

Unlocking the power of the adaptive & innate immune system with LAG-3 therapeutics.

Corporate Presentation – December 2022 (ASX: IMM, NASDAQ: IMMP)



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Pioneering LAG-3 Therapeutics

Immutep is a a clinical-stage biotechnology company developing novel LAG-3 immunotherapies that address significant market opportunities in oncology and autoimmune disease.

Compelling Clinical Data

Lead candidate eftilagimod alpha (efti) has shown compelling efficacy and favourable safety in multiple solid tumours. Strength of clinical data, including doubling of overall response rates to anti-PD-1 monotherapy, led to oral presentations at the prestigious ASCO & SITC conferences in 2022.

Collaborations with Industry Leaders









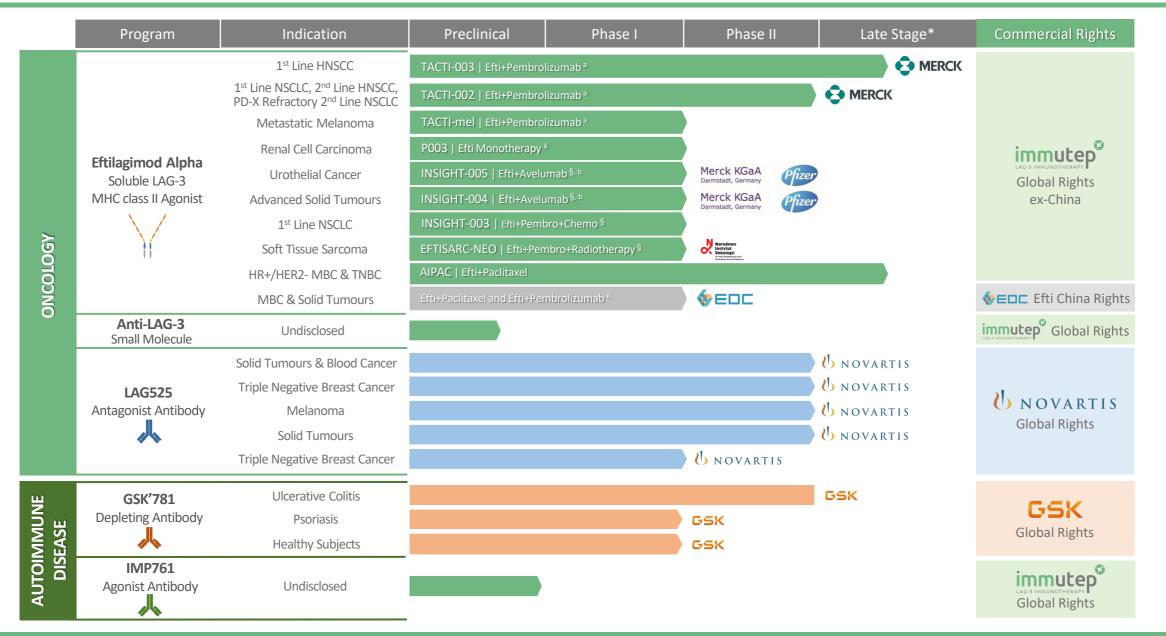


LabCorp

WEDC

Immutep LAG-3 Pipeline





Information in pipeline chart current as of December 2022; For EOC's China rights, Immutep may receive undisclosed milestones plus royalties; <u>LAG525 - ClinicalTrials.gov</u> (for Novartis' global rights, Immutep may receive undisclosed milestones plus royalties); <u>SK2831781 - ClinicalTrials.gov</u> (for GSK's global rights, Immutep may receive undisclosed milestones plus royalties); <u>*</u> Late stage refers to Phase IIb clinical trials; # Conducted by EOC in China. Immutep has no control over either the trials. <u>*</u> First-in-man dose-escalation study of Efti monotherapy with doses ranging from 50µg, 250µg, 1.25mg, 6.25mg & 30mg given sub-Q every 2 weeks for 12 weeks in total. § Investigator & therefore Immutep has no control over this clinical trial; ^a In combination with KEYTRUDA^{*}, ^b In combination with BAVENCIO^{*}.



Regulatory approval of immunotherapies (IO) targeting CTLA-4, PD-1, and now LAG-3^{*} immune checkpoints (IC) highlight the immune system's powerful role in fighting cancer. Unfortunately, up to 80% of patients do not respond to IC monotherapy, driving a need for new approaches to achieve superior clinical outcomes.



Anti-CTLA-4 approved 2011; >**\$2 billion** sales in 2021



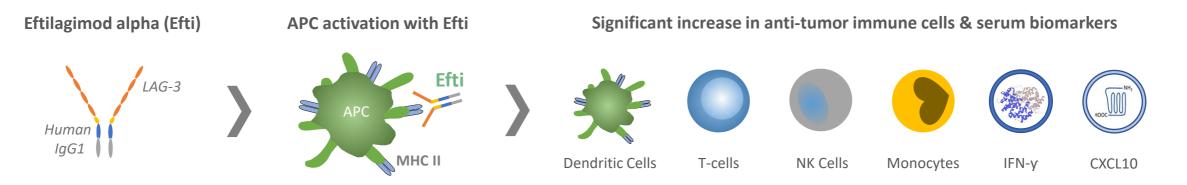
Anti-PD-1's approved 2014; **\$24 billion** combined sales in 2021



Anti-LAG-3 combined with anti-PD-1 approved 2022; BMS est. **>\$4 billion** sales in 2029 **

Immutep has multiple collaborations with large pharma and is well-positioned to take a leading role in IO approaches that safely deliver on the promise of increased efficacy & durability for cancer patients.

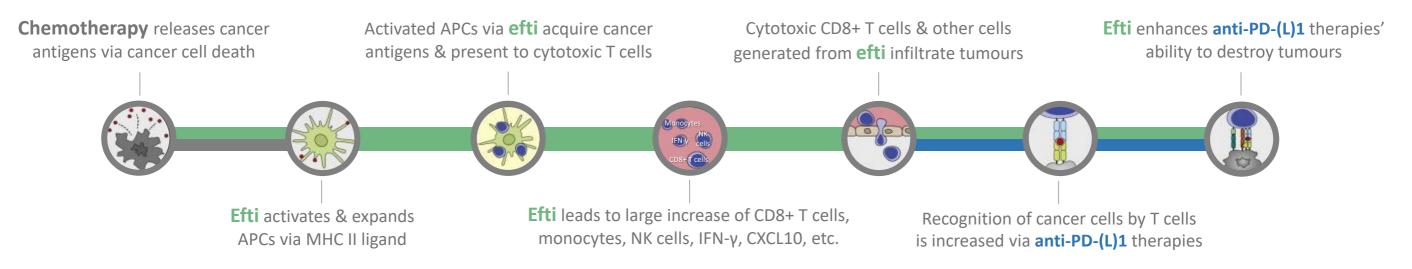




- Efti, Immutep's first-in-class soluble LAG-3 antigen-presenting cell (APC) agonist, capitalizes on LAG-3's ability to drive the adaptive & innate immune systems against cancer
- In multiple clinical trials, including monotherapy and combination trials with chemotherapy & anti-PD-(L)1 therapy, efti's unique activation of APCs through a subset of MHC II ligands has driven statistically-significant increases of various anti-tumor cells as well as IFN-y/CXCL10 serum biomarkers for systemic Th1 response*
- Efti has generated strong clinical results with anti-PD-(L)1 therapy and chemotherapy with a favorable safety profile, and enhances clinical activity of anti-PD-(L)1 therapy across the PD-L1 spectrum, including low & negative PD-L1 tumors

* ¹ First-line chemoimmunotherapy in metastatic breast carcinoma: paclitaxel and IMP321 (LAG-3Ig) enhances immune responses and antitumor activity; *Journal Transl Med. 2010 Jul 23;8:71*; ² Biomarker and multivariate analyses results from AIPAC: A phase IIb study comparing eftilagimod alpha (a soluble LAG-3 protein) to placebo in combination with weekly paclitaxel in HR + HER2 - metastatic breast carcinoma – ESMO 2022. ³ SITC 2022 Presentation: Data cut-off: July 1, 2022; Note: Plasma levels of IFN-g and CXCL10/IP10 are shown as mean of % change to baseline. ⁴ Brignone et al. A phase I pharmacokinetic and biological correlative study of IMP321, a novel MHC class II agonist, in patients with advanced renal cell carcinoma. <u>*Clin. Cancer Res.*, 15 (2009)</u>





A Ine Journal of Immunology

A Soluble Form of Lymphocyte Activation Gene-3 (IMP321/Efti) Induces Activation of a Large Range of Human Effector Cytotoxic Cells

Chrystelle Brignone, Caroline Grygar, Manon Marcu, Knut Schäkel and Frédéric Triebel The Journal of Immunology September 15, 2007, 179 (6) 4202-4211; DOI: 10.4049/jimmunol.179.6.4202

nature medicine

A potential biomarker for anti-PD-1

immunotherapy - A recent study identifies an immune cell type known as classical monocytes in the peripheral blood as a potential biomarker for response to anti-PD-1 immune checkpoint therapy in metastatic melanoma. Goswami, S., Basu, S. & Sharma, P. Nat Med 24, 123–124 (2018). https://doi.org/10.1038/nm.4489

Science Immunology

CXCL9 and CXCL10 bring the heat to tumors Robin Reschke, Thomas F. Gajewski SCIENCE IMMUNOLOGY - 22 Jul 2022, Vol 7, Issue 73 DOI: 10.1126/sciimmunol.abq6509

Journal for ImmunoTherapy of Cancer

Monocyte-derived APCs are central to the response of PD1 checkpoint blockade & provide a therapeutic target for

combination therapy Schetters STT, Rodriguez E, Kruijssen LJW, et al Journal for ImmunoTherapy of Cancer 2020;8:e000588. doi: 10.1136/jitc-2020-000588



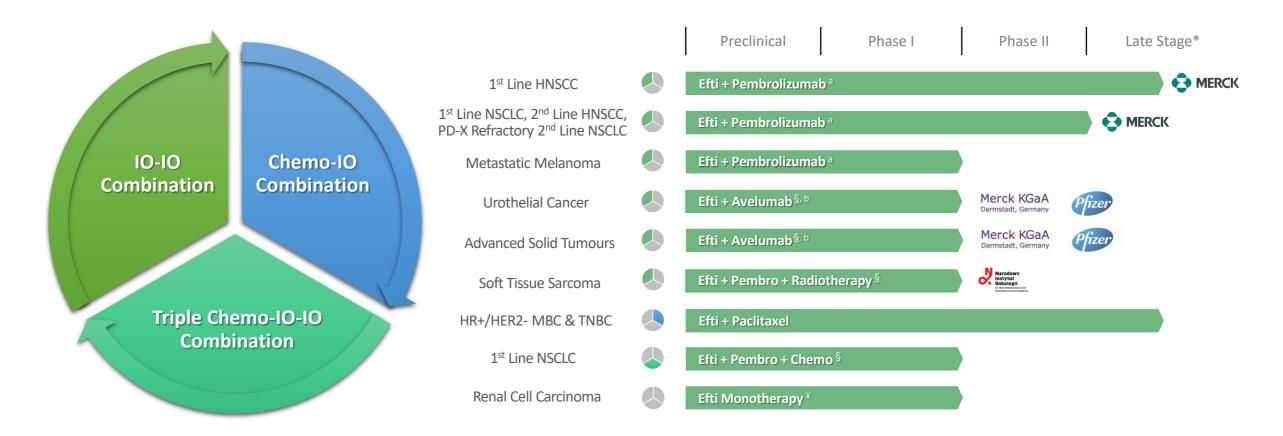
Efti has doubled overall response rates of anti-PD-1 therapy (KEYTRUDA[®]), and also has shown encouraging signals of efficacy with anti-PD-L1 therapy (BAVENCIO[®]) and standard-of-care (SOC) chemotherapy. Its promise to safely improve outcomes across the entire PD-L1 spectrum leads to significant commercial potential.

Anti-PD-1 Sales in 2021 \$25.2 Billion

Anti-PD-L1 Sales in 2021 \$6.3 Billion Chemotherapy remains **SOC** in multiple solid tumor indications







Information in pipeline chart current as of December 2022. * Late stage refers to Phase IIb clinical trials or more clinical trials. § Investigator Initiated Trials controlled by lead investigator and therefore Immutep has no control over this clinical trial. ^a In combination with KEYTRUDA^b In combination with BAVENCIO. ¥ First-in-man dose-escalation study of Efti monotherapy with doses ranging from 50µg, 250µg, 1.25mg & 30mg given sub-Q every 2 weeks for 12 weeks in total.

TACTI-002 Phase II Trial: Efti + Pembrolizumab Combination in 1st Line Non-Small Cell Lung Cancer (1L NSCLC)

*Dr. Wade lams presenting data from TACTI-002/KEYNOTE-798 in Late Breaking Abstract Oral Presentation at SITC 2022

*Dr. Enriqueta Felip presenting data from TACTI-002/KEYNOTE-798 in Oral Presentation at ASCO 2022

Treatment Options in 1L NSCLC Limited by Durability & Tolerability immutep



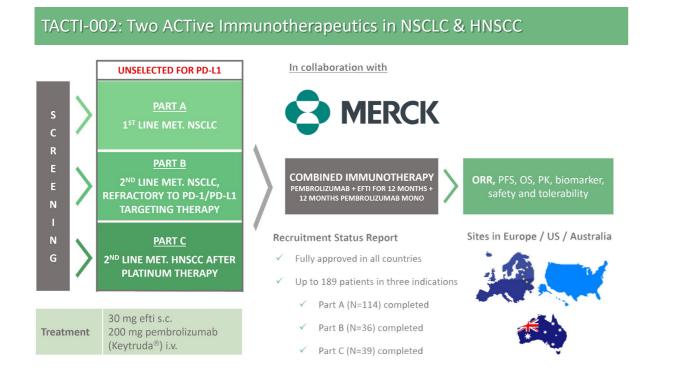
1L NSCLC Epidemiology^{1,2}

- 1.87 million NSCLC diagnoses per annum
- NSCLC is the highest cause of death among all cancers
- Immutep is focused on improving clinical responses for the 1.3 million patients that develop metastatic disease & are eligible to receive anti-PD-(L)1 therapy

Unmet need in 1L NSCLC as median Overall Survival still <24 months for most patients Patients with PD-L1 status <50%, ~70% of the patient population, have poorer responses to checkpoint therapy Checkpoint & chemo combinations have **limited Duration of Response** & high discontinuation rates due to toxicity



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



Efti + pembrolizumab received Fast Track Designation from FDA in \geq 1% TPS in 1st Line NSCLC in October 2022

Baseline characteristics for PD-L1 All Comer Trial		Part A (N=114)	
Age, median (range), years		67 (4	4-85)
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%	Central only 32 (35.6) 38 (42.2) 20 (22.2)	. ,
Previous therapy, n (%)	Radiotherapy Surgery Systemic therapy for non-metastatic disease	38 (3 23 (2 26 (2	20.2)

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%
- 99.1% had metastatic disease at study entry

Compelling Clinical Results; Primary Objective Achieved

TACTI-002/KEYNOTE-798: 1L NSCLC (Part A)

TACTI-002 Phase II (1L NSCLC) Clinical Data and Key Takeaways

- 40.4% overall response rate (ORR); primary objective achieved
- Robust interim median Duration of Response: 21.6 months
- Promising interim median Progression Free Survival (PFS):
 6.6 months overall & 9.3 months PFS in TPS >1%
- Efti + pembro shows superior ORR/PFS across all PD-L1 levels versus pembrolizumab monotherapy
- Efti + pembro was well tolerated and the combination's safety profile is similar to pembrolizumab monotherapy
- Efti has potential to substantially increase the number of patients who respond to anti-PD-1 therapy given strong responses in patients with <50% PD-L1 TPS that represent ~70% of the 1L NSCLC patient population

SITC 2022 Late-Breaking Abstract Oral Presentation



Combining the antigen-presenting cell activator eftilagimod alpha (soluble LAG-3) and pembrolizumab: efficacy results from the 1st line non-small cell lung cancer cohort of TACTI-002 (Phase II)

lams W¹; Felip E²; Majem M³; Doger B⁴; Clay T⁵; Carcereny E⁶; Bondarenko I⁷; Peguero J⁸; Cobo Dols M⁹; Forster M¹⁰; Ursol G¹¹; Kalinka E¹²; Garcia Ledo G¹³; Vila Martinez L¹⁴; Krebs M.G¹⁵; Campos Balea B¹⁶; Kefas J¹⁷; company authors

¹Jams: Vanderbilt Ingram Cancer Center Division of Hematology/Oncology, Nashville, Tennessee, United States; ²Felip: Vall d'Hebron University Hospital, Barcelona, Spain; ³Majem: Hospital de la Santa Creu i Sant Pau, Barcelona, Spain; ⁴Doger: Fundación Jiménez Diaz, Madrid, Spain; ⁵Clay: St John of God Subiaco Hospital, Perth, Australia; ⁶Carcereny: Catalan Institute of Oncology Badalona-Hospital Germans Trias i Pujol, Badalona, Spain; ⁷Bondarenko: City Clinical Hospital № 4" of Dnipro Regional Council, Dnipro, Ukraine; ⁸Peguero: Oncology Consultants, P.A., Houston, USA; ⁹Cobo-Dols: Hospital Regional Universitario de Málaga, Malaga, Spain; ¹⁰Forster: UCL Cancer Institute / University College London Hospital SHS Foundation, London, UK; ¹¹Ursol: St. Luke's Hospital - Medical and Diagnostic Center "Acinus", Kropyvnytskyi, Ukraine; ¹²Ralinka: Instytut Centrum Zdrowia Matki Polki, Lodz, Poland; ¹³Garcia Ledo: HM Universitario Sanchinarro, Madrid, Spain; ¹⁴Vila Martinez: Parc Tauli Sabadell Hospital Universitari, Barcelona, Spain; ¹⁷Kefas: University College London Hospitals NHS Frust, London, UK; Foundation Trust, Manchester, UK; ¹⁶Campos Balea: Hospital Lucus Augusti, Lugo, Spain; ¹⁷Kefas: University College London Hospitals NHS Trust, London, United Kingdom



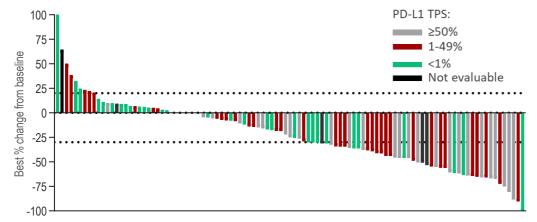


Deep and Durable Responses

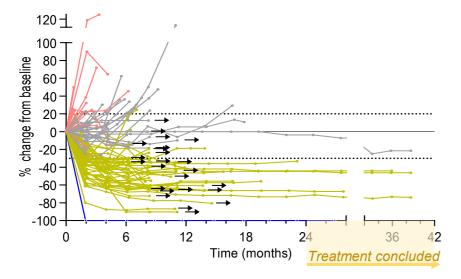


TACTI-002/KEYNOTE-798: 1L NSCLC (Part A)

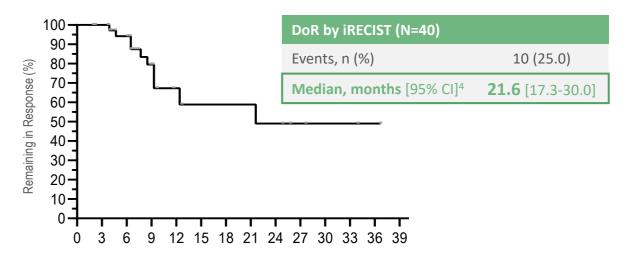




Change in Tumor Size Over Time¹



Interim Median Duration of Response (DoR)^{2,3}



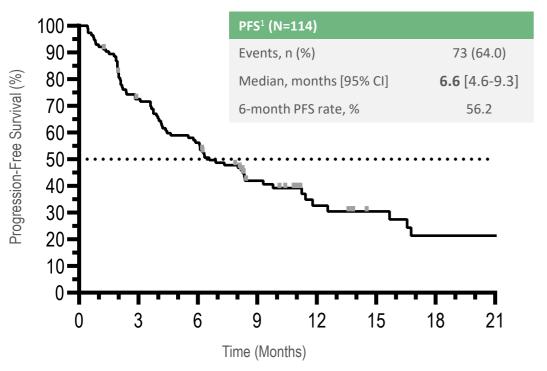
- Responses are deep and across all PD-L1 subgroups
- Response onset is early & responses are long-lasting
- Strong interim mDoR 21.6 months
- ~70% patients have decrease of target lesions
- Under 10% of responding patients progress within 6 months

Promising Progression Free Survival (PFS)

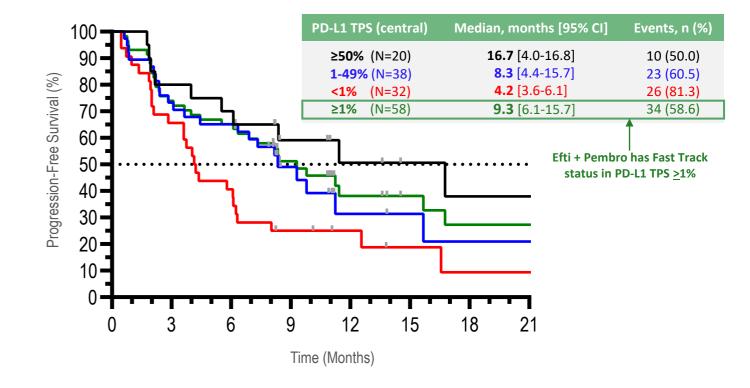


TACTI-002/KEYNOTE-798: 1L NSCLC (Part A)

PFS¹ – PD-L1 all comer (ITT)



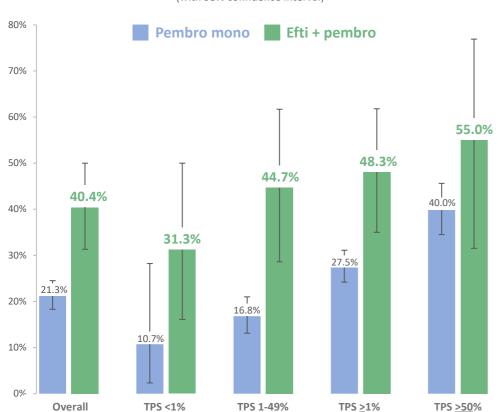
PFS¹ by PD-L1 status



Benchmarking against Pembrolizumab Monotherapy: Strong ORR/PFS Across Entire PD-L1 Spectrum vs Pembro Mono

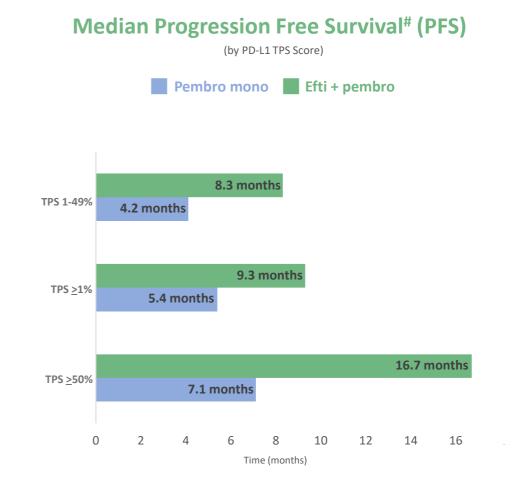


TACTI-002/KEYNOTE-798: 1L NSCLC (Part A)



Overall Response Rate^{*} (ORR)

(with 95% confidence interval)

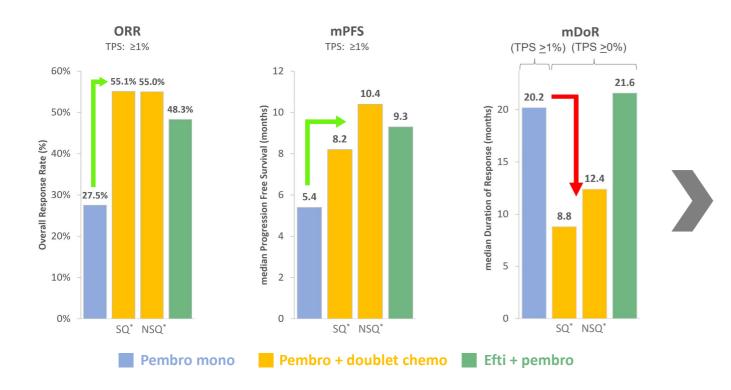


* Efti + Pembro ORR by iRECIST, unconfirmed, Total (N=114) and PD-L1 TPS subgroups (N=90). Data cut-off July 1, 2022. Pembrolizumab ('pembro') mono efficacy used for benchmarking for ORR: Total calculation based on KN-001; KN-042 and on adjustment for the same PD-L1 subgroup distribution as in TACTI-002. < 1 % TPS: calculation based on limited data set from KN-001 (1st & 2nd line altogether). 1-49%, ≥ 50%, and ≥ 1 % TPS based on KN-001, KN-042. # PFS by PD-L1 status (N=90) using central assessment for 90 patients. Pembro mono efficacy used for benchmarking: 1-49%, ≥ 50%, and ≥ 1 % TPS based on KN-001, KN-042. # PFS by PD-L1 status (N=90) using central assessment for 90 patients. Pembro mono efficacy used for benchmarking: 1-49%, ≥ 50%, and ≥ 1 % TPS based on KN-001, KN-042. # PFS by PD-L1 status (N=90) using central assessment for 90 patients. Pembro mono efficacy used for benchmarking: 1-49%, ≥ 50%, and ≥ 1 % TPS based on KN-001, KN-042. # PFS by PD-L1 status (N=90) using central assessment for 90 patients. Pembro mono efficacy used for benchmarking: 1-49%, ≥ 50%, and ≥ 1 % TPS based on KN-001, KN-042. Hore the status (N=90) using central assessment for 90 patients. Pembro mono efficacy used for benchmarking: 1-49%, ≥ 50%, and ≥ 1 % TPS based on KN-001, KN-042. Hore the status (N=90) using central assessment for 90 patients. Pembro mono efficacy used for benchmarking: 1-49%, ≥ 50%, and ≥ 1 % TPS based on KN-001, KN-042. Lancet https://doi.org/10.1016/S0140-6736(18)32409-7, Oral Presentation 2018 ASCO, <a href="https://doi.org/10.1016/S01

Benchmarking against Pembrolizumab Monotherapy and Pembrolizumab-Chemotherapy Combination in 1L NSCLC



TACTI-002/KEYNOTE-798: 1L NSCLC (Part A)



	ORR	PFS	DoR	Additional Toxicity
Efti + pembro	High	High	High*	No
Pembro mono	Low	Low	High*	No
Pembro + chemo	High	High	Low	Yes

*Note 34% patients in TACTI-002 have PD-L1 TPS <1% versus pembro monotherapy group with PD-L1 TPS <u>></u>1%

Efti + pembro holds significant promise as a chemotherapy-free treatment to positively impact patient outcomes in 1L NSCLC across all PD-L1 expression levels



Additional Clinical Studies with Efti and Anti-PD-(L)1, Chemotherapy or Triple Combination

Focusing Efti on Indications with High Unmet Needs





Efti Late Stage Clinical Development

Head and Neck Squamous Cell Carcinoma (HNSCC)

- There are ~900K cases and >400K deaths per annum in $\rm HNSCC^1$
- Pembrolizumab with chemotherapy is approved for 1st line HNSCC and pembrolizumab monotherapy is approved for patients whose tumors express PD-L1 (CPS ≥1)²
- Immutep is focused on improving responses in 1L HNSCC patients where efti + pembro has received Fast Track designation from the FDA

HR+/HER 2- Metastatic Breast Cancer (MBC)

- In 2020, there were 2.3 million women diagnosed with breast cancer and 685,000 deaths globally³
- HR+/HER 2- is the most common type of breast cancer and accounts for ~68% of new cases⁴
- Immutep is focused on improving clinical responses for patients to SOC chemotherapy

Triple Negative Breast Cancer (TNBC)

- Clinically aggressive sub-type of breast cancer that accounts for ~15-20% of breast tumors⁵
- TNBC is more commonly diagnosed in women younger than 40 years⁶
- Immutep is focused on improving clinical responses for patients to SOC chemotherapy

Efti Earlier Stage Clinical Development

Urothelial Cancer, Soft Tissue Sarcoma, and other solid tumor indications

2L HNSCC: Robust ORR/CR with Long-Lasting Efficacy



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

TACTI-002 Part C: 2nd Line Head & Neck Squamous Cell Carcinoma

	Efti + Keytruda Combination*	Keytruda Monotherapy [#]	
Clinical Trial & Phase	P2 (TACTI-002/KN-798)	P3 (KN-040)	
Patient Number / tumor type	39 / 2L HNSCC	247 vs. 248 / 2L HNSCC	
PD-L1 Status	PD-L1 All comer	PD-L1 All comer	
Complete Response (CR) %	13.5%	1.6%	Ei
Partial Response (PR) %	16.2%	13%	W
Stable Disease (SD) %	8.1%	22.7%	
ORR in evaluable patients %	35.5%	n/a	
Overall Response Rate (ORR) %	29.7%	14.6%	N
PD-L1 CPS ≥1% group	40.7%	17.3%	<u>a</u>
PD-L1 CPS ≥20% group	64.3%	21.9%	w
Median PFS (months)	2.1	2.1	[
PD-L1 CPS ≥1% group	4.1	2.2	~8
Median OS (months)	12.6	8.4	ĺ
PD-L1 CPS ≥1% group	12.6	8.7	~_

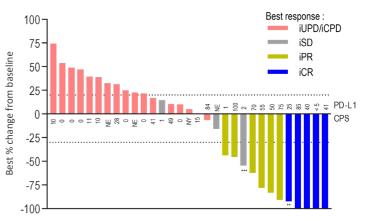
Eight-fold increase in CR with efti + pembro

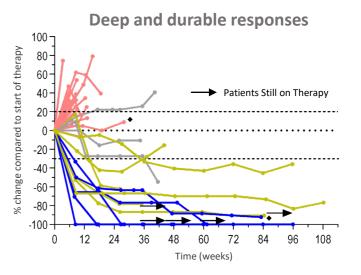
More than double ORR <u>across all</u> PD-L1 levels with efti + pembro

~86% increase in mPFS

~45% increase in mOS

Responses at all PD-L1 levels including 5 iCRs







TACTI-003: Phase IIb in 1st Line Head and Neck Squamous Cell Carcinoma (HNSCC)

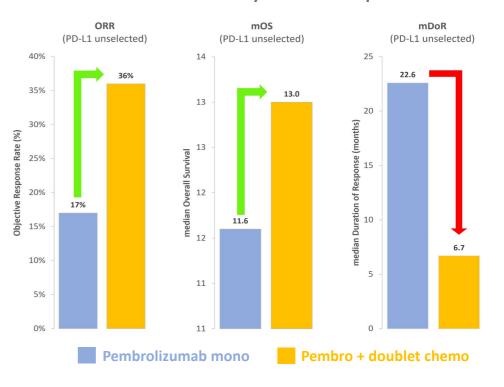
TACTI-003 - Randomized Phase IIb Trial in 1L HNSCC Patients Comparing Efti + Pembro vs. Pembro Alone with CPS≥1





- Received FDA Fast Track on strength of TACTI-002 data in 2L HNSCC
- Recruiting: ~38% enrolled; new sites activated & enrollment increasing
- Independent Data Monitoring Committee (IDMC) recommended in Q4'22 continuing trial with no modifications after review of initial safety data; IDMC also reviewed efficacy data yet was not primary focus of analysis
- Efti + pembro holds significant potential as a chemotherapy-free treatment in 1st line HNSCC to drive higher ORR & improved mOS, without any additional toxicity or sacrificing DoR

Higher ORR & mOS from pembro + doublet chemo in 1L HNSCC comes with additional toxicity and at the expense of DoR^{*}



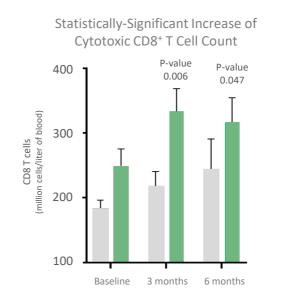
AIPAC Phase IIb: Driving OS Improvement with Superior QoL



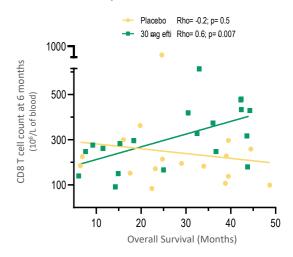
AIPAC: Active Immunotherapy PAClitaxel in HER2-/ HR+ metastatic breast cancer Phase IIb Trial

AIPAC: Multicenter, placebo-controlled, double-blind, 1:1 randomized Phase IIb study; 226 patients randomized to efti (N=114) or placebo (N=112)

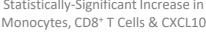
- Efti + paclitaxel combination had ORR & DCR of 48.3%/85.1% vs placebo 38.4%/75.9% with a +2.9 month OS improvement and superior Quality of Life (QoL)
- Led to significant OS improvement in pre-specified subgroups: •
 - Low monocytes: +19.6 months mOS, HR 0.44, P-value=0.008 \checkmark
 - Under 65 years: +7.5 months mOS, HR 0.66, P-value=0.017
 - ✓ Luminal B: +4.2 months mOS, HR 0.67, P-value=0.049
- Agreement with FDA on Phase II/III trial design for treatment of • metastatic breast cancer (MBC) and expansion of patient population to include triple-negative breast cancer (TNBC)
- Subject to regulatory and ethic committee feedback, the Phase • Il portion of the MBC trial is expected to begin during the first quarter of 2023

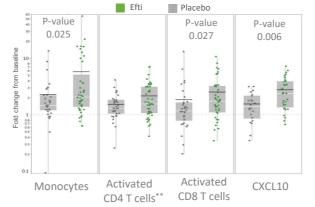


Statistically-Significant Correlation: OS & Cytotoxic CD8⁺ T cell count

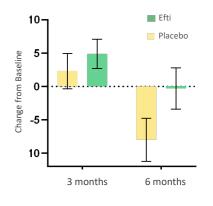














TACTI-002/KEYNOTE-798: 2nd Line NSCLC, PD-X Refractory (Part B)

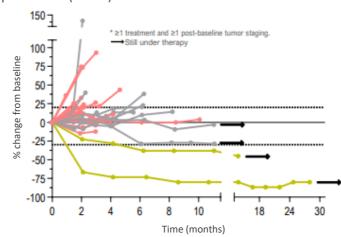
TACTI-002 Part B: 2nd Line NSCLC, PD-X Refractory

- Very difficult-to-treat patient population
- Confirmed progression after anti-PD-1/PD-L1 therapy, with 67% receiving chemo + anti-PD-1/PD-L1 in 1st line setting
- 75% patients have PD-L1 TPS of <50%
- Median OS of 9.6 months in PD-L1 TPS of 1-49% and not yet reached in PD-L1 TPS of >50%
- 2 confirmed and durable PRs (9+ and 23+ months)
- L-term (6+ months) disease control in 25% patients
- 36.5% patients alive at 18 months
- Combination safe & well tolerated

ORR, PFS and OS for ITT and PD-L1 subgroups

PD-L1 TPS	ITT (N=36)	<1% (N=13)	1-49% (N=14)	>50% (N=6)	
ORR (iRECIST) %	5.6	-	-	16.7	
Overall Survival					
Median, months	9.7	8.7	9.6	NR	
6-month OS, %	72.2	61.5	71.4	100	
12-month OS, %	43.4	46.2	32.7	66.7	
18-month OS, %	36.5	46.2	16.3	NR	
Progression-free Survival (iRECIST)					
Median, months	2.1	2.1	1.9	7.6	
3-month OS, %	30.6	23.1	14.3	66.7	
6-month OS, %	25	15.4	14.3	50	

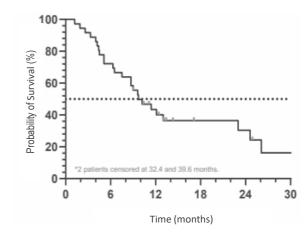
Spider Plot (N=34)*



Best overall response, ITT

Tumor response* (N=36)	iRECIST (%)	RECIST 1.1 (%)
Partial Response	5.6%	5.6%
Stable Disease	30.6%	10%
Progression	61.1%	23%
Not Evaluable**	2.8%	2.8%
Overall Response Rate (ITT)	5.6%	5.6%
Disease Control Rate (ITT)	36.1%	33.3%





Efti + Anti-PD-L1 (Avelumab) in Advanced Solid Tumors



INSIGHT-004: Phase I in Various Advanced Solid Tumors & INSIGHT-005: Phase I in Metastatic Urothelial Cancer



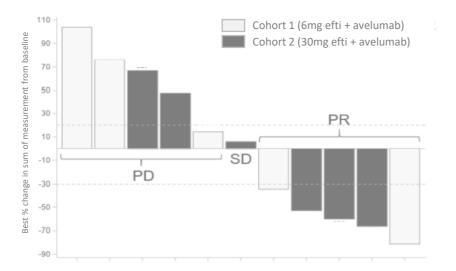






INSIGHT-004 - Phase I dose escalation study in advanced solid tumors

- Efti in combination with avelumab (BAVENCIO[®]) safe with promising signals of efficacy
- Deep & durable responses in patients with low/no PD-L1 expression and in non-immunogenic tumors
- 5/12 partial responses (42%) in different solid tumors^{**}



INSIGHT-005 - Phase I study in metastatic urothelial cancer

- Investigator-initiated, open-label study evaluating safety & efficacy of efti, in combination with avelumab (BAVENCIO[®]) in up to 30 patients with metastatic urothelial cancer
- Study is jointly funded by Immutep and Merck KGaA, Darmstadt, Germany
- Expansion into urothelial cancer builds on core strategy to increase target indications to exploit efti's full potential
- First patient expected to be enrolled & dosed in first half of CY2023

IO + IO + Chemo Combination Trial (INSIGHT-003)



INSIGHT-003: Phase I in Solid Tumors Focusing on NSCLC Adenocarcinomas

INSIGHT-003 - Third arm (Stratum C) of ongoing investigatorinitiated study focusing on NSCLC adenocarcinomas



- Evaluating triple combination therapy consisting of efti in conjunction with carboplatin/pemetrexed & anti-PD-1 therapy to assess safety, tolerability and initial efficacy
- 14 of 20 metastatic NSCLC patients have been enrolled¹
- Triple combination well tolerated & appears to be safe
- Promising early results with 72.7% response rate and 90.9% disease control rate in evaluable (N=11) 1st line NSCLC patients.
 81.8 % patients had PD-L1 TPS <50% with ORR of 66.7 %

Initial Efficacy

Tumor Response according to RECIST 1.1 (N=11)	N, (%)
Complete Response (CR)	0(0)
Partial Response (PR)	8 (72.7%)
Stable Disease (SD)	2 (18.2%)
Progressive Disease (PD)	1 (9.1%)
Objective Response Rate (ORR)	8 (72.7%)
Disease Control Rate (DCR)	10 (90.9%)

Interim Safety

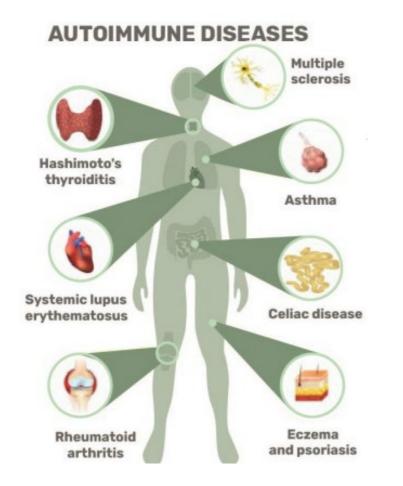
Safety Parameter (N=14)	N, (%)
Most Frequent AEs	1 (9.1)
Neutrophil count decreased (grade 1-4)	11 (78.6)
White blood cell decreased (grade 1-4)	9 (64.3)
Platelet count decreased (grade 1-3)	8 (57.1)
Anemia (grade 1-3)	8 (57.1)
Patients with at least one SAE	4 (28.6)
Patients with at least one SAE related to study treatment	1(7.1)

"Efti has accumulated an excellent safety profile to date, driving its high suitability for combination with standard of care therapies to address areas of unmet need for cancer patients. INSIGHT-003 represents the first triple combination therapy consisting of efti plus anti-PD-1 and chemo, and we are pleased with these promising, early results." - Prof. Dr. Salah-Eddin Al-Batran, Lead Investigator



IMP761: LAG-3 Therapeutic for Autoimmune Diseases





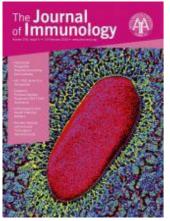
Present Approaches Fight the Symptoms of Autoimmune Diseases

Treating general inflammation: Corticoids, methotrexate, anti-TNF-α, -IL-6, -IL-17, -IL-23 mAbs

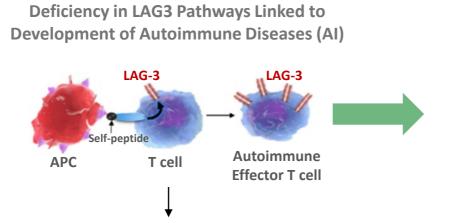


Future Approaches Target the Causes of Autoimmune Disease

Treating the disease process: Targeting autoimmune memory T cells with depleting or agonist LAG-3 antibodies



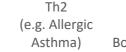
A LAG-3-Specific Agonist Antibody for the Treatment of T Cell –Induced Autoimmune Diseases Mathieu Angin. Chrvstelle Brignone and Frédéric Triebel J Immunol January 6, 2020, ji1900823



Th3

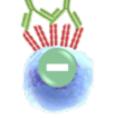
Epigenetic Reprogramming (DNA methlyation, histone modifications, miRNAs)

Th1 (e.g. T1 Diabetes, Rheumatoid Arthritis)



IL-23 (e.g. Irritable (e.g. Psoriasis) Bowel Syndrome)

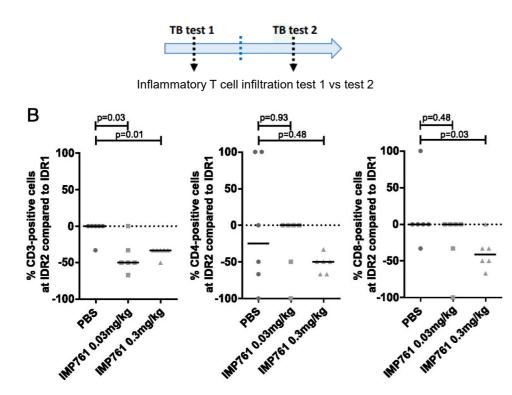
IMP761



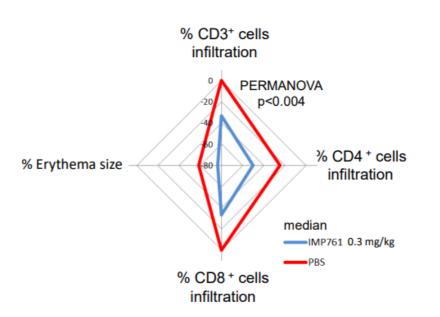
IMP761, a first-in-class LAG-3–specific agonist **antibody** acting upstream on activated T cells, the root cause of self-Ag-specific T cell induced disease, is a **potential game-changer** in AI.



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



Percentage of CD3-, CD4-, and CD8-positive cells at IDR2 compared with IDR1 in cynomolgus macaques that received PBS control (circle) and IMP761 at 0.03 mg/kg (square) or 0.3 mg/kg (triangle).



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.



Pete Meyers Deputy Chairman

Mr Meyers spent 18 years in health care investment banking before taking 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.



Lucy Turnbull, AO Non-Executive Director

Lucy Turnbull is a distinguished businesswoman, philanthropist and former politician with a background in commercial law and investment banking. She has served on the boards of the NSW Cancer Institute, the Sydney Children's Hospital Foundation, and the Sydney Cancer Centre.



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 Ph.D. Executive Director, CSO & CMO

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.



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.



Claudia Jacoby, Ph.D. 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.



James Flinn, Ph.D. 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' 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 Ph.D. 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.

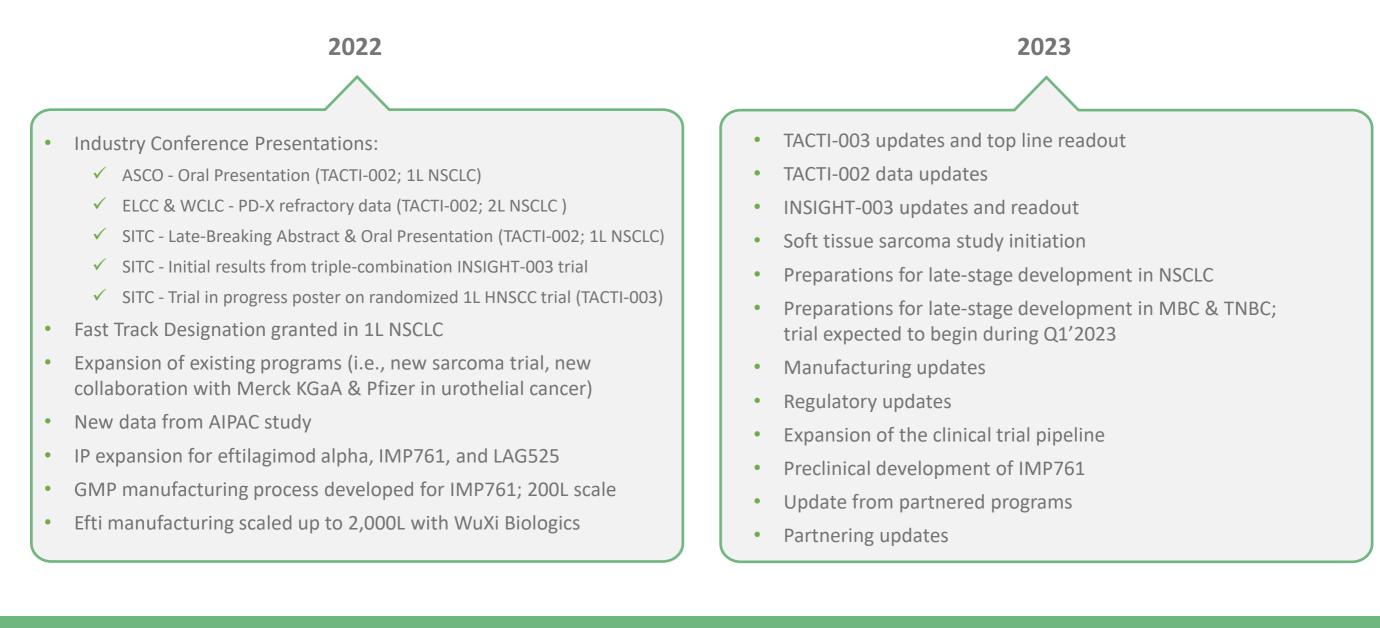


Katja Pruessing Senior Quality Assurance Mgr.

Dr Pruessing has +10 years of sector-specific experience and is leading quality assurance strategy and implementation, for clinical trials managed by Immutep. She has a Diploma in Biology and completed her PhD at the RWTH Aachen University, Germany.

Milestones





31 *As reported in Quarterly Activities Report for quarter ended 30 September, 2022 (Q1 FY23); ** As of 22 November, 2022. 26.76% of ordinary shares outstanding are represented by ADSs listed on NASDAQ.
***Based on latest substantial holder notices and Orient Capital Report reflecting the register as at <u>14 October 2022</u>.

Summary





- Pioneering LAG-3 portfolio in oncology & autoimmune diseases with three clinical & two pre-clinical assets
- First-in-class positioning with eftilagimod alpha (efti) that has strong IP protection
- Multiple big pharma partnerships & collaborations with efti, while retaining full global rights ex-China
- Potential first-in-class positioning with IMP761 & small molecule anti-LAG-3 inhibitor
- Well funded with ~A\$73.9 million in cash*
- Cash runway to the end of the 1st half of CY2024^{**}
- Market cap ~A\$255M / ~\$160M US***
- Ticker symbols:
 - ✓ IMM (ASX) & IMMP (NASDAQ)
- Total institutional ownership of ~57% includes Fidelity (FIL Ltd.) ~7.41% and Australian Ethical ~4.98%#



Thank You