



The global leader in developing LAG-3 therapeutics

(ASX: IMM, NASDAQ: IMMP)

*Extraordinary General Meeting
CEO Presentation*

26 July 2021

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Overview

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Immute^p

is an innovative biotechnology company developing novel immunotherapies for cancer and autoimmune disease



Global leadership position

in LAG-3 with 4 product candidates in immuno-oncology and autoimmune disease



Clinical Potential

Immute^p's product candidates have demonstrated clinical potential in a range of indications with high unmet need



Collaboration deals

executed with industry leaders



Merck KGaA,
Darmstadt, Germany



LAG-3 Overview

- Landscape-

LAG-3 Acceleration & Validation

LAG-3 is an exciting and promising immune checkpoint for cancer treatment

Accelerating interest in LAG-3:

- Over 900 scientific publications dealing with LAG-3
- More than 80 clinical trials evaluating 19 LAG-3 product candidates in development
- Close to 20,000 patients estimated to be enrolled in clinical trials around the globe

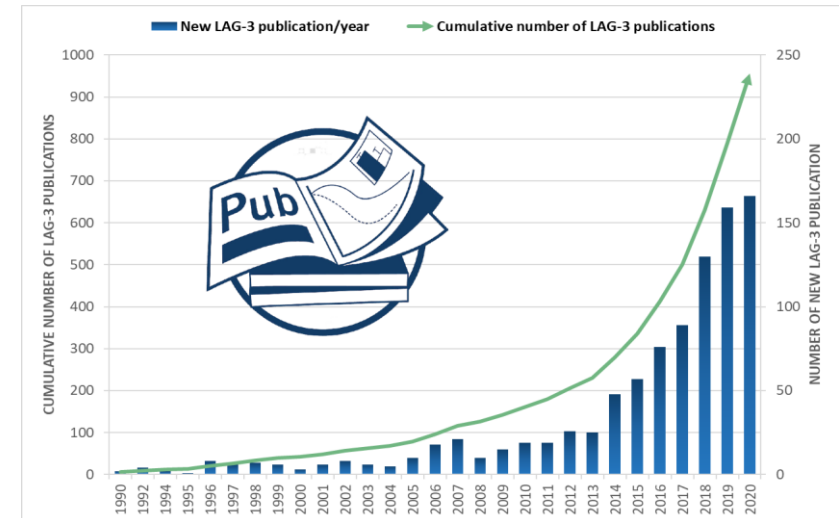
Recent LAG-3 validation:

- Interaction between LAG-3 and MHC class II was recently validated by pharma company Bristol Myers Squibb with Phase III data
- Its anti-LAG-3 antibody is helping patients with melanoma to live significantly longer without disease progression (PFS)

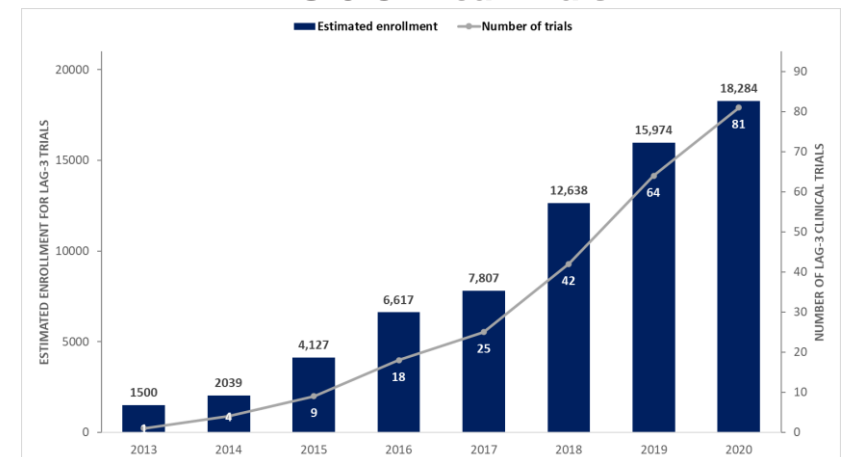
Immutep is the leading LAG-3 immunotherapy biotech

It is the only company with four LAG-3 related compounds each with a different mechanism of action.









LAG-3 Scientific Publications



LAG-3 Clinical Trials



Immutep's LAG-3 Trial Pipeline*

Program	Preclinical	Phase I	Phase II	Late Stage ⁽⁵⁾	Commercial Rights	Market Size ⁽⁶⁾
Eftilagimod Alpha (efti or IMP321) APC activating soluble LAG-3 protein	Metastatic Breast Cancer (Chemo – IO) AIPAC				 Global Rights immutep LAG-3 IMMUNOTHERAPY	US\$29.9 billion
	Head and Neck Squamous Cell Carcinoma (IO – IO) ^(1b) TACTI-003					US\$1.9 billion
	Head and Neck Squamous Cell Carcinoma (IO – IO) ⁽¹⁾ TACTI-002					US\$22.6 billion
	Non-Small-Cell Lung Carcinoma (IO – IO) ⁽¹⁾ TACTI-002					
	Solid Tumors (IO – IO) ^{(2), (3a)} INSIGHT-004		 Merck KGaA, Darmstadt, Germany			 Chinese Rights EOC
	Solid Tumors (IO – IO) ^{(2), (3b)} INSIGHT-005		Merck KGaA, Darmstadt, Germany 			
	Solid Tumors (IO – IO – chemo) ⁽²⁾ INSIGHT-003					
	Solid Tumors (Cancer Vaccine) ^(4a) YNP01 / YCP02 / CRESCENT 1		 CYTLIMIC Cytotoxic T Lymphocyte Immunotherapy in Cancer			
	Metastatic Breast Cancer (Chemo – IO) ^(4b)					 Chinese Rights EOC
Efti	COVID-19 disease (Monotherapy) ⁽⁷⁾ EAT-COVID				 Global Rights ⁽⁸⁾ immutep LAG-3 IMMUNOTHERAPY	
IMP761 (Agonist AB)					 Global Rights immutep LAG-3 IMMUNOTHERAPY	US\$149.4 billion (2025)

Notes

* Information in pipeline chart current as at June 2021

(1) In combination with KEYTRUDA® (pembrolizumab) (1b) Planned new trial for 1st line HNSCC patients

(2) INSIGHT Investigator Initiated Trial ("IIT") is controlled by lead investigator and therefore Immutep has no control over this clinical trial

(3) a) In combination with BAVENCIO® (avelumab); b) in combination with Bintrafusp alfa

(4) a) Conducted by CYTLIMIC in Japan; b) Conducted by EOC in China. Immutep has no control over either of these trials.

(5) Late stage refers to Phase IIb clinical trials or more clinically advanced clinical trials

(6) GlobalData Market Size forecast for US, JP, EU5, Urban China and Australia; KBV Research: <https://www.kbvresearch.com/autoimmune-disease-therapeutics-market/>

(7) IIT conducted by University Hospital Pilsen. Immutep has no control over this trial.

(8) Ex China

Immutep Out-Licensed LAG-3 Trial Pipeline*

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Program	Preclinical	Phase I	Phase II	Late Stage ⁽¹⁾	Commercial Rights/Partners	Updates
LAG525 (Antagonist AB)	Solid Tumors + Blood Cancer (IO-IO Combo)				Global Rights 	Novartis currently has five clinical trials ongoing for LAG525 in multiple cancer indications for over 1,000 patients. ⁽⁴⁾
	Triple Negative Breast Cancer (Chemo-IO Combo)					
	Melanoma (IO-IO-Small Molecule Combo)					
	Solid Tumors (IO-IO Combo)					
	Triple Negative Breast Cancer (Chemo-IO-Small Molecule Combo)					
GSK'781 (Depleting AB)	Ulcerative Colitis ⁽⁶⁾				Global Rights 	Two successful Phase I studies, but the Phase II clinical study in up to 242 ulcerative colitis patients was discontinued. ⁽⁵⁾
	Healthy Japanese and Caucasian Subjects ⁽²⁾					
	Psoriasis ⁽³⁾					

Notes

* Information in pipeline chart current as at June 2021

(1) Late stage refers to Phase IIb clinical trials or more clinically advanced clinical trials

(2) Reflects completed Phase I study in healthy volunteers

(3) Reflects completed Phase I study in healthy volunteers and in patients with plaque psoriasis

(4) <https://clinicaltrials.gov/ct2/results?cond=&term=LAG525&cntry=&state=&city=&dist=>

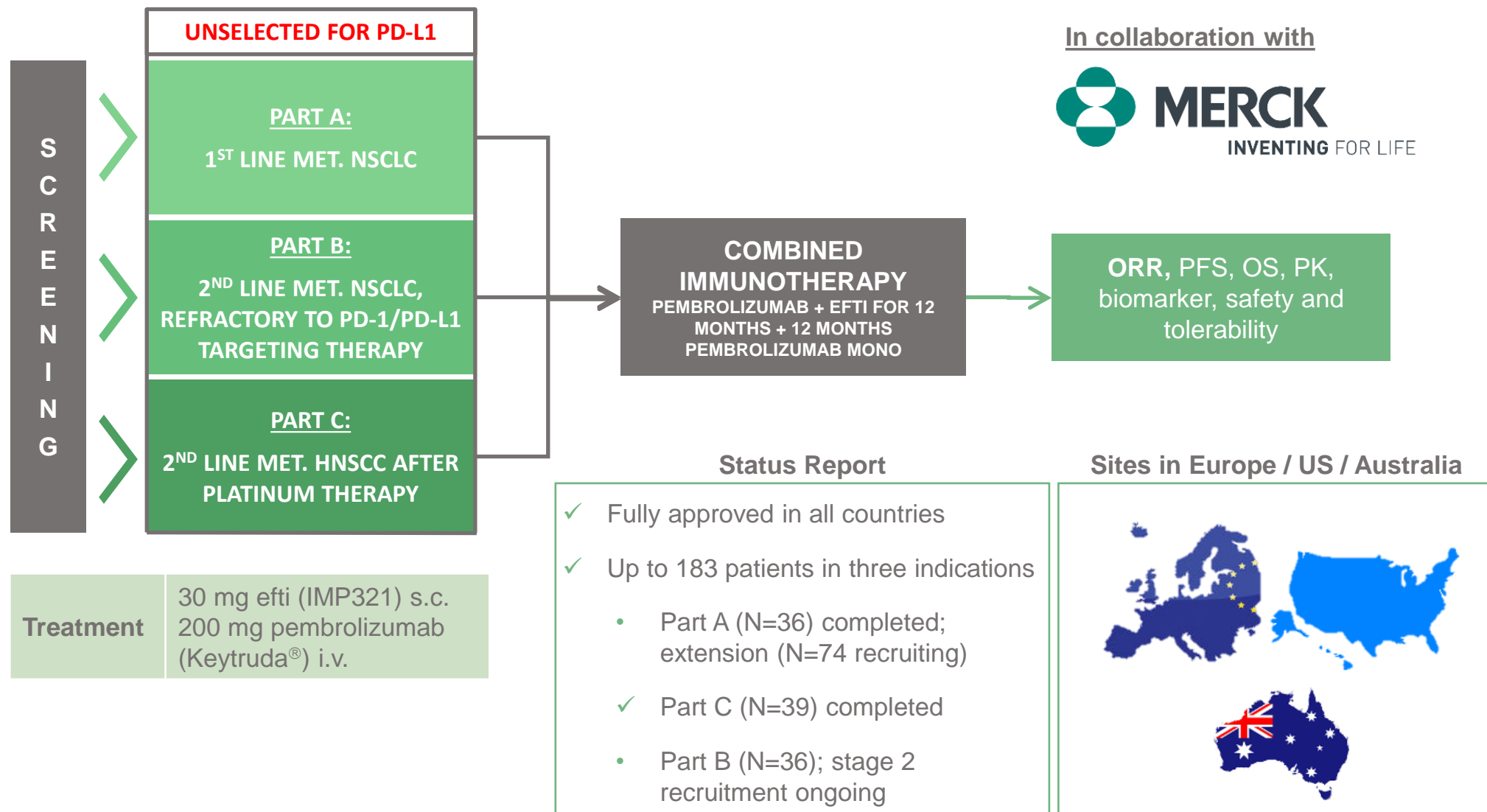
(5) <https://clinicaltrials.gov/ct2/results?cond=&term=GSK2831781&cntry=&state=&city=&dist=> and <https://www.gsk.com/media/5957/q1-2020-results-slides.pdf>

(6) Discontinued in Jan 2021

TACTI-002 (Phase II)

Design & Status

TACTI-002: Two ACTIVE Immunotherapeutics in NSCLC and HNSCC



TACTI-002 Results⁽¹⁾

1st line NSCLC (Part A)

PD-L1 distribution as expected (~70% with < 50% PD-L1 expression) → PD-L1 all comer trial

Patients are typical NSCLC 1st line pts

Baseline parameters	N (%)	Best overall response, iRECIST, N = 36	Local Read (investigator) N (%)	Blinded Read (BICR) N (%)
Age (years), median (range)	68.5 (53-84)	Complete Response	2 (5.6)	2 (5.6)
Female	11 (30.6)	Partial Response	11 (30.6)	13 (36.1)
Male	25 (69.4)	Stable Disease	11 (30.6)	10 (27.8)
ECOG 0	15 (41.7)	Progression	8 (22.2)	6 (16.7)
ECOG 1	21 (58.3)	Not Evaluable**	4 (11.1)	5 (13.9)
Current / Ex-smokers	34 (94.4)	Disease Control Rate	24 (66.7)	25 (69.4)
Non-smokers	2 (5.6)	Overall Response Rate* [95% CI interval]	13 (36.1) [20.8-53.8]	15 (41.7) [25.5-59.2]
Squamous pathology	15 (41.7)	Overall Response Rate – Evaluable pts*** [95% CI interval]	13 (40.6) [23.7-59.4]	15 (48.4) [30.1-60.9]
Non-squamous pathology	21 (58.3)			
Patients with liver metastasis	14 (38.9)			

* - All patients stage 1 and 2 (N=36) with ≥ 1 treatment

** - dropped off prior to first staging or were not evaluable post-baseline for any reason

*** - Evaluable for efficacy meaning ≥ 1 treatment and ≥ 1 post baseline tumor staging

Notes:

(1) Preliminary data, cut-off Apr 16, 2021

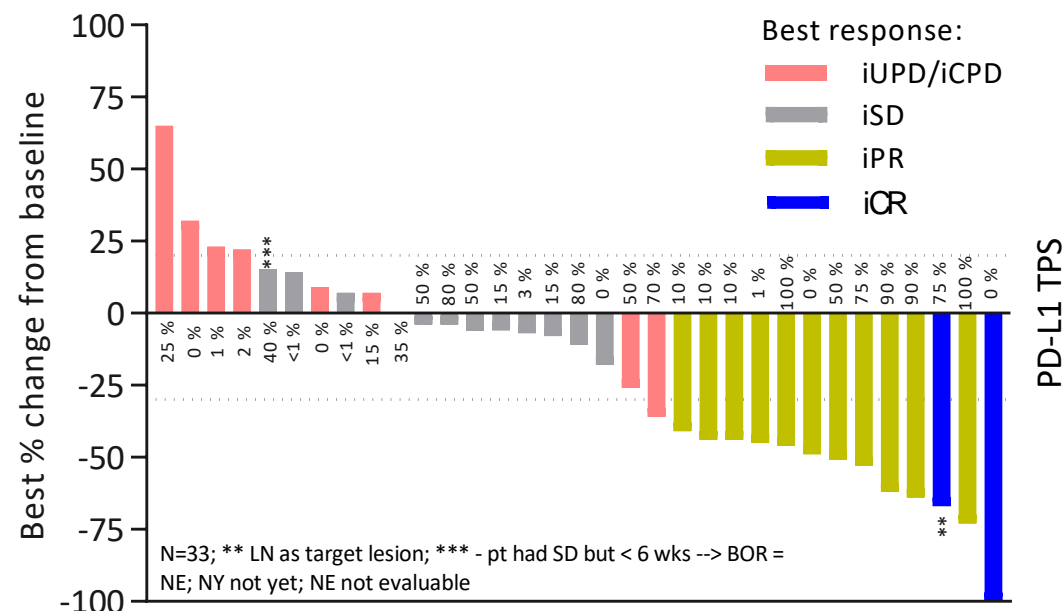
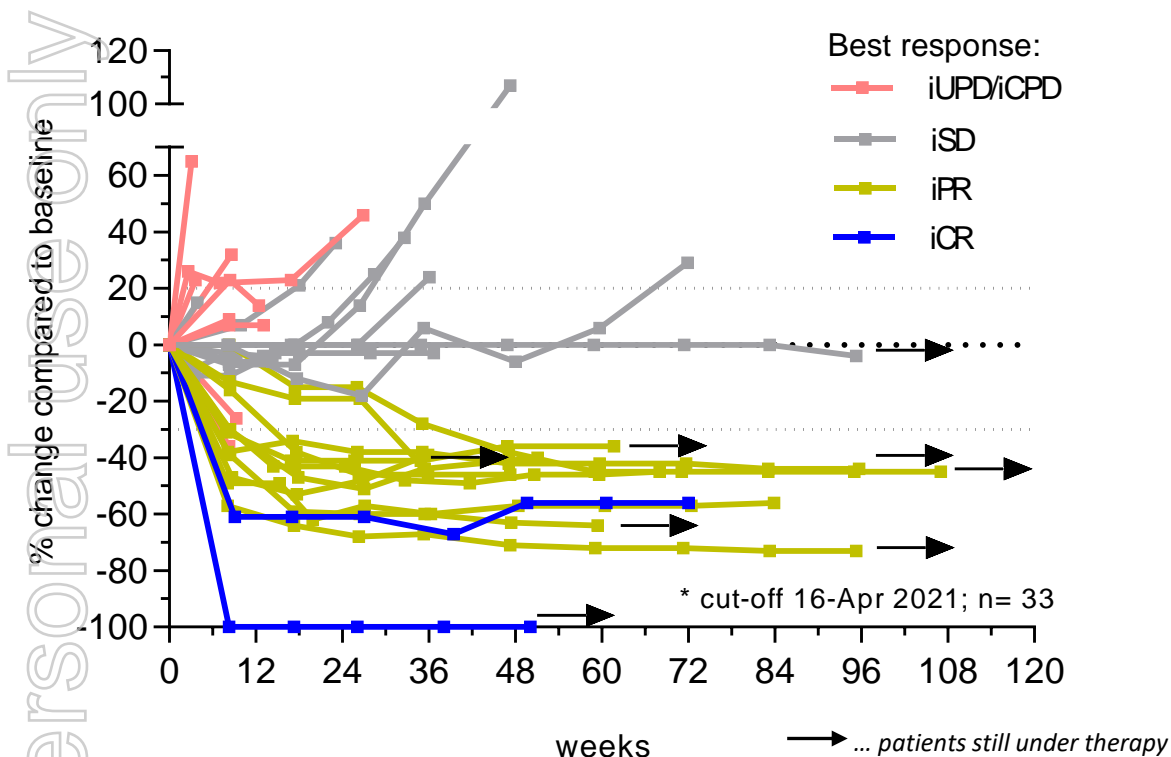
ECOG... Eastern Cooperative Oncology Group

iRECIST... Immune Response Evaluation Criteria In Solid Tumors

BICR... Blinded Independent Central Review

TACTI-002 Results⁽¹⁾

1st line NSCLC (Part A)



Duration of response (DoR)

- 92% responses confirmed
- 58% confirmed responses ongoing with 6+ months
- 42% of confirmed responses progressed after 6.5-13.8 months
- Median DoR estimated 13+ months

- Responses at all PD-L1 levels including 1 Complete Response with TPS of 0%
- At data cut-off, 7 pts still under therapy and 1 patient completed the 2 years of therapy

(1) Preliminary data, cut-off Apr 16, 2021

Graphs represent all patients with at least one post baseline assessment. One patient has no official RECIST assessment as this was done < 6 weeks and this does not qualify according to RECIST. Per local investigator assessment. iRECIST... Immune Response Evaluation Criteria In Solid Tumors

TACTI-002 Results⁽¹⁾

2nd line HNSCC (Part C)

- 2nd line treatment for patients after platinum therapy. PD-L1 all comer population
- Doubling the ORR compared to historical pembro mono results with **13.5% Complete Responses**

Baseline parameters (N=39)	N (%)
Age, median (years)	62 (37-84)
Female	4 (10.3)
Male	35 (89.7)
ECOG 0	13 (33.3)
ECOG 1	26 (66.7)
Current / Ex-smokers	33 (84.6)
Non-smokers	6 (15.4)
Previous chemotherapy	39 (100)
Previous cetuximab	16 (41.0)
Lung lesions	19 (48.7)
Liver lesions	6 (17.6)

Primary tumor location (N=39)	N (%)
Oral cavity	12 (30.8)
Oropharynx	14 (35.9)
Hypopharynx	7 (17.9)
Larynx	6 (15.4)

Best overall response*, iRECIST	Investigator assessment N (%)
Complete Response	5 (13.5)
Partial Response	6 (16.2)
Stable Disease	3 (8.1)
Progression	17 (45.9)
Not Evaluable**	6 (16.2)
Disease Control Rate	14 (37.8)
Overall Response Rate [95% CI interval]	11 (29.7) [15.9-47.0]
Overall Response Rate – Evaluable pts*** [95% CI interval]	11 (35.5) [19.2-54.6]

* - All patients (N=37) with ≥ 1 treatment and no death due to COVID-19 prior to first post-baseline staging

** - dropped off prior to first staging or were not evaluable post-baseline for any reason

*** - evaluable patients (N=31): ≥ 1 treatment and ≥ 1 post baseline tumor staging

All four pathologies enrolled

Note:

(1) Preliminary data, cut-off 16 Apr 2021

TACTI-002 Results⁽¹⁾

2nd line HNSCC (Part C)

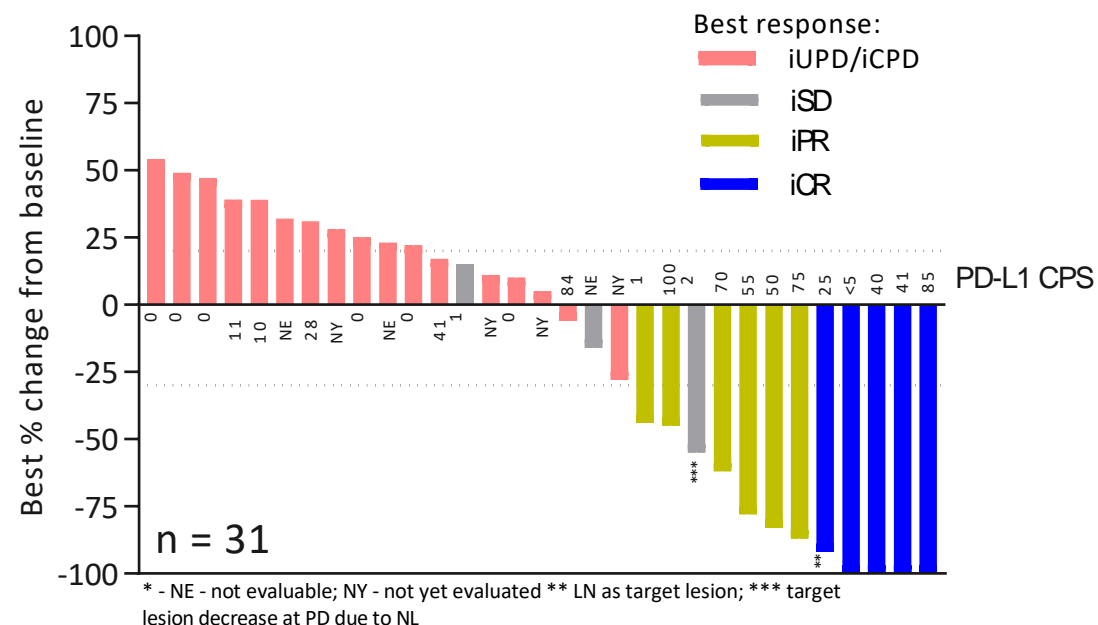
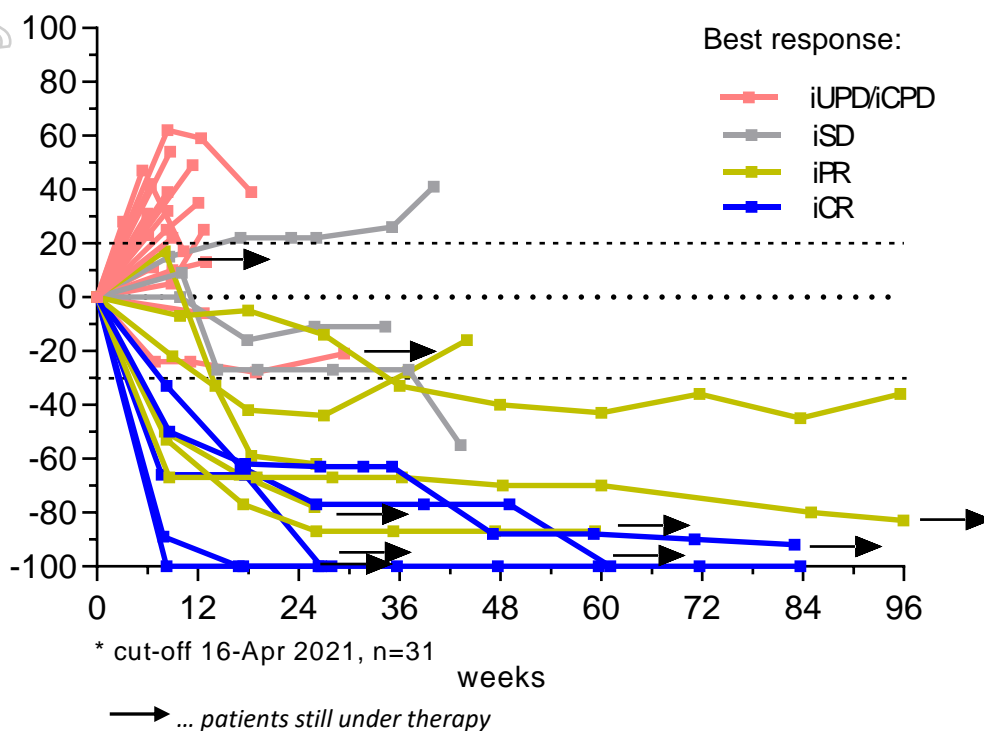
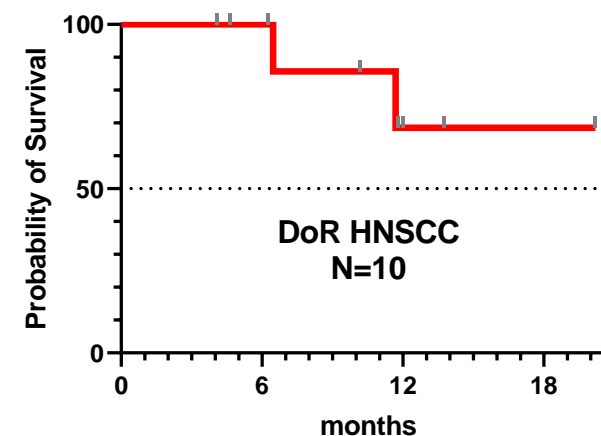


Figure 3: Duration of response (DOR) for confirmed responders



Deep responses with 5 Complete Responses

Duration of response (DoR)

- 91% confirmed responses
 - 80% confirmed responses ongoing (censoring at 4-20 months)
 - No progression prior to 6 months DOR
- Median duration of response cannot be estimated yet

Note:

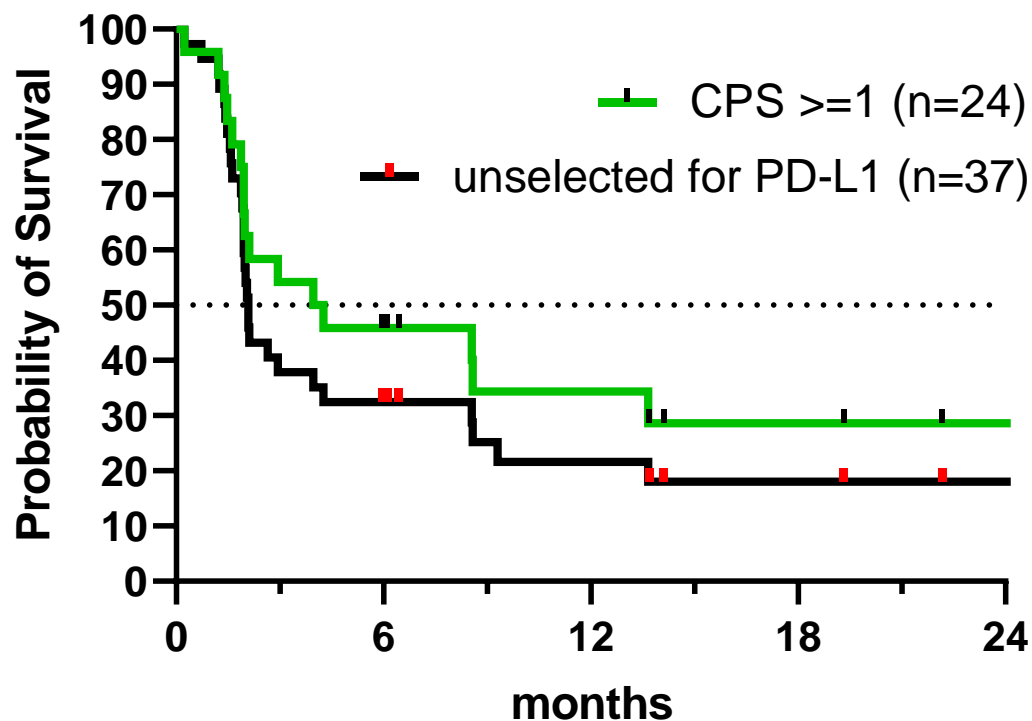
(1) Preliminary data, cut-off 16 Apr 2021

** >= 1 post baseline tumor staging (N=31)

TACTI-002 Results⁽¹⁾

2nd line HNSCC (Part C)

Kaplan-Meier Plot PFS*



Overall population (unselected for PD-L1)

- Median PFS 2.1 mths
- 30+% progression free at 6 mths

Selected for PD-L1 expression, CPS ≥ 1*

Median OS (58% events)

12.6 mths

Median PFS (71% events)

4.1 mths (45% prog. free at 6 mths)

ORR iRECIST (95% CI)

45.8% (25.6-67.2)

Note:

(1) Preliminary data, cut-off 16 Apr 2021

(2) * ≥ 1 treatment and no death due to COVID-19 prior to first post-baseline staging (N=37)

INSIGHT-004 (Stratum D) Results⁽¹⁾

Efficacy

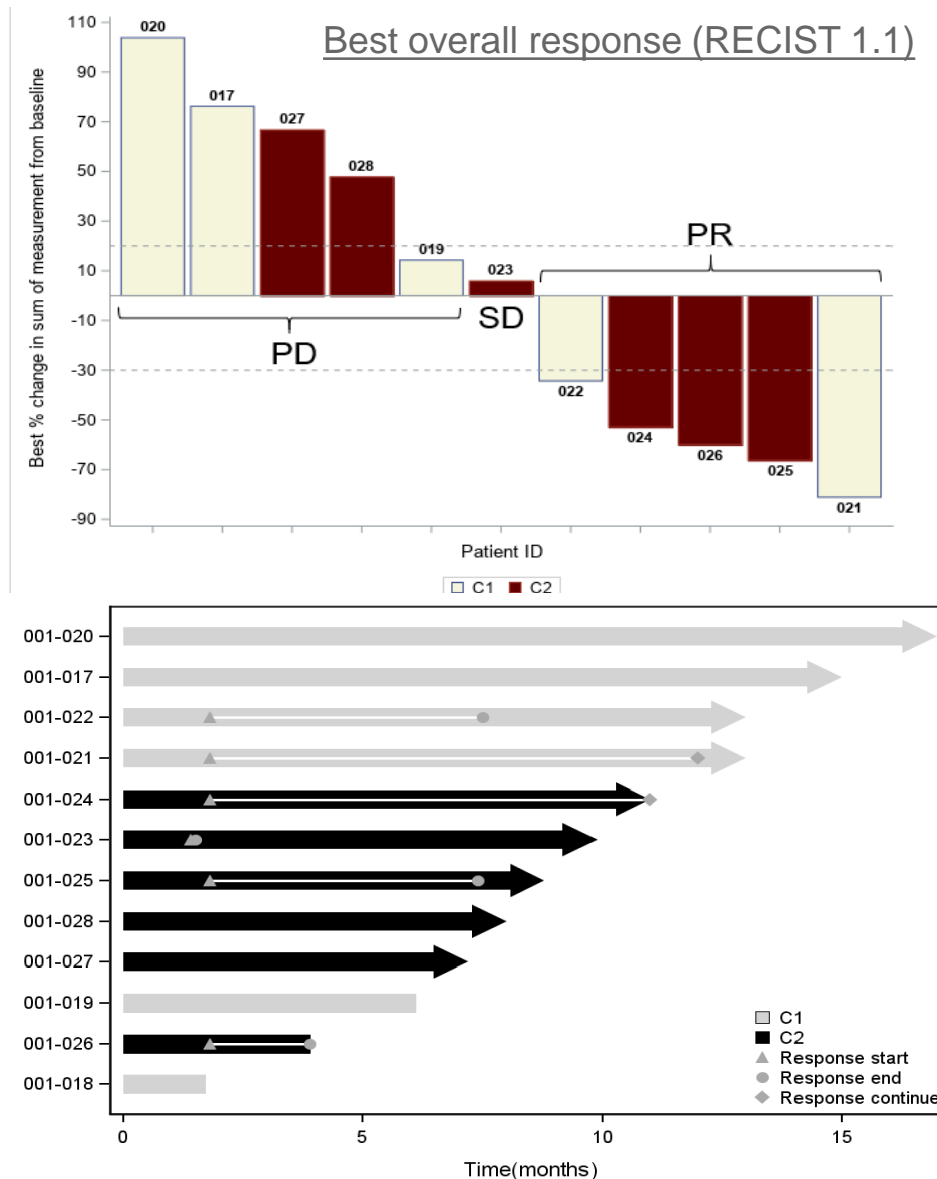
- 5/12 (42%) with partial responses in different indications:
 - 1st line MSI high colorectal cancer; 1st line pleural mesothelioma; after radiochemo in squamous anal cell; pre-treated squamous cervical cancer (PD-L1 TPS < 1%) carcinoma; 3rd line gastroesophageal junction
- 75% (n=9) are still alive → 66.7% (n=4) of cohort 1 and 83.3% (n=5) of cohort 2

Safety

- Combo of avelumab 800 mg + efti 6 mg or 30 mg efti s.c. is feasible and safe
- No unexpected AEs

Conclusion

- Treatment with efti + avelumab safe, with promising signals of efficacy
- Efti + avelumab seems to be a potent combination for enhancing PD-L1 directed therapy and needs further evaluation in new trials



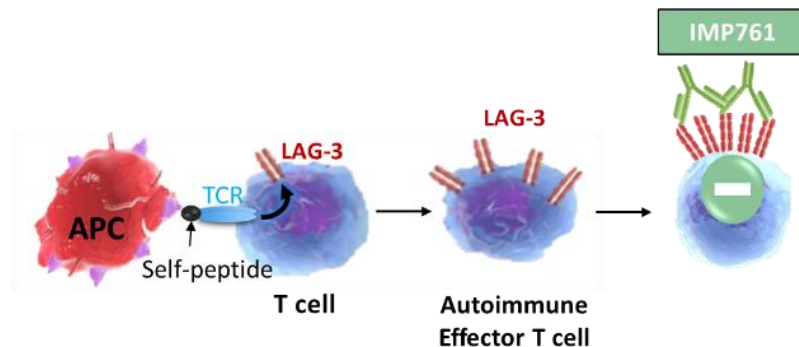
Triangles at the end of the chart represents the survival status

IMP761 a Potential Game Changer for Autoimmune Diseases

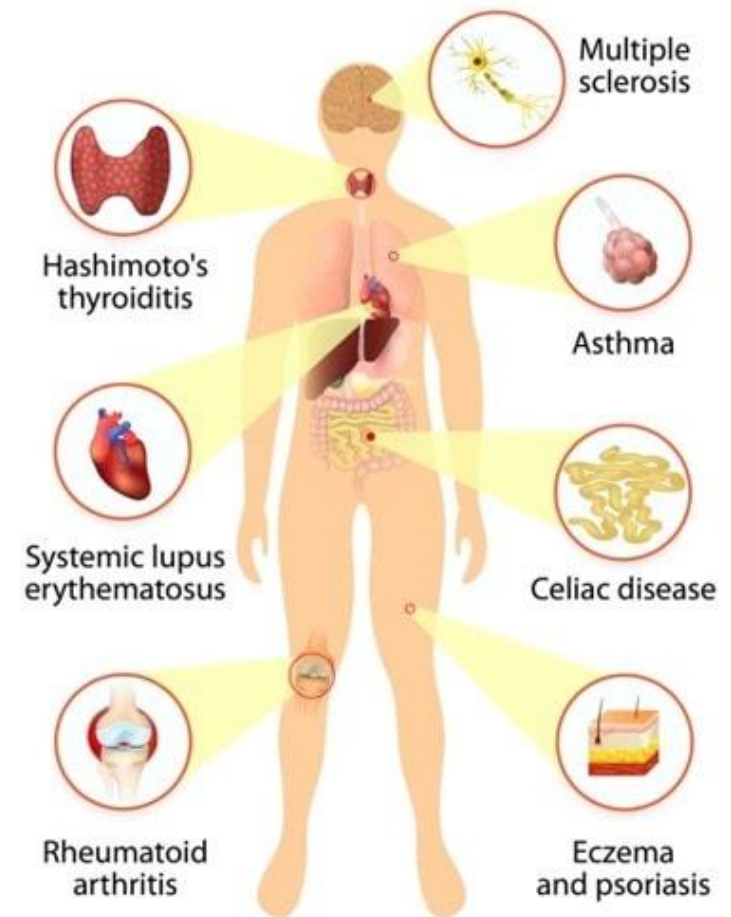
Current autoimmune drugs fight the symptoms, treating general inflammation (corticoids, methotrexate, anti-TNF- α , -IL-6, -IL-17, -IL-23 mAbs)

IMP761 potentially fights the cause, treating the disease process by silencing the few autoimmune memory T cells accumulating at the disease site

Immute^p to submit an Investigational New Drug (IND) application with the US FDA to begin clinical trials



AUTOIMMUNE DISEASES



US\$153.32 billion market by 2025¹

IMP761 has broad potential in targeting auto-reactive memory T cells

New Efti Studies

- TACTI-003, INSIGHT-005 & INSIGHT-003 -

Positive data driving expansion of clinical program

With the ongoing strength of data reported at leading conferences ([SITC 2020](#); [SABCS 2020](#); [ASCO 2021](#)), Immunetep plans to expand and advance its clinical portfolio⁽¹⁾:

New Phase III Registration Trial

Metastatic breast cancer
(based on AIPAC)

New Phase II Trial

e.g. Triple therapy: anti-PD1
+ chemo + efti combination

Other Trials

Two new investigator-
initiated trials (IITs) with up
to 40 pts each

Manufacturing

Commence process
characterisation and
validation for efti commercial
manufacturing (2,000 L scale)

Regulatory

Ongoing interactions with
the FDA and EMA

Autoimmune Program

IND package for IMP761

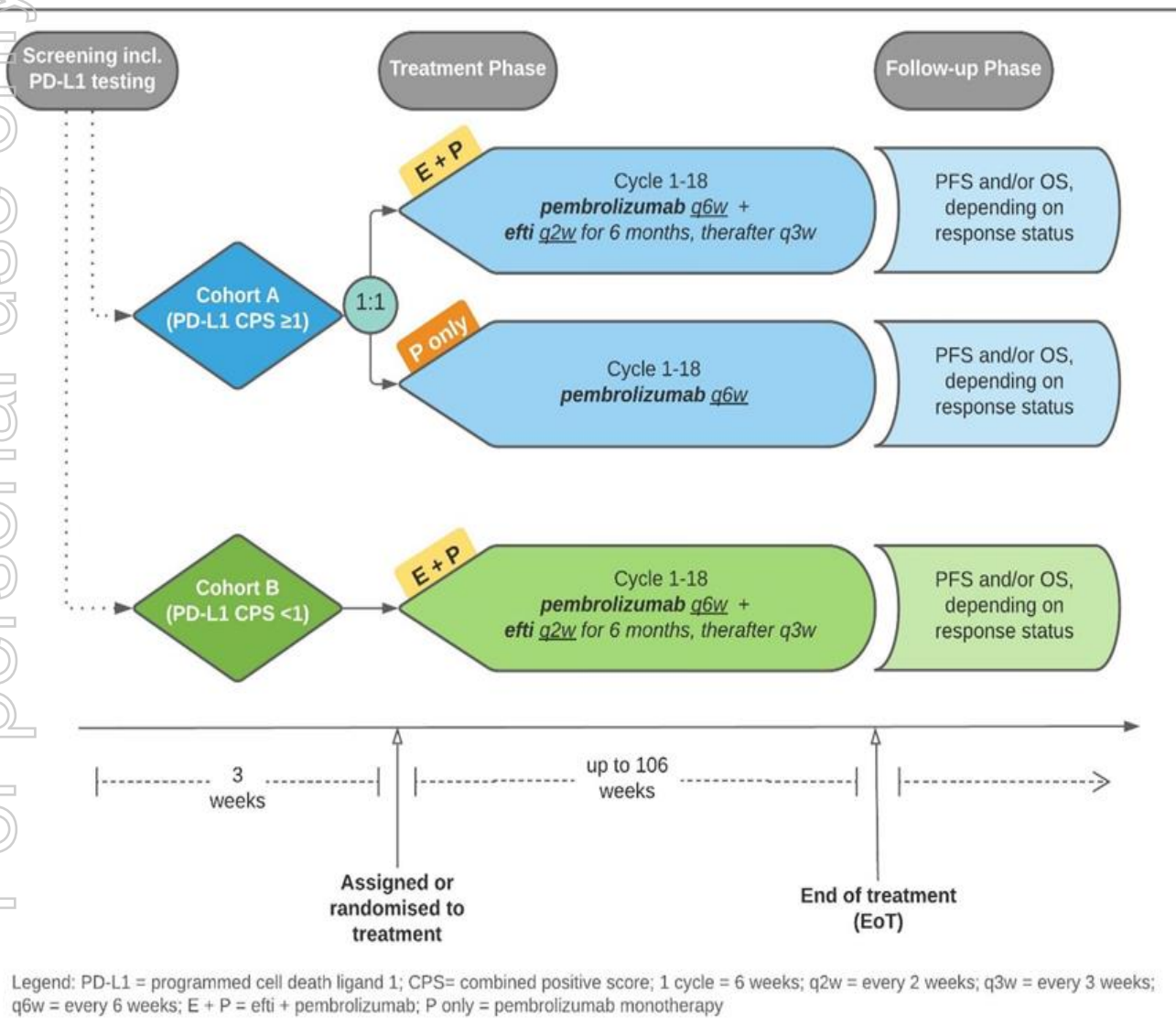
Strengthen the team

and research projects

Immunetep expects a range of clinical trials to have significant data read outs in the coming years

TACTI-003 Trial in 1st line HNSCC

Current Design + Status



In collaboration with



Design:

- Randomised study with ORR as primary endpoint
- Sites worldwide (AU, US, Europe)
- Approx. 154 pts: either to be randomized to have sufficient pts. in each group or in an experimental arm

Status:

- Study start up announced on 6 July 2021, with patient recruitment expected to begin within Q3 of calendar year 2021.
- **Fast Track designation granted by FDA in April 2021**

INSIGHT Platform Trial in Solid Tumours

INSIGHT-005 study arm (Stratum E): Efti + Bintrafusp Alfa combo

To evaluate the feasibility and safety of combined treatment with bintrafusp alfa (M7824) and eftilagimod alpha.

In collaboration with:

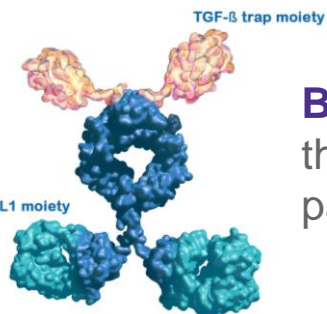
Merck KGaA,
Darmstadt, Germany



Institut für Klinisch-Onkologische Forschung



KRANKENHAUS
NORDWEST



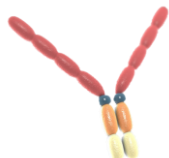
Bintrafusp alfa: bifunctional fusion protein that aims to block two immunosuppressive pathways: TGF- β and PD-L1



Phase I/IIa
Open label trial



12
Patients in 3 cohorts



Efti: LAG-3 fusion protein that activates antigen presenting cells (APCs) via the LAG-3 – MHC II pathway



12 months
Combination treatment



Two sites
Germany

Solid tumors

- histologically confirmed locally advanced or metastatic
- received ≤ 4 prior lines of therapy

Q2W for maximum of 12 months

- bintrafusp alfa 1200 mg i.v.
- eftilagimod alpha 30 mg s.c.

**RP2D, Safety, ORR,
PFS, PK, PD**

INSIGHT Platform Trial in Solid Tumours

New INSIGHT-003 study arm (Stratum C): Efti + anti-PD-1 + chemo

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First evaluation of efti in a triple combination therapy

INSIGHT-003 is a new stratum of the investigator-initiated phase I trial, INSIGHT

- Expansion into triple combination therapy of efti, standard of care chemotherapy and anti-PD-1 therapy
- Regulatory and ethical approvals received enabling patient recruitment
- First patient expected to be enrolled in Q3 of calendar year 2021 and first interim results expected in 2022
- Results to inform about safety and activity



Phase I study



Up to 20 patients
with various solid tumours



Safety, tolerability &
initial activity



One site
Germany



24 weeks
therapy duration

Corporate Snapshot & Outlook

For personal use only

Corporate Snapshot

Ticker symbols	IMM (ASX) IMMP (NASDAQ)
Securities on issue ⁽¹⁾ (post transaction)	~ 850.92 million ordinary shares
Proforma cash balance ⁽²⁾ (post transaction)	~ A\$114.03 million (US\$85.73 million)
Market Cap ⁽³⁾ (post transaction)	~ A\$425.46 million (US\$311.61 million)

Notes:

NB: All above figures are provided on a "post transaction" basis and include new Shares from the completed Share Purchase Plan (SPP) (the details of which were announced to ASX on 21 July 2021) and assumes Tranche 2 Placement Shares are approved by shareholders at today's EGM.

(1) As at 30 Jun 2021, 39.04% of the ordinary shares are represented by ADSs listed on NASDAQ where 1 ADS represents 10 ordinary shares.

(2) Pro forma cash balance based on Immutep's cash balance at 30 June 2021 plus the gross proceeds from the SPP and Tranche 2 share issuance.

(3) Market capitalization based on ASX close share price of A\$0.50 on 21 July 2021 and basic ordinary shares outstanding on a post transaction basis.

US equivalent of amounts above are based on foreign exchange rate for AUD/USD of 0.7324 for market capitalization, and the US cash & cash equivalents amount was calculated using FX rate of 0.7518.

2021/2022 News Flow*

H1 2021

H2 2021

2022

Fast Track designation granted for efti in 1st line HNSCC from US FDA

Data from **TACTI-002** & final data from **INSIGHT-004** at ASCO

Expansion of existing programs, adding:

✓ Second collaboration with MSD for TACTI-003

✓ First triple combination therapy with efti in INSIGHT-003

✓ New collaboration with Merck KGaA for INSIGHT-005

Patent protection strengthened

Financial position significantly strengthened

✓ Validation of LAG-3/MHC-II interaction through BMS's Phase III results in melanoma

- ❑ Final data from **AIPAC**: 2nd OS follow up in H2 2021
- ❑ Start & ongoing recruitment of **new randomised trial in 1st line HNSCC** (TACTI-003) in Q3 2021
- ❑ Recruitment & further data from **TACTI-002** in 2021 or early 2022
- ❑ **INSIGHT-003** first patient enrolled in Q3 2021 and first interim results in 2022
- ❑ **INSIGHT-005** first patient enrolled in H2 2021
- ❑ Manufacturing scale up to 2,000 L
- ❑ Ongoing **regulatory** engagement
- ❑ Updates from **IMP761**
- ❑ Updates from partnered programs (e.g. GSK, Novartis, EAT COVID, CYTLIMIC and EOC Pharma)

Notes:

*The actual timing of future data readouts may differ from expected timing shown above. These dates are provided on a calendar year basis.
A tick symbol indicates a completed item.



Thank You