
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 21, 2024

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

INFORMATION CONTAINED IN THIS REPORT ON FORM 6-K

On March 21, 2024, Immatics N.V. (the “Company”) issued a press release announcing its full year 2023 financial results and providing certain corporate updates. A copy of the press release is attached hereto as Exhibit 99.1. In addition, the Company made available an updated investor presentation. A copy of the presentation is attached hereto as Exhibit 99.2. The fact that the presentation is being made available and furnished herewith is not an admission as to the materiality of any information contained in the presentation. The information contained in the presentation is being provided as of March 21, 2024 and the Company does not undertake any obligation to update the presentation in the future or to update forward-looking statements to reflect subsequent actual results.

EXHIBIT INDEX

Exhibit No.	Description
99.1	Press release dated March 21, 2024
99.2	Corporate presentation dated March 2024

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.

IMMATICS N.V.

Date: March 21, 2024

By: /s/ Harpreet Singh

Name: Harpreet Singh

Title: Chief Executive Officer



Immatics Announces Full Year 2023 Financial Results and Corporate Update

- Interim clinical data update on ACTengine® IMA203 GEN1 (PRAME) in melanoma at RP2D in November 2023: 50% confirmed objective response rate with median duration of response not reached at median follow-up of 14.4 months; IMA203 was well tolerated
- Registration-enabling randomized Phase 2/3 trial for ACTengine® IMA203 GEN1 in 2L+ melanoma planned to begin in 2024
- Next data update on IMA203 GEN1 and IMA203CD8 GEN2 planned for 2H 2024
- First clinical data updates for Immatics' next-generation TCR Bispecifics, TCER® IMA401 (MAGEA4/8) and TCER® IMA402 (PRAME), from ongoing Phase 1 dose escalation trials planned for 2H 2024; updates to include details on safety, pharmacokinetics and initial anti-tumor activity
- In May 2023, Bristol Myers Squibb exercised first opt-in into the autologous cell therapy collaboration (\$15 million option fee received) and made a \$35 million equity investment in July 2023
- In September 2023, Immatics and Moderna announced a strategic multi-platform collaboration to develop innovative oncology therapeutics; Immatics received \$120 million upfront payment, and the total deal volume could exceed \$1.7 billion
- \$201.5 million public offering completed on January 22, 2024
- Cash and cash equivalents as well as other financial assets amount to \$470.6 million¹ (€425.9 million) as of December 31, 2023. Addition of proceeds from the public offering in January 2024 results in projected cash runway into 2027

Houston, Texas and Tuebingen, Germany, March 21, 2024 – [Immatics N.V.](#) (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, 2023.

“Immatics kicked off 2024 with a successful capital raise, providing significant financial runway and additional momentum to advance our ongoing clinical cell therapy and bispecific trials,” said Harpreet Singh, Ph.D., CEO and Co-Founder of Immatics. “We are striving to reach multiple relevant milestones this year, including announcing clinical proof-of-concept for our half-life

¹ All amounts translated using the exchange rate published by the European Central Bank in effect as of December 31, 2023 (1 EUR = 1.105 USD).

extended TCR Bispecifics platform. In parallel, the clinical data for our PRAME cell therapy, IMA203 GEN1, in conjunction with highly constructive FDA discussions, reinforces our confidence in advancing this asset toward a registration-enabling Phase 2/3 clinical trial in melanoma, while laying the groundwork to transition into a fully equipped commercial-stage company.”

Full Year 2023 and Subsequent Company Progress

ACTengine® IMA203 (PRAME)

Clinical development plan update for ACTengine® IMA203 GEN1 and IMA203CD8 GEN2 monotherapies

Following an [RMAT designation in October 2023](#) and productive interactions with the FDA, Immatics plans to initiate a registration-enabling randomized Phase 2/3 trial in 2024 for IMA203 GEN1 in patients with second-line or later (2L+) cutaneous melanoma, potentially including also uveal melanoma patients.

Immatics intends to assess IMA203 GEN1 targeting PRAME in HLA-A*02:01-positive cutaneous melanoma patients versus a control arm. This single trial will be designed to support accelerated approval based on an interim readout and full approval based on overall survival. The high prevalence of PRAME (≥95%) in cutaneous melanoma may enable the company to enroll patients without PRAME pre-testing. This would enhance trial operations and could remove the need to develop a companion diagnostic in this indication. The full trial design is currently being developed and is subject to further alignment with the FDA as part of the ongoing discussions. The Phase 2/3 trial is planned to start in 2024.

For IMA203CD8 GEN2, Immatics cleared dose level 4a (DL4a, up to $\sim 1.6 \times 10^9$ TCR-T cells) in December 2023, which is currently intended to be the target dose for further development. In addition to treating melanoma patients, Immatics has also started to expand its clinical footprint outside of melanoma to address a broader patient population with a particular focus on ovarian and uterine cancers.

A next data update for both Phase 1b cohorts with IMA203 GEN1 and IMA203CD8 GEN2 is planned for 2H 2024.

Manufacturing capabilities

Immatics' late-stage clinical cell therapy development is supported by its streamlined manufacturing timeline, capabilities and facility. IMA203 GEN1 and IMA203CD8 GEN2 cell therapy products are manufactured within 7 days followed by a 7-day QC release testing at a success rate of >95% to reach the target dose (IMA203 GEN1: RP2D; IMA203CD8: DL4a). The company has also recently completed construction of a ~100,000 square foot R&D and GMP manufacturing facility with a modular design for efficient and cost-effective scalability to serve early-stage and registration-enabling clinical trials, as well as potential initial commercial supply.

Interim clinical data update on ACTengine® IMA203 GEN1 and IMA203CD8 GEN2 monotherapies, as of November 2023

On November 8, 2023, Immatics provided an [interim clinical update](#) from the ongoing Phase 1 trial with ACTengine® IMA203 targeting PRAME in patients with recurrent and/or refractory solid cancers (data cut-off September 30, 2023). The update was focused on IMA203 GEN1 in melanoma patients at the recommended Phase 2 dose (RP2D, 1.0-10x10⁹ total TCR-T cells) and the first clinical data for IMA203CD8 GEN2.

Treatment with IMA203 GEN1 monotherapy (consisting of PRAME-specific functional CD8+ cells) in Phase 1a and Phase 1b Cohort A at RP2D demonstrated durable objective responses in melanoma patients with one patient exceeding 12 months and two patients exceeding 15 months post infusion and a 50% (6/12) confirmed objective response rate (cORR). Median duration of response (mDOR) was not reached (min 2.2+ months, max 14.7+ months) at a median follow-up (mFU) of 14.4 months. In line with previous results, IMA203 GEN1 monotherapy was well tolerated at total doses of up to 10x10⁹ TCR-T cells infused.

In addition, the first data on the company's second-generation product candidate IMA203CD8 (consisting of PRAME-specific functional CD8+ and CD4+ cells) demonstrated 56% (5/9) cORR with enhanced pharmacology compared to IMA203 GEN1. mDOR was not reached (min 2.0+ months, max 11.5+ months) at a mFU of 4.8 months. As of the reported cut-off date, IMA203CD8 GEN2 exhibited a manageable tolerability profile.

[TCR Bispecifics Programs](#)

Immatics' T cell engaging receptor (TCER®) candidates are next-generation, half-life extended TCR Bispecific molecules. They are designed to achieve a patient-convenient dosing schedule and to maximize efficacy while minimizing toxicities in patients through the proprietary format using a high-affinity TCR domain against the tumor target and a low-affinity T cell recruiter binding to the T cell.

Upcoming milestones for Immatics' clinical TCER® pipeline

Immatics seeks to deliver clinical proof-of-concept for its novel TCER® platform as quickly as possible and plans to provide first clinical data for IMA401 (MAGEA4/8) and IMA402 (PRAME) in 2H 2024.

Key objectives include:

- Demonstrating tolerability of the novel, next-generation, half-life extended TCR Bispecifics format;
- Optimizing dosing schedule to a less frequent regimen already during dose escalation, based on pharmacokinetics data;
- Demonstrating initial clinical anti-tumor activity (i.e., confirmed objective responses according to RECIST 1.1).
- **TCER® IMA401 (MAGEA4/8)** – The Phase 1 trial to evaluate safety, tolerability and initial anti-tumor activity of TCER® IMA401 in patients with recurrent and/or refractory solid tumors is ongoing. IMA401 targets an HLA-A*02:01-presented peptide that occurs identically in two different proteins, MAGEA4 and MAGEA8. This target peptide has been selected based on natural expression in native solid tumors at particularly high target density (peptide copy number per tumor cell identified by Immatics' proprietary quantitative mass spectrometry engine XPRESIDENT®). MAGEA4 and MAGEA8 are expressed in multiple solid cancers including lung cancer, head and neck cancer, melanoma, ovarian cancer, sarcoma and others. IMA401 is being developed in collaboration with Bristol Myers Squibb. First clinical data in at least 25 patients in dose escalation across multiple solid cancers is expected to be announced in 2H 2024.
- **TCER® IMA402 (PRAME)** – Immatics [initiated the Phase 1/2 trial](#) investigating the company's fully owned TCER® candidate IMA402 in patients with recurrent and/or refractory solid tumors in August 2023 and the first patients have been dosed. Initial focus indications are ovarian cancer, lung cancer, uterine cancer, and cutaneous and uveal melanoma, among others. IMA402 targets an HLA-A*02:01-presented peptide derived from the tumor antigen PRAME. This target peptide has been selected based on natural expression in native solid primary tumors and metastases at particularly high target density (peptide copy number per tumor cell identified by Immatics' proprietary quantitative mass spectrometry engine XPRESIDENT®). Immatics has recently engaged with a CDMO for the manufacturing of clinical IMA402 batches for its use within a potential registration-enabling trial. Patient recruitment and dose escalation continue to scale. First clinical data in at least 15 patients in dose

escalation across multiple solid cancers, but initially focused on melanoma, is anticipated to be announced in 2H 2024.

Corporate Development

- On January 22, 2024, Immatics completed an offering of 18,313,750 ordinary shares at a public offering price of \$11.00 per share. The gross proceeds from the offering, before deducting the underwriting discount and offering expenses, were approximately \$201.5 million.
- In January 2024, Immatics hired Jason Braun as Senior Vice President Commercial to support the company as it transitions into a fully equipped commercial-stage entity and targets the initiation of a registration-enabling Phase 2/3 trial for its PRAME TCR-T cell therapy. Jason Braun joins the company with more than 20 years of experience in the biotech and pharma industry, having worked with several biopharmaceutical companies including Amgen, Dendreon, Pharmacyclics (Abbvie), Kite (Gilead) and Nkarta, among others. During his career, he has established a successful track record in the commercialization of oncology drug candidates.
- On September 11, 2023, Immatics [announced](#) a strategic multi-platform collaboration with Moderna, combining Immatics' target and TCR platforms with Moderna's cutting-edge mRNA technology. The collaboration spans various therapeutic modalities including bispecifics, cell therapy and cancer vaccines. Under the terms of the agreement, Immatics received an upfront payment of \$120 million. In addition, Immatics will receive research funding and is eligible to receive development, regulatory and commercial milestone payments that could exceed \$1.7 billion.
- On July 24, 2023, Bristol Myers Squibb made a \$35 million equity investment in Immatics, purchasing 2,419,818 ordinary shares in a private placement transaction at a subscription price per share of \$14.46.
- In May 2023, Bristol Myers Squibb exercised its first option and entered into a [global license agreement](#) with Immatics for the most advanced TCR-T product candidate. As part of the agreement, Immatics received an option payment of \$15 million and is eligible for up to \$490 million in milestone payments in addition to tiered royalties on net sales of the product.

Full Year 2023 Financial Results

Cash Position: Cash and cash equivalents as well as other financial assets total €425.9 million (\$470.6 million¹) as of December 31, 2023, compared to €362.2 million (\$400.2 million¹) as of December 31, 2022. The increase is mainly due to upfront payments for collaborations, partly offset by our ongoing research and development activities. This does not include the net

proceeds received in January 2024 from the public offering. Adding these proceeds, the company currently projects a cash runway into 2027.

Revenue: Total revenue, consisting of revenue from collaboration agreements, was €54.0 million (\$59.7 million¹) for the year ended December 31, 2023, compared to €172.8 million (\$190.9 million¹) for the year ended December 31, 2022. The decrease is mainly the result of a one-time revenue for the license portion of the IMA401 collaboration with Bristol Myers Squibb for the year ended December 31, 2022.

Research and Development Expenses: R&D expenses were €118.7 million (\$131.2 million¹) for the year ended December 31, 2023, compared to €106.8 million (\$118.0 million¹) for the year ended December 31, 2022. The increase mainly resulted from costs associated with the advancement of the clinical pipeline of ACTengine® and TCER® candidates.

General and Administrative Expenses: G&A expenses were €38.2 million (\$42.2 million¹) for the year ended December 31, 2023, compared to €36.1 million (\$39.9 million¹) for the year ended December 31, 2022.

Net Profit and Loss: Net loss was €97.0 million (\$107.2 million¹) for the year ended December 31, 2023, compared to a net profit of €37.5 million (\$41.4 million¹) for the year ended December 31, 2022. The decrease of net profit 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 for the year ended December 31, 2022.

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.

Upcoming Investor Conferences

- Bank of America Health Care Conference, Las Vegas (NV) – May 14 - 16, 2024
- Jefferies Global Healthcare Conference, New York (NY) – June 5 - 7, 2024

To see the full list of events and presentations, visit 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 as a means of disclosing material non-public information. For regular updates you can also follow us on [X](#), [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 the Company's future financial or operating performance. For example, statements concerning timing of data read-outs for product candidates, the timing and outcome of clinical trials, the nature of clinical trials (including whether such clinical trials will be registration-enabling), the timing of IND or CTA filing for pre-clinical stage product candidates, estimated market opportunities of 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", "plan", "target", "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 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. The Company undertakes no duty to update these forward-looking statements. All the scientific and clinical data presented within this press release 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.

For more information, please contact:

Media

Trophic Communications
Phone: +49 171 3512733
immatics@trophic.eu

Immatics N.V.

Sabrina Schecher, Ph.D.
Senior Director, Investor Relations
Phone: +1 346 319-3325
InvestorRelations@immatics.com

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

	Year ended December 31,		
	2023	2022	2021
	(Euros in thousands, except per share data)		
Revenue from collaboration agreements	53,997	172,831	34,763
Research and development expenses	(118,663)	(106,779)	(87,574)
General and administrative expenses	(38,198)	(36,124)	(33,808)
Other income	1,139	26	325
Operating result	(101,725)	29,954	(86,294)
Change in fair value of liabilities for warrants	(2,079)	10,945	(10,990)
Other financial income	13,850	9,416	5,675
Other financial expenses	(7,040)	(8,279)	(1,726)
Financial result	4,731	12,082	(7,041)
Profit/(loss) before taxes	(96,994)	42,036	(93,335)
Taxes on income	—	(4,522)	—
Net profit/(loss)	(96,994)	37,514	(93,335)
Net profit/(loss) per share:			
Basic	(1.20)	0.56	(1.48)
Diluted	(1.20)	0.55	(1.48)

Immatics N.V. and subsidiaries
Condensed Consolidated Statement of Comprehensive Loss of Immatics N.V.

	Year ended December 31,		
	2023	2022	2021
	(Euros in thousands)		
Net profit/(loss)	(96,994)	37,514	(93,335)
Other comprehensive income/(loss)			
Items that may be reclassified subsequently to profit or loss			
Currency translation differences from foreign operations	(155)	2,464	3,514
Total comprehensive income/(loss) for the year	(97,149)	39,978	(89,821)

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

	As of	
	December 31, 2023	December 31, 2022
	(Euros in thousands)	
Assets		
Current assets		
Cash and cash equivalents	218,472	148,519
Other financial assets	207,423	213,686
Accounts receivables	4,093	1,111
Other current assets	19,382	13,838
Total current assets	449,370	377,154
Non-current assets		
Property, plant and equipment	43,747	13,456
Intangible assets	1,523	1,632
Right-of-use assets	13,308	13,033
Other non-current assets	2,017	2,545
Total non-current assets	60,595	30,666
Total assets	509,965	407,820
Liabilities and shareholders' equity		
Current liabilities		
Accounts payables	25,206	13,056
Deferred revenue	100,401	64,957
Liabilities for warrants	18,993	16,914
Lease liabilities	2,604	2,159
Other current liabilities	9,348	9,366
Total current liabilities	156,552	106,452
Non-current liabilities		
Deferred revenue	115,527	75,759
Lease liabilities	12,798	12,403
Other non-current liabilities	4	42
Total non-current liabilities	128,329	88,204
Shareholders' equity		
Share capital	847	767
Share premium	823,166	714,177
Accumulated deficit	(597,293)	(500,299)
Other reserves	(1,636)	(1,481)
Total shareholders' equity	225,084	213,164
Total liabilities and shareholders' equity	509,965	407,820

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

	Year ended December 31,		
	2023	2022	2021
	(Euros in thousands)		
Cash flows from operating activities			
Net profit/(loss)	(96,994)	37,514	(93,335)
Taxes on income	—	4,522	—
Profit/(loss) before tax	(96,994)	42,036	(93,335)
Adjustments for:			
Interest income	(13,845)	(2,476)	(133)
Depreciation and amortization	7,234	6,967	5,260
Interest expenses	831	1,038	566
Equity-settled share-based payment	20,705	22,570	26,403
Net foreign exchange differences and expected credit losses	6,861	2,953	(2,408)
Change in fair value of liabilities for warrants	2,079	(10,945)	10,990
(Gains)/losses from disposal of fixed assets	(150)	—	—
Changes in:			
(Increase)/decrease in accounts receivables	(2,982)	(429)	569
Decrease/(Increase) in other assets	(1,387)	(7,872)	(483)
Increase/(decrease) in deferred revenue, accounts payables and other liabilities	85,999	45,559	(31,784)
Interest received	10,167	1,649	175
Interest paid	(290)	(695)	(566)
Income tax paid	—	(224)	—
Net cash provided by/(used in) operating activities	18,228	100,131	(84,746)
Cash flows from investing activities			
Payments for property, plant and equipment	(30,799)	(5,738)	(5,106)
Payments for intangible assets	(158)	(477)	(551)
Proceeds from disposal of property, plant and equipment	150	52	—
Payments for investments classified in Other financial assets	(415,325)	(216,323)	(11,298)
Proceeds from maturity of investments classified in Other financial assets	414,744	12,695	24,448
Net cash (used in)/provided by investing activities	(31,388)	(209,791)	7,493
Cash flows from financing activities			
Proceeds from issuance of shares to equity holders	90,404	134,484	94
Transaction costs deducted from equity	(2,039)	(7,931)	—
Repayment of lease liabilities	(3,849)	(2,843)	(2,707)
Net cash provided by/(used in) financing activities	84,516	123,710	(2,613)
Net increase/(decrease) in cash and cash equivalents	71,356	14,050	(79,866)
Cash and cash equivalents at beginning of the year	148,519	132,994	207,530
Effects of exchange rate changes and expected credit losses on cash and cash equivalents	(1,403)	1,475	5,330
Cash and cash equivalents at end of the year	218,472	148,519	132,994

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 share-holders' equity
Balance as of January 1, 2021	629	538,695	(444,478)	(7,459)	87,387
Other comprehensive income	—	—	—	3,514	3,514
Net loss	—	—	(93,335)	—	(93,335)
Comprehensive loss for the year	—	—	(93,335)	3,514	(89,821)
Equity-settled share-based compensation	—	26,403	—	—	26,403
Share options exercised	—	94	—	—	94
Balance as of December 31, 2021	629	565,192	(537,813)	(3,945)	24,063
Balance as of January 1, 2022	629	565,192	(537,813)	(3,945)	24,063
Other comprehensive income	—	—	—	2,464	2,464
Net profit	—	—	37,514	—	37,514
Comprehensive income for the year	—	—	37,514	2,464	39,978
Equity-settled share-based compensation	—	22,570	—	—	22,570
Share options exercised	—	311	—	—	311
Issue of share capital – net of transaction costs	138	126,104	—	—	126,242
Balance as of December 31, 2022	767	714,177	(500,299)	(1,481)	213,164
Balance as of January 1, 2023	767	714,177	(500,299)	(1,481)	213,164
Other comprehensive loss	—	—	—	(155)	(155)
Net loss	—	—	(96,994)	—	(96,994)
Comprehensive loss for the year	—	—	(96,994)	(155)	(97,149)
Equity-settled share-based compensation	—	20,705	—	—	20,705
Share options exercised	—	139	—	—	139
Issue of share capital – net of transaction costs	80	88,145	—	—	88,225
Balance as of December 31, 2023	847	823,166	(597,293)	(1,636)	225,084



Immatics Corporate Presentation

March 21, 2024



Delivering the Power of T cells to Cancer Patients

© Immatics. Not for further reproduction or distribution.

Forward-Looking Statement



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 and outcome of clinical trials, the nature of clinical trials (including whether such clinical trials will be registration-enabling), the timing of IND or CTA filing for pre-clinical stage product candidates, estimated market opportunities of 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", "plan", "target", "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

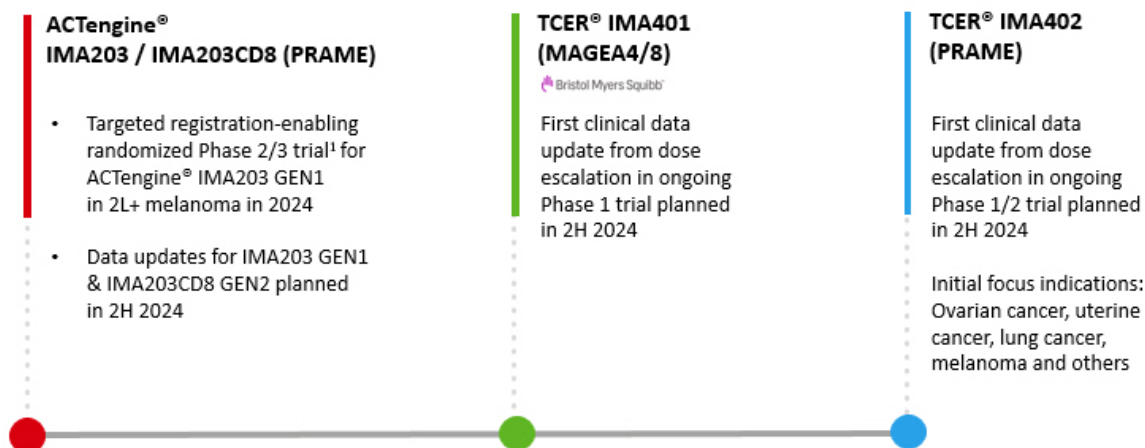


Therapeutic Opportunity

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

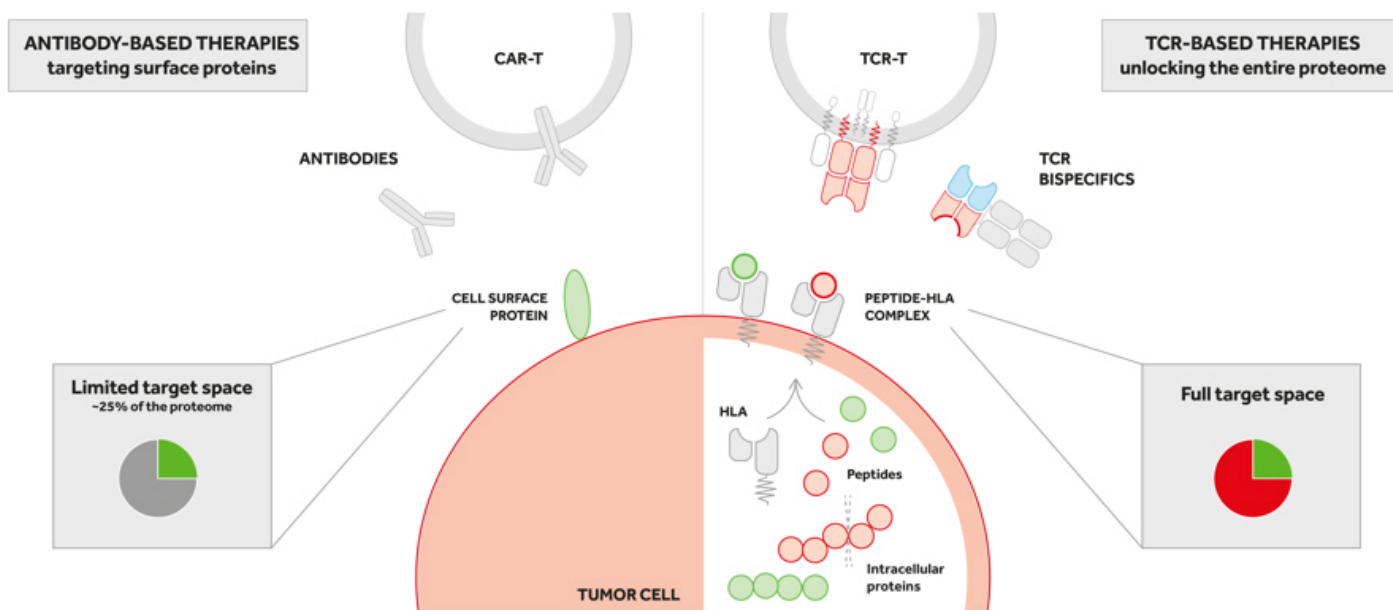
Upcoming 2024 Catalysts for ACTengine® and TCER® Clinical Lead Assets

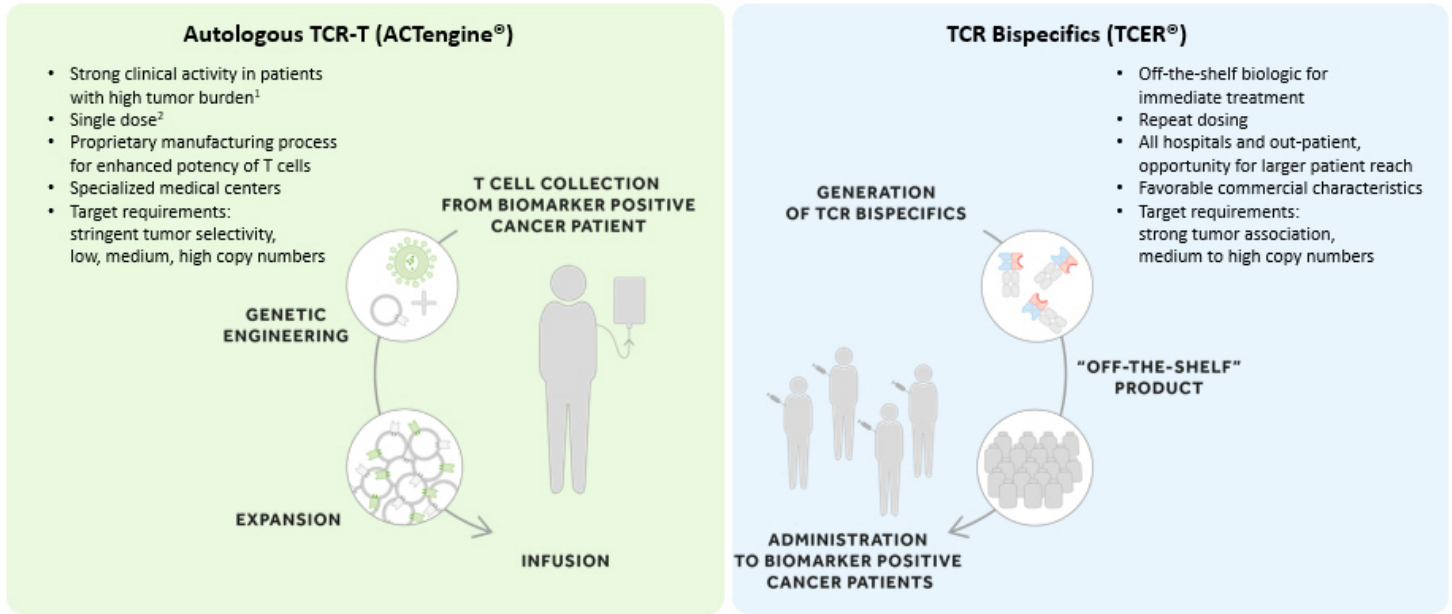
Projected Cash Runway into 2027 to Reach Multiple Value Inflection Points



Updates planned across the entire clinical portfolio throughout 2024

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



Modality	Product Candidate	Target		Preclinical	Phase 1a ¹	Phase 1b ¹	Phase 2	Phase 3
Autologous ACT	ACTEngine [®] IMA203	PRAME						
	ACTEngine [®] IMA203CD8	PRAME						
	ACTEngine [®] IMA204	COL6A3						
	Multiple programs	Undisclosed						
Allogeneic ACT γδ T cells	ACTallo [®] IMA30x	Undisclosed						
	Multiple programs	Undisclosed						
Bispecifics	TCER [®] IMA401	MAGEA4/8						
	TCER [®] IMA402	PRAME						
	TCER [®] IMA40x	Undisclosed						
	Multiple programs ³	Undisclosed						

IMA203 / IMA402 PRAME

Uterine Carcinoma – 97%
 Uterine Carcinosarcoma – 100%
 Sarcoma Subtypes – up to 100%
 Cut. Melanoma \geq 95%
 Uveal Melanoma¹ \geq 91%
 Ovarian Carcinoma – 84%
 Squamous NSCLC – 68%
 TNBC – 63%
 Small Cell Lung Cancer – 45%
 Kidney Carcinoma – up to 40%
 Cholangiocarcinoma – 33%
 HNSCC – 27%
 Esophageal Carcinoma – 27%
 Breast Carcinoma – 26%
 Adeno NSCLC – 25%
 HCC – 18%
 Bladder Carcinoma – 18%

IMA401 MAGEA4/8

Squamous NSCLC – 52%
 Sarcoma Subtypes – up to 60%
 HNSCC – 36%
 Bladder Carcinoma – 29%
 Uterine Carcinosarcoma – 29%
 Esophageal Carcinoma – 23%
 Ovarian Carcinoma – 23%
 Melanoma – 18%

IMA204 COL6A3 Exon 6

Pancreatic Carcinoma – 76%
 Breast Carcinoma – 77%
 Stomach Carcinoma – 67%
 Sarcoma – 63%
 Colorectal Carcinoma – 60%
 Esophageal Carcinoma – 60%
 Squamous NSCLC – 55%
 Adeno NSCLC – 57%
 HNSCC – 56%
 Uterine Carcinosarcoma – 50%
 Mesothelioma – 44%
 Cholangiocarcinoma – 36%
 Melanoma – 35%
 Bladder Carcinoma – 34%
 Ovarian Carcinoma – 31%

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

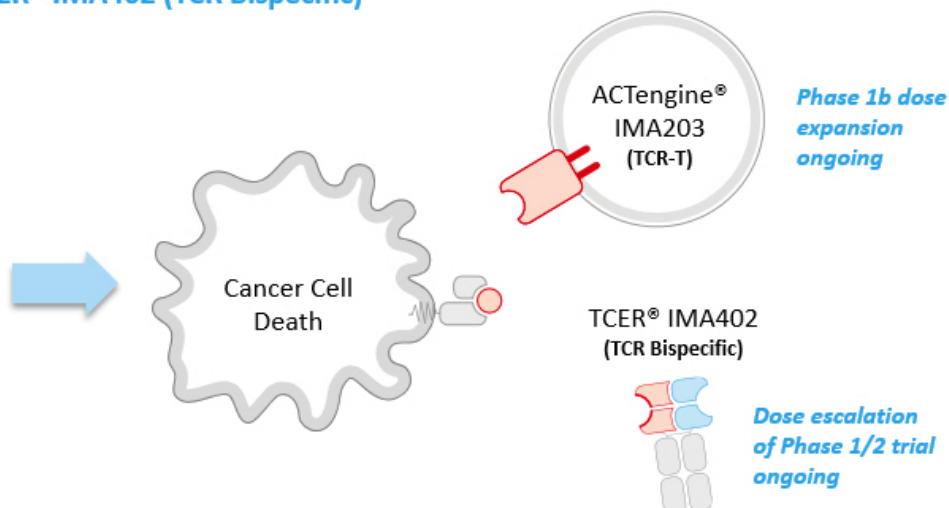
Intro

Target prevalence for selected solid cancer indications are based on TCGA (for SCLC: in-house) RNAseq data combined with a proprietary mass spec-guided RNA expression threshold;
¹ Uveal melanoma target prevalence is based on IMADetect® qPCR testing of screening biopsies from clinical trial patients (n=33)

Realizing the Full Multi-Cancer Opportunity of PRAME

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

Indication	% PRAME positive patients ¹
Uterine Carcinoma	97%
Uterine Carcinosarcoma	100%
Sarcoma Subtypes	up to 100%
Cut. Melanoma	≥95%
Uveal Melanoma ²	≥91%
Ovarian Carcinoma	84%
Squamous NSCLC	68%
TNBC	63%
Small Cell Lung Cancer	45%
Kidney Carcinoma	up to 40%
Cholangiocarcinoma	33%
HNSCC	27%
Esophageal Carcinoma	27%
Breast Carcinoma	26%
Adeno NSCLC	25%
HCC	18%
Bladder Carcinoma	18%



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

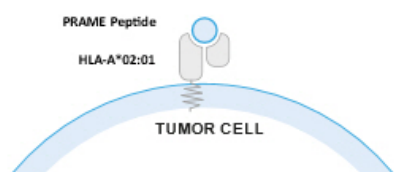
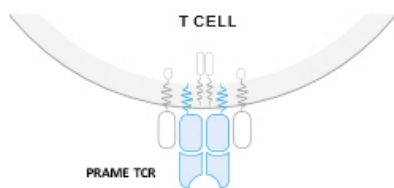
Leverage the full potential of targeting PRAME by continued evaluation of the best suited therapeutic modality (ACTEngine® vs. TCER® or both) for each cancer type



ACTengine® IMA203 – TCR-T Targeting PRAME

The Multi-Cancer Opportunity of PRAME

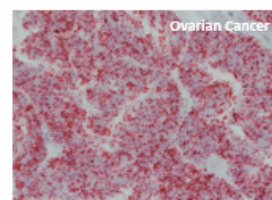
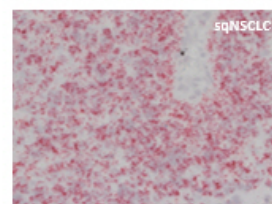
One of the Most Promising Solid Tumor Targets for TCR-based Therapies Known To Date



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

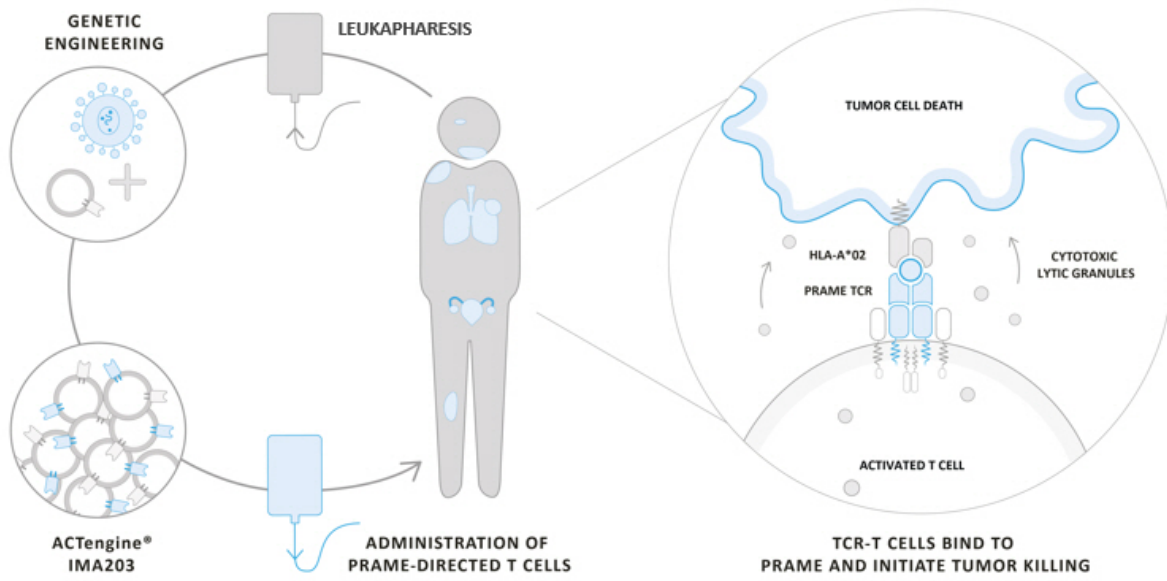
- ✓ High prevalence
- ✓ High target density
- ✓ Homogeneous expression
- ✓ “Clean” expression profile
- ✓ Clinical proof-of-concept

PRAME RNA detection in tumor samples (ISH)



ACTengine® IMA203 Targeting PRAME – Mechanism of Action

Immatic's Leading TCR-T Approach

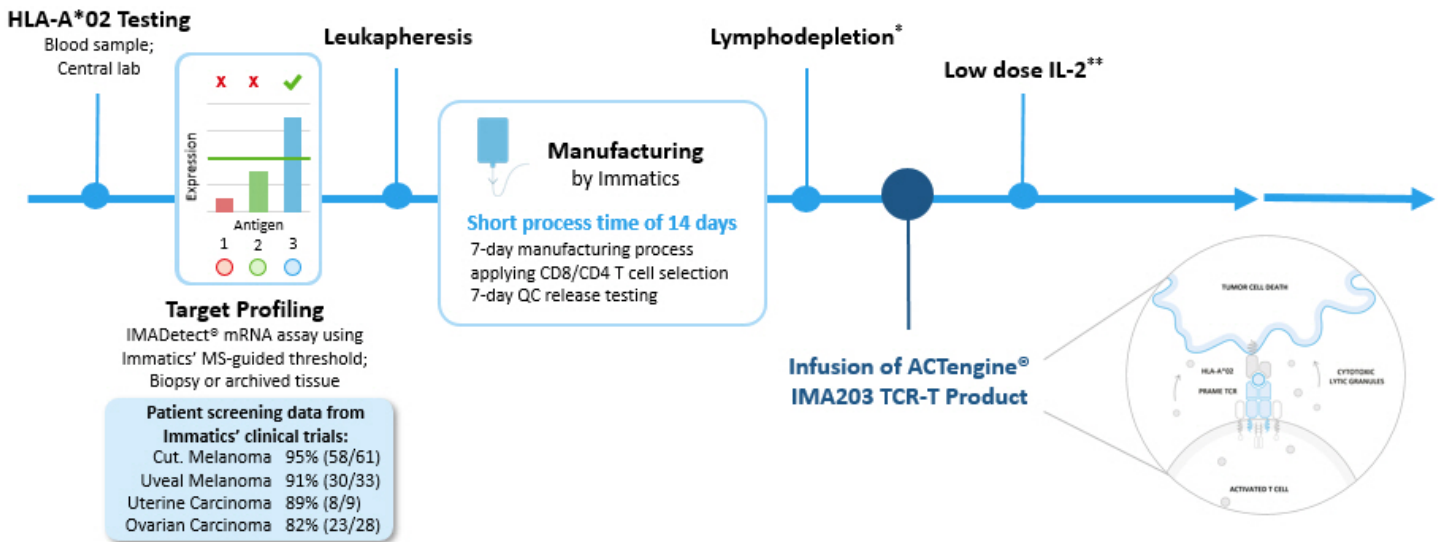


Screening & Manufacturing Phase

Treatment & Observation Phase

Long Term Follow-up

Safety and efficacy monitoring for 12 months



Patient Numbers*	ALL	Melanoma	Ovarian Cancer	Synovial Sarcoma	H&N Cancer	Others
Phase 1a RP2D	7	5	0	0	0	2
Cohort A RP2D	18	8	4	3	1	2

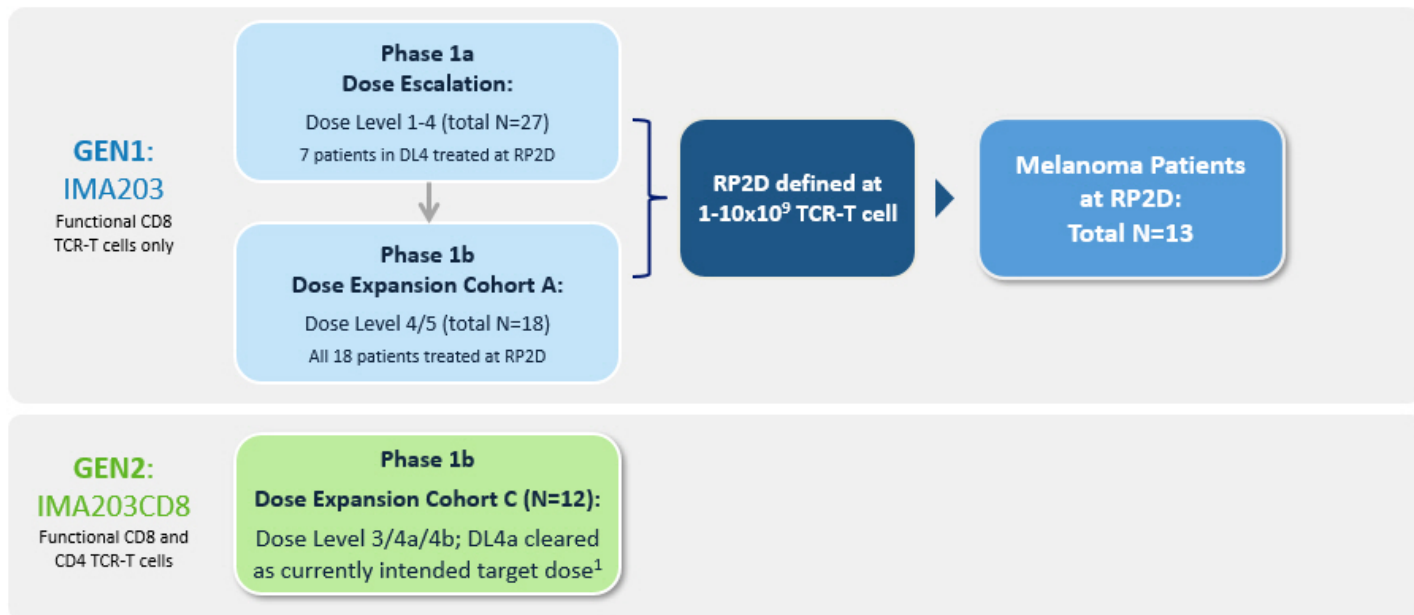
Patient characteristics	All comers Cohort A	Melanoma pts Ph1a & Cohort A at RP2D	Ovarian cancer pts Ph1a & Cohort A at RP2D
Efficacy population*	18	13	4
Prior lines of treatment Median (min, max)	3 (0, 10)	4 (0, 7)	4.5 (3, 10)
LDH at baseline >1 x ULN [% of patients]	50.0	53.9	100.0
Baseline tumor burden Target lesion sum of diameter [mm] (median, min, max)	58.9 (21.0, 207.3)	52.0 (21.0, 178.7)	108.8 (50.6, 207.3)

All 8 cut. melanoma patients were CPI-refractory and 5 of 8 were BRAF-inhibitor pretreated

All ovarian cancer patients were platinum-resistant

- Sub-group analysis per tumor type at target dose includes data from Phase 1a plus Cohort A at RP2D
- Melanoma patient number (N=13) and characteristics allow such sub-group analysis for initial assessment of anti-tumor activity
- For other tumor types, appropriate patient numbers and characteristics have not yet been achieved

Overview



Phase 1a and Cohort A data set in appendix

Overview of Patient Characteristics and Responses

Heavily Pretreated Patient Population across Clinical Trial Cohorts

	IMA203 GEN1			IMA203CD8 GEN2
	All Comers (N=45)		Melanoma Subgroup (N=13 of 45)	All Comers (N=12)
	Phase 1a	Cohort A	Phase 1a + Cohort A	Cohort C
Efficacy population*	N=27 Thereof N=7 at RP2D	N=18 at RP2D	N=13 at RP2D	N=12
Prior lines of systemic treatment (median, min, max)	4 (1, 8)	3 (0, 10)	4 (0, 7)	3 (1, 5)
LDH at baseline >1 x ULN [% of patients]	66.7	50.0	53.8	50.0
Baseline tumor burden Median target lesion sum of diameter [mm] (min, max)	133.0 (29, 219.7)	58.9 (21, 207.3)	52.0 (21.0, 178.7)	79.8 (20.0, 182.0)
Dose level	DL1-4	DL4/5	DL4/5	DL3/DL4a/DL4b
ORR	48% (13/27)	50% (9/18)	62% (8/13)	58% (7/12)
cORR	19% (5/27)	47% (8/17)	50% (6/12)	56% (5/9)
mDOR [months]	4.4 (2.4, 23.0)	Not reached	Not reached	Not reached
mFU [months]	Not defined [#]	10.8	14.4	4.8

IMA203 * Patients with at least one available tumor response assessment post infusion. † All patients were PD at data cut-off. Initial ORR: Objective response rate according to RECIST 1.1 at any post infusion scan; Confirmed ORR (cORR): Confirmed objective response rate according to RECIST 1.1 for patients with at least two available post infusion scans or patients with progressive disease (PD) at any prior timepoint; patients with ongoing unconfirmed PR not included in cORR calculation; Durations of response (DOR) in confirmed responders is defined as time from first documented response until disease progression/death. Patients with ongoing response will be censored at date of data cut-off. Median DOR is analyzed by using the Kaplan-Meier method. Median Follow-up is analyzed by using the reverse Kaplan-Meier method. DOR: Duration of Response; FU: Follow-up

Data cut-off Sep 30, 2023 16

IMA203 GEN1 Monotherapy

Phase 1a & Cohort A – Focus on Melanoma at RP2D

IMA203CD8 GEN2 Monotherapy

Cohort C – First Data Set on 2nd Generation

Summary & Next Development Steps

IMA203 GEN1 in All Melanoma Patients at RP2D – Most Frequent Adverse Events

N=16 Patients in Safety Population¹



- **Expected cytopenia (Grade 1-4)** associated with lymphodepletion in all patients
- **Mostly mild to moderate cytokine release syndrome (CRS)**
 - 63% (10/16) with Grade 1 CRS
 - 31% (5/16) with Grade 2 CRS
 - 6% (1/16) with Grade 3 CRS (Phase 1a patient; recovered to Grade 2 after 3 days, no need for vasopressors and/or ventilation)
 - No dose-dependent increase of CRS
- **One non-serious, mild (Grade 1) ICANS² in DL5**
- **No dose-limiting toxicity**
- **No IMA203-related deaths**
- full IMA203 GEN1 monotherapy safety profile (generally consistent with safety in melanoma subset), see next slide

**IMA203 GEN1 monotherapy continues to be well tolerated
at total doses between 1-10x10⁹ TCR-T cells (RP2D)**

IMA203 GEN1 across All Dose Levels – Tolerability Data

Phase 1a Dose Escalation and Cohort A – All ≥Grade 3 Adverse Events (N=49)

TEAEs by maximum severity for all patients in Phase 1a dose escalation and Cohort A dose expansion (N=49)¹

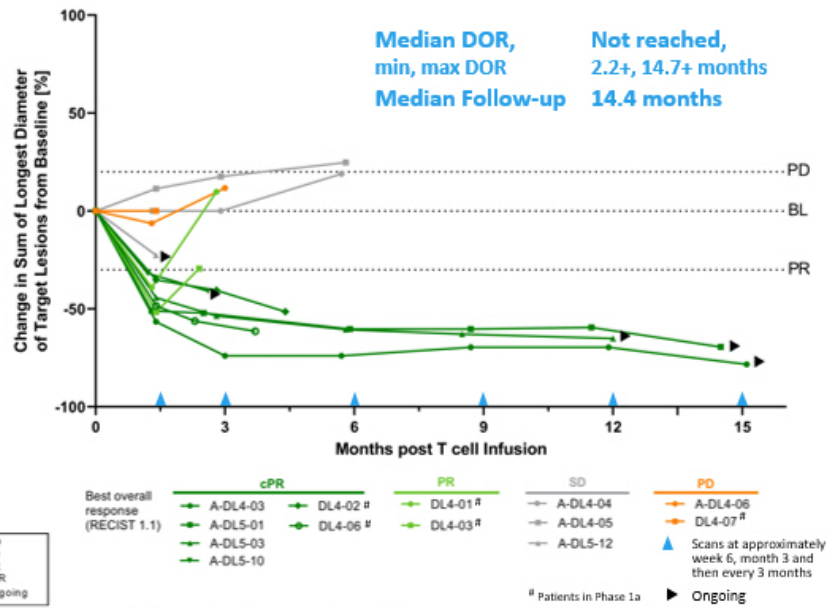
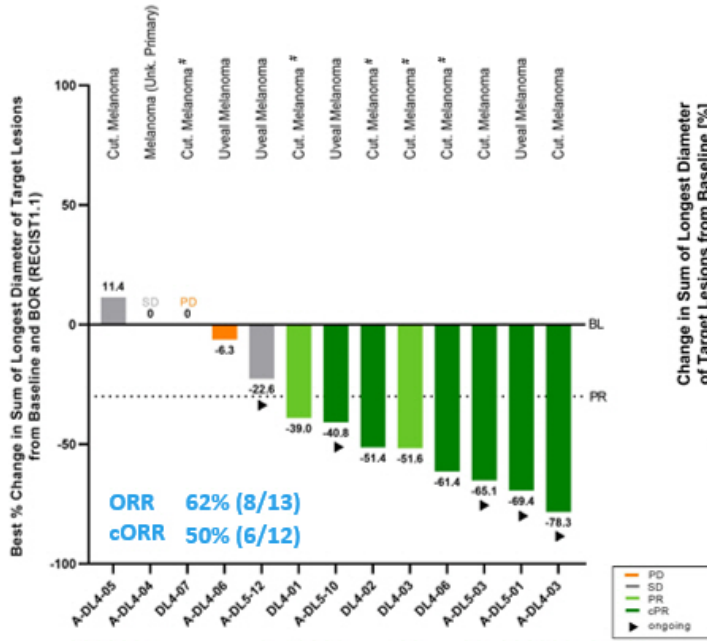
Adverse event (System organ class, Preferred term)	≥ Grade 3		Adverse event (System organ class, Preferred term)	≥ Grade 3	
	No.	%		No.	%
Patients with any adverse event	49	100.0	table continued...		
Adverse Events of Special Interest	2	4.1	General disorders and administration site conditions	4	8.2
Cytokine release syndrome	2	4.1	Condition aggravated ⁴	1	2.0
ICANS ⁵	0	0.0	Fatigue	1	2.0
Blood and lymphatic system disorders	48	98.0	Pyrexia	1	2.0
Neutropenia	36	73.5	Swelling face	1	2.0
Lymphopenia	27	55.1	Metabolism and nutrition disorders	4	8.2
Leukopenia	26	53.1	Hypokalaemia	3	6.1
Anaemia	24	49.0	Failure to thrive	1	2.0
Thrombocytopenia	17	34.7	Hypophosphataemia	1	2.0
Cytopenia	1	2.0	Gastrointestinal disorders	2	4.1
Leukocytosis	1	2.0	Abdominal pain	1	2.0
Lymphocytosis	1	2.0	Diarrhoea	1	2.0
Investigations	9	18.4	Vomiting	1	2.0
Neutrophil count decreased	4	8.2	Injury, poisoning and procedural complications	2	4.1
Alanine aminotransferase increased	2	4.1	Humerus fracture	1	2.0
Aspartate aminotransferase increased	2	4.1	Influsion related reaction	1	2.0
White blood cell count decreased	2	4.1	Renal and urinary disorders	2	4.1
Blood alkaline phosphatase increased	1	2.0	Acute kidney injury	1	2.0
Blood creatinine increased	1	2.0	Proteinuria	1	2.0
Blood fibrinogen decreased	1	2.0	Skin and subcutaneous tissue disorders	2	4.1
Infections and infestations	7	14.3	Rash maculo-papular	2	4.1
Appendicitis	1	2.0	Cardiac disorders	1	2.0
COVID-19	1	2.0	Atrial fibrillation ⁶	1	2.0
Enterococcal infection	1	2.0	Endocrine disorders	1	2.0
Infection	1	2.0	Inappropriate antidiuretic hormone secretion	1	2.0
Otitis	1	2.0	Eye disorders	1	2.0
Sepsis ^{1,2}	1	2.0	Ulcerative keratitis	1	2.0
Septic shock ⁴	1	2.0	Hepatobiliary disorders	1	2.0
Urinary tract infection	1	2.0	Cholangitis	1	2.0
Respiratory, thoracic and mediastinal disorders	6	12.2	Immune system disorders	1	2.0
Hypoxia	3	6.1	Contrast media allergy	1	2.0
Bronchial obstruction	1	2.0	Musculoskeletal and connective tissue disorders	1	2.0
Laryngeal inflammation	1	2.0	Muscle spasms	1	2.0
Pleural effusion	1	2.0	Nervous system disorders	1	2.0
Respiratory failure	1	2.0	Headache	1	2.0
Vascular disorders	6	12.2	Reproductive system and breast disorders	1	2.0
Hypertension	4	8.2	Vaginal haemorrhage	1	2.0
Hypotension	2	4.1			

- Well tolerated at doses as high as ~10x10⁹ TCR-T cells
- No AE ≥Grade 3 was observed with a frequency ≥10% when excluding expected cytopenia 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; listed for 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 (Neelapu et al., 2018). Patients are counted only once per adverse event and severity classification. Based on interim data extracted from open clinical database [30-Sep-2023]: ¹ 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; ² ICANS: Immune effector cell-associated neurotoxicity syndrome; ³ DLT: Dose limiting toxicity in phase 1a at DL1 reported on March 17, 2023; ⁴ Fatal Adverse events were not considered related to any study drug; ⁵ Patient died from sepsis of unknown origin and did not receive IMA203 TCR-T cells.

IMA203 GEN1 in All Melanoma Patients at RP2D (N=13) – BOR and Response over Time

Durable Responses 15+ Months after Treatment



IMA203

Initial ORR: Objective response rate according to RECIST 1.1 at any post infusion scan; Confirmed ORR (cORR): Confirmed objective response rate according to RECIST 1.1 for patients with at least two available post infusion scans or patients with progressive disease (PD) at any prior timepoint; patients with ongoing unconfirmed PR not included in cORR calculation; Duration of response (DOR) in confirmed responders is defined as time from first documented response until disease progression/death. Patients with ongoing response will be censored at date of data cut-off. Median DOR is analyzed by using the Kaplan-Meier method; 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; BOR: Best Overall Response; DOR: Duration of Response

Data cut-off Sep 30, 2023 20

IMA203 GEN1 in Melanoma Targeted to Enter Registration-Enabling Randomized Phase 2/3 Trial in 2L+ Melanoma in 2024

Clinically and Commercially Attractive Features of IMA203

≥95% of cutaneous melanoma patients are PRAME-positive
Well tolerated Mostly mild to moderate CRS, infrequent & mild ICANS
Promising anti-tumor activity (cORR, mDOR)
Leukapheresis as source for cell product, no surgery required
Short manufacturing time of 7 days plus 7 days of QC release testing
Low dose IL-2 post IMA203 infusion with better tolerability profile than high dose IL-2

High Medical Need in Cutaneous and Uveal Melanoma

	Cutaneous Melanoma	Uveal Melanoma
Patient Population	2L+ CPI-refractory, BRAF/MEK inhibitor-refractory if BRAF mutation+	2L+ Kimmtrak-refractory, CPI/chemotherapy-refractory
IMA203 Opportunity	~3,000 HLA-A*02:01 and PRAME-positive cutaneous melanoma patients annually in the US ¹	~300 HLA-A*02:01 and PRAME-positive uveal melanoma patients annually in the US ²

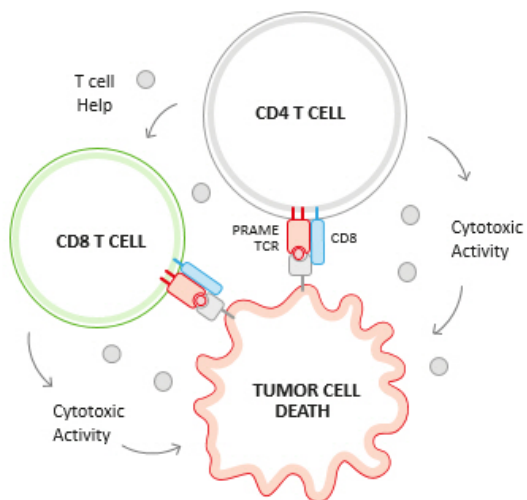
IMA203 GEN1 Monotherapy

Phase 1a & Cohort A – Focus on Melanoma at RP2D

IMA203CD8 GEN2 Monotherapy

Cohort C – First Data Set on 2nd Generation

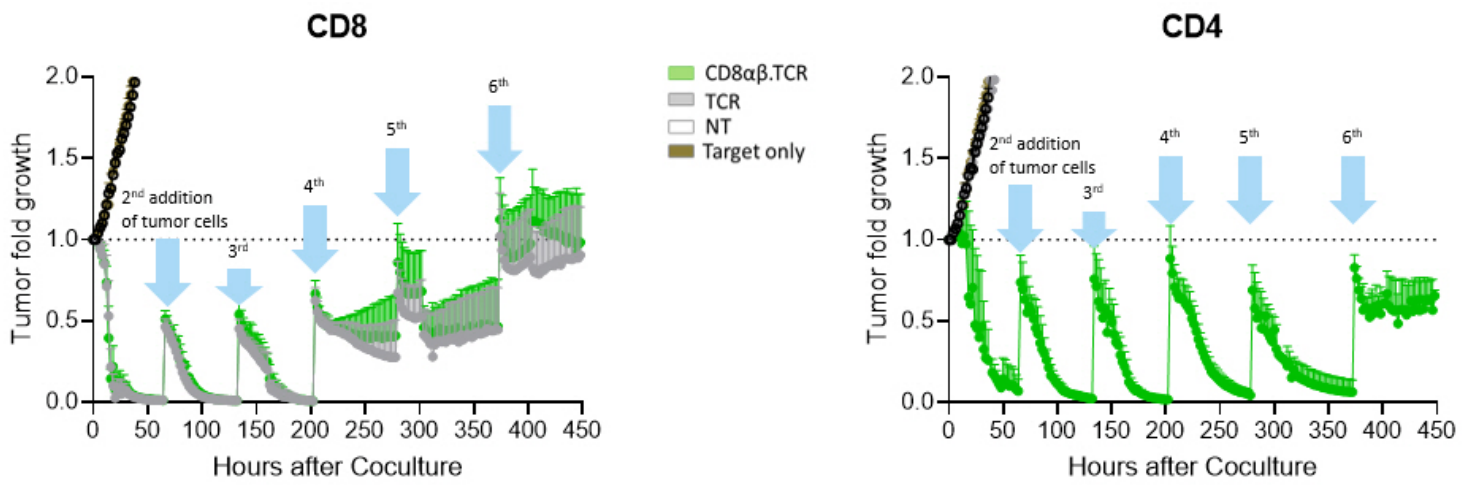
Summary & Next Development Steps



- IMA203CD8 GEN2 designed to broaden the clinical potential of IMA203 TCR-T monotherapy by adding functional CD4 T cells via co-transduction of CD8 $\alpha\beta$ alongside PRAME TCR
- Activated CD4 T cells aid activity of other immune cells by releasing cytokines and acquire cytotoxic functions
- Functional CD4 T cells mediate longer anti-tumor activity than CD8 T cells and potentiate the anti-tumor activity of the cell product in preclinical studies¹
- Data from CD19 CAR-T-treated leukaemia patients suggest a relevant role of engineered CD4 T cells in long-term durability²

IMA203CD8 GEN2 – Preclinical Assessment of Anti-Tumor Efficacy

Functional CD4 T cells Mediate Longer Anti-Tumor Activity than CD8 T cells *in vitro*



IMA203CD8 GEN2 in Cohort C (N=12) – Most Frequent Adverse Events

Manageable Tolerability in 12 Patients Treated with IMA203CD8 at 3 Escalating Dose Levels¹

- **Expected cytopenia (Grade 1-4)** associated with lymphodepletion in all patients
- Cytokine release syndrome (CRS) in 92% (11/12) of patients:
Trend towards **more severe CRS at higher doses, in all cases well manageable**
 - 67% (8/12) with Grade 1 or 2 CRS (4 in DL3, 3 in DL4a, 1 in DL4b)
 - 17% (2/12) with Grade 3 CRS (2 in DL4b; patient C-DL4b-04, see also description below)
 - 8% (1/12) with Grade 4 CRS (1 in DL4b, patient C-DL4b-01, see also description below)
- **One patient with neurotoxicity (see below), no ICANS² or neurotoxicity reported for the other patients**
- **Dose-limiting toxicities (DLTs) at Dose Level 4b** were observed in 2 of 4 patients
 - 1) In patient C-DL4b-01 treated with highest possible dose at DL4b, high biological activity (*in vivo* T cell expansion) observed; patient developed Grade 4 neurotoxicity and Grade 4 CRS on day 6 after infusion, combined with Grade 3 Hemophagocytic Lymphohistiocytosis (HLH)
 - 2) Patient C-DL4b-04 treated at DL4b developed Grade 3 CRS with transient Grade 3 liver enzyme (ALT) increase that resolved to Grade 2 within 10 days; no need for vasopressors or ventilation at any time
- **No high-grade CRS, no neurotoxicity and no DLTs were reported for 4 patients treated at DL3 and 4 patients treated at DL4a**
- **No IMA203CD8-related deaths³**
- **Expanded DL4a dose cohort ongoing**

IMA203CD8 GEN2 monotherapy shows a manageable tolerability profile

Tolerability Data – Cohort C IMA203CD8 GEN2

All ≥Grade 3 Adverse Events (N=12)

TEAEs by maximum severity for all patients in Cohort C (N=12)

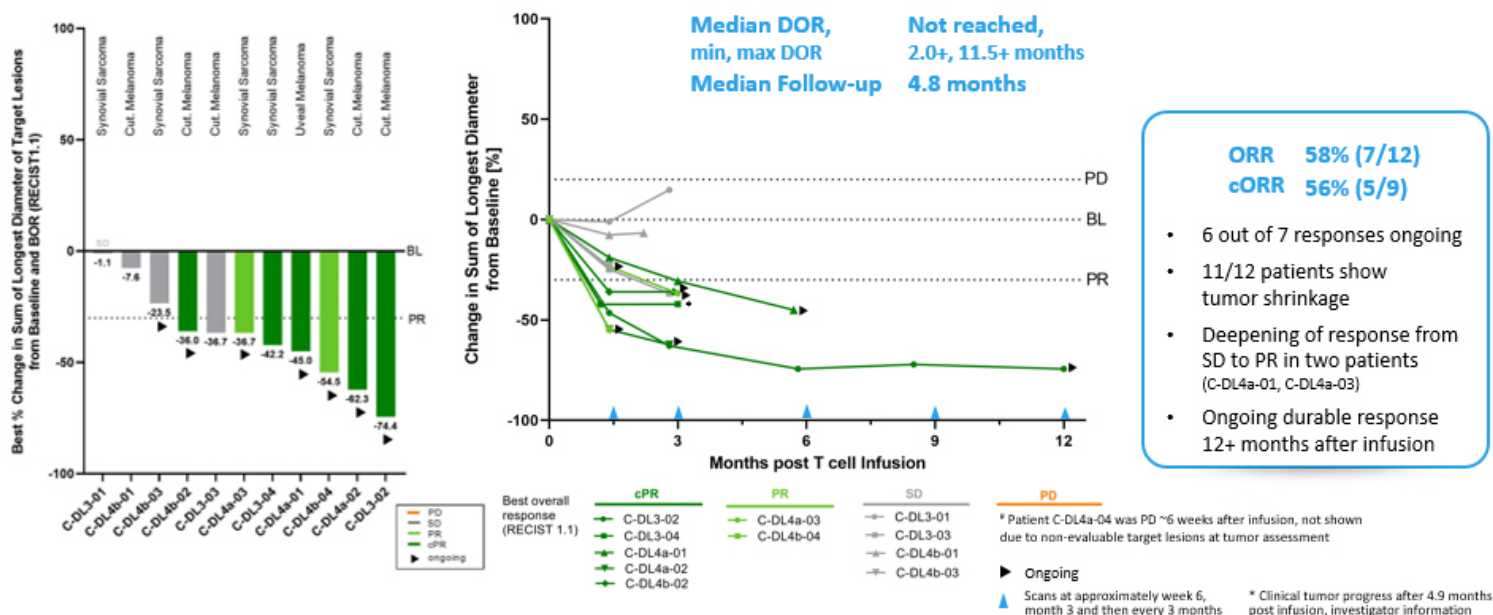
Adverse event (System organ class, preferred term)	≥ Grade 3	
	No.	%
Patients with any adverse event	12	100.0
Adverse events of special interest	3	25.0
Cytokine release syndrome ¹	3	25.0
Immune effector cell-associated neurotoxicity syndrome	0	0.0
Blood and lymphatic system disorders	11	91.7
Neutropenia	9	75.0
Anaemia	8	66.7
Lymphopenia	8	66.7
Thrombocytopenia	4	33.3
Leukopenia	2	16.7
Investigations	4	33.3
Aspartate aminotransferase increased	2	16.7
Neutrophil count decreased	2	16.7
Alanine aminotransferase increased	1	8.3
Blood alkaline phosphatase increased	1	8.3
Blood bilirubin increased	1	8.3
Gamma-glutamyltransferase increased	1	8.3
Metabolism and nutrition disorders	2	16.7
Hypermagnesaemia	1	8.3
Hypoalbuminaemia	1	8.3
Hypophosphataemia	1	8.3
Nervous system disorders	2	16.7
Neurotoxicity ²	1	8.3
Syncope	1	8.3
Immune system disorders	1	8.3
Haemophagocytic lymphohistiocytosis ²	1	8.3
Infections and infestations	1	8.3
Infection	1	8.3

- Manageable tolerability
- Most frequent ≥Grade 3 AEs were expected cytopenia associated with lymphodepletion
- No IMA203CD8-related Grade 5 Adverse Events¹
- Dose escalation ongoing

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 no event was documented), listed for 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 (Neelapu et al., 2018). Patients are counted only once per adverse event and severity classification. Based on interim data extracted from open clinical database (30-Sep-2023);¹ DLT: Dose limiting toxicity in patient DL4b-04. ² DLTs in patient DL4b-01;

IMA203CD8 GEN2 in Cohort C (N=12#) – BOR and Response over Time

Deepening of Response from SD to PR in 2 Patients, 6 Responses Ongoing



IMA203CD8 GEN2: Translational Data Shows Enhanced Pharmacology

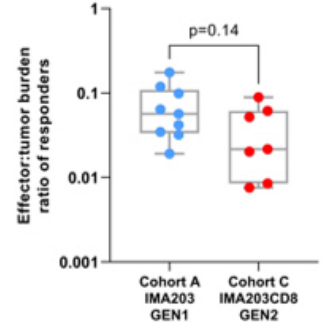
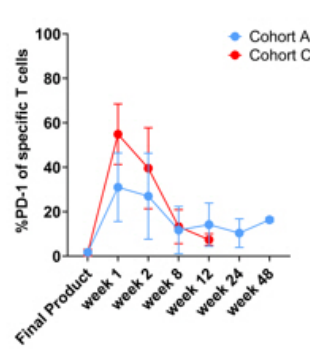
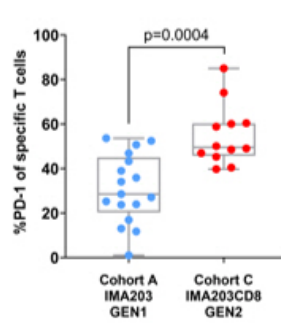
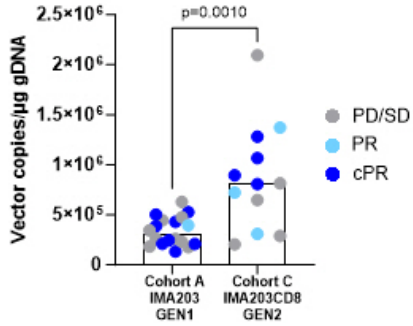
Cohort A IMA203 GEN1 (All Patients at RP2D) vs Cohort C IMA203CD8 GEN2

Higher peak expansion (C_{max}) of IMA203CD8 T cells when normalized to infused dose

Higher activation levels in IMA203CD8 T cells at week 1...

...without exhaustion over time

Trend towards responses at lower cell dose and higher tumor burden with IMA203CD8



Initial translational data indicates higher biological and clinical activity of IMA203CD8 GEN2

ACTengine® IMA203 TCR-T Interim Update

Delivering a Meaningful Benefit to Patients with an Unmet Medical Need

IMA203 GEN1 Monotherapy

Phase 1a & Cohort A – Focus on Melanoma at RP2D

IMA203CD8 GEN2 Monotherapy

Cohort C – First Data Set on 2nd Generation

Summary & Next Development Steps

Summary of GEN1 and GEN2 Clinical Data and Planned Next Steps

IMA203 GEN1 Monotherapy in Melanoma at RP2D

- Well tolerated, mostly mild to moderate CRS, infrequent & mild ICANS
- 50% (6/12) cORR, mDOR not reached at mFU of 14.4 months
- Durability with ongoing responses at 15+ months in some patients
- RP2D defined at $1-10 \times 10^9$ total TCR-T cells
- FDA RMAT designation received in multiple PRAME expressing cancers including cutaneous and uveal melanoma

Next Step

Ongoing alignment with FDA on patient population, trial design, CMC targeting registration-enabling randomized Phase 2/3 trial in 2L+ melanoma

IMA203CD8 GEN2 Monotherapy

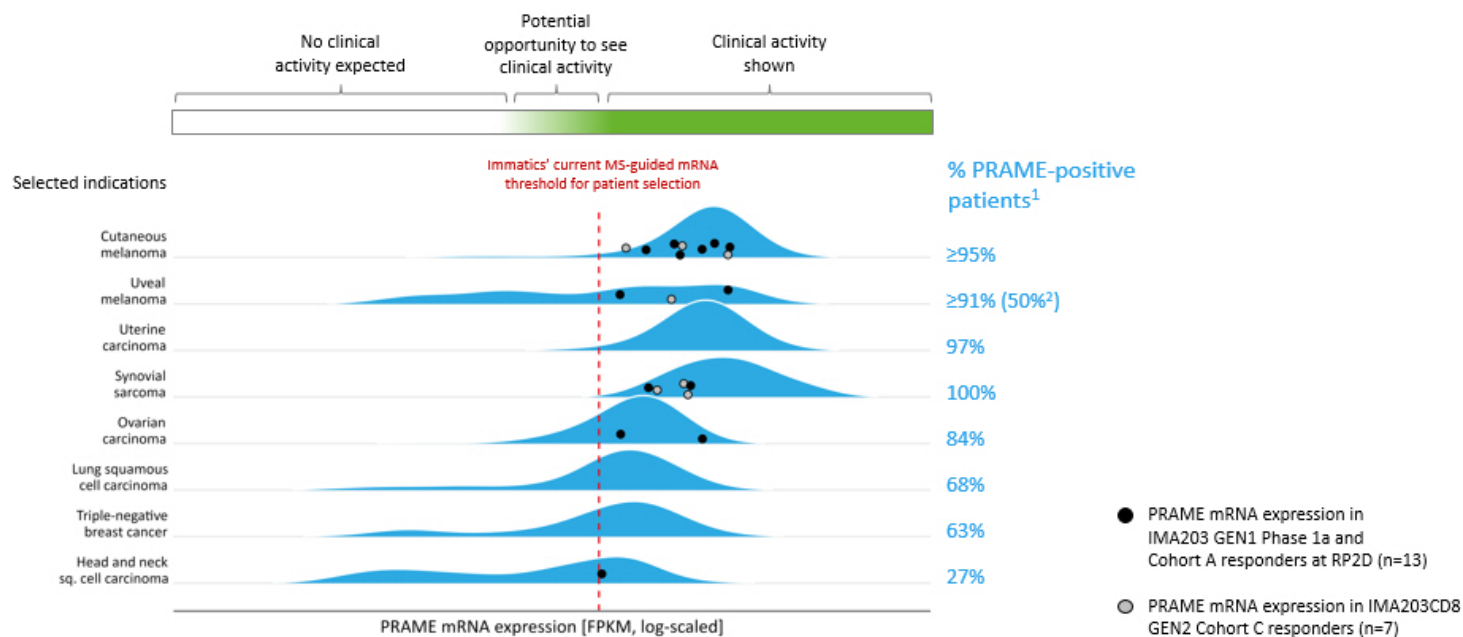
- Enhanced primary and secondary pharmacology when compared to GEN1
- Manageable tolerability (2 DLTs at DL4b, dose escalation ongoing)
- Initial clinical activity observed with differentiated response pattern
 - 56% (5/9) cORR
 - 6 out of 7 responses ongoing at data cut-off, durable response at 12+ months
 - SD converting to PR over time (N=2)
 - Enhanced biological efficacy with PRs at lower T cell:tumor cell ratio compared to IMA203 GEN1

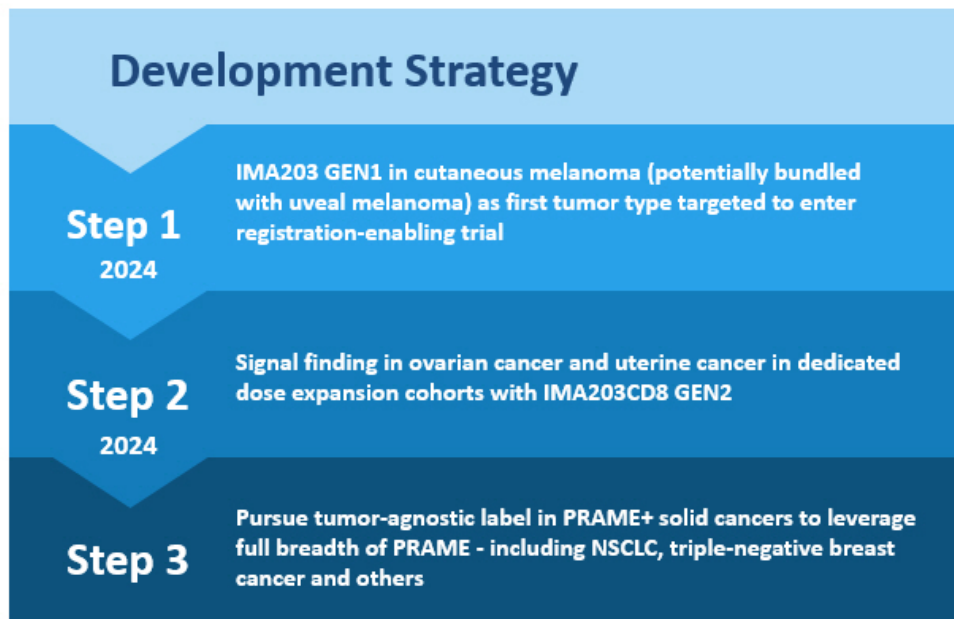
Next Step

Clinical footprint expansion outside of melanoma in addition to treating melanoma patients

Potential of IMA203 in Additional Solid Cancer Indications

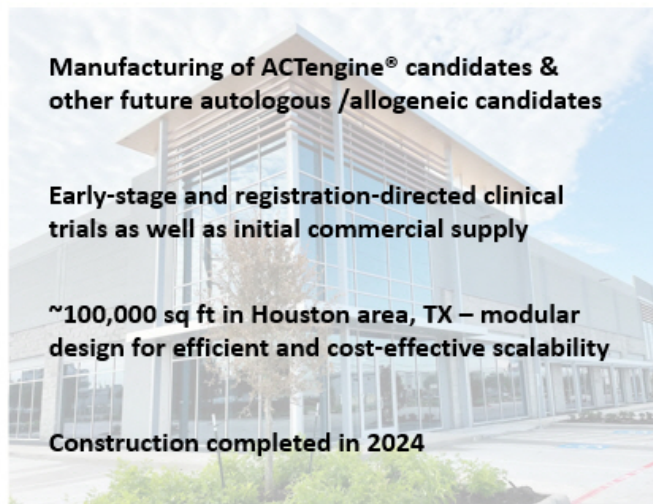
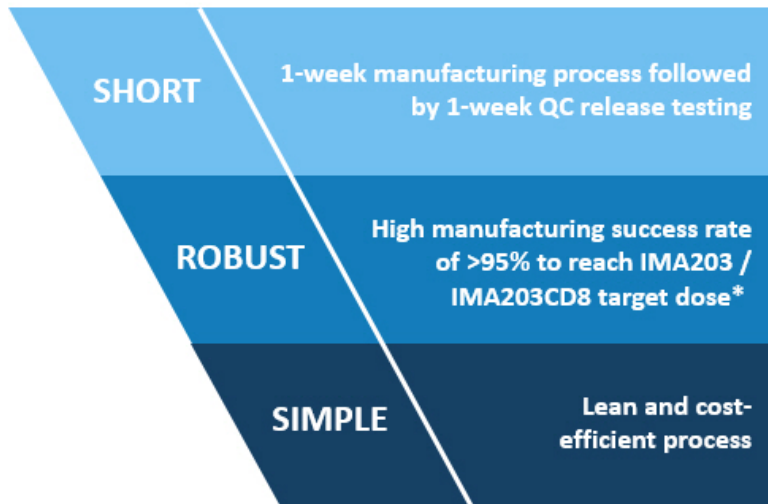
Based on PRAME Expression in IMA203 GEN1 and IMA203CD8 GEN2 Responders





Proprietary Manufacturing Process

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	Patient Population
Cut. Melanoma	99,800	7,700	95%	2,999
Uveal Melanoma	1,500	800	91%	298
Ovarian Carcinoma	19,900	12,800	84%	4,408
Uterine Carcinoma	62,700	10,700	97%	4,255
Uterine Carcinosarcoma	3,300	1,900	100%	779
Squamous NSCLC	57,000	34,600	68%	9,646
Small Cell Lung Cancer	31,900	19,400	45%	3,579
Adeno NSCLC	91,200	55,300	25%	5,668
HNSCC	66,500	15,100	27%	1,672
Breast Carcinoma	290,600	43,800	26% TNBC: 63%	4,669
Synovial Sarcoma	1,000	400	100%	164
Cholangiocarcinoma	8,000	7,000	33%	947

**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-agonistic label expansion
- Move into earlier lines of therapy (R/R Incidence → Incidence)
- Inclusion of patients with lower PRAME-threshold



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 density¹:
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 avidity²:
~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

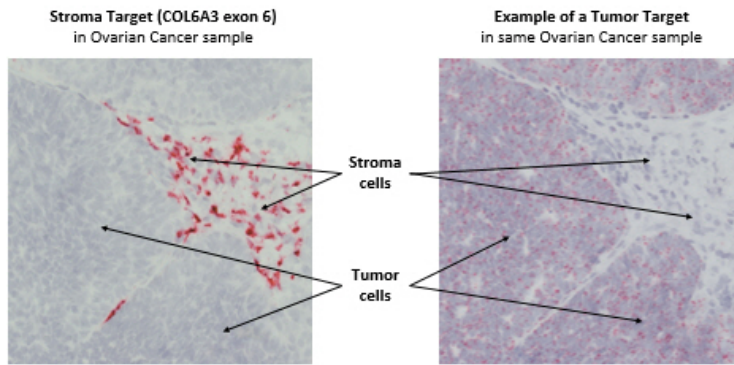
PATIENT POPULATION³

Pancreatic Carcinoma – 76%
Breast Carcinoma – 77%
Stomach Carcinoma – 67%
Sarcoma – 63%
Colorectal Carcinoma – 60%
Esophageal Carcinoma – 60%
Squamous NSCLC – 55%
Adeno NSCLC – 57%
HNSCC – 56%
Uterine Carcinosarcoma – 50%
Mesothelioma – 44%
Cholangiocarcinoma – 36%
Melanoma – 35%
Bladder Carcinoma – 34%
Ovarian Carcinoma – 31%

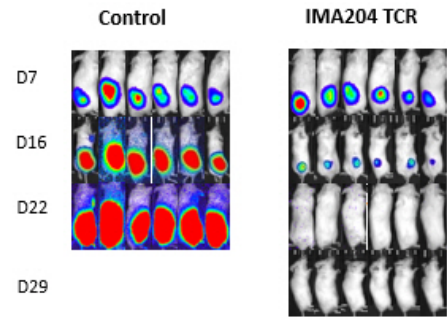
IMA204 provides a promising therapeutic opportunity for a broad patient population as monotherapy or in combination with TCR-T cells directed against tumor targets

ACTengine® IMA204 – High Affinity, CD8-independent TCR

Complete Tumor Eradication *in vitro* & *in vivo*¹ by Affinity-enhanced IMA204 TCR



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



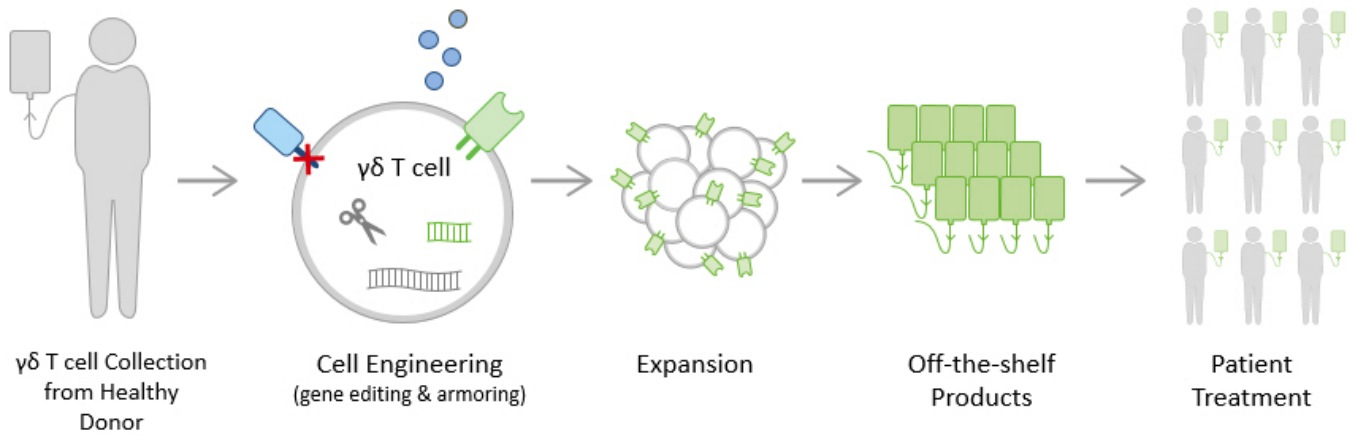
CD8-independent TCR leads to tumor eradication in all mice treated

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



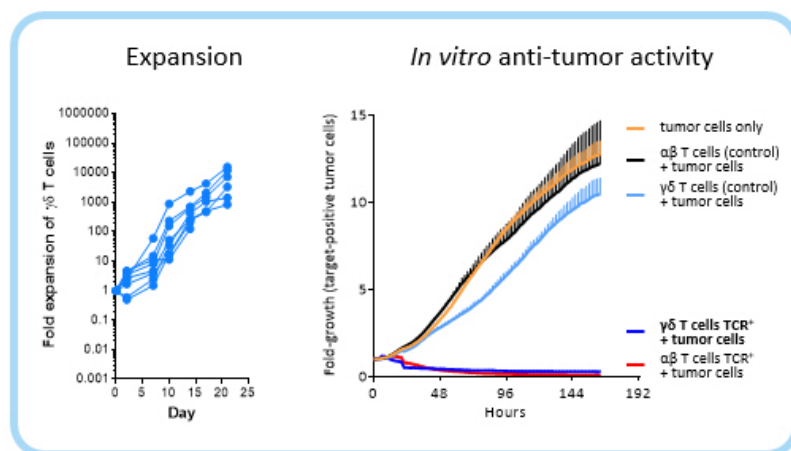
- **Off-the-shelf cell therapy**, no need for personalized manufacturing → reduced logistics and time to application
- **Potential for hundreds of doses** from one single donor leukapheresis → lower cost of goods
- **Use of healthy donor material** provides standardized quality and quantity of starting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



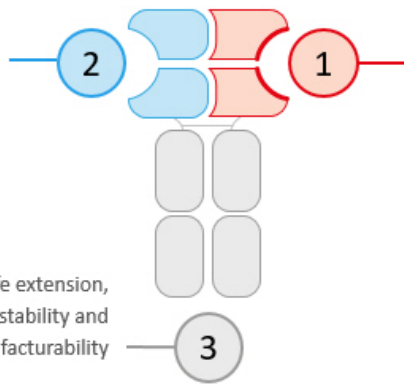


TCER[®] – TCR Bispecifics

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

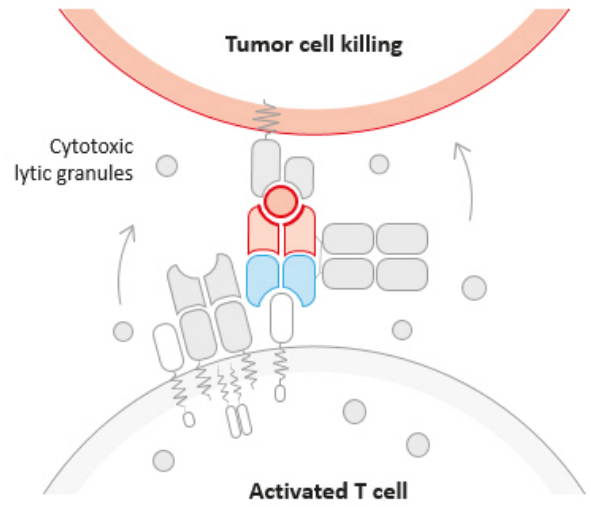
Proprietary TCER® Format Consisting of Three Distinct Elements

Low-affinity
T cell recruiter
against CD3/TCR

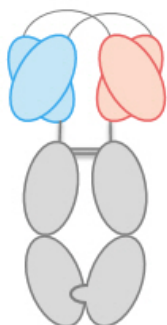


High-affinity TCR
domains targeting
XPRESIDENT®-selected
tumor-specific peptide-
HLA molecules

Fc part for half-life extension,
favorable stability and
manufacturability

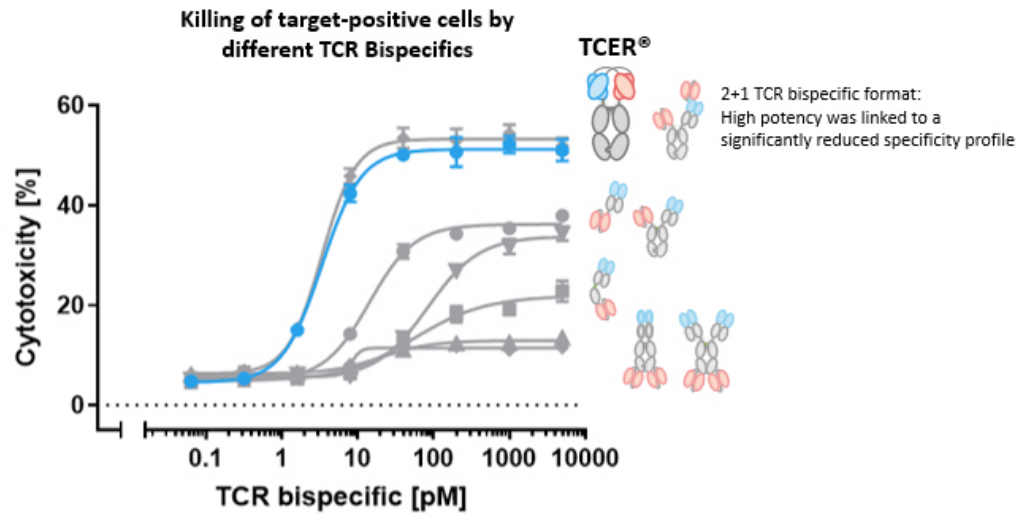


Next-gen, half-life extended TCER® format designed to
→ safely apply high drug doses for activity in a broad range of tumors
→ achieve optimized scheduling



- 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)¹
 - ✓ **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**²
 - ✓ **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 manufacturability³ and low cost of goods
 - ✓ Superior anti-tumor activity⁴ compared to six alternative bispecific formats
 - ✓ Half-life of several days expected in humans

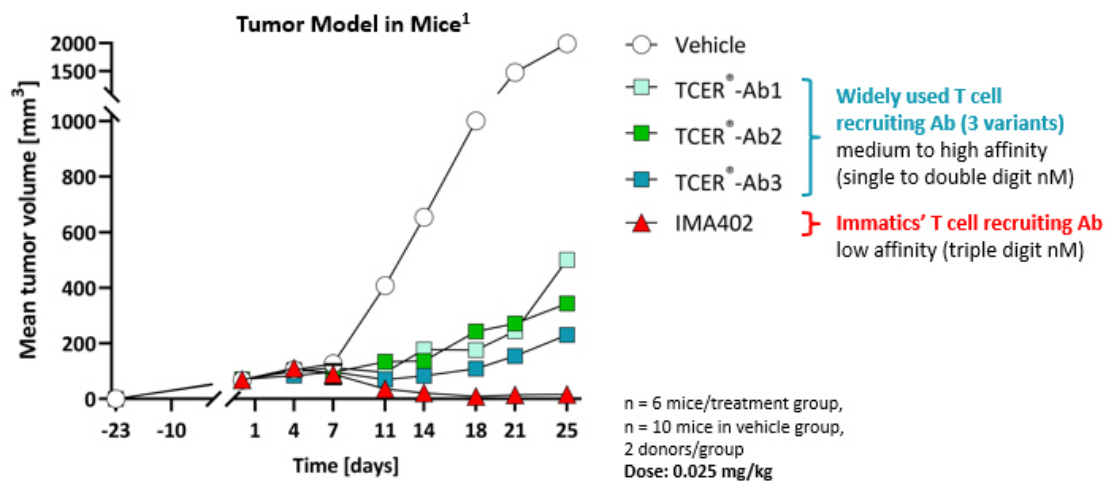
Our TCER[®] format is designed to maximize efficacy while minimizing toxicities in patients



- Seven different TCR Bispecific formats were evaluated with a pHLA targeting TCR and the identical T cell recruiting antibody
 - TCER® format had higher combination of potency and specificity¹ than six alternative TCR Bispecific format designs evaluated
- Flexible Plug-and-play platform: TCER® format successfully validated for different TCRs & different T cell recruiting antibodies**

TCER® Format Is Designed for Optimized Efficacy and Safety

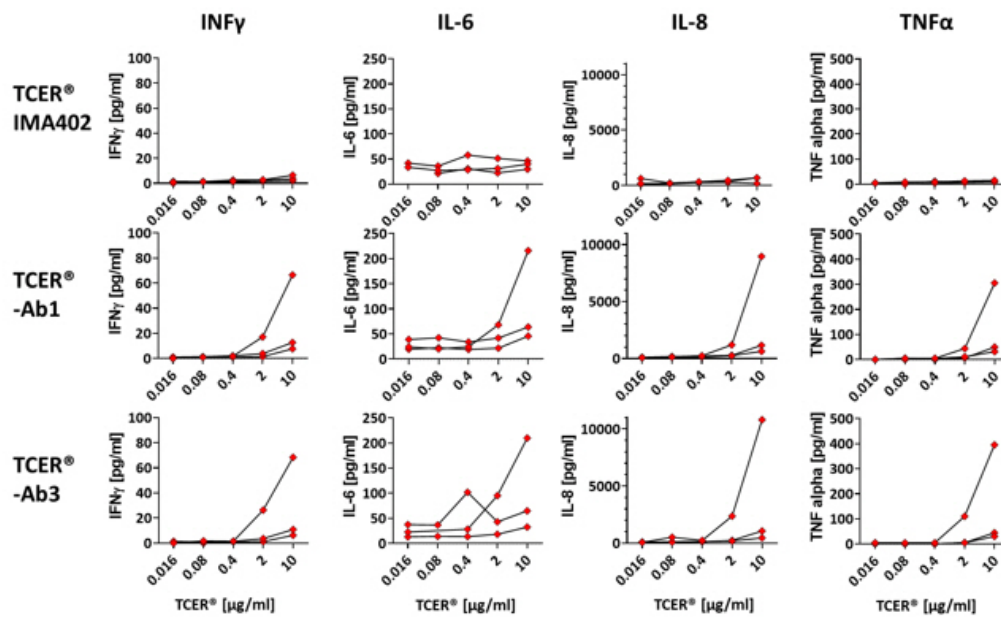
Superior Tumor Control Using a Novel, Low-Affinity Recruiter



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

TCER® Format Is Designed for Optimized Efficacy and Safety

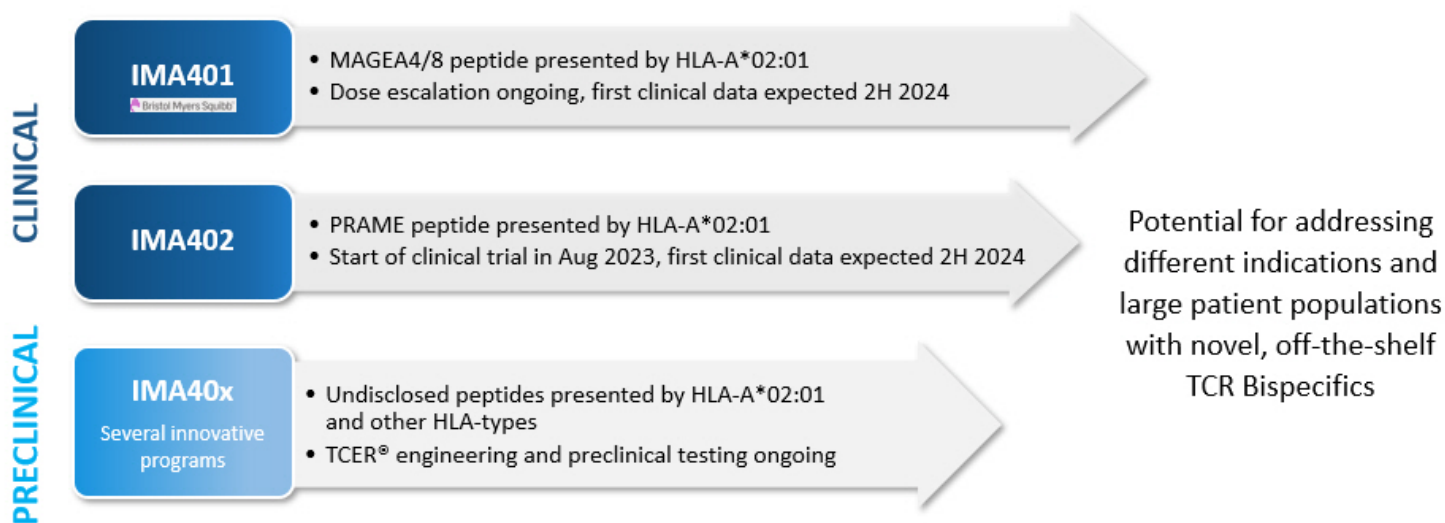
Reduced Target-Unrelated Recruiter-Mediated Cytokine Release using a Low-Affinity Recruiter



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

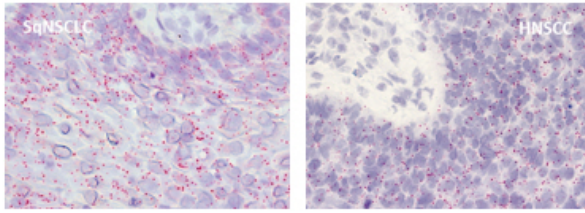


The current collaboration with Moderna includes the development of mRNA-enabled *in vivo* expressed TCER® molecules

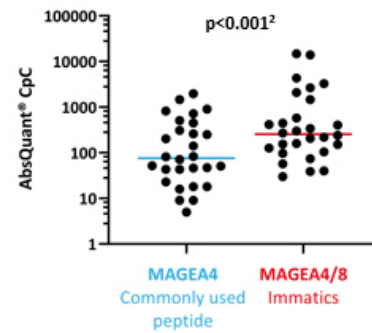
TCER® IMA401 Targeting MAGEA4/8

Homogeneous Expression, Broad Prevalence and High Copy Number Target

MAGEA4 RNA detection in tumor samples (ISH)



MAGEA4 and MAGEA4/8 Peptide (AbsQuant®)



MAGEA4/8 target is presented at >5-fold higher target density¹ than a commonly used MAGEA4 target peptide

MAGEA4/8 target prevalence in selected cancer indications

Indications	Target prevalence [%]
Squamous non-small cell lung carcinoma	52%
Head and neck squamous cell carcinoma	36%
Bladder carcinoma	29%
Uterine carcinosarcoma	29%
Esophageal carcinoma	23%
Ovarian carcinoma	23%
Melanoma	18%
<i>plus several further indications</i>	

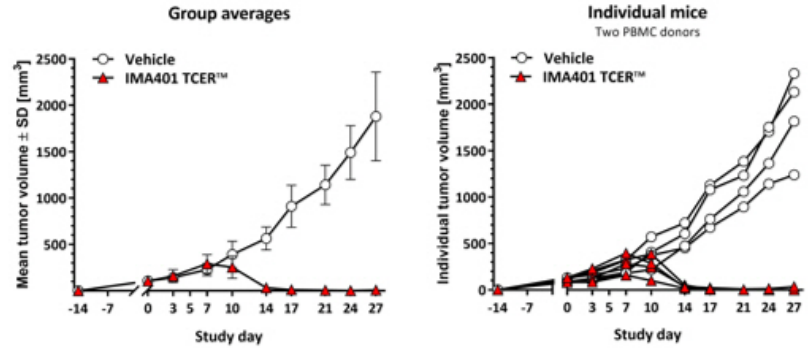
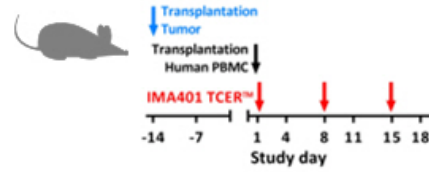
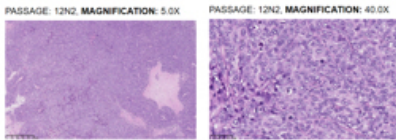
IMA401 MAGEA4/8 target prevalences are based on TCGA data combined with a XPRESIDENT®-determined target individual MS-based mRNA expression threshold; ¹Copy number per tumor cell (CpC) measured on a paired-sample basis by AbsQuant®, i.e. comparing MAGEA4 vs. MAGEA4/A8 peptide presentation on same sample, ²Students paired T test

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

Patient-Derived Tumor Model

NSCLC adenocarcinoma:

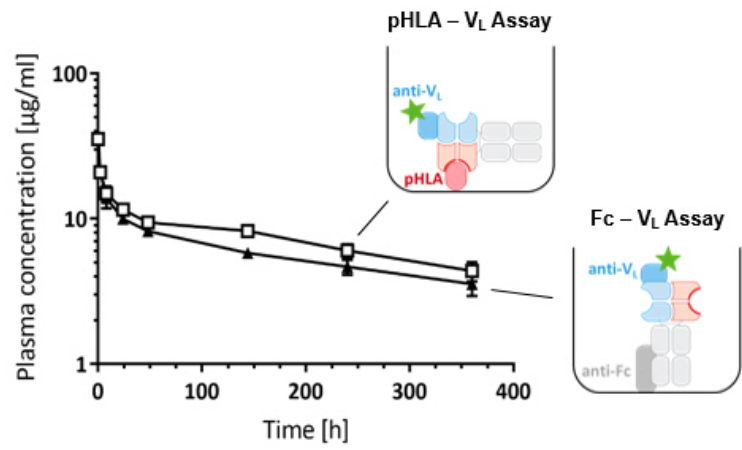
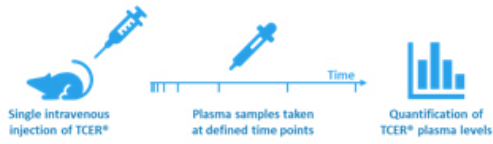
- Male, Caucasian, age 58, no therapy prior to surgery
- Site of origin: lung, differentiation poor
- Date of surgery: 1987, Freiburg Medical Center
- Volume doubling time: 7.3 day
- Histology:
 - Stroma content, 4%
 - Vascularization, high
 - Grading, undifferentiated



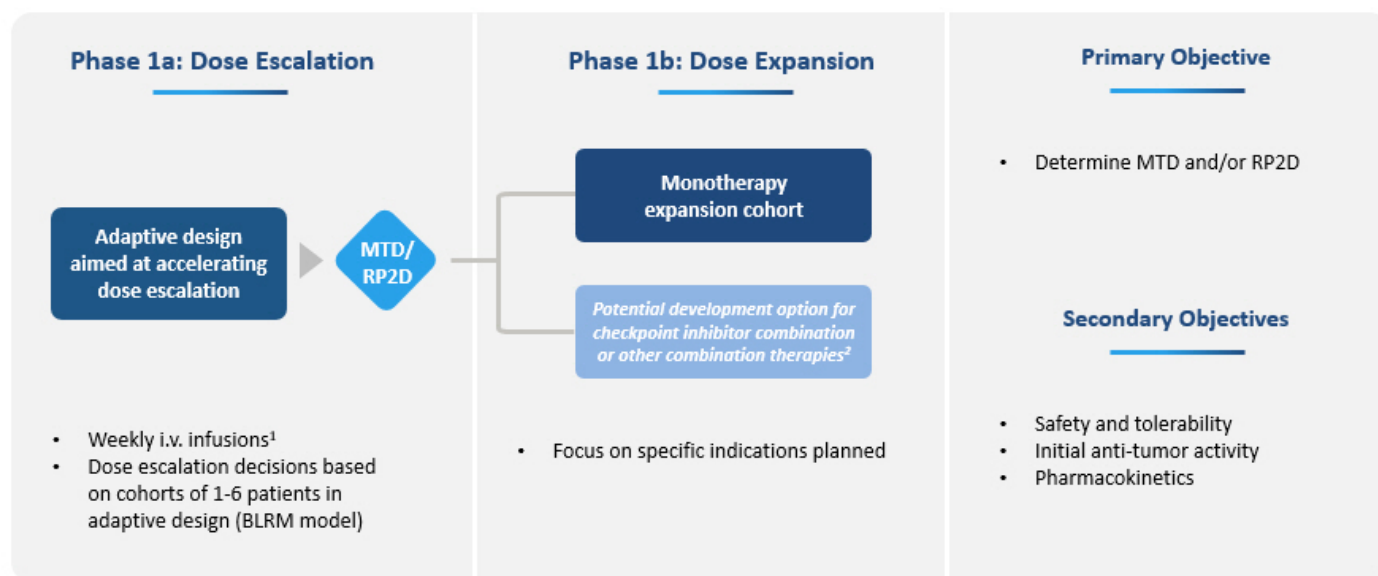
- TCER® IMA401 shows **high anti-tumor activity in Patient-derived xenograft model** of non-small cell lung adenocarcinoma
- **Remission observed in all mice (3 out of 4 mice with complete remission)**

TCER® IMA401 (MAGEA4/8) – Pharmacokinetics

PK Analysis in NOG Mice

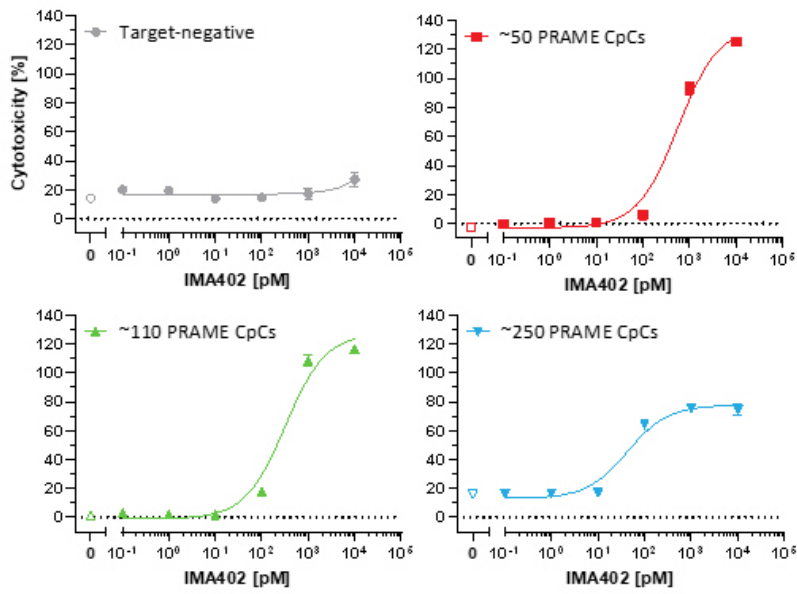


- Two different PK assays established to ensure functional integrity of protein domains
- **Terminal half-life in mice: 10-11 days**

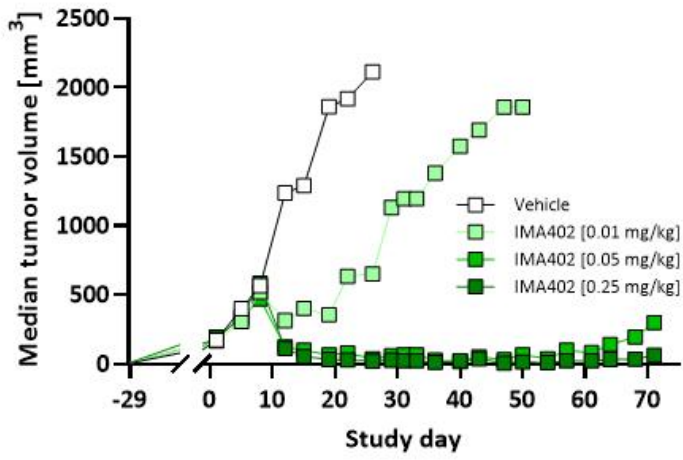


TCER® IMA402 Targeting PRAME – Efficacy Assessment *in vitro*

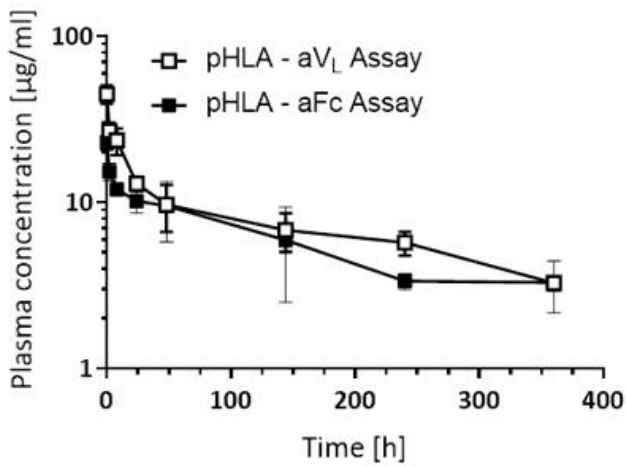
Tumor Cell Killing at Low Physiological PRAME Peptide Levels



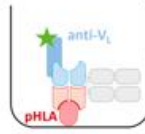
- TCER® IMA402 induces killing of tumor cells with PRAME target copies as low as 50 CpCs
- Physiological PRAME levels detected in majority of cancer tissues from patients are 100 – 1000 CpCs
- Preclinical activity profile enables targeting of a broad variety of tumor indications, such as lung cancer,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



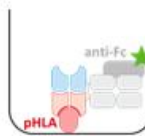
- Dose-dependent efficacy of IMA402 in cell line-derived *in vivo* mouse model
- Durable shrinkage of large tumors including complete responses over prolonged period
- Sufficiently high drug doses are key to achieving desired anti-tumor effect



pHLA – aVL Assay



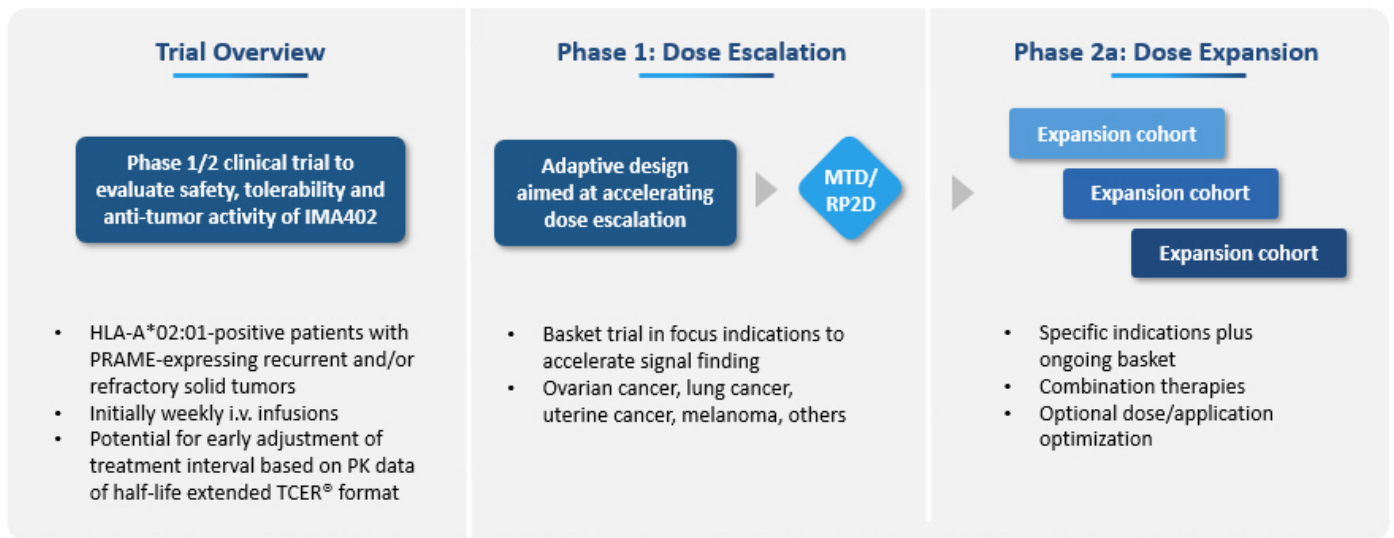
pHLA – aFc Assay



- 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

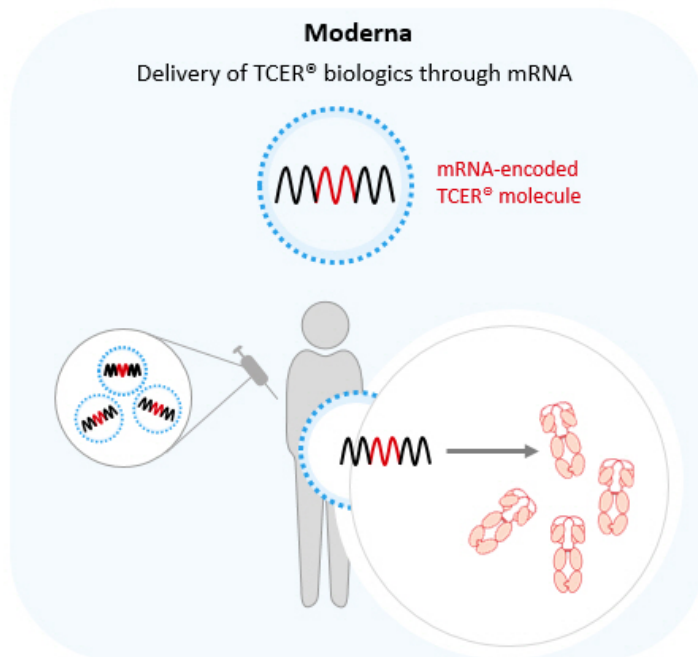
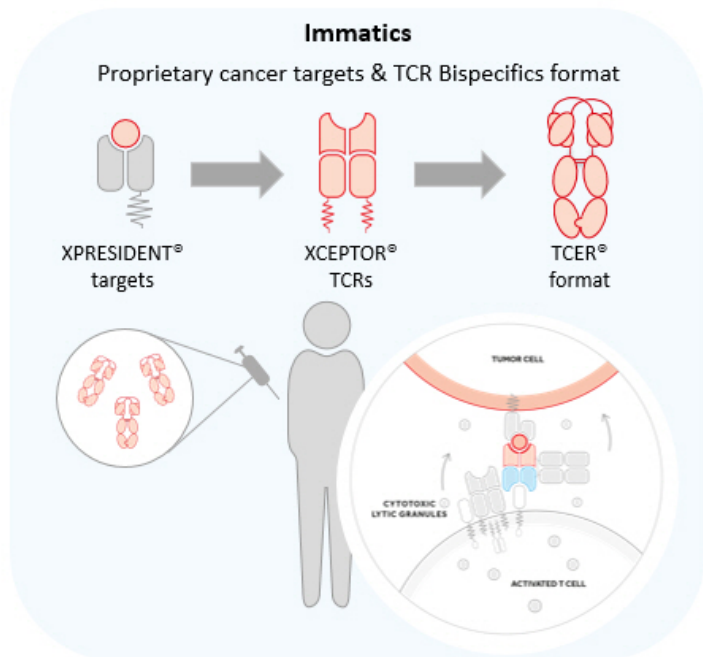
Phase 1/2 Clinical Trial to Evaluate TCER® IMA402 Targeting PRAME

First Clinical Data Planned in 2H 2024



In Vivo Expressed TCER[®] Molecules Targeting Cancer-specific pHLA Targets

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





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

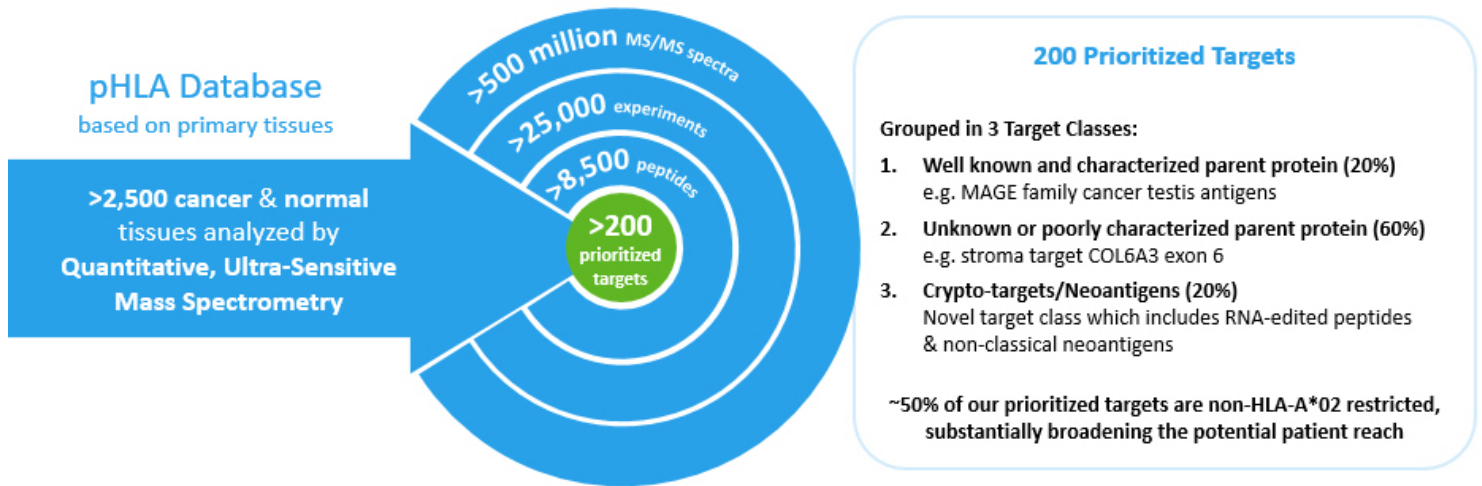
- are naturally presented on tumor tissues as identified by mass-spec
- are absent or presented at only low levels on normal tissues
- are presented at high copy numbers to trigger a pharmacological response

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

Pool of 200 Prioritized Targets as Foundation for Future Value Generation

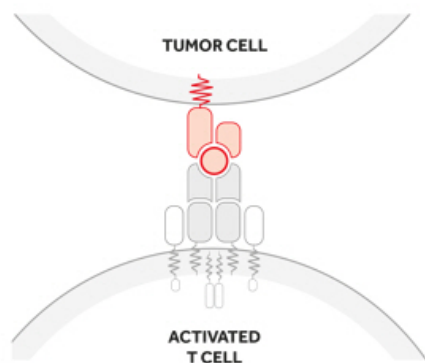
XPRESIDENT® Target Platform



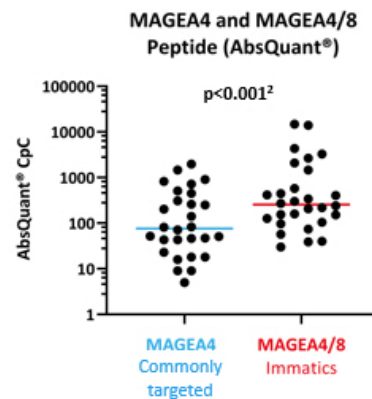
This large data set is leveraged by our bioinformatics & AI-platform XCUBE™ – „AI is where the data is“

Immatics' Unique Capability – Identification of the most Relevant Target

Example of MAGEA4/8 Peptide Target



Ranking of pHLA targets

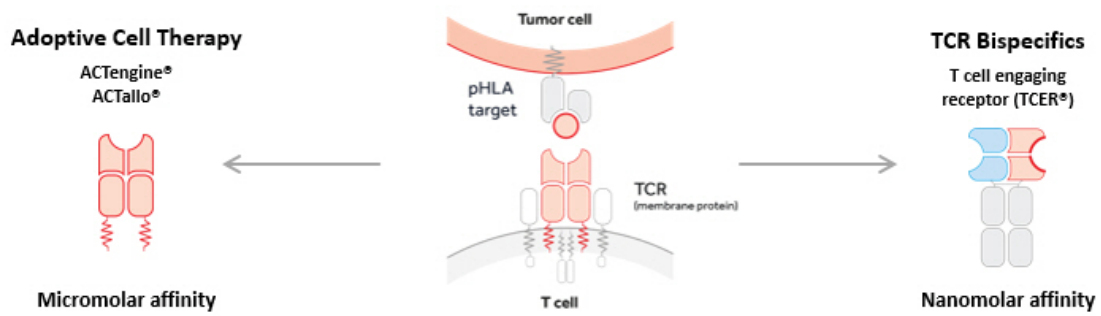


XPRESIDENT® quantitative information on target density¹ between peptides originating from the same source protein

MAGEA4/8 target is presented at >5-fold higher target density¹ than a commonly targeted MAGEA4 target peptide

Development of the Right TCR – XCEPTOR® Technology

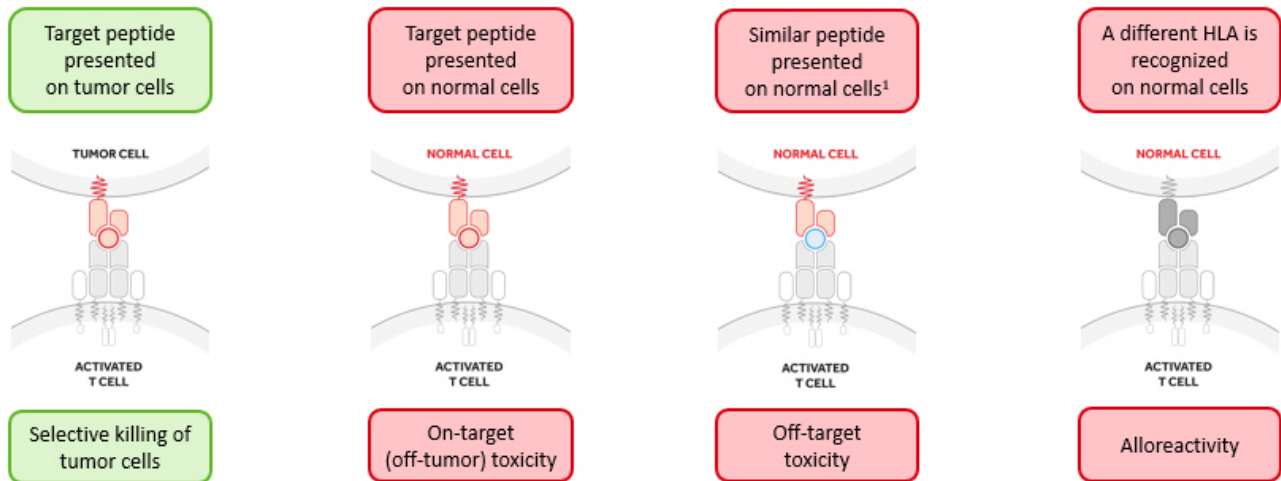
TCR Discovery and Engineering for ACT and TCR Bispecifics



- 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 discovery¹ and TCR maturation² (empowered by our bioinformatics & AI-platform XCUBE™)

Optimal Target Selection & TCR Specificity for Minimizing Safety Risks

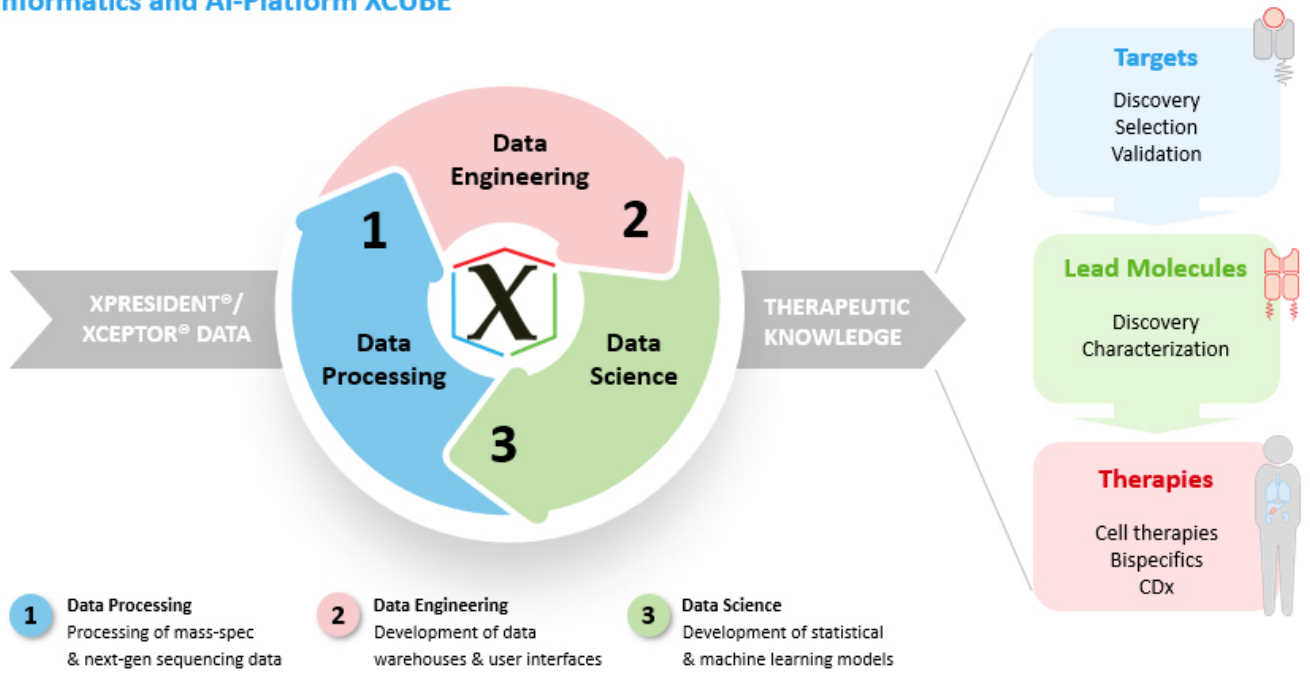
Unique Interplay between Technology Platforms Allows Early De-risking for Clinical Development



XPRESIDENT[®]-guided screening for on- and off-target toxicities of TCRs based on the extensive database of peptides presented on normal tissues

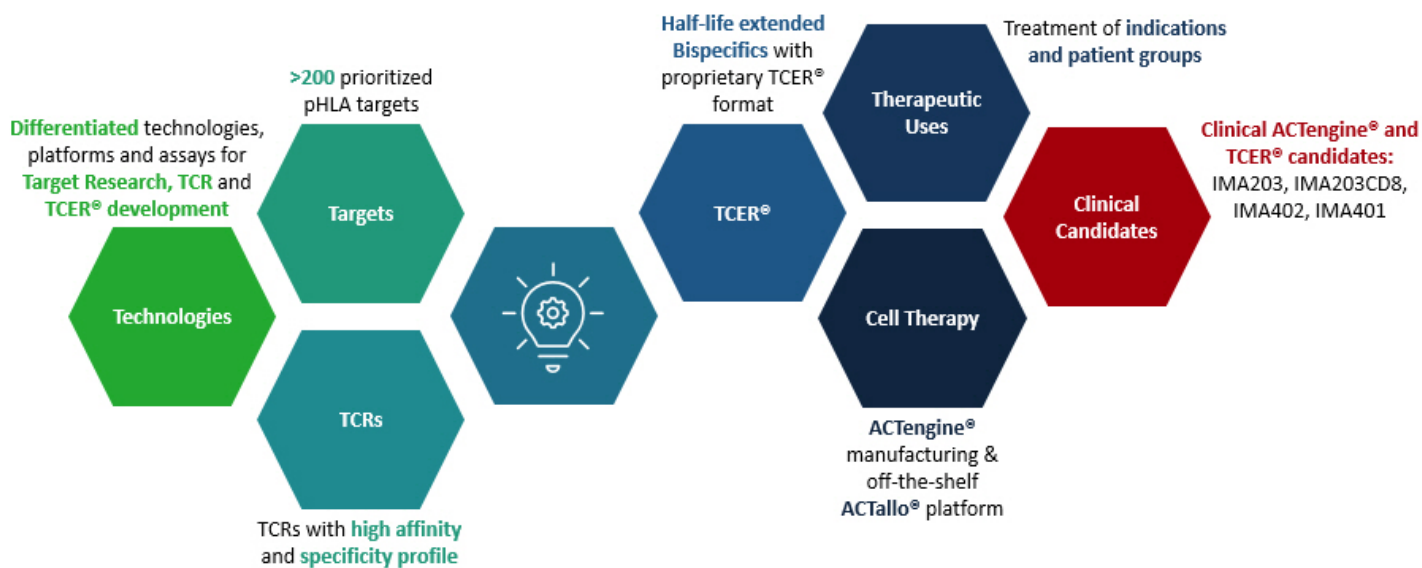
“AI Is Where the Data Is®”

Bioinformatics and AI-Platform XCUBE™



Immatics' Robust Intellectual Property Portfolio

Protection Strategy of Key Assets in Major Markets and Beyond





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
(InfliRx, 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 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
(InfliRx, AAA)

Strong, Focused and Highly Integrated Trans-Atlantic Organization



Delivering

the Power of T cells
to Cancer Patients

Appendix

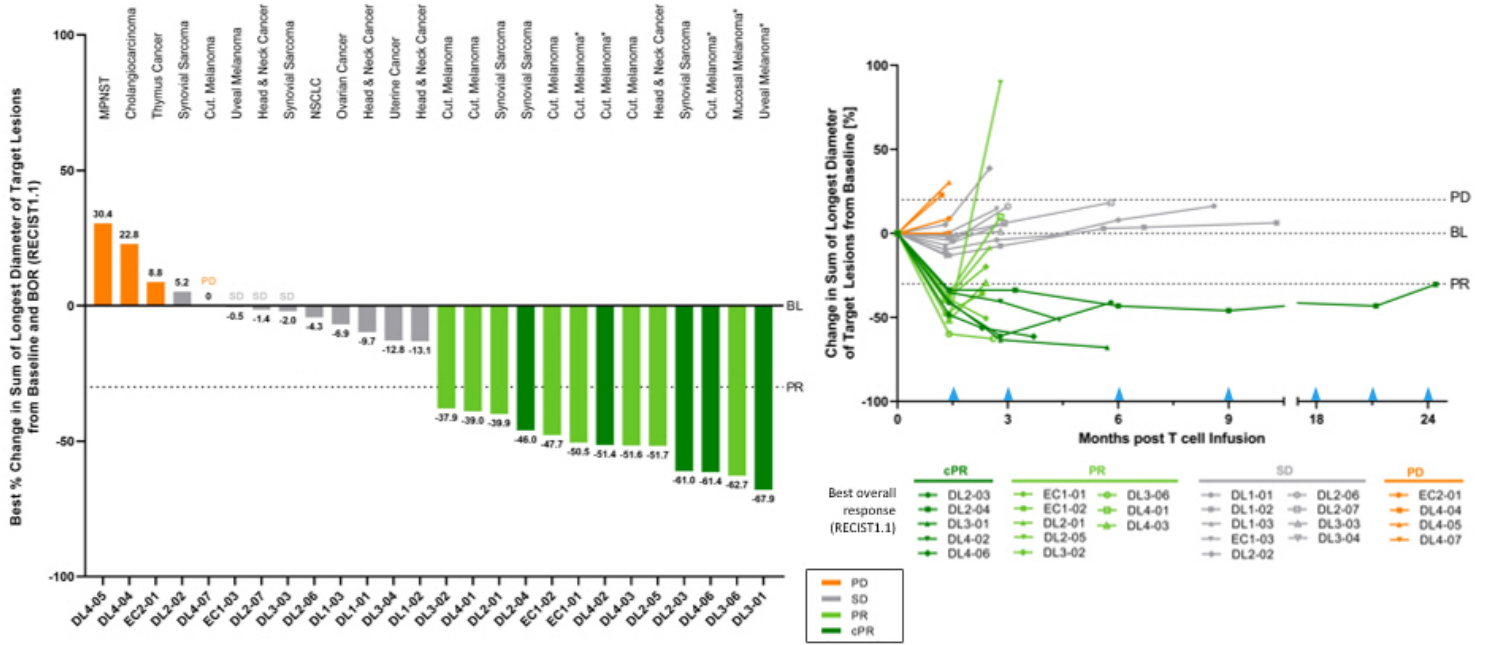
www.immatics.com



© Immatics. Not for further reproduction or distribution.



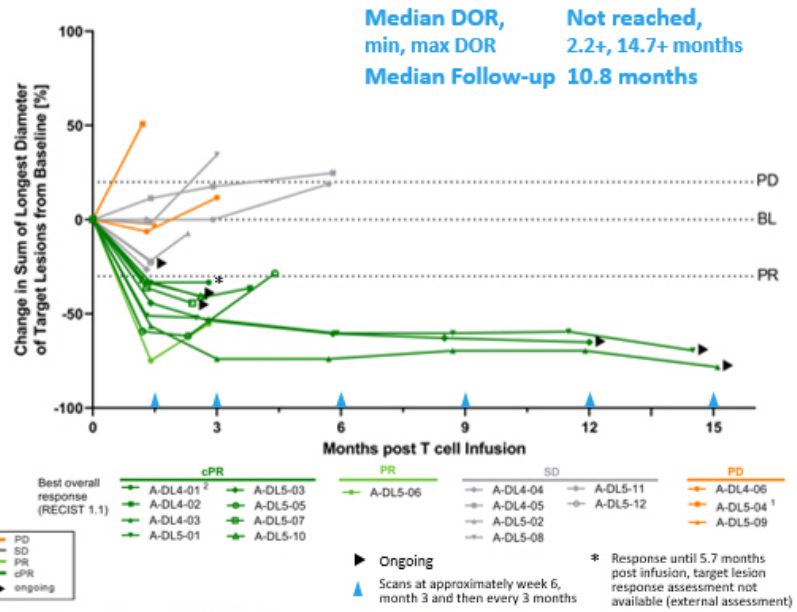
IMA203 GEN1 in Phase 1a Dose Escalation (N=27#) – BOR and Response over Time



* Maximum change of target lesions and RECIST 1.1 BOR at different timepoints; ⁴ Synovial sarcoma patient (DL3) PD at week 6 not shown as target lesions were not evaluable; PD: Progressive disease; SD: Stable disease; PR: Partial response; cPR: Confirmed partial response; BL: Baseline Data cut-off Sep 30, 2023 69

IMA203 GEN1 in Cohort A (N=18) – BOR and Response over Time

Objective Responses across Multiple Solid Cancer Types



¹ Patient received one dose nivolumab intravenously. ² Progressive disease at month 6 due to unequal progression of non-target lesions, target lesions not evaluable due to external assessment; Initial ORR: Objective response rate according to RECIST 1.1 at any post infusion scan; Confirmed ORR (cORR): Confirmed objective response rate according to RECIST 1.1 for patients with at least two available post infusion scans or patients with progressive disease (PD) at any prior timepoint; patients with ongoing unconfirmed PR not included in cORR calculation; Duration of response (DOR) in confirmed responders is defined as time from first documented response until disease progression/death. Patients with ongoing response will be censored at date of data cut-off. Median DOR is analyzed by using the Kaplan-Meier method; 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; BOR: Best Overall Response; DOR: Duration of Response

Data cut-off Sep 30, 2023 70

IMA203 GEN1 in Cohort A – Most Frequent Adverse Events

N=21 Patients in Safety Population¹

- **Expected cytopenia (Grade 1-4)** associated with lymphodepletion in all patients
- **Mild-moderate cytokine release syndrome (CRS) in 90% (19/21) of patients**
 - 43% (9/21) with Grade 1 CRS
 - 48% (10/21) with Grade 2 CRS
 - No dose-dependent increase of CRS
- **One non-serious, mild (Grade 1) ICANS² in DL5**
- **No dose-limiting toxicity**
- **No IMA203-related deaths**

IMA203 GEN1 monotherapy continues to be well tolerated at total doses between 1-10x10⁹ TCR-T cells (RP2D)

¹ Three cutaneous melanoma patients treated with IMA203, and pending post infusion scan included in safety population, but not efficacy population;

² ICANS: Immune Effector Cell-Associated Neurotoxicity Syndrome; CRS and ICANS graded by CARTOX criteria (Neelapu et al., 2018)

IMA203 GEN1 at RP2D – Tolerability Data

Phase 1a DL4 and Cohort A – All ≥Grade 3 Adverse Events (N=28)

TEAEs by maximum severity for all patients in Ph1a dose escalation DL4 and Ph1b Cohort A dose expansion (RP2D, N=28)¹

Adverse event (System organ class, Preferred term)	≥ Grade 3		Adverse event (System organ class, Preferred term)	≥ Grade 3	
	No.	%		No.	%
Patients with any adverse event	28	100.0	table continued...		
Adverse Events of Special Interest	1	3.6	General disorders and administration site conditions	1	3.6
Cytokine release syndrome	1	3.6	Pyrexia	1	3.6
ICANS ²	0	0.0	Hepatobiliary disorders	1	3.6
Blood and lymphatic system disorders	27	96.4	Cholangitis	1	3.6
Neutropenia	18	64.3	Injury, poisoning and procedural complications	1	3.6
Anaemia	14	50.0	Humerus fracture	1	3.6
Leukopenia	13	46.4	Musculoskeletal and connective tissue disorders	1	3.6
Lymphopenia	11	39.3	Muscle spasms	1	3.6
Thrombocytopenia	9	32.1	Nervous system disorders	1	3.6
Leukocytosis	1	3.6	Headache	1	3.6
Lymphocytosis	1	3.6	Skin and subcutaneous tissue disorders	1	3.6
Investigations	7	25.0	Rash maculo-papular	1	3.6
Neutrophil count decreased	4	14.3			
Alanine aminotransferase increased	2	7.1			
Aspartate aminotransferase increased	2	7.1			
White blood cell count decreased	2	7.1			
Blood alkaline phosphatase increased	1	3.6			
Infections and infestations	3	10.7			
Infection	1	3.6			
Septic shock ³	1	3.6			
Urinary tract infection	1	3.6			
Respiratory, thoracic and mediastinal disorders	3	10.7			
Hypoxia	2	7.1			
Laryngeal inflammation	1	3.6			
Vascular disorders	3	10.7			
Hypotension	2	7.1			
Hypertension	1	3.6			
Metabolism and nutrition disorders	2	7.1			
Failure to thrive	1	3.6			
Hypokalaemia	1	3.6			
Hypophosphataemia	1	3.6			
Eye disorders	1	3.6			
Ulcerative keratitis	1	3.6			

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); listed for 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 (Neelapu et al., 2018). Patients are counted only once per adverse event and severity classification. Based on interim data extracted from open clinical database (30-Sep-2023); ¹ One patient in Phase 1a DL4 with disease progression after first IMA203 infusion received exploratory second IMA203 infusion and had these ≥ Grade 3 TEAEs only after second infusion, which are included in the table: Humerus fracture, Muscle spasms, Neutropenia, Thrombocytopenia; ² ICANS: Immune effector cell-associated neurotoxicity syndrome; ³ Fatal Adverse events were not considered related to any study drug

- IMA203 was well tolerated at doses as high as ~10x10⁹ TCR-T cells
- Most frequent ≥Grade 3 AEs were expected cytopenia associated with lymphodepletion
- No IMA203-related Grade 5 AEs

Delivering

the Power of T cells
to Cancer Patients



www.immatics.com



© Immatics. Not for further reproduction or distribution.

