

Corporate Presentation – September 2023 (ASX: IMM, NASDAQ: IMMP)

Forward-Looking Statements



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Immutep Highlights





Novel science and advanced pipeline

Pioneering LAG-3 immunotherapy in cancer & autoimmune diseases. Three clinical assets and two earlier stage programs.



Compelling clinical data

First-in-class eftilagimod alpha (efti) has generated compelling clinical efficacy with favourable safety across several cancers.*



Validation through partnerships

Multiple partnerships and collaborations with large pharma.



GSK









Global presence; strong balance sheet

Global presence and strong IP across diversified LAG-3 portfolio. Well-funded with cash runway to early 2026.









Substantial market opportunity

Efti has safely improved clinical outcomes for cancer patients with anti-PD-(L)1 therapies as well as chemo creating large opportunity.

Deep Pipeline



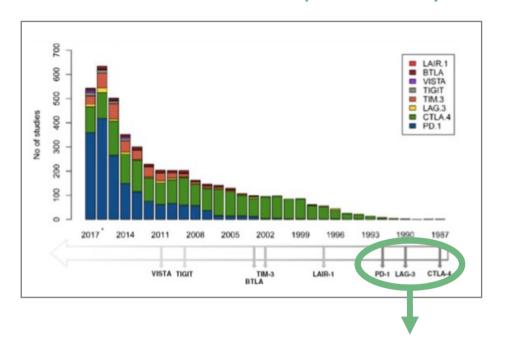
	Program	Indication	Preclinical	Phase I	Phase II	Late Stage*	Collaborations	Commercial Rights
ONCOTOGY	Eftilagimod Alpha Soluble LAG-3 Protein	1L Head & Neck Squamous Cell Carcinoma (HNSCC) 1L Non-Small Cell Lung Cancer (NSCLC), 2L HNSCC, PD-X Refractory 2L NSCLC Urothelial Cancer	TACTI-003 Efti+Pembro TACTI-002 Efti+Pembro INSIGHT-005 Efti+Ave	olizumab ^a			MERCK MERCK Merck KGaA Darmstadt, Germany	immutep®
		1L NSCLC Soft Tissue Sarcoma HR+/HER2- Metastatic Breast Cancer & TNBC	INSIGHT-003 Efti+Pen EFTISARC-NEO Efti+Pe AIPAC-003 Efti+Paclita	embro+Radiotherapy [§] xel			Narodowy Instytut Onkologii Washington (India) Patrimen Instant Indiana	Global Rights ex-China
	Anti-LAG-3 Small Molecule	Metastatic Breast Cancer & Solid Tumors Undisclosed	Efti+Paclitaxel and Efti+Pe	embrolizumab [#]			CARDIFF	ETT Efti China Rights immutep Global Rights
	LAG525 Anti-LAG-3 Antibody	Solid Tumors & Blood Cancer Triple Negative Breast Cancer Melanoma Solid Tumors Triple Negative Breast Cancer					U NOVARTIS	NOVARTIS Global Rights
AUTOIMMUNE DISEASE	GSK'781 Depleting LAG-3 Antibody	Ulcerative Colitis Psoriasis Healthy Subjects					GSK	GSK Global Rights
	IMP761 Agonist LAG-3 Antibody	Undisclosed						immutep LAG-3 IMMUNOTHERAPY Global Rights

Immuno-Oncology (IO) Landscape

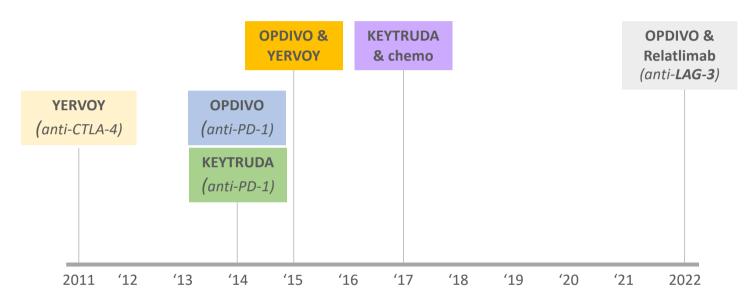
LAG-3 is one of three immune checkpoints with regulatory approvals



Timeline of Immune Checkpoint Discovery*



Evolution of Immuno-Oncology Therapies**



The immune system's role in fighting cancer has led to regulatory approval of immuno-oncology therapies targeting the immune checkpoints CTLA-4, PD-1, and LAG-3

LAG-3 is unique in that its (1) inhibition on T cells receptor signalling and (2) activation of dendritic cells both engage the immune system to fight cancer

LAG-3 Therapeutic Landscape Overview



		Company	Program	Preclinical	Phase I	Phase II	Phase III	Approval	Total Trials	Patients
	Agonist	innutep [©]	Eftilagimod Alpha ⁽⁵⁾		10	4	1		15	1,741
		BMS	Relatlimab		11	44	5	1	60	11,998
		Regeneron ⁽¹⁾	Fianlimab		2	2	4		8	5,777
		Merck & Co. Inc.	Favezelimab		5	7	3		15	2,423
		H-L Roche	Tobemstomig		4	5			9	1,681
		BeiGene	LBL-007		4	5			9	1,450
Oncology		U NOVARTIS	leramilimab		1	4			5	796
Ouc	Antagonist	Macrogenics	Tebotelimab		3	3			6	974
	Antag	Incyte	Tuparstobart		2	3			5	398
		B.I.	Miptenalimab		4	1			5	653
		Innovent	IBI110		3	1			4	428
		F-star ⁽⁴⁾	FS-118		2	1			3	196
		Tesaro ⁽³⁾	TSR-033		1	1			2	139
		Symphogen ⁽²⁾	SYM022		4				4	188
		Jiangsu Hengr.	SHR-1802		3				3	284
Autoimmune	Agonist	inmutep [©]	IMP761							
Autoin	Depleting Ab	gsk (4)	GSK2831781 (IMP731)		2	1			3	207

Immutep's Pioneering Immunotherapies

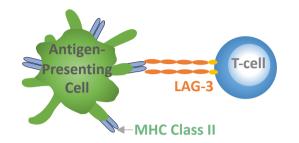




Targeting MHC Class II on APCs with Soluble LAG-3 Protein (Efti)

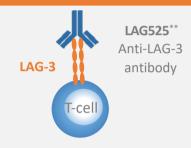


Activating APC with efti leads to a broad immune response to fight cancer including large increase of anti-tumor cells (T Cells, NK Cells, monocytes, etc.) and biomarkers (IFN-y and CXCL10)*



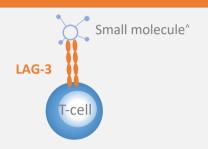
Binding of LAG-3 on T cells to MHC Class II molecules on antigen-presenting cells (APC) leads to inhibition of T cell receptor signaling *. Additionally, soluble LAG-3 eftilagimod alpha is a unique APC activator.

Targeting LAG-3 on T cells with an Antagonist Antibody



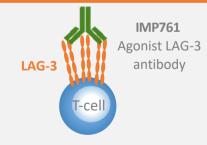
Blocking LAG-3 on T cells prevents LAG-3-mediated co-inhibitory signaling, allowing T cells to see and attack cancer

Targeting LAG-3 on T cells with Small Molecules



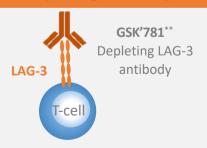
Small molecules blocking LAG-3 could offer convenience of an oral pill at a fraction of the cost of biologics

Targeting LAG-3 on T cells with an Agonist Antibody



Increasing LAG-3's natural downregulation of auto-reactive memory T cells may address autoimmune diseases

Targeting LAG-3 on T cells with a Depleting Antibody

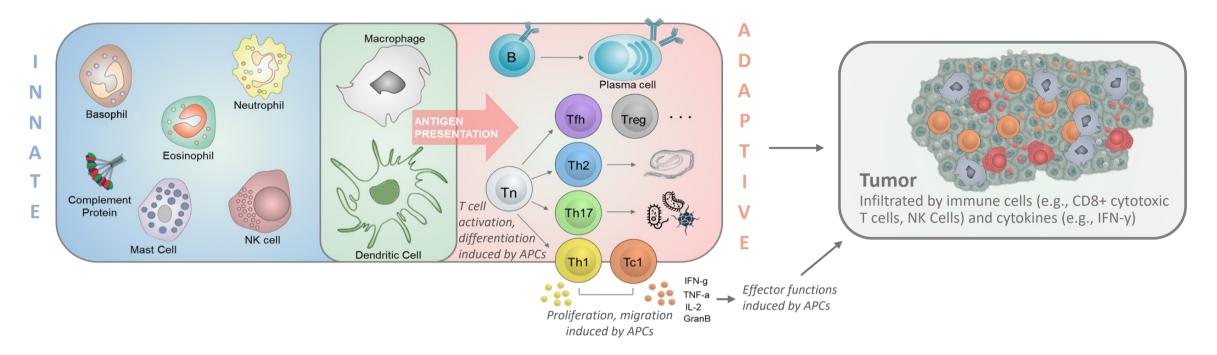


Depleting LAG-3 T cells can suppress immune system's response, enabling treatment of autoimmune diseases

Efti Activates the 'Generals of the Immune System'



Unique activation of APCs (dendritic cells) via MHC Class II leads to systemic anti-cancer immune response



Efti activates Antigen Presenting Cells (APCs) that play key role in tumor response:

- APCs (e.g., dendritic cells) are a central hub that orchestrate the immune response
 - Initiate CD8+ T cell activation and proliferation
 - Induce required immune weaponry (IFN-y, granzyme, perforin, etc.)
 - Provide immune system target identification and location
 - Provide the "license to kill" to cytotoxic CD8+ T cells
- There is no successful tumor response without type 1 immunity (CD8+ T cells, IFN-y, etc.) and there is no type 1 immunity without functioning APCs

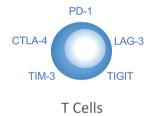
Efti Brings A Complementary Approach to IO-IO Combinations



Adaptive Immunity

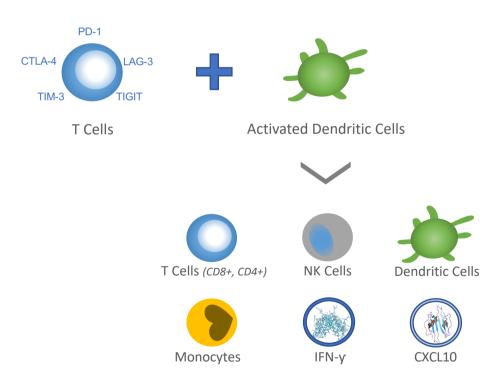
Many IO-IO combinations focus solely on T cells yet target different immune checkpoints on that cell.

Can generally only work well in "hot" tumour environments.



Adaptive and Innate Immunity

Immutep's complementary IO-IO approach focuses on targeting both T cells & antigen-presenting cells (APC), whose activation mediates multiple facets of the immune system to fight cancer. Can work well in "hot", "tepid", and "cold" tumour environments.



Substantial Commercial Opportunity



Encouraging Clinical Data with Chemo-free Efti + Anti-PD-(L)1 Combinations and Efti + Chemo

- **Doubling of Overall Response Rate** of KEYTRUDA® (anti-PD-1) monotherapy in 1st line non-small cell lung cancer (NSCLC) and in 2nd line head & neck cancer in all-comer PD-L1 Phase II trial
- Initial median Overall Survival of 25 months in 1st line NSCLC patients with >1% PD-L1 expression, above reported rates of anti-PD-1 monotherapy, IO-IO, and IO-chemo combinations
- Deep, durable responses in negative & low PD-L1 expressing patients with both KEYTRUDA® (anti-PD-1) and with BAVENCIO® (anti-PD-L1) across multiple indications
- Subcutaneous delivery of efti leads to systemic anti-tumor
 effect and strong synergies with standard-of-care chemotherapy
- Efti has favorable safety profile and is well-tolerated

Anti-PD-1**



OPDIVO (nivolumab)

~\$8.2 billion



Jemperli (dostarlimab-gxly) Injection 500 mg

~\$26 million

\$29.6 Billion in 2022 sales

Anti-PD-L1**





~\$3.9 billion ~\$2.8 billion



~\$914.6 million

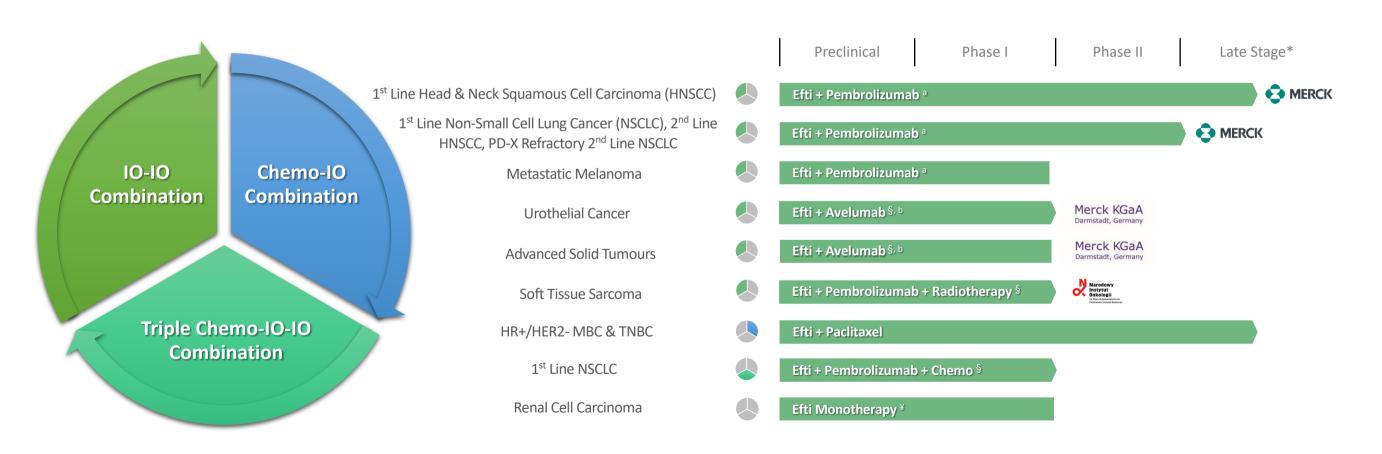
\$7.6 Billion

in 2022 sales

Pipeline in a Product



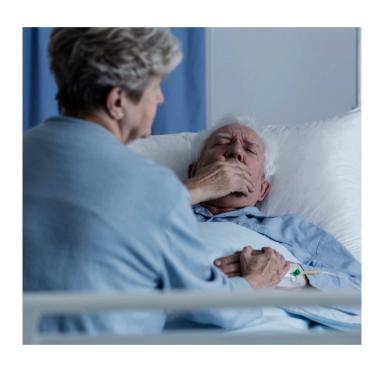
With clinical data showing broad potential to safely improve anti-PD-(L)1 therapies, standard-of-care chemotherapy, and/or both together, efti defines a "pipeline in a product"



Late-Stage Clinical Development of Efti







Late-Stage Clinical Development of Efti

Non-Small Cell Lung Cancer (NSCLC) – Planning Registrational Trial in 1st line NSCLC w efti + KEYTRUDA®

- Efti + KEYTRUDA® has FDA Fast Track designation in 1st line NSCLC
- 1.87 million NSCLC diagnoses per annum; highest cause of death among all cancers¹
- NSCLC drug market will nearly double to \$48 billion in 2031 and immune checkpoint inhibitors expected to generate \$26 billion²

Head & Neck Squamous Cell Carcinoma (HNSCC) – Ongoing Phase IIb evaluating efti + KEYTRUDA® in 1st line HNSCC

- Efti has FDA Fast Track designation in 1st line HNSCC
- 900K cases and >400K deaths per annum in HNSCC1
- Global head and neck cancer market size is projected to hit \$3.5 billion by 2025³

Metastatic Breast Cancer (MBC) including Triple Negative Breast Cancer (TNBC) – Initiated Phase II/III AIPAC-003 Trial

- HR+/HER2-neg/low MBC and TNBC patients which AIPAC-003 trial is targeting equates to ~78% of breast cancer cases⁴
- 2.3 million women diagnosed with breast cancer and 685,000 deaths globally in 2020⁵
- Metastatic breast cancer market to reach \$12.7 billion by 2024⁶

Earlier Stage Clinical Development of Efti

- Urothelial Cancer (Phase I), Soft Tissue Sarcoma (Phase II, investigator-initiated), and other solid tumor indications



Non-Small Cell Lung Cancer (NSCLC)



ASCO 2022 - Dr. Enriqueta Felip presenting 1L NSCLC data from TACTI-002/KN-798 in Oral Presentation



SITC 2022 – Dr. Wade lams presenting 1L NSCLC data from TACTI-002/KN-798 in Late Breaking Abstract Oral Presentation

Efti Uniquely Positioned in 1st line Non-Small Cell Lung Cancer

immutep LAG-3 IMMUNOTHERAPY

Large potential opportunity for efti with both chemo-free IO-IO and IO-IO-chemo combinations

1L NSCLC Patient Population by PD-L1 Tumor Proportion Score (TPS)¹

PD-1 expression levels have substantial impact on clinical outcomes for anti-PD-(L)1 therapies





















TPS >50% = ~30% population

- Best responders to anti-PD-(L)1 therapies
- PD-1 alone efficacious yet most effective in NSCLC patients with very high PD-L1 expression²
- More efficacious chemo-free options needed

TPS 1-49% = ~35% population

- Suboptimal responses to anti-PD-(L)1 therapies
- No chemo-free IO therapy approved for these patients in Europe
- PD-1 alone is 'NCCN Category 2B' therapy in US
- High unmet need for chemo-free IO therapies and to increase % of long-term survivors

TPS < 1% = ~35% population

- Negligible response to anti-PD-(L)1 therapies
- IO-chemo combo not always better than chemo alone (e.g., Empower Lung-3)
- High unmet need for better therapies for this patient population





Efti + anti-PD-(L)1 may offer 1L NSCLC patients with ≥1% PD-L1 TPS* (~65% population) an effective, chemo-free IO-IO therapy.

Efti has Fast track designation here & opportunity substantiated by compelling data from TACTI-002 Phase II.





Efti + anti-PD-(L)1 + chemo may establish a new gold standard for 1L NSCLC patients with TPS <1% and TPS 1-49% (~70% population).

Initial data from INSIGHT-003 Phase I evaluating this triple IO-IO-chemo combo encouraging.

Phase II All-Comer PD-L1 Trial Evaluating Efti + Pembrolizumab (KEYTRUDA®) in 1L NSCLC



TACTI-002/KEYNOTE-798: 1st Line Non-Small Cell Lung Cancer (Part A)

TACTI-002: Two ACTive Immunotherapeutics in NSCLC & HNSCC **UNSELECTED FOR PD-L1** In collaboration with **MERCK** 1ST LINE MET. NSCLC **PART B** COMBINED IMMUNOTHERAPY ORR. PFS. OS. PK. biomarker. 2ND LINE MET. NSCLC. safety and tolerability REFRACTORY TO PD-1/PD-L1 TARGETING THERAPY Sites in Europe / US / Australia Recruitment Status Report PART C 2ND LINE MET. HNSCC AFTER ✓ Fully approved in all countries PLATINUM THERAPY ✓ Up to 189 patients in three indications ✓ Part A (N=114) completed 30 mg efti s.c. ✓ Part B (N=36) completed 200 mg pembrolizumab (Keytruda®) i.v. ✓ Part C (N=39) completed

Baseline characteristics	Part A (N=114)		
Age, median (range), years		67 (44-8	5)
Sex, n (%)	Female / Male	30 (26.3) / 84 (73.7)	
ECOG PS score, n (%)	0/1	43 (37.7) / 71	(62.3)
Smoking status, n (%)	Current or Ex-smoker / Non-smoker	108 (94.7) / 6 (5.3)	
Histology, n (%)	Squamous / Non-squamous / Unknown	40 (35.1) / 72 (63.2) / 2 (1.8)	
Metastatic disease, n (%)	Yes / No	113 (99.1) / 1 (0.9)	
PD-L1 expression TPS, n ¹ (%)	< 1% 1-49% ≥ 50%	32 (35.6) 38 (42.2)	Central + local 37 (34.3) 42 (38.9) 29 (26.9)
Previous therapy, n (%)	Radiotherapy Surgery Systemic therapy for non-metastatic disease	38 (33.3) 23 (20.2) 26 (22.8)	

All-comer trial for 1L NSCLC patients with all levels of PD-L1 expression

- ~75% of patients have PD-L1 TPS of <50%
- ~34% of patients have PD-L1 TPS of <1%

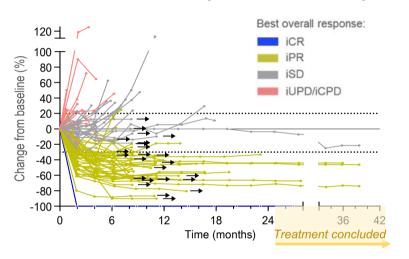
Deep and Durable Responses Translating Into Overall Survival

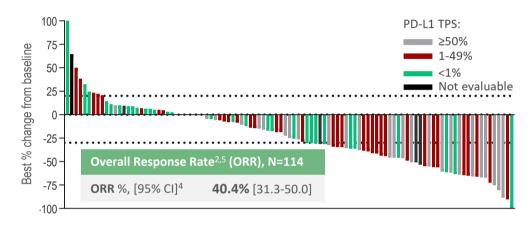


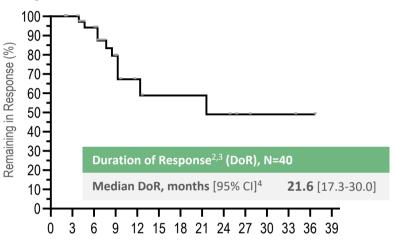
TACTI-002/KEYNOTE-798: 1st Line Non-Small Cell Lung Cancer (Part A)

PD-L1 TPS 0 – 100%

Deep and durable responses across all PD-L1 expression levels¹; interim median Duration of Response of 21.6 months

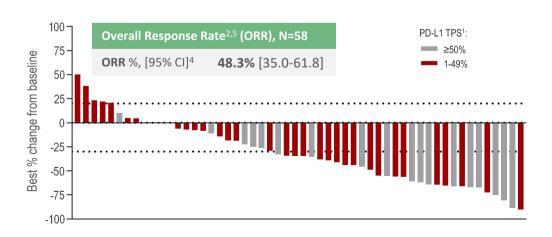


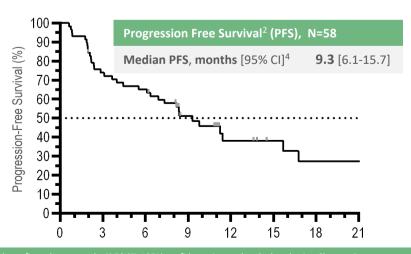




PD-L1 TPS ≥1% (FDA Fast Track designation)







Safety





TACTI-002/KEYNOTE-798: 1st Line Non-Small Cell Lung Cancer (Part A)

General overview of AEs

Safety parameter ¹	n (%)
Adverse reactions with fatal outcome ²	3 (2.6)
Serious adverse reactions ²	12 (10.5)
Grade ≥3 adverse reactions ²	14 (12.3)
Adverse reactions leading to discontinuation of treatment ²	11 (9.6)

¹AEs rated according to NCI CTCAE (v5.0)

Frequent AEs (incidence ≥10%) related to study treatment²

Adverse event (PT) ¹	Any grade N (%)	Grade 3 N (%)	Grade 4/5 N (%)
Pruritus	23 (20.2)	N/A	N/A
Asthenia	22 (19.3)	N/A	N/A
Rash	15 (13.2)	N/A	N/A
Diarrhoea	12 (10.5)	1 (0.9)	N/A
Fatigue	12 (10.5)	1 (0.9)	N/A

¹ AEs rated according to NCI CTCAE (v5.0)

- Treatment with efti plus pembrolizumab is safe and very well-tolerated
- Rate of discontinuation due to drug related adverse events less than 10% and comparable to pembrolizumab monotherapy*

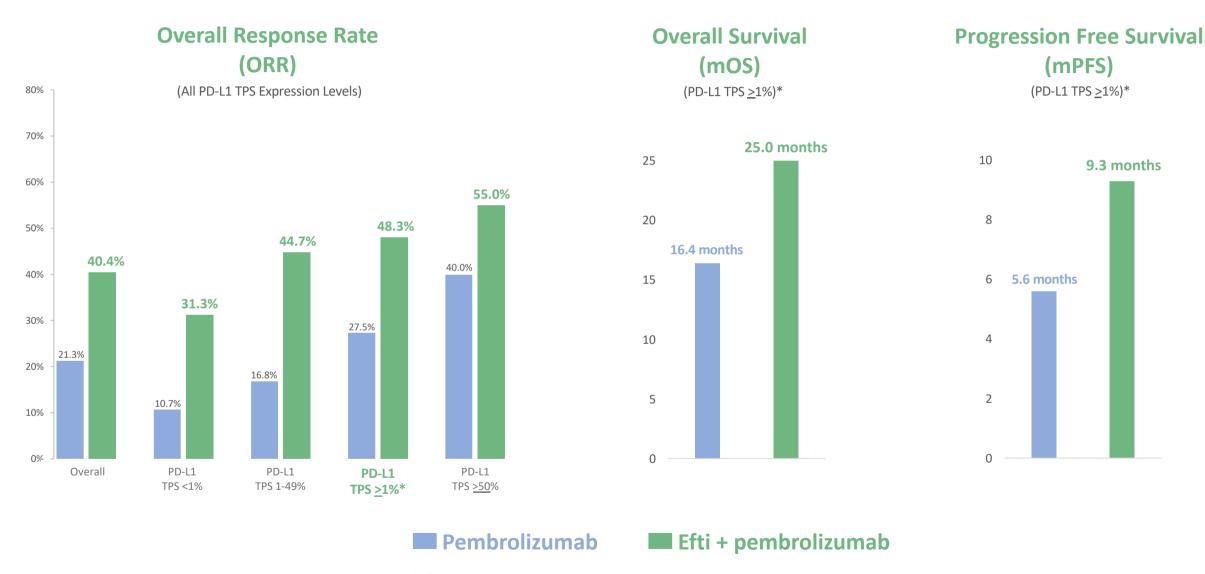
²relationship to efti and/or pembrolizumab could not be ruled out

² relationship to efti and/or pembrolizumab could not be ruled out

Benchmarking against Pembrolizumab Monotherapy

Robust Overall Response Rates, Overall Survival, and Progression-Free Survival





^{*}Efti + pembrolizumab has Fast Track Designation in ≥1% TPS in 1L NSCLC

Benchmarking against Standard-of-Care in 1L NSCLC



Efficacy & safety of efti + pembro vs. IO, IO-chemo, and IO-IO-chemo in patients with PD-L1 TPS ≥1%

Therapy	Response Rate	Progression Free Survival	Duration of Response ²	TRAEs Leading to Discontinuation ³	Median Overall Survival ⁴
Efti + Pembro	48.3%	9.3 months	21.6 months	9.6%	25.0 months
Pembro + Doublet Chemo (NSQ)	55.8%	10.4 months	12.4 months	20.5%	23.3 months
Pembro + Doublet Chemo (SQ)	59.1%	8.2 months	8.8 months	16.8%	18.9 months
lpi + Nivo¹	35.9%	5.1 months	19.6 months	18.1%	17.1 months
Pembro monotherapy ¹	27.3%	5.6 months	26.5 months ²	9.9%	16.4 months
Ipi + Nivo + 2 cycles of Doublet Chemo	43.3%	7.0 months	11.3 months	22.1%	15.8 months

NSQ = Non-squamous; SQ = Squamous

Efti + Pembro in 1L NSCLC, PD-L1 TPS ≥1% population compared to other published data:

- strong ORR, PFS, DoR and longer OS
- excellent safety profile comparable to pembrolizumab monotherapy

IO-IO-Chemo Combination Trial (INSIGHT-003) in 1L NSCLC



Promising initial efficacy & safety from first-in-human study evaluating efti + anti-PD-1 + doublet chemo¹

INSIGHT-003: Phase I in 1st line Non-Small Cell Lung Cancer

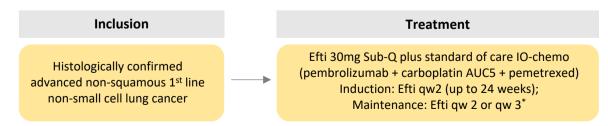
INSIGHT-003 - Third arm (Stratum C) of investigator-initiated study in metastatic 1st Line NSCLC patients evaluating triple combination therapy of efti in conjunction with doublet chemo & anti-PD-1 therapy





- Promising 67% overall response rate (ORR) and 91% disease control rate (DCR) in evaluable 1st line non-squamous NSCLC patients (N=21) despite 81% of patients having PD-L1 TPS <50%.¹
- The triple combination's 65% ORR in patients with PD-L1 TPS <50% (N=17) compares favourably to 40.8% ORR in patients with PD-L1 TPS <50% reported in a registrational trial of anti-PD-1 & doublet chemo.²
- Triple combination well tolerated & appears to be safe. Trial has been expanded to 50 patients and will have additional data updates in H2 CY2023.

INSIGHT-003 Study Design – Stratum C





Head & Neck Cancer and Metastatic Breast Cancer

Efti + Pembro in 2nd Line Head & Neck Squamous Cell Carcinoma



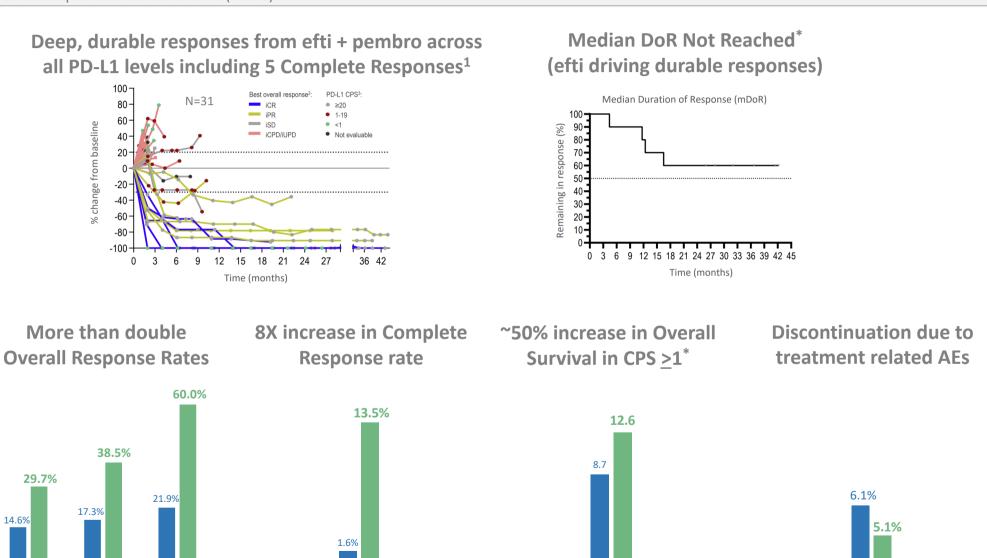
Strong, long-lasting efficacy and favorable safety; positive benchmarking to pembro monotherapy

TACTI-002/KEYNOTE-798: 2nd Line Head & Neck Squamous Cell Carcinoma (Part C)

Overall

CPS>1

CPS > 20



Time (months)

Efti + pembro

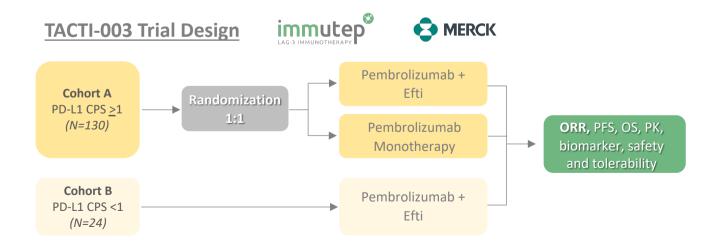
Pembro monotherapy#

TACTI-003 Phase IIb in 1st Line Head & Neck Squamous Cell Carcinoma (Fast Track Designation)



TACTI-003 - Randomized Phase IIb Trial in 1L HNSCC patients utilizing efti + pembrolizumab versus pembrolizumab (KEYTRUDA®) monotherapy*

- Efti has FDA Fast Track designation in 1L HNSCC based on strength of data from TACTI-002 trial in 2L HNSCC
- TACTI-003 has multiple shots on goal: CPS ≥1, CPS 1-19, CPS ≥20, and CPS <1
 - In Cohort A (N=130), trial design includes 1L HNSCC patients whose tumours express PD-L1 (CPS ≥1) with CPS 1-19 and CPS ≥20 used as stratification factors
 - o In Cohort B (N=24), patients with negative PD-L1 expression (CPS <1) only receive efti plus KEYTRUDA® because anti-PD-1 monotherapy is ineffective in this patient population
- ~91% enrolled and expect top line results in 2H of CY2023**



Efti + Chemo in Randomized Phase IIb in Metastatic Breast Cancer



Efti drove broad anti-cancer immune response & synergies with chemo led to encouraging efficacy/safety

AIPAC (Active Immunotherapy and PAClitaxel) Phase IIb in Metastatic Breast Cancer (MBC) – Strong results from double blind, 1:1 randomized Phase IIb study with 226 patients testing efti + paclitaxel (N=114) against paclitaxel + placebo (N=113)

Positive trends in ORR, DCR and OS

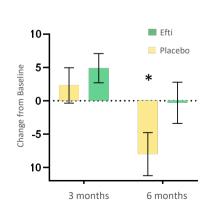
	Efti + paclitaxel	Paclitaxel	Differential	
Overall Response Rate	48.3%	38.4%	+9.9%	
Disease Control Rate	85.1%	75.9%	+9.2%	
Overall Survival	20.4 months	17.5 months	+2.9 months	

Significant OS improvement in 3 pre-specified subgroups

Pre-specified Subgroups	Median Overall Survival	Hazard Ratio	P-value
Low Monocytes	+19.6 months	HR 0.44	p=0.008
Under 65 Years	+7.5 months	HR 0.66	p=0.017
Luminal B	+4.2 months	HR 0.67	p=0.049

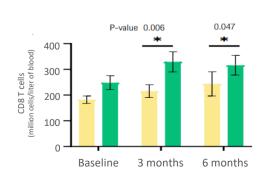
Sustained Quality of Life (QoL)

vs significant decline in placebo grp*

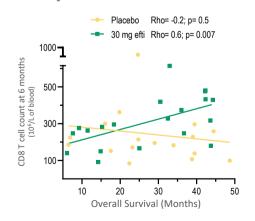


CD8⁺ T cell count increased significantly

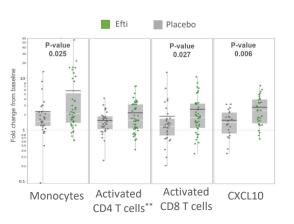
Blood samples taken before dosing ensuring only minimal residual effect was measured



Significant correlation between OS and Cytotoxic CD8⁺ T cell count



Significant increase in anti-tumor cells and biomarkers



AIPAC-003 Phase II/III Trial Underway in Metastatic Breast Cancer immul



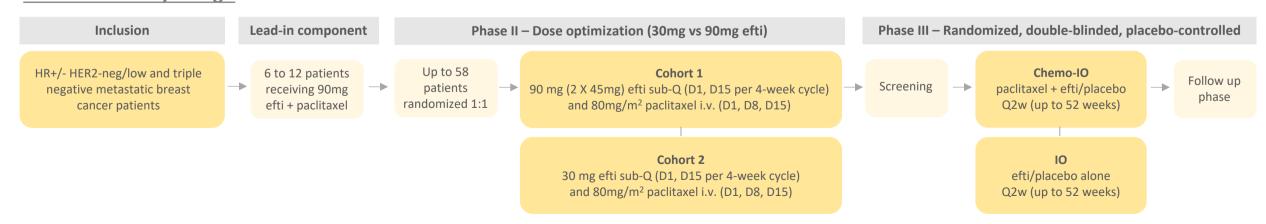
AIPAC-003: Active Immunotherapy (Eftilagimod Alpha) and PAClitaxel



AIPAC-003: Integrated Phase II/III trial in Metastatic Breast Cancer (MBC)

- Trial design provides risk-balanced approach and incorporates feedback from FDA & EMA, including expansion of HR+/- HER2-neg/low and triple negative MBC patient population that together account for ~78% of breast cancer cases¹
- Unlike previous trial that administered efti + paclitaxel on different days and ceased paclitaxel at six months, AIPAC-003 patients will receive both on same day and efti + paclitaxel treatment can continue until disease progression.
- First patient enrolled May 2023*

AIPAC-003 Study Design





Additional Oncology Indications

Efti + Anti-PD-L1 (Avelumab) in Metastatic Urothelial Cancer



INSIGHT-005 – Phase I study evaluating efti + avelumab (anti-PD-L1) in metastatic urothelial cancer*

- Investigator-initiated study evaluating safety & efficacy of efti and avelumab (BAVENCIO®) in 30 patients
- Jointly funded by Immutep & Merck KGaA, Darmstadt, Germany
- Expansion into urothelial cancer builds on core strategy to increase target indications to exploit efti's full potential
- In INSIGHT-004 trial, efti + BAVENCIO® was safe and showed promising signals of efficacy with a PR rate of 42% (5/12)** in patients with various advanced solid tumors*. Deep & durable responses seen in patients with low/no PD-L1 expression and in non-immunogenic tumors.
- First patient expected to be enrolled & dosed in H2 CY2023







Soft Tissue Sarcoma: Orphan Disease with High Unmet Need





EFTISARC-NEO: Open-label Triple Combination (Efti+Radiotherapy+Anti-PD-1) Phase II trial in Soft Tissue Sarcoma



- Novel triple combination of efti with radiotherapy and anti-PD-1 therapy KEYTRUDA® (pembrolizumab) has potential
 to generate a robust anti-tumor immune response
- First time efti will be studied in neoadjuvant, non-metastatic cancer setting, which importantly will provide access to tumor tissue prior to and after treatment, where the impact of this novel triple combination on the tumor microenvironment (TME) can be assessed
- Cost-efficient Phase II study predominantly funded by an approved grant from the Polish government
- First patient dosed in July 2023 and up to 40 patients will be enrolled

"We are excited to begin this chemotherapy-free study combining radiotherapy with the novel immunotherapy, eftilagimod alpha, and pembrolizumab. Given efti's synergistic effects with immune checkpoint inhibitors and its ability to arm, activate, and proliferate cytotoxic T cells with radiotherapy-induced cancer antigens, this combination has a strong foundation to drive effective immunity against soft tissue sarcoma, a rare and aggressive disease in immense need of new therapeutic approaches."

- Dr. Paweł Sobczuk, Maria Skłodowska-Curie National Research Institute of Oncology



Preclinical Programs

Novel Small Molecule Anti-LAG-3 Collaboration







Collaboration established in 2019 combining Immutep's deep LAG-3 biology experience and expertise of world leading scientists at Cardiff University

"We are delighted to collaborate with Immutep on this important project to develop a **small molecule anti-LAG-3** treatment for cancer patients that could offer the **convenience of a tablet or capsule at a fraction of the cost of existing anti-LAG-3 candidates."**

Professor Andrew Godkin, Theme Lead in Immunology in the College of Biomedical Life Sciences, Cardiff University*

Targeting the Causes of Autoimmune Diseases





Current Opinion in Immunology

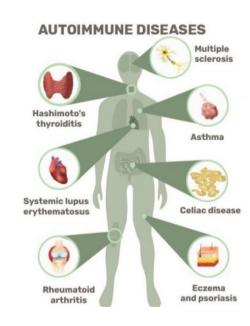
Volume 67, December 2020, Pages 1-9



Inhibitory receptor agonists: the future of autoimmune disease therapeutics?

Stephanie Grebinoski 12, Dario AA Vignali 1 🖂

Central and peripheral tolerance both contribute to protection against autoimmunity. The pathogenesis of autoimmunity, however, can result from critical deficits or limitations in peripheral and/or central tolerance mechanisms, presenting an opportunity for therapeutic intervention. Recent advances highlight the substantial impact of inhibitory receptors (IRs), which mediate peripheral tolerance, in autoimmunity. Deletion and blockade studies in mice, IR disruption in humans, and correlation with positive disease outcomes all highlight potential clinical benefits of enhancing IR signaling (agonism)—specifically CTLA4, PD1, LAG3, TIM3 and TIGIT—to treat autoimmune disease. Although critical questions remain, IR agonists represent an unappreciated and untapped opportunity for the treatment of autoimmune and inflammatory diseases.



Present Approaches Target Symptoms of Autoimmune Diseases

Corticoids, methotrexate, TNF & interleukin inhibitors (anti-TNF- α ,-IL-6, -IL-17, -IL-23 mAbs)



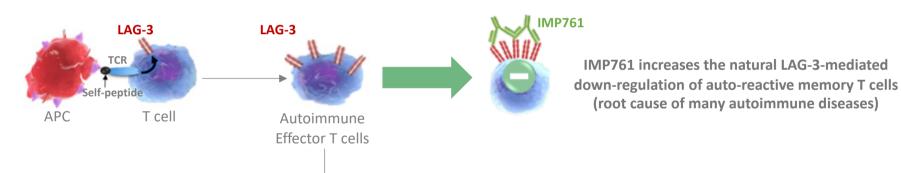
Future Approaches Target Causes of Autoimmune Diseases

Targeting autoimmune memory T cells with LAG-3 antibodies

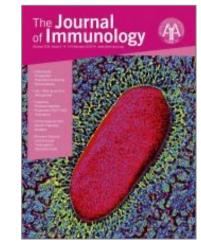
IMP761: First-in-Class LAG-3 Agonist is Potential Game-Changer



As the world's first immunosuppressive agonist antibody to LAG-3 acting upstream on activated T cells, IMP761 targets the root cause of many autoimmune diseases and represents a potential game-changer in the treatment landscape. Expect to enter clinic by mid-2024.



Epigenetic reprogramming leads to T cell helper (Th) induced AI diseases: Th1 (e.g., Rheumatoid Arthritis), Th2 (e.g., Allergic Asthma), Th17 (e.g., IBS), etc.



A LAG-3-Specific Agonist
Antibody for the Treatment
of T Cell-Induced
Autoimmune Diseases*

IMP761 significantly inhibits T cell infiltration of an antigen-specific intradermal reaction in vivo in an Agspecific delayed-type hypersensitivity (DTH) model in non-human primate study.



Juvenile idiopathic arthritis: LAG-3 is a central immune receptor in children with oligoarticular subtypes**

Pre-clinical testing of IMP761 in oligoarticular juvenile idiopathic arthritis model showed decreased secretion of mostly all measured cytokines (IL-10, IL-12, IL-18, IL-4, IL-6 = p-value < 0.01)

Board and Management





Dr Russel Howard Non-Executive Chairman

Dr Howard has over 45 years' experience in Australian & US biotech sectors, including the Walter & Eliza Hall Institute. Schering-Plough. GSK and as Maxygen CEO. He currently is Chairman of NeuClone Pty Ltd and a former Director of Circadian Technologies Ltd.



Florian Vogl, MD, PhD **Chief Medical Officer**

Dr Vogl is a board-certified MD and has over 13 years in the biopharmaceutical industry with extensive clinical development expertise in the field of oncology in the Europe and the US through roles at Cellestia Biotech, Rainier Therapeutics, Novartis and Amgen.



Pete Mevers Deputy Chairman

Mr Mevers spent 18 years in health care investment banking before on CFO roles in biotechnology, including Eagle Pharmaceuticals. Inc. TetraLogic Pharmaceuticals Corp, and Motif BioSciences Inc. Based in New York, he is currently CFO of Slayback Pharma.



Christian Mueller VP, Strategic Development

Mr Mueller has +10 years of clinical development experience in oncology, including at Medical Enzymes AG focusing on therapeutic enzymes for cancer treatment and at Ganymed Pharmaceuticals AG developing ideal mAbs in immune oncology.



Lis Bovce **Non-Executive Director**

Lis Bovce has over 30 years' experience as a corporate lawyer and is a partner at Piper Alderman. She has a strong focus on Life Sciences and Healthcare, and is deputy chair of AusBiotech's AusMedtech Advisory Group, as well as a member of AusBiotech's State Committee for NSW.



Claudia Jacoby. PhD **Director of Manufacturing**

Dr Jacoby has +15 years of biotech industry experience with extensive skills in protein expression and purification as well as in analytical and preclinical development from her various positions at pre-clinical and clinical-stage pharmaceutical companies.



Marc Voigt Executive Director & CEO

Mr Voigt has over 25 years of experience in the corporate and biotechnology sectors, including Deutsche Life Science. Revotar Biopharmaceuticals AG. Medical Enzymes AG and Allianz. He was appointed as CEO and Executive Director in July 2014. Mr Voigt is based in Berlin.



Prof. Frédéric Triebel. MD. PhD **Executive Director, CSO**

Prof Triebel discovered the LAG-3 gene while working at the Gustave Roussy Institute and is a pioneer in the LAG-3 field of immunooncology. He was the founder of Immutep S.A., which was acquired by the Company in 2014. Based in Paris, he holds a Ph.D. in immunology (Paris University).



Deanne Miller COO. General Counsel

Ms Miller has broad commercial experience having held legal, investment banking, regulatory compliance and tax advisory positions at RBC Investor Services. Westpac Group, Macquarie Group, the Australian Securities and Investment Commission, and KPMG.



James Flinn, PhD **IP & Innovation Director**

Dr Flinn is an Australian Patent Attorney with +20 years of professional experience in building and managing IP portfolios. including GSK, two US-based pharmaceutical companies, a major Australian retailer, and a Melbourne Patent Attorney firm.



David Fang Finance Director

Joining Immutep in 2018. Mr Fang has over 12 years of accounting and auditing experience across various industries including biotechnology, manufacturing and healthcare including Group Finance Manager of Kazia Therapeutics Limited and auditor at PWC.



Chrystelle Brignone, PhD **Preclinical Development Director**

Dr Brignone joined Immutep in 2004 and has more than 20 years' experience in the field of Immunology and Immune monitoring of clinical studies. As Principal Scientist since 2014, she is leading the R&D in the Immutep laboratory in France.

Strong Balance Sheet & Significant Milestones Ahead in 2023



- ✓ Strong cash position of A\$123.4m as of 30 June 2023 post A\$80m capital raise providing cash runway to early CY2026*
- ✓ Initiated AIPAC-003 PII/PIII trial of efti + chemo in MBC
- ✓ Commenced cost-efficient investigator-initiated chemo-free EFTISARC-NEO PII study in soft tissue sarcoma
- ✓ Presented final data from TACTI-002 (Part B) in anti-PD-(L)1 refractory 2L NSCLC
- ✓ Presented final data from TACTI-002 (Part C) in 2L HNSCC
- ✓ Received regulatory approval for initiation of jointly-funded INSIGHT-005 with Merck KGaA, Darmstadt, Germany

- Data updates, including Overall Survival, from TACTI-002 PII trial in 1L NSCLC at upcoming ESMO Congress 2023
- Complete enrolment (~91% enrolled) and expect top-line results from randomised TACTI-003 Phase IIb trial*
- Data updates from triple combination INSIGHT-003 PI trial
 with efti + anti-PD-1 + chemotherapy in 1st line NSCLC
- Updates from investigator-initiated INSIGHT-005 and EFTISARC-NEO studies
- IND-enabling studies of IMP761
- Updates from partnered programs
- Updates regarding expansion of clinical trial pipeline



Thank You