is designed to produce T cells within one week, followed by a recently implemented one-week quality control release testing (previously two weeks). This allows Immatics to shorten the turnaround time and to provide the cell therapy product candidate to patients faster.
- o Immatics is building a state-of-the-art 100,000 square foot research and commercial GMP manufacturing facility in the metropolitan area of Houston, Texas. The facility is intended to manufacture Immatics' ACTengine® IMA203 products as well as other future autologous and allogeneic cell therapy product candidates for early-stage and registration-directed clinical trials as well as for initial commercial supply. The facility is designed for flexibility and can be expanded in a modular fashion. The GMP manufacturing facility is expected to be operational in 2024.

**ACTengine® IMA201 (MAGEA4/8)** – The Phase 1a dose escalation cohort at target dose is ongoing. Immatics plans to discontinue this program after treatment of the remaining patients already enrolled in the clinical trial in order to focus on its TCR Bispecific program TCER® IMA401 addressing the identical target peptide derived from MAGEA4/8 as IMA201.

**ACTengine® IMA204 (COL6A3 exon 6)** – Immatics and the University of Pennsylvania co-authored [a research paper published](#) in the peer-reviewed journal, Science Translational Medicine highlighting the identification of a novel proprietary HLA-A\*02:01-presented target,

collagen type VI alpha-3 (COL6A3) using Immatics' proprietary discovery platforms, XPRESIDENT® and XCEPTOR®. COL6A3 is expressed at high target density across multiple solid cancer indications and specific to the tumor stroma. Targeting tumor stroma provides an innovative therapeutic opportunity to disrupt the tumor microenvironment. The COL6A3-directed TCR-T candidate ACTengine® IMA204, developed by Immatics, was able to eliminate tumor cells at physiological target levels in *in vitro* studies and *in vivo* mouse models. The company has delayed the IND submission for IMA204 to consolidate its clinical resources on accelerating the clinical development of its PRAME-directed product candidates.

- **ACTallo® pipeline** – In June 2022, Immatics entered into two strategic collaborations with the goal of developing transformative next-generation allogeneic gamma delta TCR-T/CAR-T programs with enhanced persistence, safety and potency, by combining Immatics' proprietary ACTallo® platform with Bristol Myers Squibb's next-generation technologies and Editas Medicine's CRISPR gene editing technology.
  - o Immatics [entered into a new multi-program collaboration](#) with Bristol Myers Squibb to develop allogeneic TCR-T/CAR-T programs using Immatics' proprietary ACTallo® platform and Bristol Myers Squibb's technologies. Immatics received \$60 million upfront payment and is eligible for up to \$700 million per program in milestone payments as well as tiered royalties. Immatics may also develop its own ACTallo®-based programs outside of the collaboration.
  - o The [strategic research collaboration and licensing agreement](#) with Editas Medicine, Inc., combines Immatics' ACTallo® platform with Editas Medicine's CRISPR gene editing technology.

#### Autologous TCR-T pipeline

- Immatics and Bristol Myers Squibb expanded their [autologous T cell receptor-based therapy \(TCR-T\) collaboration](#) signed in 2019 by including one additional TCR-T target discovered by Immatics. Immatics received an upfront payment of \$20 million and is eligible for milestone payments as well as royalties.
- In October 2022, GSK provided Immatics with notice of its decision to terminate their collaboration. Initially announced on February 20, 2020, the terms of the agreement included a €45 million (~\$50 million) upfront payment to Immatics and the potential for additional milestone and royalty payments in return for access to two of Immatics' TCR-T programs. As communicated to Immatics, GSK's decision was made unrelated to the programs and the progress achieved in the collaboration to date. The termination was effective on December 26, 2022. GSK transferred the rights for both TCR-T programs back to Immatics.

### TCR Bispecifics Programs

Immatics' TCER® candidates are next-generation, half-life extended TCR Bispecific molecules designed to maximize efficacy while minimizing toxicities in patients through its proprietary format using a low-affinity T cell recruiter and a high-affinity TCR domain.

- **TCER® IMA401 (MAGEA4/8)** – Immatics [initiated a Phase 1 trial](#) in May, to evaluate safety, tolerability and initial anti-tumor activity of its T cell engaging receptor (TCER®) IMA401 for patients with recurrent and/or refractory solid tumors. IMA401 is being developed in collaboration with Bristol Myers Squibb.
- **TCER® IMA402 (PRAME)** – A comprehensive preclinical data set was presented at the [European Society for Medical Oncology \(ESMO\)](#) congress in September 2022. The TCER® candidate IMA402 showed potent and selective activity against PRAME-positive tumor cell lines *in vitro*, high anti-tumor activity in *in vivo* mouse models, low target-independent T cell engager-associated cytokine release and favorable pharmacodynamic characteristics. The submission of the CTA<sup>1</sup> application for the Phase 1/2 trial is on track for 2Q 2023. Immatics plans to start the trial in 2H 2023 with a flexible dose escalation scheme for accelerated clinical development.
- **TCER® IMA403 and TCER® IMA40x** – Immatics continues to develop several innovative preclinical TCER® product candidates against so far undisclosed targets for their proprietary and/or partnered pipeline. IMA403 is in advanced preclinical development with proof-of-concept studies ongoing. Additionally, TCER® engineering and preclinical testing is ongoing for further TCER® candidates, IMA40x, targeting peptides presented by HLA-A\*02:01 and other HLA-types.

### **Corporate Development**

- Immatics [successfully completed an underwritten public offering](#) in October 2022, raising approximately \$110 million before deducting underwriting discount and offering expenses. The offering included participation from investors including Armistice Capital Master Fund Ltd., Dellora Investments, EcoR1 Capital, Nantahala Capital, Perceptive Advisors, Rock Springs Capital, RTW Investments, LP, Samsara BioCapital, SilverArc Capital, Sofinnova Investments, Wellington Management, 683 Capital and other specialist biotech investors.
- Pursuant to Dievini Hopp Biotech Holding's rights under the business combination in 2020, dievini has designated Mathias Hothum, Ph.D., for election as a director at the 2023 annual general meeting of the shareholders in June 2023, as successor to Friedrich von Bohlen und Halbach, Ph.D. Dr. Hothum has been the Managing Director of dievini Hopp Biotech Holding, which manages the life science activities and investments of Dietmar Hopp and his family. He is also the Managing Director of several investment and consulting companies. Dr. Hothum holds a Ph.D. in Pharmaceutical Economics and Medical Sociology from the University of Magdeburg, Germany.

## Full Year 2022 Financial Results

**Cash Position:** Cash and cash equivalents as well as other financial assets total €362.2 million (\$386.3 million<sup>2</sup>) as of December 31, 2022 compared to €145.1 million (\$154.8 million<sup>2</sup>) as of December 31, 2021. The increase is mainly due to our public offering and upfront payments for collaborations, partly offset by our ongoing research and development activities. The Company projects a cash runway into 2025.

**Revenue:** Total revenue, consisting of revenue from collaboration agreements, was €172.8 million (\$184.3 million<sup>2</sup>) for the year ended December 31, 2022, compared to €34.8 million (\$37.1 million<sup>2</sup>) for the year ended December 31, 2021.

**Research and Development Expenses:** R&D expenses were €106.8 million (\$113.9 million<sup>2</sup>) for the year ended December 31, 2022, compared to €87.6 million (\$93.4 million<sup>2</sup>) for the year ended December 31, 2021. The increase mainly resulted from higher costs associated with the advancement of the clinical and pre-IND pipeline of ACTengine® and TCER® candidates.

**General and Administrative Expenses:** G&A expenses were €36.1 million (\$38.5 million<sup>2</sup>) for the year ended December 31, 2022, compared to €33.8 million (\$36.1 million<sup>2</sup>) for the year ended December 31, 2021.

**Net Profit and Loss:** Net profit was €37.5 million (\$40.0 million<sup>2</sup>) for the year ended December 31, 2022, compared to a net loss of €93.3 million (\$99.5 million<sup>2</sup>) for the year ended December 31, 2021. The improvement resulted mainly from the one-time license fee income in connection with the IMA401 collaboration with Bristol Myers Squibb, as well as the recognition of remaining deferred revenue in connection with the termination of the GSK collaboration.

Full financial statements can be found in the Annual Report on Form 20-F filed with the Securities and Exchange Commission (SEC) and published on the SEC website under [www.sec.gov](http://www.sec.gov).

<sup>2</sup> All amounts translated using the exchange rate published by the European Central Bank in effect as of December 31, 2022 (1 EUR = 1,0666 USD).

### Upcoming Investor Conferences

Kempen Life Sciences Conference, Amsterdam – April 25-26, 2023

Bank of America Health Care Conference, Las Vegas (NV) – May 9-11, 2023

Jefferies Global Healthcare Conference, New York (NY) – June 7-9, 2023



To see the full list of events and presentations, visit [www.investors.immatics.com/events-presentations](http://www.investors.immatics.com/events-presentations).

#### **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](#).

#### **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 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. Immatics undertakes no duty to update these forward-looking statements.

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**Immatics N.V. and subsidiaries**  
**Condensed Consolidated Statement of Profit/(Loss) of Immatics N.V.**

	Year ended December 31,		
	2022	2021	2020
	(Euros in thousands, except share and per share data)		
Revenue from collaboration agreements	172,831	34,763	31,253
Research and development expenses	(106,779)	(87,574)	(67,085)
General and administrative expenses	(36,124)	(33,808)	(34,186)
Other income	26	325	303
<b>Operating result</b>	<b>29,954</b>	<b>(86,294)</b>	<b>(69,715)</b>
Change in fair value of liabilities for warrants	10,945	(10,990)	17,775
Share listing expense	—	—	(152,787)
Other financial income	9,416	5,675	2,949
Other financial expenses	(8,279)	(1,726)	(10,063)
<b>Financial result</b>	<b>12,082</b>	<b>(7,041)</b>	<b>(142,126)</b>
<b>Profit/(loss) before taxes</b>	<b>42,036</b>	<b>(93,335)</b>	<b>(211,841)</b>
Taxes on income	(4,552)	—	—
<b>Net profit/(loss)</b>	<b>37,514</b>	<b>(93,335)</b>	<b>(211,841)</b>
<i>Attributable to:</i>			
<i>Equity holders of the parent</i>	37,514	(93,335)	(211,284)
<i>Non-controlling interest</i>	—	—	(557)
<b>Net profit/(loss) per share:</b>			
Basic	0.56	(1.48)	(4.40)
Diluted	0.55	(1.48)	(4.40)

**Immatics N.V. and subsidiaries**  
**Condensed Consolidated Statement of Comprehensive Income/(Loss) of Immatics N.V.**

	Year ended December 31,		
	2022	2021	2020
	(Euros in thousands)		
<b>Net profit/(loss)</b>	37,514	(93,335)	(211,841)
<b>Other comprehensive income/(loss)</b>			
Items that may be reclassified subsequently to profit or loss			
Currency translation differences from foreign operations	2,464	3,514	(6,689)
<b>Total comprehensive income/(loss) for the year</b>	<b>39,978</b>	<b>(89,821)</b>	<b>(218,530)</b>
Attributable to:			
Equity holders of the parent	39,978	(89,821)	(217,973)
Non-controlling interest	—	—	(557)

Immatics N.V. and subsidiaries  
Condensed Consolidated Statement of Financial Position of Immatics N.V.

	As of	
	December 31, 2022	December 31, 2021
	(Euros in thousands)	
<b>Assets</b>		
<b>Current assets</b>		
Cash and cash equivalents	148,519	132,994
Other financial assets	213,686	12,123
Accounts receivables	1,111	682
Other current assets	13,838	6,408
<b>Total current assets</b>	<b>377,154</b>	<b>152,207</b>
<b>Non-current assets</b>		
Property, plant and equipment	13,456	10,506
Intangible assets	1,632	1,315
Right-of-use assets	13,033	9,982
Other non-current assets	2,545	636
<b>Total non-current assets</b>	<b>30,666</b>	<b>22,439</b>
<b>Total assets</b>	<b>407,820</b>	<b>174,646</b>
<b>Liabilities and shareholders' equity</b>		
<b>Current liabilities</b>		
Accounts payables	13,056	11,624
Deferred revenue	64,957	50,402
Liabilities for warrants	16,914	27,859
Lease liabilities	2,159	2,711
Other current liabilities	9,366	2,552
<b>Total current liabilities</b>	<b>106,242</b>	<b>95,148</b>
<b>Non-current liabilities</b>		
Deferred revenue	75,759	48,225
Lease liabilities	12,403	7,142
Other non-current liabilities	42	68
<b>Total non-current liabilities</b>	<b>88,204</b>	<b>55,435</b>
<b>Shareholders' equity</b>		
Share capital	767	629
Share premium	714,177	565,192
Accumulated deficit	(500,299)	(537,813)
Other reserves	(1,481)	(3,945)
<b>Total shareholders' equity</b>	<b>213,164</b>	<b>24,063</b>
<b>Total liabilities and shareholders' equity</b>	<b>407,820</b>	<b>174,646</b>

**Immatics N.V. and subsidiaries**  
**Condensed Consolidated Statement of Cash Flows of Immatics N.V.**

	Year ended December 31,		
	2022	2021	2020
	(Euros in thousands)		
<b>Cash flows from operating activities</b>			
Net profit/(loss)	37,514	(93,335)	(211,841)
Taxes on income	4,522	—	—
<b>Profit/(loss) before tax</b>	<b>42,340</b>	<b>(93,335)</b>	<b>(211,841)</b>
<b>Adjustments for:</b>			
Interest income	(2,476)	(133)	(850)
Depreciation and amortization	6,967	5,260	4,424
Interest expenses	1,038	566	289
Share listing expense	—	—	152,787
Equity settled share-based payment	22,570	26,403	22,908
MD Anderson compensation expense	—	—	45
(Decrease) Increase in other liabilities resulting from share appreciation rights	—	—	(2,036)
Payment related to share-based compensation awards previously classified as equity-settled	—	—	(4,322)
Net foreign exchange differences and expected credit losses	2,953	(2,408)	437
Change in fair value of liabilities for warrants	(10,945)	10,990	(17,775)
<b>Changes in:</b>			
(Increase)/decrease in accounts receivables	(429)	569	(294)
(Increase) in other assets	(7,872)	(483)	(1,600)
Increase/(decrease) in deferred revenue, accounts payables and other liabilities	45,559	(31,784)	(23,387)
Interest received	1,649	175	808
Interest paid	(695)	(566)	(289)
Income tax paid	(224)	—	—
<b>Net cash provided by/(used in) operating activities</b>	<b>100,131</b>	<b>(84,746)</b>	<b>(80,696)</b>
<b>Cash flows from investing activities</b>			
Payments for property, plant and equipment	(5,738)	(5,106)	(7,420)
Payments for investments classified in Other financial assets	(216,323)	(11,298)	(58,087)
Proceeds from maturity of investments classified in Other financial assets	12,695	24,448	49,662
Payments for intangible assets	(477)	(551)	(104)
Proceeds from disposal of property, plant and equipment	52	—	—
<b>Net cash (used in)/provided by investing activities</b>	<b>(209,791)</b>	<b>7,493</b>	<b>(15,949)</b>
<b>Cash flows from financing activities</b>			
Proceeds from issuance of shares to equity holders	134,484	94	217,918
Transaction costs deducted from equity	(7,931)	—	(7,939)
Repayment of lease liabilities	(2,843)	(2,707)	(2,096)
<b>Net cash provided by/(used in) financing activities</b>	<b>123,710</b>	<b>(2,613)</b>	<b>207,883</b>
<b>Net increase/(decrease) in cash and cash equivalents</b>	<b>14,050</b>	<b>(79,866)</b>	<b>111,238</b>
<b>Cash and cash equivalents at beginning of the year</b>	<b>132,994</b>	<b>207,530</b>	<b>103,353</b>
Effects of exchange rate changes on cash and cash equivalents and expected credit losses	1,475	5,330	(7,061)
<b>Cash and cash equivalents at end of the year</b>	<b>148,519</b>	<b>132,994</b>	<b>207,530</b>

**Immatics N.V. and subsidiaries**
**Condensed Consolidated Statement of Changes in Shareholders' equity (deficit) of Immatics N.V.**

(Euros in thousands)	Share capital	Share premium	Accumulated deficit	Other reserves	Total equity (deficit) attributable to shareholders of the parent	Non-controlling interest	Total shareholders' equity (deficit)
<b>Balance as of January 1, 2020</b>	<b>1,164</b>	<b>190,945</b>	<b>(233,194)</b>	<b>(770)</b>	<b>(41,855)</b>	<b>1,020</b>	<b>(40,835)</b>
Other comprehensive loss	—	—	—	(6,689)	(6,689)	—	(6,689)
Net loss	—	—	(211,284)	—	(211,284)	(557)	(211,841)
<b>Comprehensive loss for the year</b>	<b>—</b>	<b>—</b>	<b>(211,284)</b>	<b>(6,689)</b>	<b>(217,973)</b>	<b>(557)</b>	<b>(218,530)</b>
Reorganization	(833)	833	—	—	—	—	—
<b>Issue of share capital</b>							
MD Anderson Share Exchange	7	501	—	—	508	(508)	—
PIPE Financing, net of transaction costs	104	89,973	—	—	90,077	—	90,077
ARYA Merger, net of transaction costs	180	237,864	—	—	238,044	—	238,044
SAR conversion	7	(7)	—	—	—	—	—
<b>Total issuance of share capital</b>	<b>298</b>	<b>328,331</b>	<b>—</b>	<b>—</b>	<b>328,629</b>	<b>(508)</b>	<b>328,121</b>
Equity-settled share-based compensation	—	22,908	—	—	22,908	—	22,908
Payments related to share-based compensation awards previously classified as equity-settled	—	(4,322)	—	—	(4,322)	—	(4,322)
MD Anderson milestone compensation expense	—	—	—	—	—	45	45
<b>Balance as of December 31, 2020</b>	<b>629</b>	<b>538,695</b>	<b>(444,478)</b>	<b>(7,459)</b>	<b>87,387</b>	<b>—</b>	<b>87,387</b>
<b>Balance as of January 1, 2021</b>	<b>629</b>	<b>538,695</b>	<b>(444,478)</b>	<b>(7,459)</b>	<b>87,387</b>	<b>—</b>	<b>87,387</b>
Other comprehensive income	—	—	—	3,514	3,514	—	3,514
Net loss	—	—	(93,335)	—	(93,335)	—	(93,335)
<b>Comprehensive loss for the year</b>	<b>—</b>	<b>—</b>	<b>(93,335)</b>	<b>3,514</b>	<b>(89,821)</b>	<b>—</b>	<b>(89,821)</b>
Equity-settled share-based compensation	—	26,403	—	—	26,403	—	26,403
Share options exercised	—	94	—	—	94	—	94
<b>Balance as of December 31, 2021</b>	<b>629</b>	<b>565,192</b>	<b>(537,813)</b>	<b>(3,945)</b>	<b>24,063</b>	<b>—</b>	<b>24,063</b>
<b>Balance as of January 1, 2022</b>	<b>629</b>	<b>565,192</b>	<b>(537,813)</b>	<b>(3,945)</b>	<b>24,063</b>	<b>—</b>	<b>24,063</b>
Other comprehensive income	—	—	—	2,464	2,464	—	2,464
Net profit	—	—	37,514	—	37,514	—	37,514
<b>Comprehensive income for the year</b>	<b>—</b>	<b>—</b>	<b>37,514</b>	<b>2,464</b>	<b>39,978</b>	<b>—</b>	<b>39,978</b>
Equity-settled share-based compensation	—	22,570	—	—	22,570	—	22,570
Share options exercised	—	311	—	—	311	—	311
Issue of share capital – net of transaction costs	138	126,104	—	—	126,242	—	126,242
<b>Balance as of December 31, 2022</b>	<b>767</b>	<b>714,177</b>	<b>(500,299)</b>	<b>(1,481)</b>	<b>213,164</b>	<b>—</b>	<b>213,164</b>



# Immatics Corporate Presentation

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March 22, 2023



*Delivering the Power of T cells to Cancer Patients*

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## Two Clinical-Stage Modalities

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



## Clinical PoC for Cell Therapy

High rate of confirmed objective responses across multiple solid tumors in early TCR-T clinical development



## Differentiated Platforms

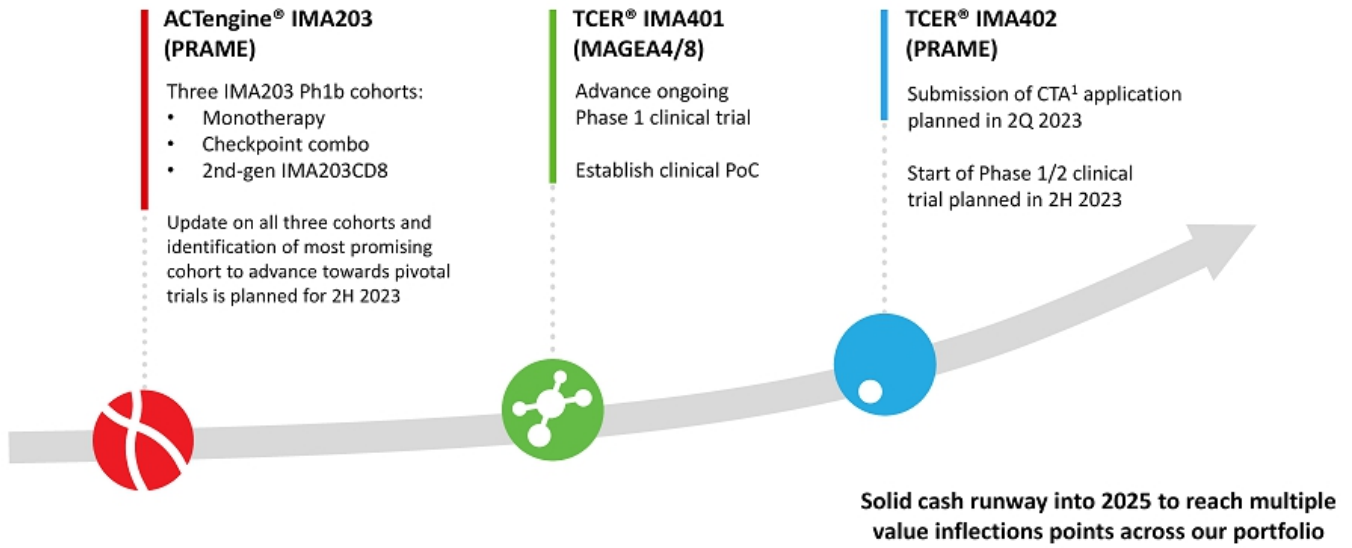
Unique technologies to identify true cancer targets and right TCRs



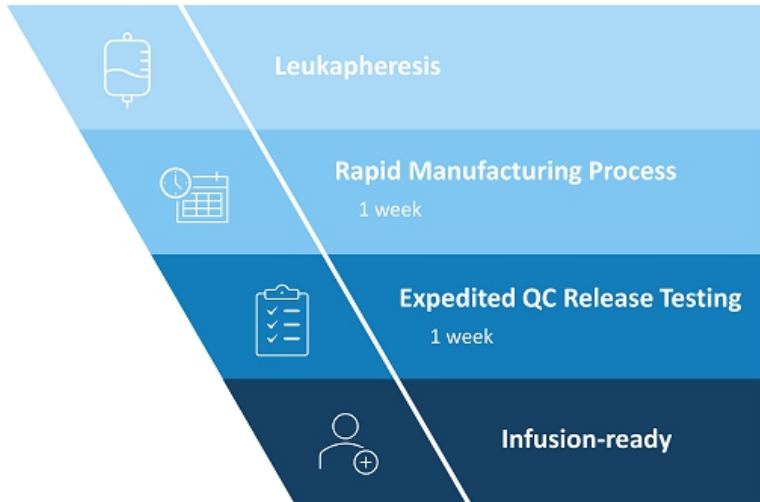
## Therapeutic Opportunity

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

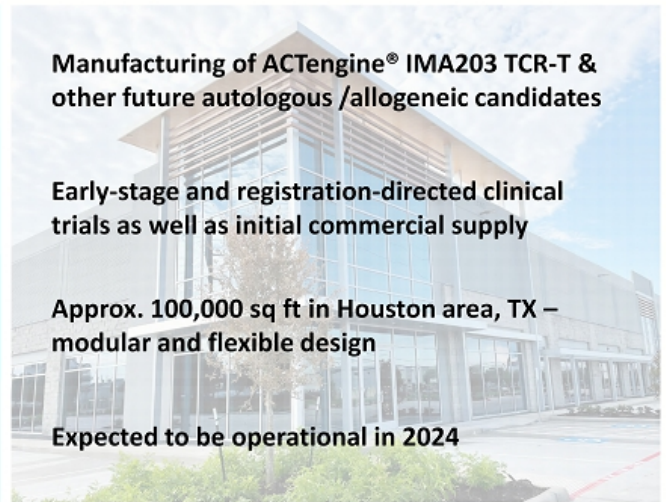
# Our Near-Term Focus – Clinical Development of Our Lead Assets from Our Autologous TCR-T (ACTengine®) and TCR Bispecifics (TCER®) Pipeline



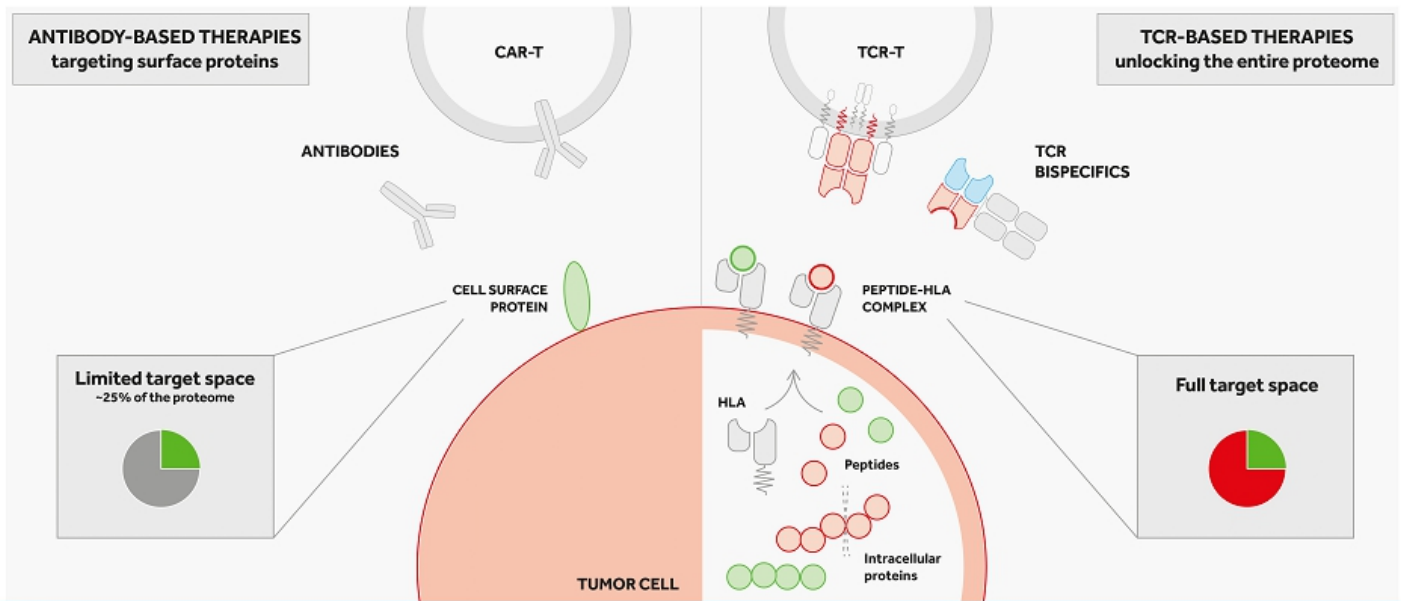
**Short manufacturing turnaround time**

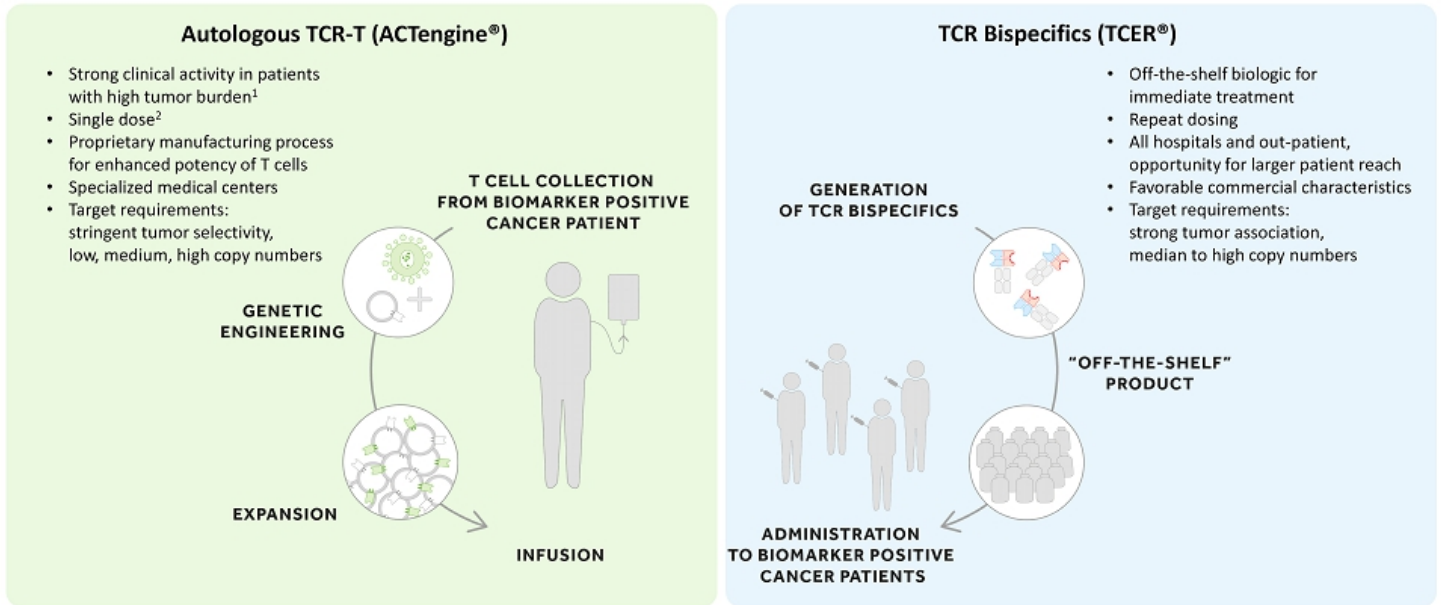


**State-of-the-art research & GMP manufacturing facility**



# 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



Intro <sup>1</sup>Phase 1a: Dose escalation, Phase 1b: Dose expansion; <sup>2</sup>Opdivo<sup>®</sup> (nivolumab): programmed death-1 (PD-1) immune checkpoint inhibitor; \* Immatics proprietary ACTallo<sup>®</sup> platform utilizing Editas' CRISPR gene editing technology

## IMA203 / IMA402 PRAME

Uterine Carcinoma – 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**

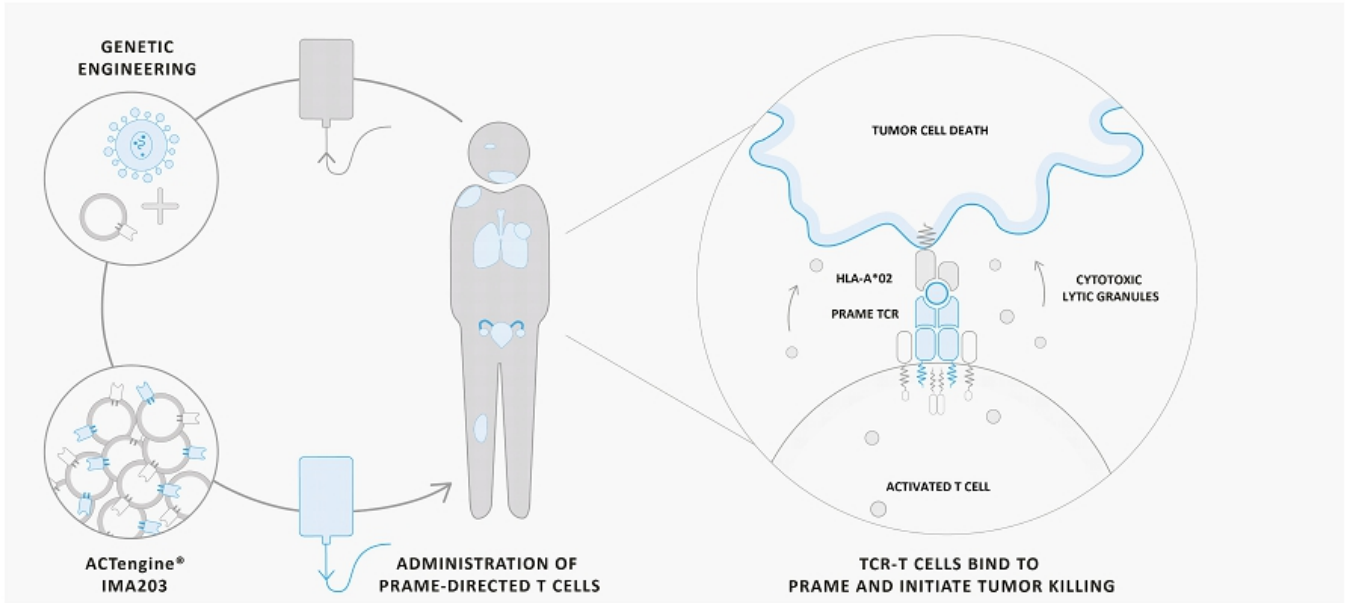




## ACTengine® IMA203 – TCR-T Targeting PRAME

# ACTengine® IMA203 Targeting PRAME – Mechanism of Action

## Immatics' Leading TCR-T Approach

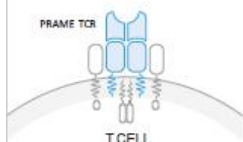
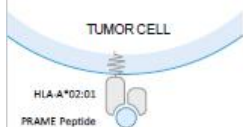


# Multi-Tumor Target PRAME

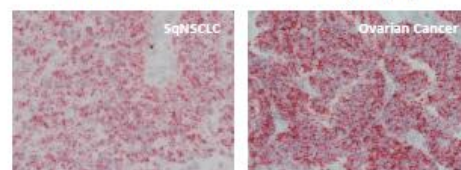
## Promising Opportunity for TCR-based Therapies

### PRAME Peptide Target

- HLA-A\*02:01 presented peptide identified by XPRESIDENT® quant. mass spectrometry
- Presented at high target density in tumor tissue (100-1000 copies/cell)
- Homogenously expressed
- Highly cancer-specific, not expressed in normal tissue at relevant levels
- Highly prevalent across many solid cancers
- Potential to reach a large cancer patient population



PRAME RNA detection in tumor samples (ISH)



Patient screening data from Immatics' clinical trials support high prevalence of PRAME:

Uterine Carcinoma	90%
Cut. Melanoma	95%
Uveal Melanoma <sup>2</sup>	90%
Ovarian Carcinoma	70%

### IMA203 T cell Receptor (TCR):

- Affinity-improved TCR by enhanced TCR chain pairing
- High functional avidity: EC50 ~5 ng/ml
- Off-target toxicity screening against normal tissue peptides selected from our immunopeptidome database to retain specificity

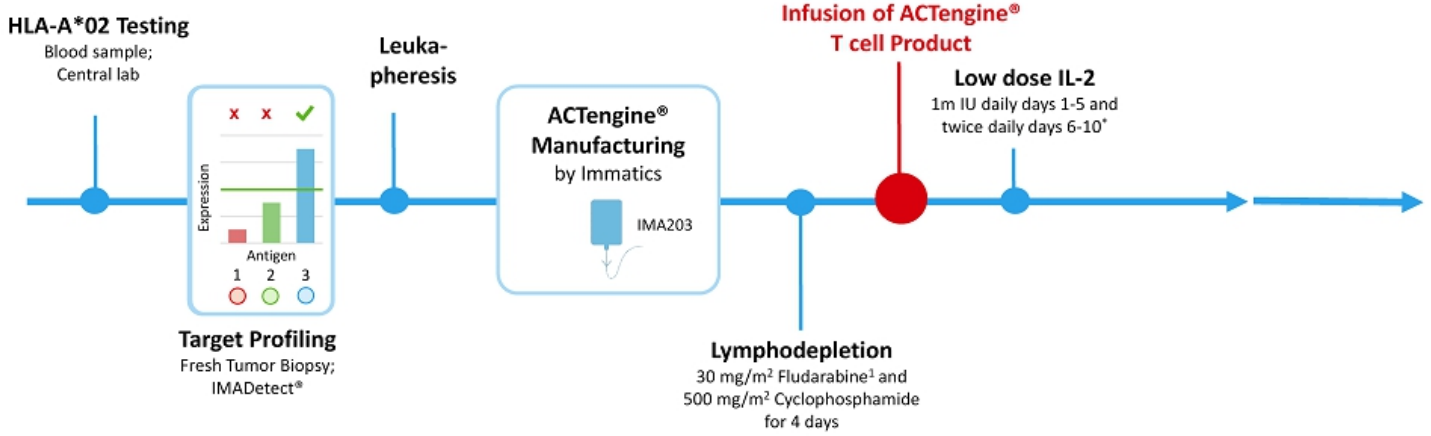
Indication	% PRAME positive patients <sup>1</sup>
Uterine Carcinoma	100%
Uterine Carcinosarcoma	100%
Sarcoma Subtypes	up to 100%
Cut. Melanoma	95%
Uveal Melanoma <sup>2</sup>	50%
Ovarian Carcinoma	80%
Squamous NSCLC	65%
TNBC	60%
Small Cell Lung Cancer	55%
Kidney Carcinoma	up to 45%
Cholangiocarcinoma	35%
Adeno NSCLC	25%
Breast Carcinoma	25%
HNSCC	25%
Esophageal Carcinoma	20%
HCC	20%
Bladder Carcinoma	20%

## Screening & Manufacturing Phase

## Treatment & Observation Phase

## Long Term Follow-up

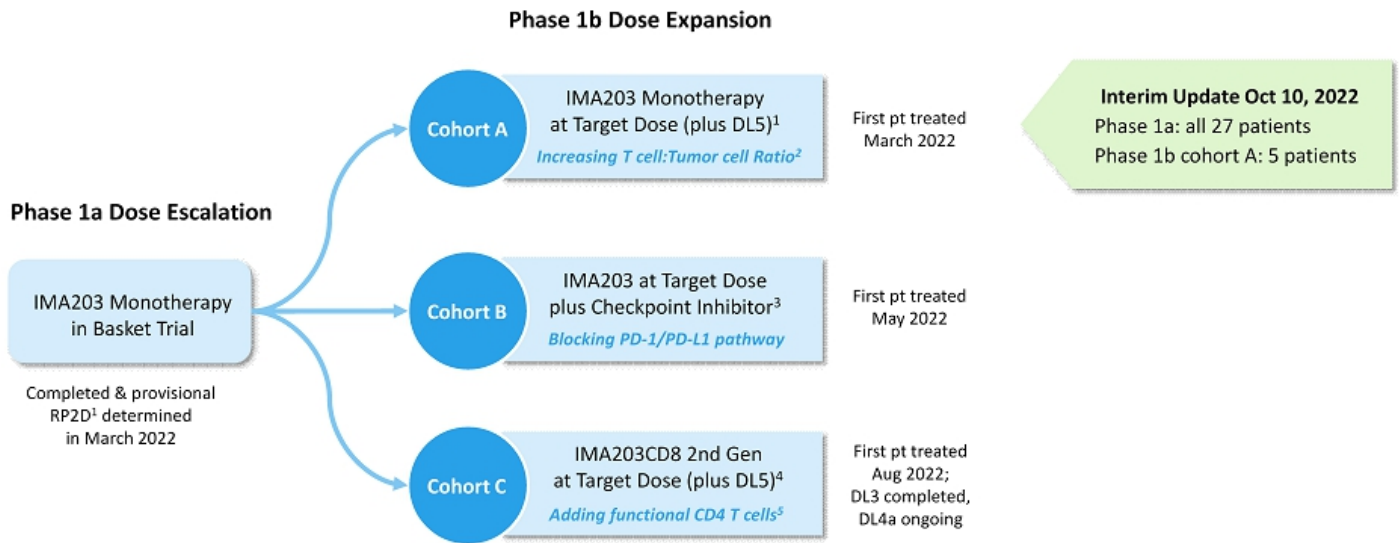
Safety and efficacy monitoring for 12 months



**IMA203** \* IL-2 dose reduction from twice daily to daily for the first 5 days and dosing duration from 14 to 10 days introduced prior to treatment of first patients on dose level 3;  
<sup>1</sup> Dose reduction of Fludarabine (from 40mg/m<sup>2</sup> to 30mg/m<sup>2</sup>) was introduced prior to treatment of the first patient on dose level 3

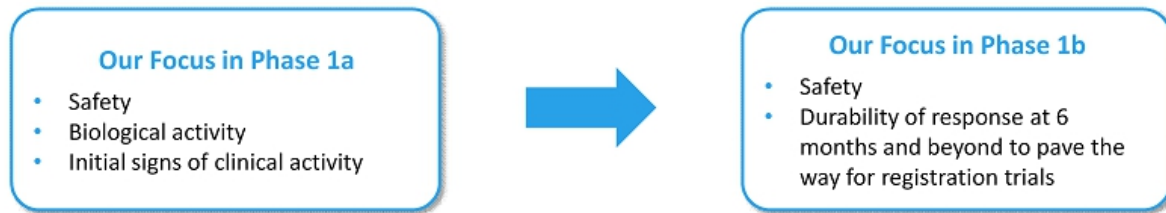
# IMA203 TCR-T Phase 1 Design

## Three Phase 1b Expansion Cohorts to Establish Durable Objective Responses



## Moving from Phase 1a to Phase 1b

### Continuous Improvement of Key Aspects that May Influence Clinical Outcome



### We continue to improve key determinants as we move from Phase 1a into Phase 1b

1. **Higher T cell dose:** Only RP2D or exploratory DL5
2. **Enhanced cell product:** Implementation of manufacturing enhancements (e.g. monocyte depletion, see appendix) focusing on robustness, quality, and speed of product release
3. **“Real life” patients:** Working with more disease area experts to reduce the fraction of very heavily pre-treated patients with extreme disease burden who have exhausted standard of care and have undergone multiple clinical trials

## Phase 1a

### Dose Escalation Data from 27 Patients

- Acceptable & manageable treatment-emergent adverse events (TEAEs)
- DL4 defined as provisional RP2D
- 48% (13/27) initial ORR<sup>1</sup> across all doses and multiple solid cancers
- Limited number of confirmed responses



## Phase 1b Cohort A

### Initial Data from 5 Patients

- Acceptable & manageable TEAEs
- Patients treated at RP2D (DL4) and exploratory DL5
- 80% (4/5) initial ORR<sup>1</sup> in patients with 4 different solid tumors
- 80% (4/5) confirmed ORR<sup>2</sup>: Confirmation of all objective responses after ~3 months; all responses ongoing



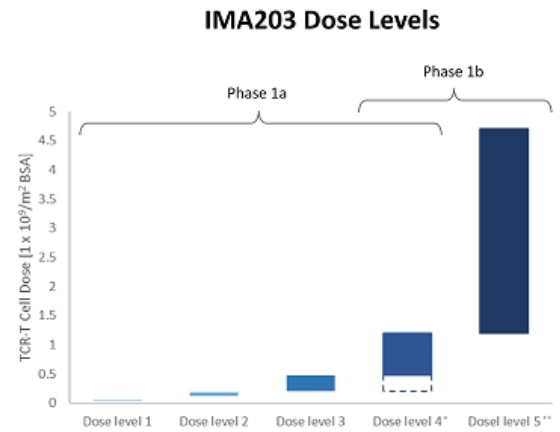
## Key Take Aways

### IMA203 Monotherapy

- Favorable tolerability profile
- Confirmed responses in multiple heavily pre-treated solid tumor types (*cut. melanoma, uveal melanoma, head and neck cancer, ovarian cancer, synovial sarcoma*)
- Positively evolving durability profile for IMA203
  - above 1 bn TCR-T cells (DL4/5)\* in phase 1a and phase 1b: **50% (6/12) confirmed ORR<sup>2</sup>**
  - in phase 1b patients only: **80% (4/5) confirmed ORR<sup>2</sup>**

Data cut-off – 06-Sept-2022

	Phase 1a Dose Escalation		Phase 1b (Cohort A) Dose Expansion
	All pts (DL1-4)	DL4 pts only	All pts (DL4/DL5)
<b>Patients treated</b>	27	7	5
<b>Prior lines of treatment</b> Mean (min, max)	4.2 (1, 8)	4.6 (1, 7)	4.0 (1, 10)
<b>LDH at baseline</b> >1 x ULN [% of patients]	66.7	85.7	40.0
<b>Baseline tumor burden</b> Mean target lesion sum of diameter [mm] (min, max)	130.3 (29.0, 219.7)	115.8 (37.0, 197.6)	55.2 (21.0, 102.9)
<b>Dose</b> Mean transduced viable CD8 T cells infused [x10 <sup>9</sup> ] (min, max)	0.65 (0.08, 2.09)	1.48 (1.07, 2.09)	2.22 (1.30, 4.16)
<b>Manufacturing Process</b>	Prior versions <sup>1</sup>		Current version



32 heavily pre-treated patients, thereof **12 patients at target dose or above**, were infused with IMA203 TCR-T cells targeting PRAME

DL4 was defined as provisional RP2D for Phase 1b, exploration of higher DL5 ongoing

Data cut-off – 06-Sept-2022



## IMA203 Tolerability Profile – Most Frequent Adverse Events

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

- **Expected cytopenia (Grade 1-4)** associated with lymphodepletion in all patients
- **Cytokine release syndrome (CRS):** 31 of 32 (97%) patients infused with IMA203 experienced CRS of any Grade
  - 29 patients had Grade 1 or 2 CRS
  - 2 patients had Grade 3 CRS (both in phase 1a); recovered to Grade  $\leq$ 2 after 3 and 4 days, respectively
- **Low-moderate ICANS<sup>1</sup>:** 5 of 32 (16%) patients infused with IMA203 experienced Grade 1 or 2 ICANS (all in phase 1a)
- **No dose-dependent increase of CRS and ICANS**
- **No additional DLT<sup>2</sup>**

Data cut-off – 06-Sept-2022

IMA203

One patient that started lymphodepletion in Phase 1a died from sepsis of unknown origin and did not receive IMA203 T cells, patient reported earlier and not shown; CRS and ICANS graded by CARTOX criteria (Neelapu et al., 2018);  
<sup>1</sup> ICANS: Immune effector cell-associated neurotoxicity syndrome; <sup>2</sup> DLT: dose-limiting toxicity, one DLT in phase 1a at DL2 reported on March 17, 2021

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## Frequency of Observed Objective Responses

### Improved ORR and Confirmed ORR at Higher Dose and in Phase 1b Cohort A

	Phase 1a		Phase 1a + Phase 1b	Phase 1b only
	All pts (DL1-4)	DL4 pts only <sup>1</sup>	DL4/DL5 pts only <sup>1</sup>	All pts (DL4/DL5) <sup>1</sup>
<b>Patients Treated</b>	27	7	12	5
<b>ORR (~6 weeks)<sup>2</sup></b>	48% (13/27)	57% (4/7)	67% (8/12)	80% (4/5)
<b>cORR (~12 weeks)<sup>3</sup></b>	19% (5/27)	29% (2/7)	50% (6/12)*	80% (4/5)*

- Higher ORR and confirmed ORR observed at doses above 1 billion TCR-T cells (DL4, DL5)
- Early trends towards higher ORR and confirmed ORR observed in Phase 1b vs. Phase 1a patients

Data cut-off – 06-Sept-2022

IMA203

<sup>1</sup> All patients received >1 x 10<sup>9</sup> total transduced viable CD8 T cells; <sup>2</sup> ORR: Objective response rate (partial responses) according to RECIST 1.1 at first scan post infusion (~6 weeks); <sup>3</sup> Confirmed ORR (cORR): Confirmed objective response rate (confirmed partial responses) according to RECIST 1.1 at second scan post infusion (~12 weeks); \* 1 patient with SD at ~6-week scan with pending ~12-week scan considered as non-responder for cORR.

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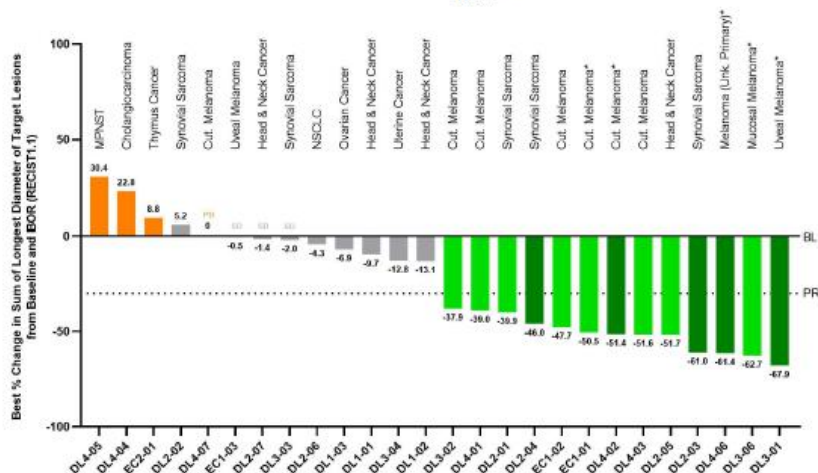
# Best Overall Response

## IMA203 Continues to Deliver Objective Responses in Major Solid Tumor Types



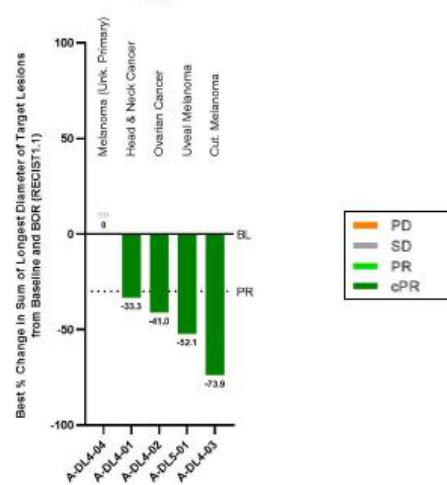
### Phase 1a (Dose Escalation)

N=27\*



### Phase 1b (Cohort A)

N=5



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

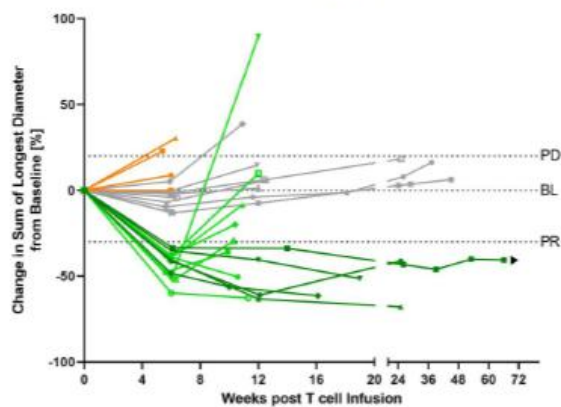
Data cut-off – 06-Sept-2022

# Responses over Time

Encouraging Early Signs for Improved Durability at Higher Dose and in Phase 1b Patients

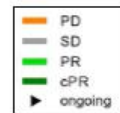
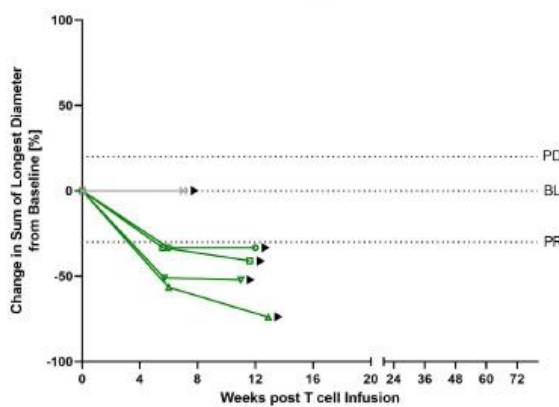
Phase 1a (Dose Escalation)

N=27\*



Phase 1b (Cohort A)

N=5



Best overall response (RECIST1.1)

cPR		PR		SD		PD	
DL2-03	EC1-01	DL3-06	DL1-01	DL2-06	EC2-01	DL2-04	DL4-04
DL2-04	EC1-02	DL4-01	DL1-02	DL2-07	DL4-04	DL3-01	DL4-05
DL3-01	DL2-01	DL4-03	DL1-03	DL3-03	DL4-05	DL4-02	DL4-07
DL4-02	DL2-05		EC1-03	DL3-04		DL4-06	
DL4-06	DL3-02		DL2-02				

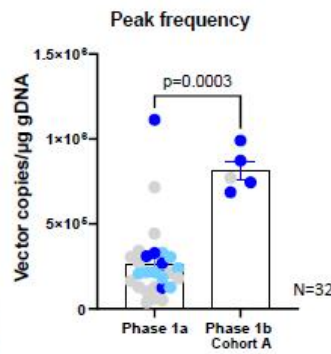
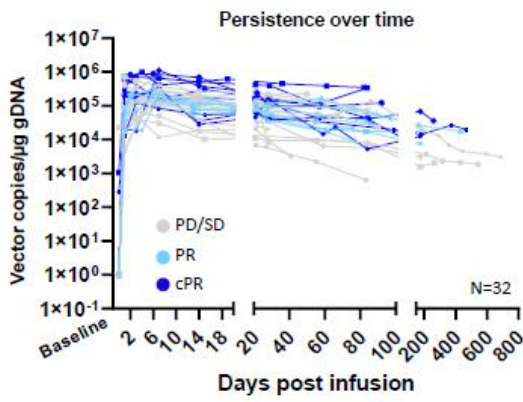
cPR		SD	
A-DL4-01	A-DL4-04		
A-DL4-02			
A-DL4-03			
A-DL3-01			

Data cut-off – 06-Sept-2022

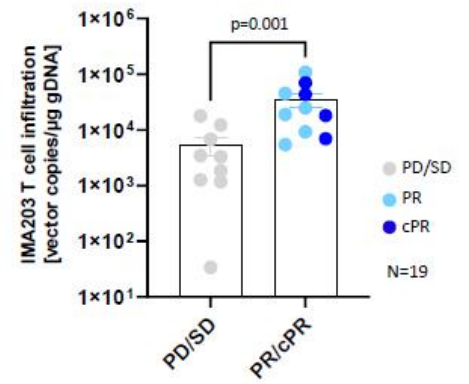
# Translational Data Consistent with Clinical Outcomes

Supporting Proposed Mechanism of Action for IMA203

## High IMA203 T cell engraftment and persistence in peripheral blood

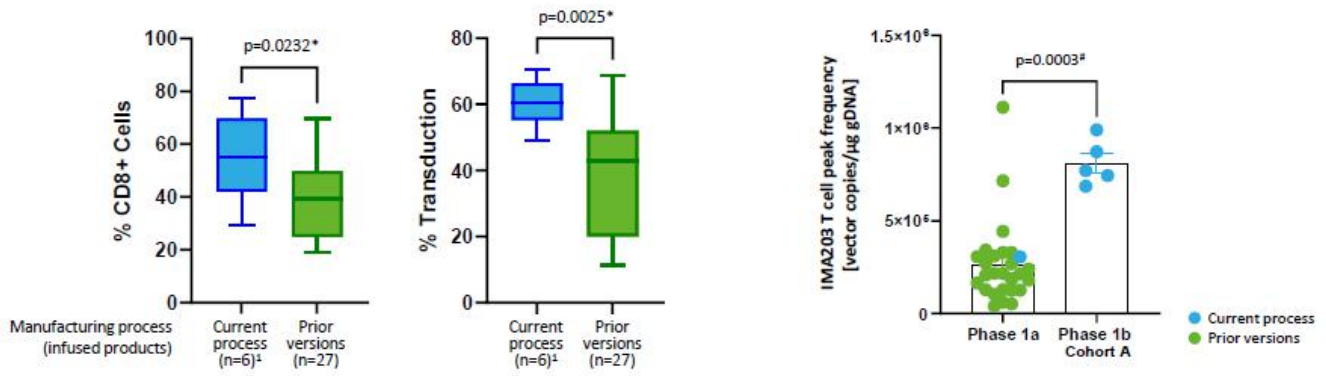


## IMA203 T cell infiltration into tumor correlates with objective responses<sup>1</sup>



Data cut-off – 06-Sept-2022

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



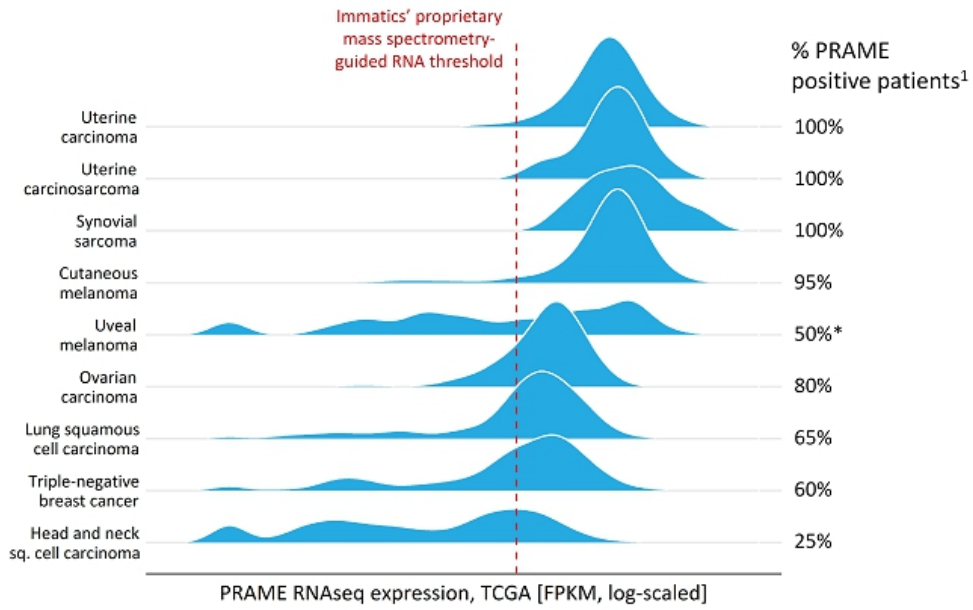
All Phase 1b cell products were manufactured with the current, optimized process including manufacturing improvements such as

- ✓ Monocyte depletion
- ✓ Serum-free transduction

Significantly higher peak frequencies in Phase 1b patients infused with current, optimized product version

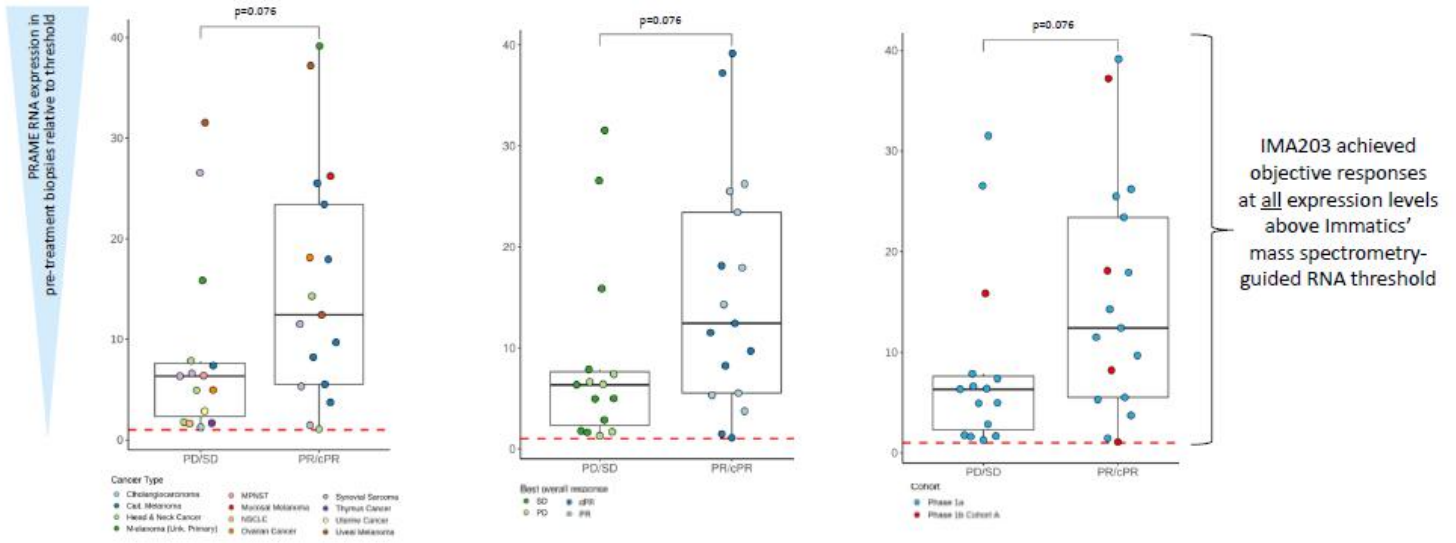
# PRAME Expression – RNAseq Data

## Combined with Immatics' Mass Spectrometry-guided RNA Threshold for Prevalence Prediction



# PRAME Expression in Tumors from Screened Patients (N=32)

Highlighting Tumor Types (left), Type of Best Overall Response (middle) and Study Cohort (right)



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

Data cut-off – 06-Sept-2022



# 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	Patient Population	
				Based on R/R Incidence; PRAME and HLA-A*02:01+	
Initial indications of interest based on PRAME prevalence, patient population size and observed clinical responses	Cut. Melanoma	99,800	7,700	95%	2,999
	Uveal Melanoma	1,500	800	90%	295
	Ovarian Carcinoma	19,900	12,800	80%	4,198
	Uterine Carcinoma	62,700	10,700	100%	4,387
	Uterine Carcinosarcoma	3,300	1,900	100%	779
	Synovial Sarcoma	1,000	400	100%	164
	Squamous NSCLC	57,000	34,600	65%	9,221
	Small Cell Lung Cancer	31,900	19,400	55%	4,375
	Cholangiocarcinoma	8,000	7,000	35%	1,005
	Adeno NSCLC	91,200	55,300	25%	5,668
	Breast Carcinoma	290,600	43,800	25% TNBC: 60%	4,490
	HNSCC	66,500	15,100	25%	1,548

**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, liver cancer, other sarcoma subtypes through indication-specific or indication-agonistic label expansion
- Move into earlier lines of therapy (R/R Incidence → Incidence)
- Inclusion of patients with lower PRAME-threshold

## IMA203 Monotherapy – Conclusions

ACTengine® IMA203 Targeting PRAME Offers a Unique Opportunity for Solid Cancer Patients

### IMA203 monotherapy Phase 1a and Phase 1b cohort A summary:

- IMA203 continues to be well tolerated with manageable safety profile
- Confirmed responses across a broad spectrum of different solid tumor types in heavily pre-treated patients
- Positively evolving durability profile for patients treated with higher doses and in phase 1b
- Clinical validation of PRAME biomarker threshold and associated prevalences
- **We have clinically validated PRAME as one of the largest known T cell targets for solid cancers to date**

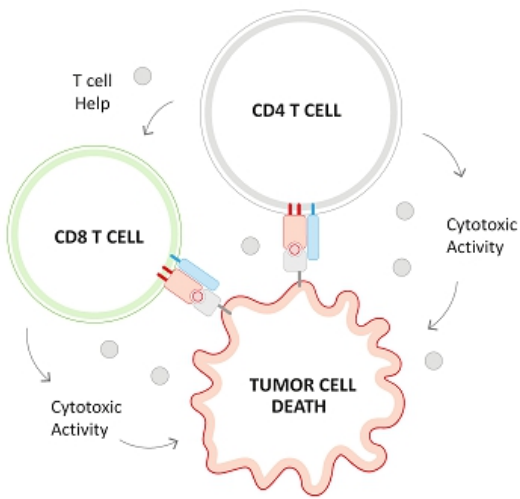
### IMA203 development strategy:

- Transition to indication-specific development strategy
- Three Phase 1b expansion cohorts ongoing each designed to establish safety, evaluate the observed objective response rate, demonstrate durability & provide the trigger for registration trials

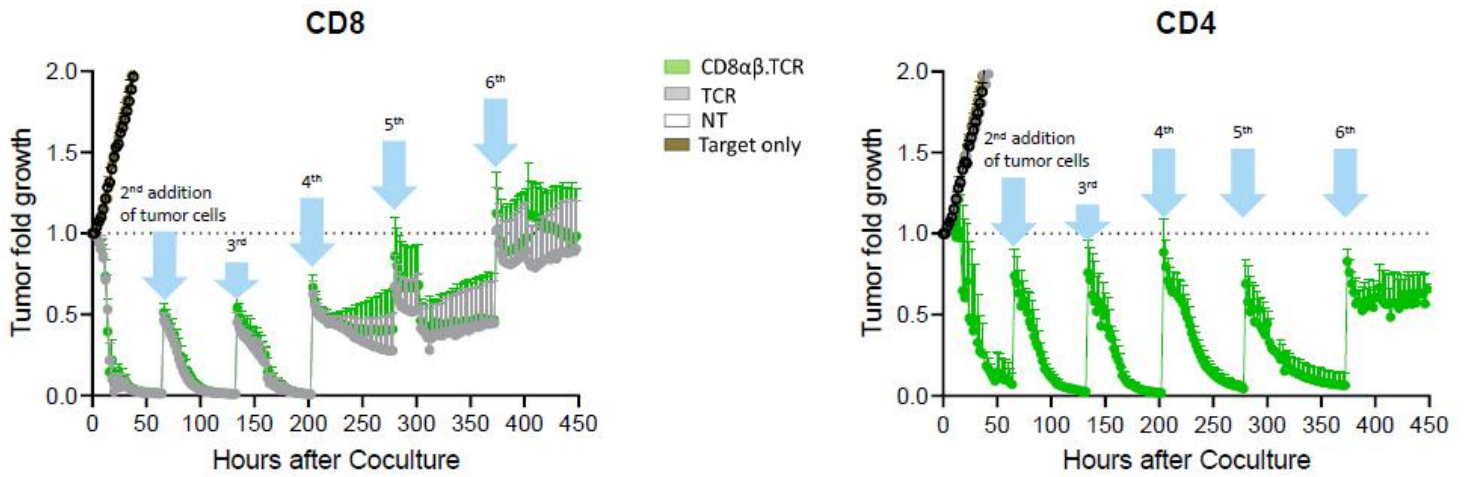
**Data highlight the clinical potential of IMA203 TCR-T to achieve meaningful benefit for a large patient population**

# ACTengine® IMA203CD8 – Next-generation TCR-T

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



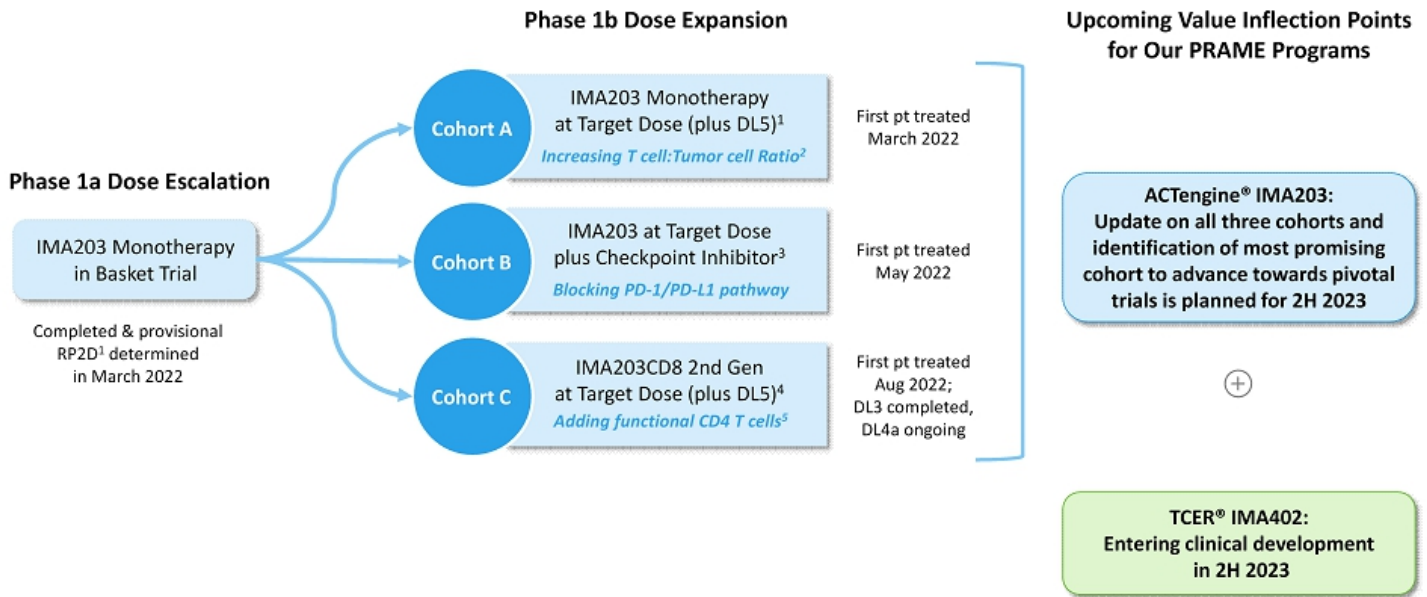
- Engagement of CD4 T cells by CD8 co-transduction reported to boost anti-tumor activity in TCR-T trials
- Recent data from leukaemia patients treated with CAR-T suggest a relevant role of engineered CD4 T cells in maintaining durable tumor responses over a long period of time<sup>1</sup>
- Functional superiority of the **CD8αβ** 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 CD8αβ 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

# Comprehensive PRAME Strategy

To Deliver Meaningful Clinical Benefit to Patients with PRAME-positive Cancers



<sup>1</sup> RP2D (target dose) determined at DL4, exploration of higher dose (DL5) ongoing; <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> Treatment of n=3 patients at DL3 completed, enrollment at DL4a ongoing before continuation at DL4b and potentially DL5; <sup>5</sup> Demonstrated to be important for long-term remission: Melenhorst et al. 2022 Nature, Bai et al. 2022 Science Advances;



**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

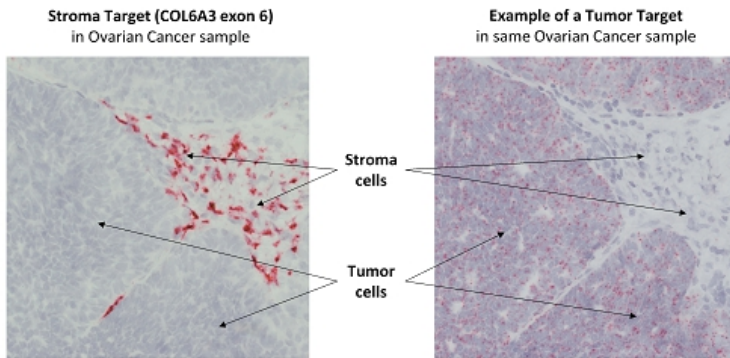
### PATIENT POPULATION<sup>3</sup>

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%

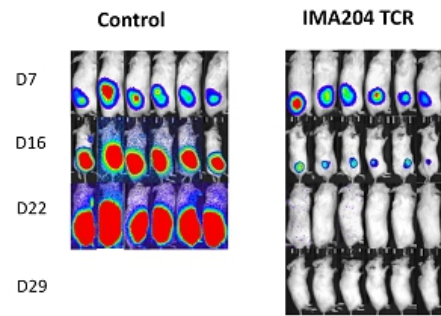
IMA204 provides a promising therapeutic opportunity for a broad patient population as monotherapy or in combination with TCR-T cells directed against tumor targets

# 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

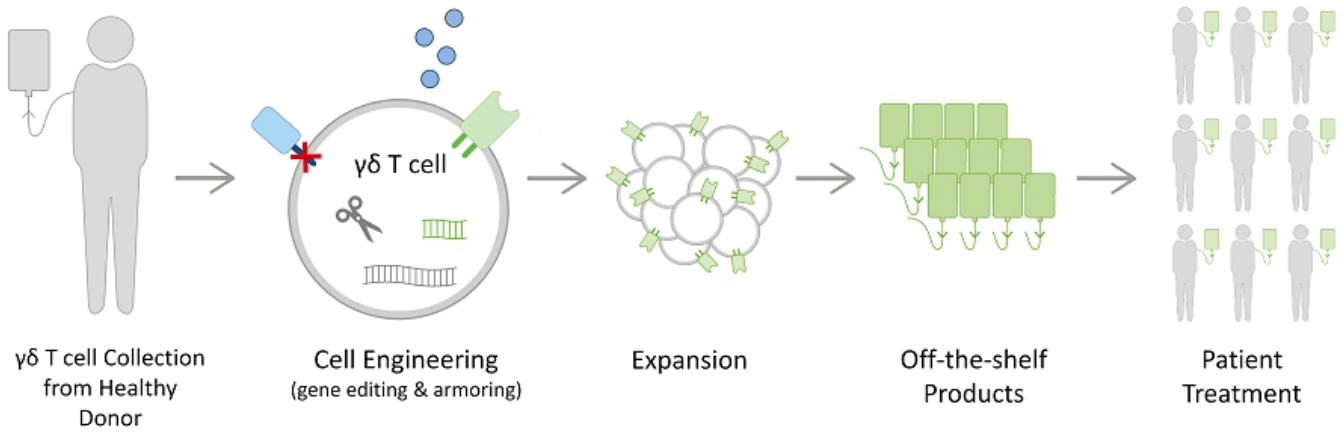
Affinity matured CD8-independent, next-generation TCR engages both CD4 and CD8 T cells without the need of CD8 co-transduction





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

## ACTallo® – Immatics' Allogeneic Cell Therapy Approach



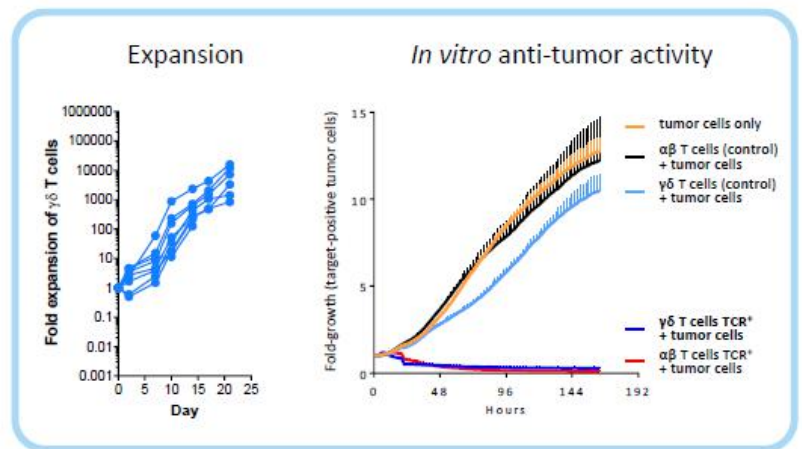
- **Off-the-shelf cell therapy**, no need for personalized manufacturing → reduced logistics and time to application
- **Potential for hundreds of doses** from one single donor leukapheresis → lower cost of goods
- **Use of healthy donor material** provides standardized quality and quantity of starting 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 γδ 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

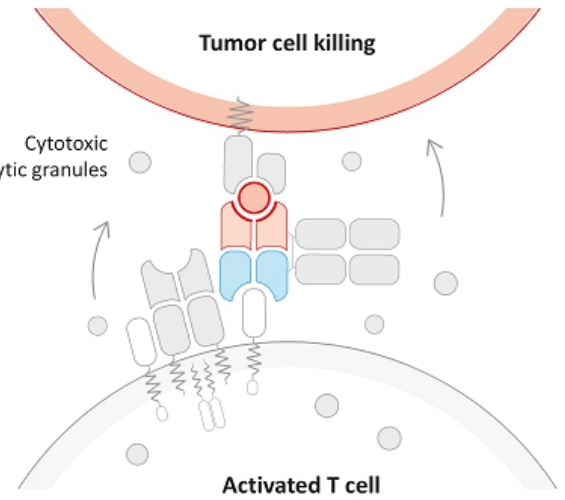
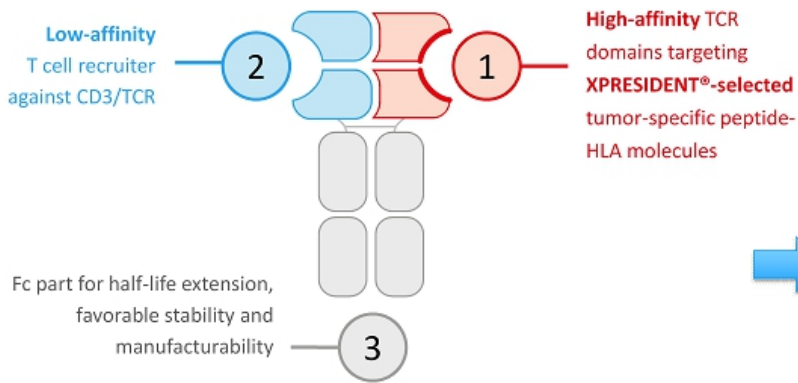




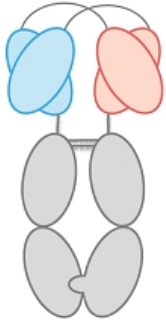
## TCER<sup>®</sup> – TCR Bispecifics

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

## Proprietary TCER® Format Consisting of Three Distinct Elements

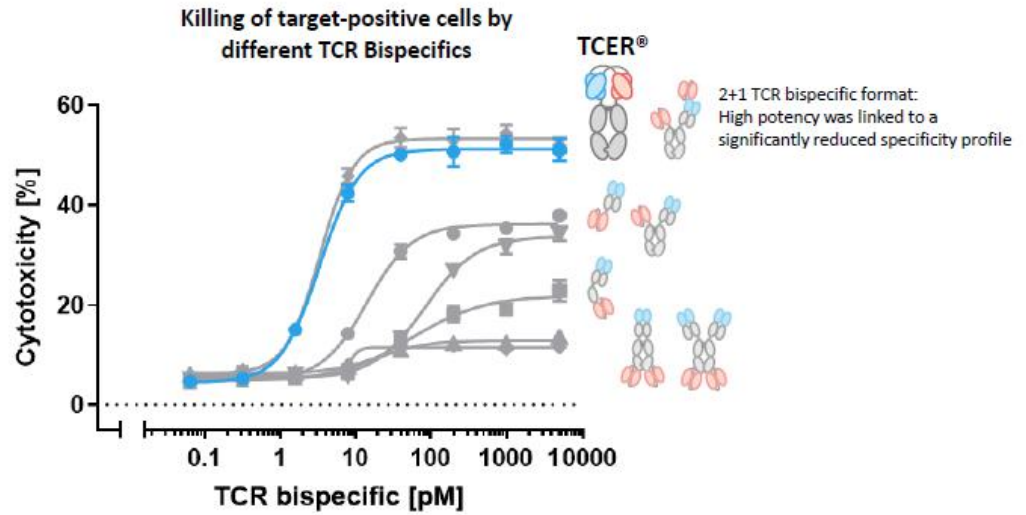


Next-gen, half-life extended TCER® format designed to  
→ safely apply high drug doses for activity in a broad range of tumors  
→ achieve optimized scheduling



- 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

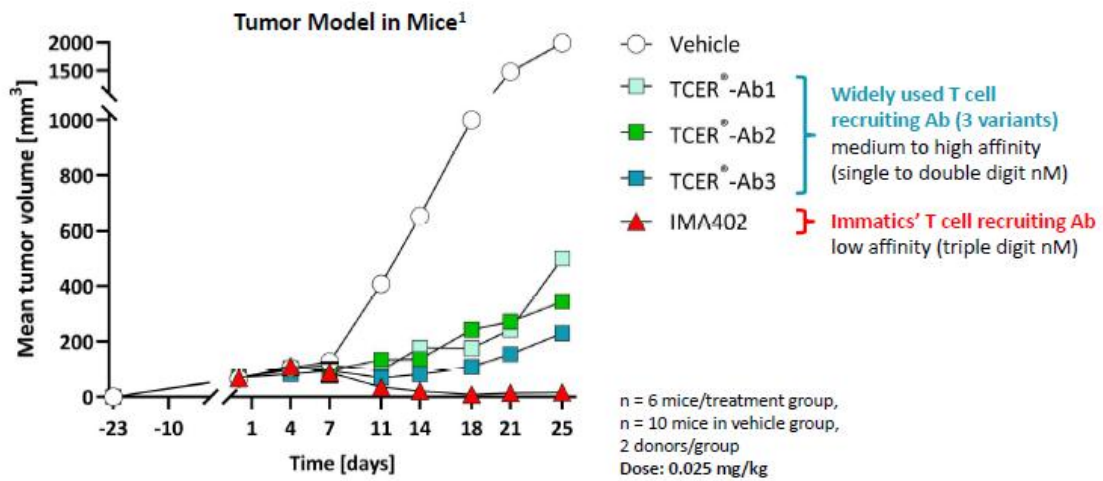
Our TCER® format is designed to maximize efficacy while minimizing toxicities in patients



- 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

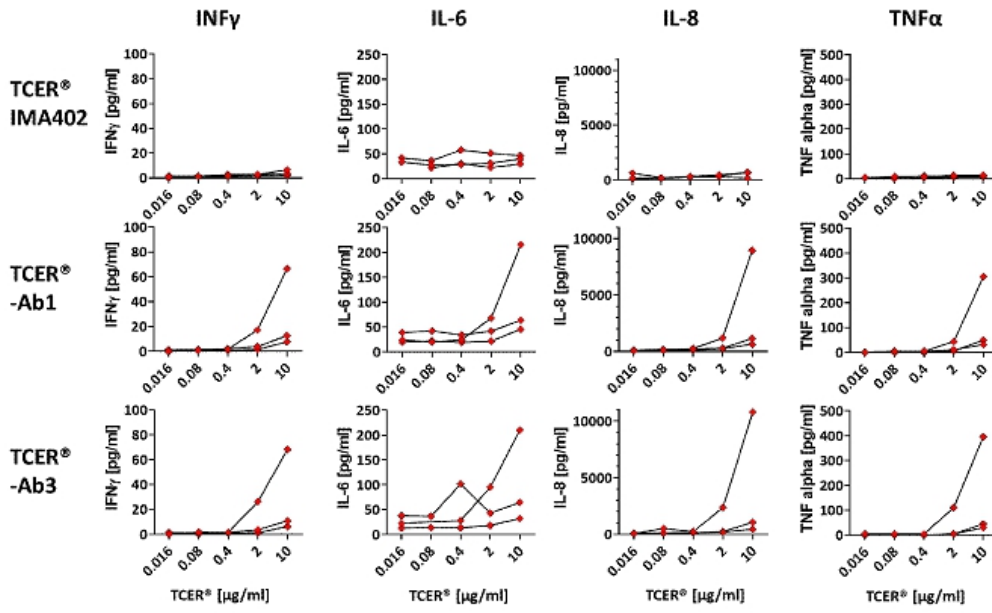


Proprietary, **low-affinity T cell recruiting region** demonstrates superior tumor control compared to analogous TCER<sup>®</sup> molecules designed with higher-affinity variants of a widely used recruiter



# TCER® Format Is Designed for Optimized Efficacy and Safety

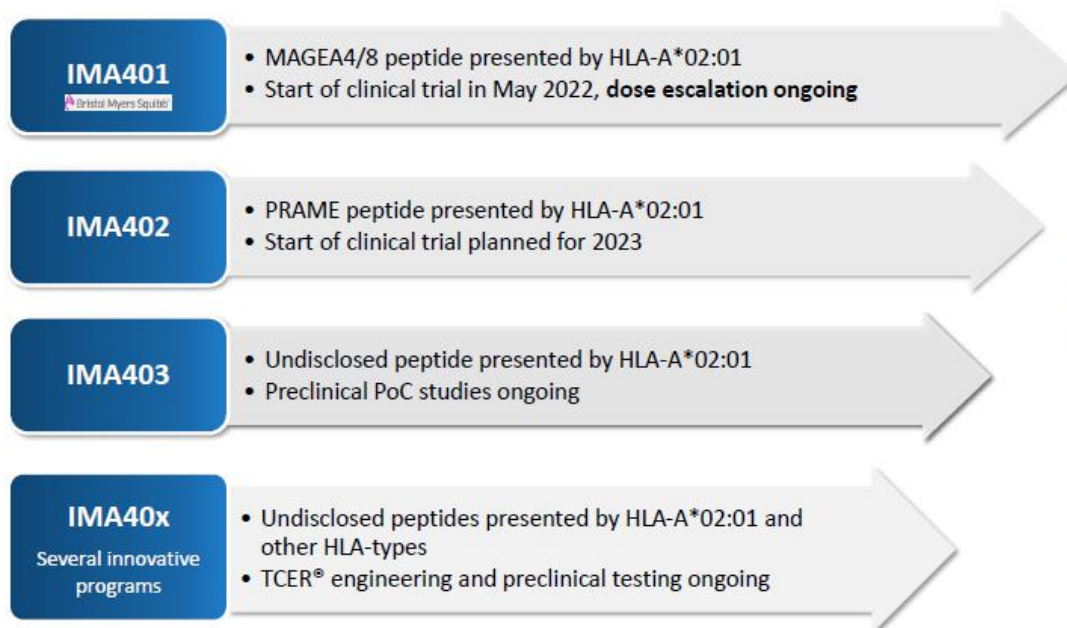
Reduced Target-Unrelated Recruiter-Mediated Cytokine Release using a Low-Affinity Recruiter



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

## Our TCER® Portfolio

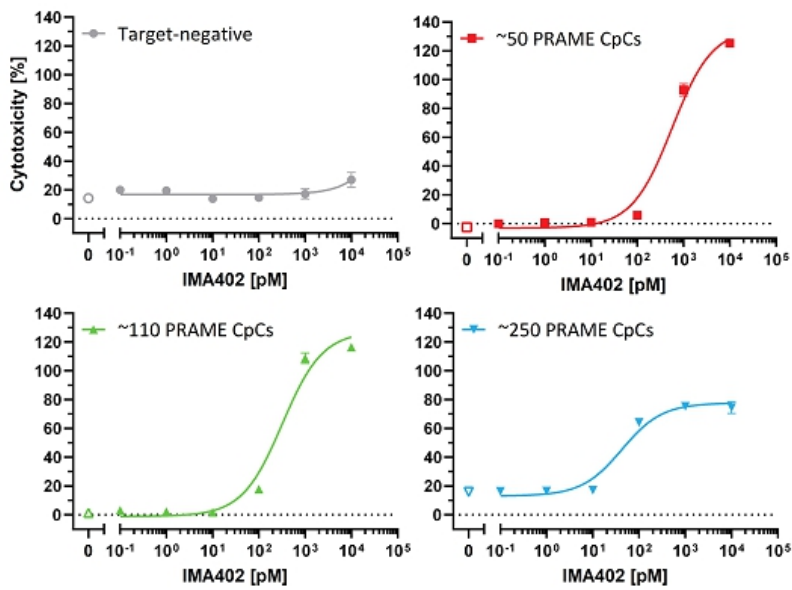
### Broad Pipeline of Next-Gen Half-Life Extended TCR Bispecifics



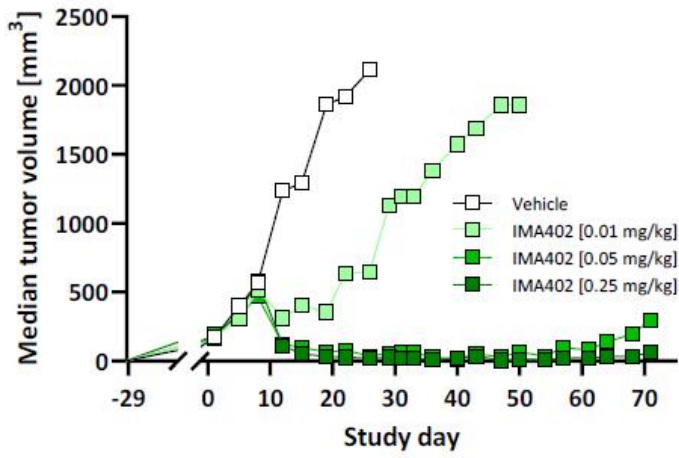
Potential for addressing different indications and large patient populations with novel, off-the-shelf TCR Bispecifics

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

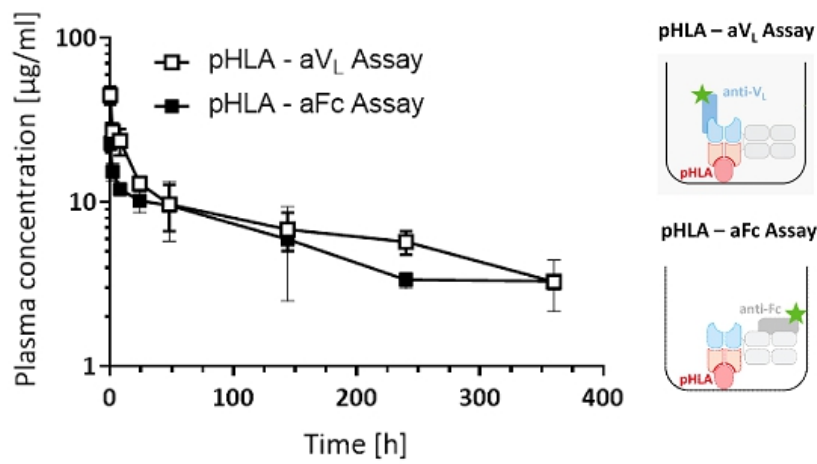
## Tumor Cell Killing at Low Physiological PRAME Peptide Levels



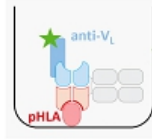
- TCER® IMA402 induces killing of tumor cells with PRAME target copies as low as 50 CpCs
- Physiological PRAME levels detected in majority of cancer tissues from patients are 100 – 1000 CpCs
- Preclinical activity profile enables targeting of a broad variety of tumor indications, such as lung cancer,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



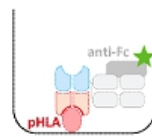
- Dose-dependent efficacy of IMA402 in cell line-derived *in vivo* mouse model
- Durable shrinkage of large tumors including complete responses over prolonged period
- Sufficiently high drug doses are key to achieving desired anti-tumor effect



pHLA – aV<sub>L</sub> Assay



pHLA – aFc Assay



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

# Advancing TCER® IMA402 Towards Clinical Development

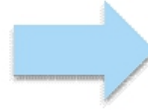
## Recent and Upcoming Activities

### Recent activities

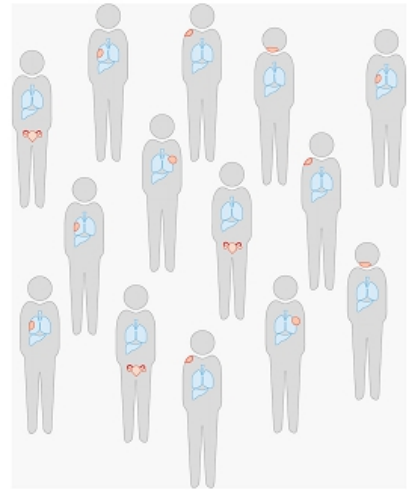
- ✓ Completion of IND-enabling data package
- ✓ Manufacturing of GMP batch completed with high titer (>3.5 g/L) and high yield
- ✓ Scientific advice with regulatory authorities

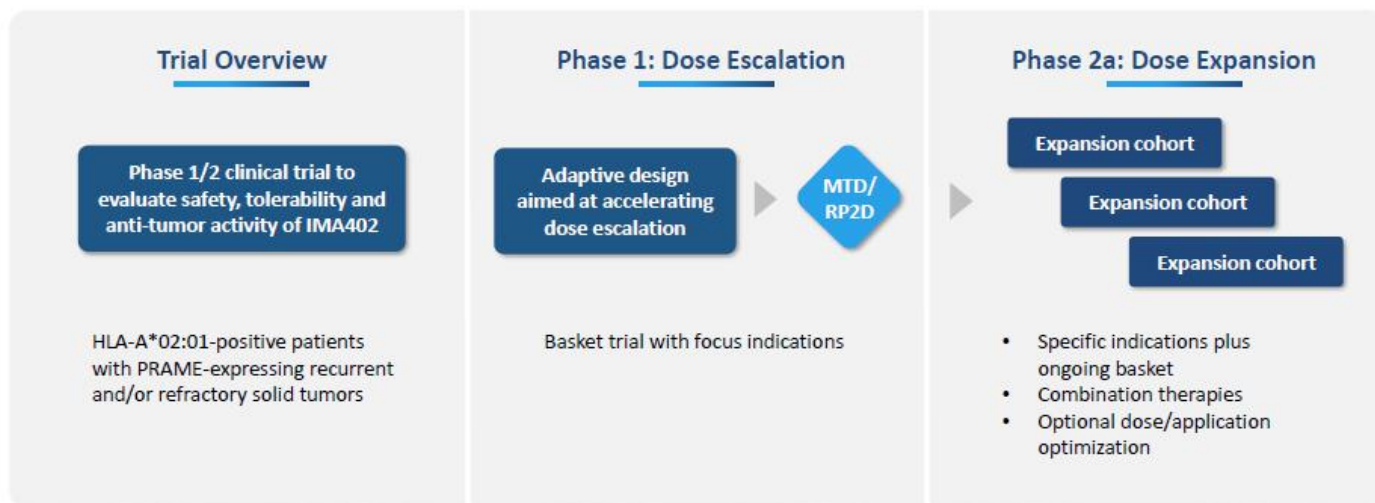
### Upcoming activities

- CTA<sup>1</sup> submission planned for 2Q 2023
- Start of patient treatment planned for 2H 2023



### IMA402 TCER® Ph1/2 clinical trial in patients with solid tumors





### 1 Optimized patient selection to leverage the broad PRAME potential

Assuring sufficient PRAME target expression using our IMADetect® qRT-PCR assay (mass spectrometry-guided RNA threshold)

- No pretesting for indications with very high PRAME prevalence, e.g. melanoma, uterine & ovarian cancer, synovial sarcoma
- Prospective target testing for indications with PRAME prevalence <80%, e.g. lung cancer, breast cancer, head and neck cancer

### 2 Flexible trial design for fast clinical execution

- Adaptive design with flexible dose cohorts, initially only 1-3 patients per dose level, optimized MABEL approach with elevated starting dose, short DLT period of 2 weeks
- Basket trial in focus indications for accelerated signal finding, multiple options for expansion cohorts
- Extension from phase 1/2 to pivotal possible

### 3 Targeting enhanced treatment convenience

- Initially weekly i.v. infusions, potential for early optimization of scheduling based on half-life extended TCER® format
- Exploring s.c. application

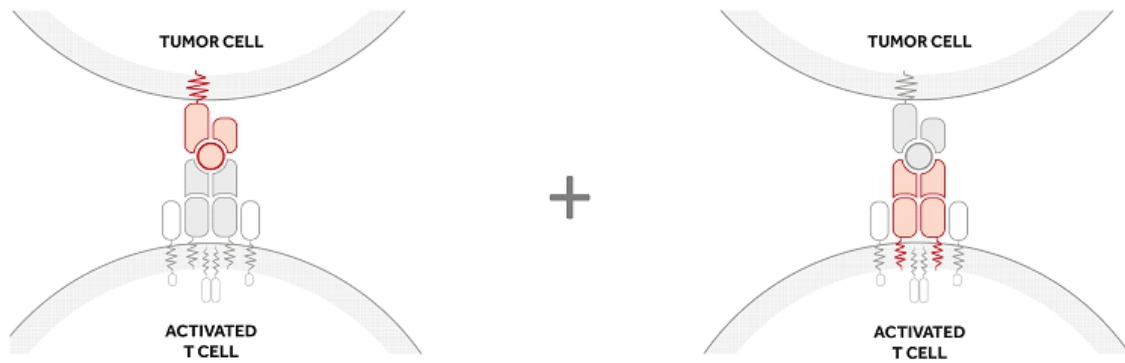




## Immatics' Proprietary Target and TCR Discovery Platforms

# True Cancer Targets & Matching Right TCRs

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

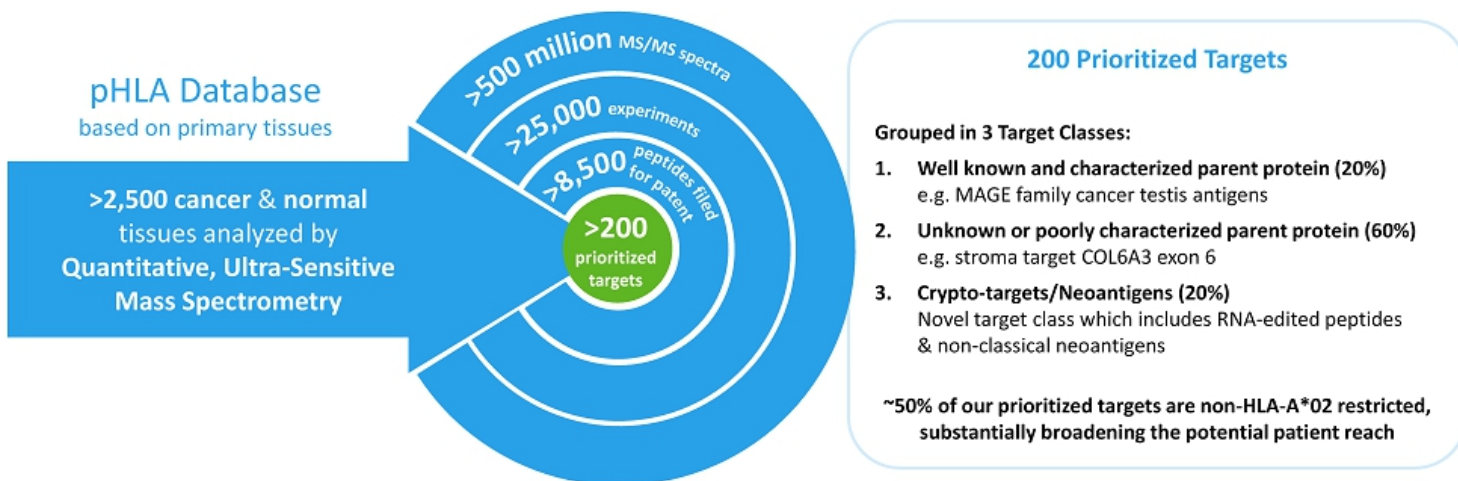


## True Targets via XPRESIDENT® technology platform

- 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

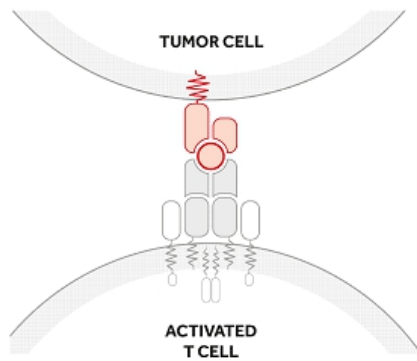
## Right TCRs via XCEPTOR® technology platform

- 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

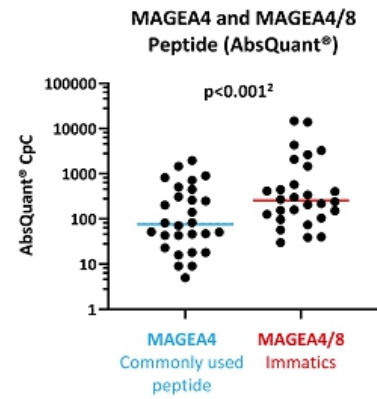


# Immatics' Unique Capability – Identification of the most Relevant Target

## Example of MAGEA4/8 Peptide Target



Ranking of pHLA targets

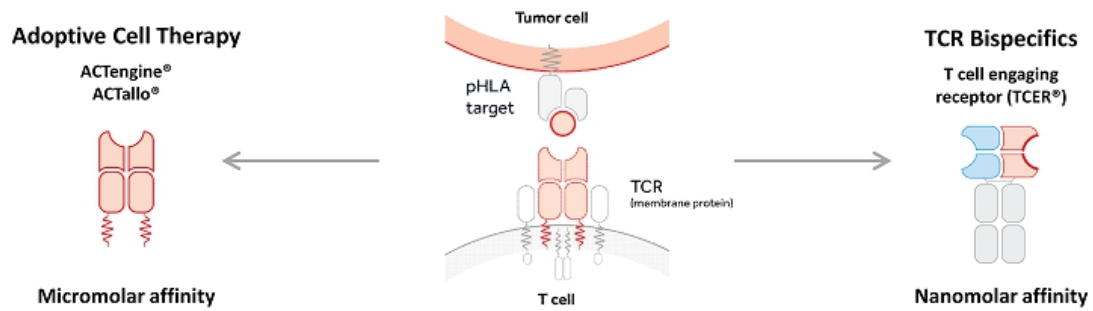


XPRESIDENT® quantitative information on target density<sup>1</sup> between peptides originating from the same source protein

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

# Development of the Right TCR – XCEPTOR® Technology

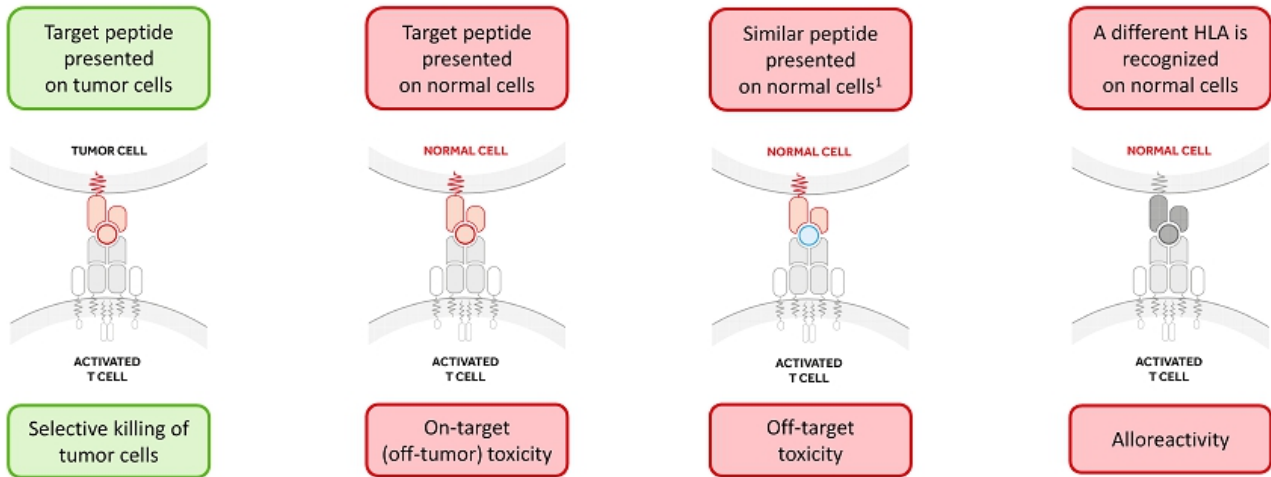
## TCR Discovery and Engineering for ACT and TCR Bispecifics



- 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>

# Optimal Target Selection & TCR Specificity for Minimizing Safety Risks

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



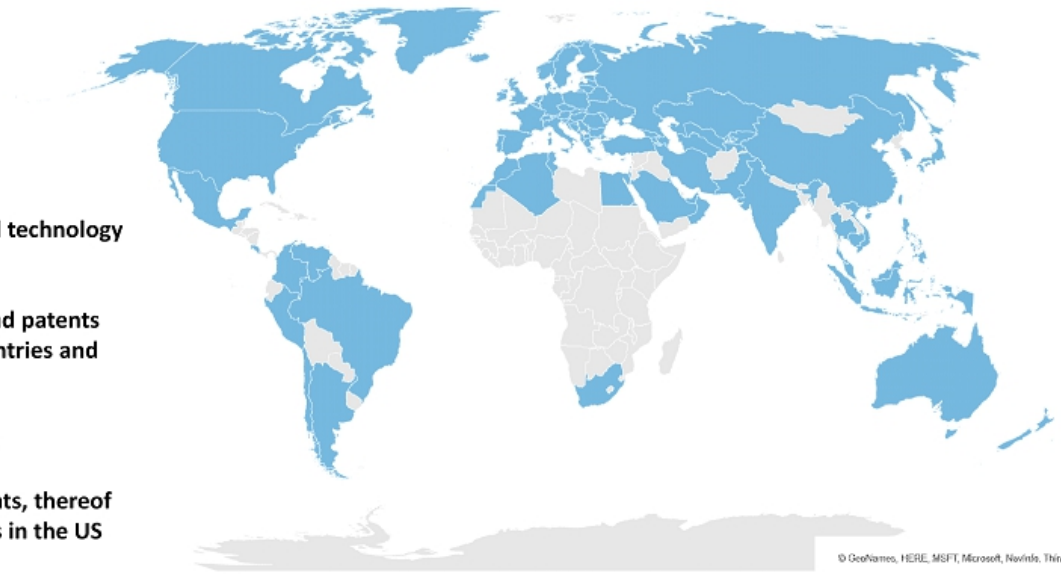
**XPRESIDENT<sup>®</sup>-guided screening** for on- and off-target toxicities of TCRs based on the extensive database of peptides presented on normal tissues

## Robust IP Portfolio

### Immatic's 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,  
ProbiDrug)



**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 Technology 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

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