

**Unlocking the power  
of the immune system  
to fight cancer and  
autoimmune disease**

Annual General Meeting 2023  
(ASX: IMM, NASDAQ: IMMP)

# Forward-Looking Statements

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## Agenda

- Overview of Immutep
- Achievements in FY23
- Efti results: ESMO
- Pipeline update
- Outlook & milestones ahead

# Overview of Immute<sup>te</sup>p

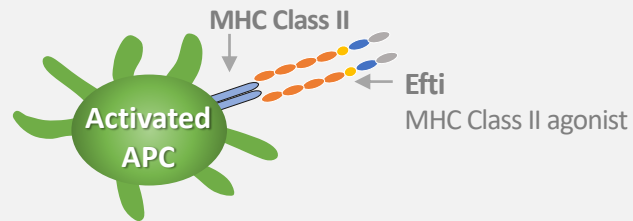
# Deep Pipeline

	Program	Indication	Preclinical	Phase I	Phase II	Late Stage*	Collaborations	Commercial Rights
ONCOLOGY	<b>Eftilagimod Alpha</b> Soluble LAG-3 Protein 	1L Head & Neck Squamous Cell Carcinoma (HNSCC)	TACTI-003   Efti+Pembrolizumab <sup>a</sup>				 <b>MERCK</b>  <b>MERCK</b> Merck KGaA Darmstadt, Germany  <b>Narodowy Instytut Onkologii</b> Państwowy Instytut Badawczy  <b>EOC</b>  <b>CARDIFF UNIVERSITY</b>	 <b>immuteP</b> LAG-3 IMMUNOTHERAPY Global Rights ex-China
		1L Non-Small Cell Lung Cancer (NSCLC), 2L HNSCC, PD-X Refractory 2L NSCLC	TACTI-002   Efti+Pembrolizumab <sup>a</sup>					
		Urothelial Cancer	INSIGHT-005   Efti+Avelumab <sup>§, b</sup>					
		1L NSCLC	INSIGHT-003   Efti+Pembro+Chemo <sup>§</sup>					
		Soft Tissue Sarcoma	EFTISARC-NEO   Efti+Pembro+Radiotherapy <sup>§</sup>					
		HR+/HER2- Metastatic Breast Cancer & TNBC	AIPAC-003   Efti+Paclitaxel					
		Metastatic Breast Cancer & Solid Tumors	Efti+Paclitaxel and Efti+Pembrolizumab <sup>#</sup>					
	Anti-LAG-3 Small Molecule	Undisclosed					 <b>EOC</b>	 <b>EOC</b> Efti China Rights
	<b>LAG525</b> Anti-LAG-3 Antibody 	Solid Tumors & Blood Cancer					 <b>NOVARTIS</b>	 <b>immuteP</b> LAG-3 IMMUNOTHERAPY Global Rights
		Triple Negative Breast Cancer						
Melanoma								
Solid Tumors								
Triple Negative Breast Cancer								
AUTOIMMUNE DISEASE	<b>GSK'781</b> Depleting LAG-3 Antibody 	Ulcerative Colitis					 <b>GSK</b>	 <b>GSK</b> Global Rights
		Psoriasis						
		Healthy Subjects						
	<b>IMP761</b> Agonist LAG-3 Antibody 	Undisclosed						 <b>immuteP</b> LAG-3 IMMUNOTHERAPY Global Rights

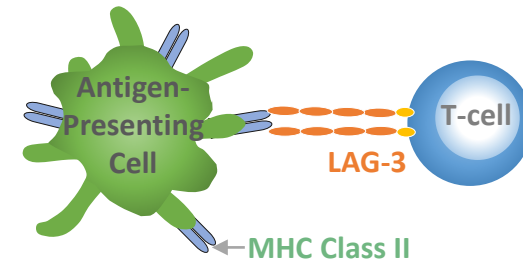
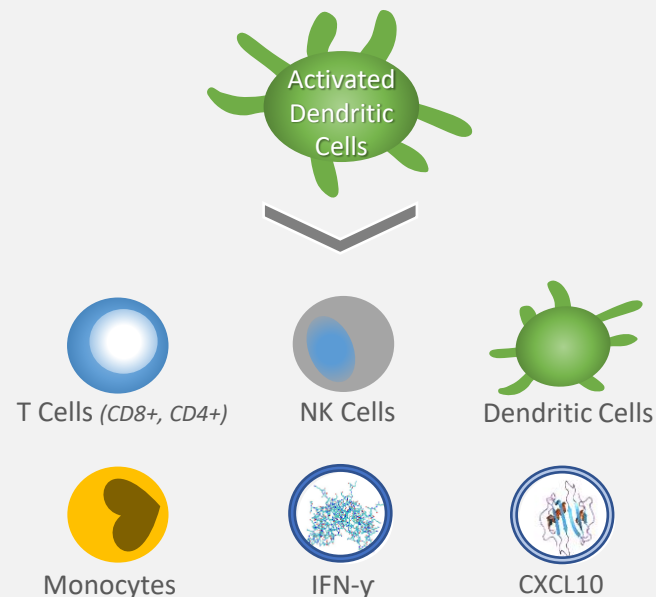
# Immutep's Pioneering Immunotherapies

Only company with multiple therapeutic approaches around LAG-3 / MHC Class II interaction

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

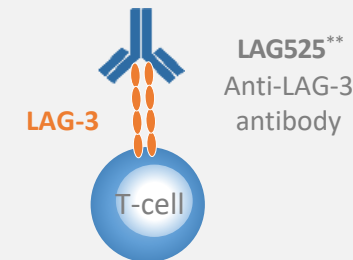


Activating APC (e.g., dendritic cells) with efti leads to a systemic anti-cancer immune response. Can work well in "hot", "tepid", and "cold" tumours.



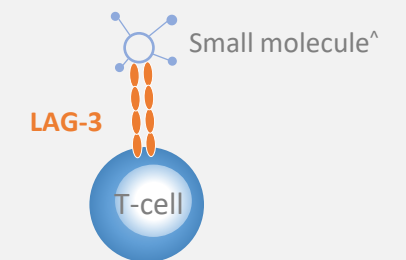
LAG-3 on T cells binds to MHC Class II molecules<sup>#</sup> on antigen-presenting cells (APC)

## Targeting LAG-3 on T cells with an Antagonist Antibody



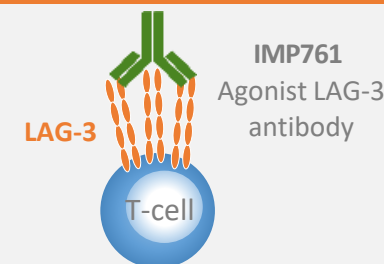
Blocking LAG-3 on T cells prevents LAG-3-mediated co-inhibitory signaling, allowing T cells to attack cancer

## Targeting LAG-3 on T cells with Small Molecules



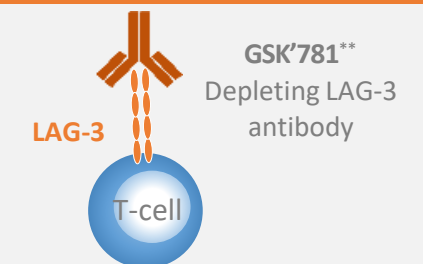
Small molecules blocking LAG-3 could offer convenience of an oral pill at a fraction of the cost of biologics

## Targeting LAG-3 on T cells with an Agonist Antibody



Increasing LAG-3's natural down-regulation 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

# 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
- **Mature median Overall Survival of 35.5 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\*\*

**KEYTRUDA®**  
(pembrolizumab) injection 100 mg

~\$20.9 billion

**OPDIVO®**  
(nivolumab)

~\$8.2 billion

**LIBTAYO®**  
(cemiplimab-rwlc)  
Injection 350 mg

~\$468.9 million

**Jemperli®**  
(dostarlimab-gxly) injection 500 mg

~\$26 million

**\$29.6 Billion**  
in 2022 sales

### Anti-PD-L1\*\*

**TECENTRIQ®**  
atezolizumab  
1200 mg / 1000 mg  
INJECTION FOR IV USE

~\$3.9 billion

**IMFINZI®**  
durvalumab  
Injection for Intravenous Use 50 mg/mL

~\$2.8 billion

**BAVENCIO®**  
avelumab Injection  
20 mg/mL

~\$914.6 million

**\$7.6 Billion**  
in 2022 sales

# Acheivements in FY23



ImmuteP, or its partners, aim to obtain marketing authorisation in multiple indications to fully exploit the potential of efti

**Non-Small Cell  
Lung Cancer  
TACTI-004: Phase III**

- Positive feedback from the FDA
- Ongoing preparation for Phase 3 clinical trial
- FDA Fast Track designation

**Head & Neck Cancer  
TACTI-003: Phase IIb**

- Initial safety data reviewed by IDMC and recommended the trial continue with no modifications
- Trial in Progress poster at SITC 2022
- Recruitment nearing completion
- FDA Fast Track designation

**Metastatic Breast Cancer  
AIPAC-003: Phase II/III**

- Design of Phase II/III AIPAC-003 trial agreed with FDA and EMA
- Preparations, initiation and first patient dosed
- 6 patients currently in open-label lead-in with 90mg

**Expansion**

- EFTISARC-NEO IIT trial in soft tissue sarcoma
- INSIGHT-005 Phase I trial in metastatic urothelial carcinoma in collaboration with Merck KGaA

# Financial Summary

- Strong cash position of app. A\$110.1 million as of 30 Sep 2023 post A\$80 million capital raise
- Immutep will continue to manage its strong cash balance carefully as it pursues its overall development strategy for efti and IMP761
- Total revenue and other income were A\$5.20 million in FY23 compared to A\$6.76 million in FY22
- Research and development and intellectual property expenses increased to A\$36.3 million in FY23
- Increases in clinical trial costs drove the increase in R&D expenses and the net loss
- As at 30 June 2023, the Company had 41 employees of which 68% were female compared to as at 30 June 2022, where 66% were female from a total of 35 employees. 50% of the Company's senior executives were female as at both dates.

	FY23	FY22
Revenue and other income	A\$5.2M	A\$6.8M
G&A Expenses	A\$8.7M	A\$7.2M
R&D and IP expenses	A\$36.3M	A\$31.3M
Net loss	A\$39.9M	A\$32.2M
Net operating cash outflow	A\$35.4M	A\$30.2M
Cash and cash equivalents at the end of the financial year	A\$123.4M	A\$80.0M
Cash and cash equivalents at 30 September	A\$110.1M	A\$73.9M

**Strong cash runway to early CY2026\***

# Commercial Scale Efti Manufacturing

- Successful scale-up with first 2,000L manufacturing run completed at WuXi Biologics in December 2022
- Comparability of drug substance and drug product manufactured at 2,000L scale achieved in Sept 2023
- Regulatory authorisation granted for clinical trial use across multiple European countries including:

- Germany
- Belgium
- Denmark
- United Kingdom



**不断加强客户粘性和满意度 赢得客户的信任**  
Continuously Improving Customers' Satisfaction Wins Their Trust

**广泛的合作伙伴关系**  
Extensive Partnership

近600家全球合作伙伴, 包括所有全球排名前20的跨国药企  
Trusted by nearly 600 partners worldwide, including ALL of the TOP 20 pharmaceutical companies

**权威机构的认可**  
Awards and Industry Recognition

在行业领导力、资本市场表现、雇主品牌、ESG  
Widely recognized by multiple organizations for capital performance, employer brand and ESG

**恪守全球最高质量监管标准**  
Commitment to the Highest Quality Standard

14+ 厂获GMP认证生产  
14+ facilities certified

中国首家通过美国、欧盟、中国、日本等10余家权威药品监管机构GMP检查的生物制药企业  
The first biologics manufacturer in China certified by over 10 major international regulatory agencies from the U.S., Europe Union, China, Japan and more

Logos of partner companies: MSD, GSK, Bayer, Genentech, ONO, Lilly, AstraZeneca, Takeda, Johnson & Johnson, TaiMed, Amicus, VIR, BICPIC, ARCUS, Ambrx, SURFACE, biatla, CANbridge, elicio, ZenoBio, Marengo, CUGENE, celsius, CENTESSA, aravive, INVIVYD, Trinomab, xilio, PPM, HARBOUR, glori, 天境生物, Brii, 正大天晴药业集团, PALLEON, 基石药业, INHIBRX, Oxford, EpimAb, nell one, ablbio, AC Immune, MYTHIC, pieris, Mitsubishi Tanabe Pharma.

Awards: CDMO LEADERSHIP AWARDS 2023, Institutional Investor, 最受尊崇企业, 最佳ESG奖, 中国大学生喜爱雇主.

Regulatory logos: FDA U.S. FOOD & DRUG ADMINISTRATION, EUROPEAN MEDICINES AGENCY, HSA, Health Canada.

**Manufacturing scale-up is an important step towards potential commercial production of efti**

# TACTI-002 Phase II Trial – Part A

## Efti + Pembrolizumab Combination in First Line Treatment of Metastatic Non-Small Cell Lung Cancer

Data Update from ESMO 2023 Mini Oral Presentation


**MADRID 2023 ESMO congress**

### Combining the antigen-presenting cell activator eftilagimod alpha (soluble LAG-3) and pembrolizumab: overall survival data from the 1<sup>st</sup> line non-small cell lung carcinoma cohort of TACTI-002

*Phase II study of soluble LAG-3 combined with an anti-PD-1 antibody in 1<sup>st</sup> line metastatic NSCLC*

**Carcereny E<sup>1</sup>**; Felip E<sup>2</sup>; Majem M<sup>3</sup>; Doger B<sup>4</sup>; Clay T<sup>5</sup>; Bondarenko I<sup>6</sup>; Peguero J<sup>7</sup>; Cobo Dols M<sup>8</sup>; Forster M<sup>9</sup>; Ursol G<sup>10</sup>; Kalinka E<sup>11</sup>; Garcia Ledo G<sup>12</sup>; Vila Martinez L<sup>13</sup>; Iams W<sup>14</sup>; Krebs MG<sup>15</sup>; Kefas J<sup>16</sup>; Efthymiadis K<sup>17</sup>; Perera S<sup>18</sup>; Mueller C<sup>19</sup>; Triebel F<sup>20</sup>

<sup>1</sup>Catalan Institute of Oncology Badalona-Hospital Germans Trias i Pujol, B-ARGO group, Badalona, Spain; <sup>2</sup>Vall d'Hebron University Hospital, Barcelona, Spain; <sup>3</sup>Hospital de la Santa Creu i Sant Pau, Barcelona, Spain; <sup>4</sup>Fundación Jiménez Díaz, Madrid, Spain; <sup>5</sup>St John of God Subiaco Hospital, Perth, Australia; <sup>6</sup>City Clinical Hospital № 4 of Dnipro Regional Council, Dnipro, Ukraine; <sup>7</sup>Oncology Consultants, P.A., Houston, US; <sup>8</sup>Hospital Regional Universitario de Málaga, Málaga, Spain; <sup>9</sup>UCL Cancer Institute/University College London Hospitals NHS Foundation, London, UK; <sup>10</sup>St Luke's Hospital - Medical and Diagnostic Center "Acinus", Kropyvnytskyi, Ukraine; <sup>11</sup>Instytut Centrum Zdrowia Mafki Polki, Lodz, Poland; <sup>12</sup>HIM Universitario Sanchinarro, Madrid, Spain; <sup>13</sup>Parc Tauli Sabadell Hospital Universitari, Barcelona, Spain; <sup>14</sup>Vanderbilt Ingram Cancer Center Division of Hematology/Oncology, Nashville, Tennessee, US; <sup>15</sup>Division of Cancer Sciences, The University of Manchester and The Christie NHS Foundation Trust, Manchester, UK; <sup>16</sup>University College London Hospitals NHS Trust, London, UK; <sup>17</sup>UCLH NHS Foundation Trust, London, UK; <sup>18-19</sup>Clinical Development, Immutech GmbH, Berlin, Germany; <sup>20</sup>Research & Development, Immutech S.A.S., Orsay, France




# 1st line Non-Small Cell Lung Cancer

## Epidemiology & Unmet Need



### 1L NSCLC Epidemiology<sup>1,2</sup>

- 1.87 million NSCLC diagnoses per annum worldwide
- NSCLC is the highest cause of death among all cancers
- Current total addressable market (TAM) of NSCLC drug market is ~\$24 billion
- Approximately one million patients per annum that develop metastatic NSCLC disease & are eligible to receive anti-PD-(L)1 therapy
- Up to 80% patients do not respond to immune checkpoint inhibitor (ICI) monotherapy & median Overall Survival (OS) is still under 24 months for most patients
- ICI & chemo combinations have limited Duration of Response & high discontinuation rates due to toxicity

**High unmet medical need for well tolerated, efficacious and durable treatment options, preferably chemo-free**

- **NSCLC drug market is expected to nearly double to US\$48 billion in 2031, and immune checkpoint inhibitors are expected to earn more than half of these sales (US\$26 billion)<sup>3</sup>**
- **Efti could double the addressable NSCLC patient population with an effective, safe chemo-free IO regimen (i.e., patients with either 1-49% and/or  $\geq$ 50% PD-L1 TPS)**



# TACTI-002 / KN-798 Trial Overview and Baseline Characteristics

Part A: Large Phase II trial (N=114) in metastatic 1st Line non-small cell lung cancer (1L NSCLC)



## Trial Design (Part A)

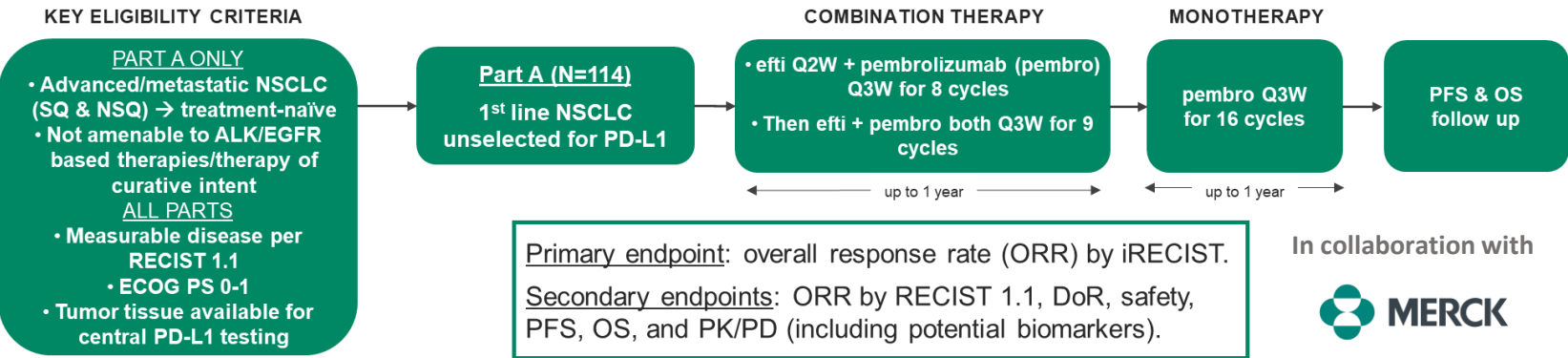
- Phase II, open label, Simon’s two stage
- Six countries (US, UK, ES, PL, UA, AU)
- 18 sites
- 114 patients enrolled

## Baseline characteristics

- Trial enrolled 1L NSCLC patients regardless of PD-L1 Tumor Proportion Score (TPS) expression
- ~75% of patients have PD-L1 TPS of <50%
- Lower proportion of patients with PD-L1 TPS ≥50% than would be expected

## Safety

- No new safety signals compared to pembrolizumab monotherapy



Baseline characteristics for TACTI-002 Part A		N=114	
Age, median (range), years		67 (44-85)	
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 <sup>1</sup> (%)	< 1%	Central only 32 (35.6)	Central + local 37 (34.3)
	1-49%	38 (42.2)	42 (38.9)
	≥ 50%	20 (22.2)	29 (26.9)
Previous therapy, n (%)	Radiotherapy	38 (33.3)	
	Surgery	23 (20.2)	
	Systemic therapy for non-metastatic disease	26 (22.8)	

Note: Patients were recruited according to Simon’s optimal two-stage design: during the first stage, 17 pts were recruited; second stage recruitment (n=19) was opened only after the number of responses was above 4. An extension stage (n=78) could be added if there were above 12 responses. In total, 114 pts were enrolled.

# Excellent Survival Benefit across all PD-L1 Expression Levels

Strong efficacy with any PD-L1 (TPS $\geq$ 1%) and PD-L1 negative (TPS <1%), low (TPS 1-49%), high (TPS  $\geq$ 50%)

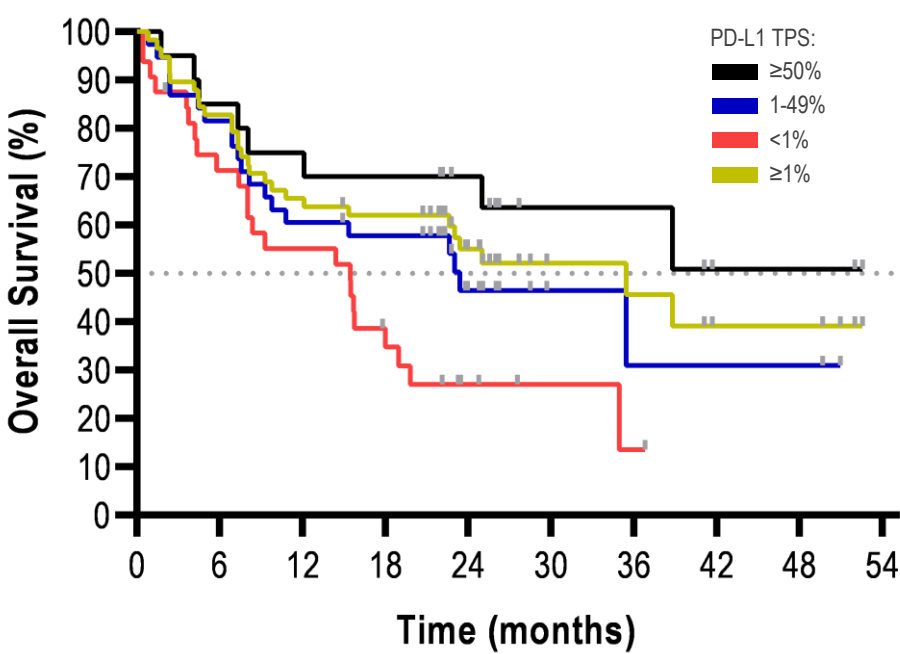


Promising efficacy with strong Overall Response Rate (ORR), Progression Free Survival (PFS), Duration of Response (DOR), and Overall Survival (OS) visible across all PD-L1 TPS subgroups including negative and low expressing patients<sup>1,2</sup>

## Tumor Response by Central PD-L1<sup>1</sup>, N=90

Efficacy parameter	TPS <1% n (%), N=32	TPS 1-49% n (%), N=38	TPS $\geq$ 50% n (%), N=20	TPS $\geq$ 1% n (%), N=58
ORR <sup>2,3</sup> , % (95% CI) <sup>4</sup>	31.3 (16.1-50.0)	44.7 (28.6-61.7)	55.0 (31.5-76.9)	48.3 (35.0-61.8)
mPFS <sup>2</sup> , months (% events)	4.2 (90.6)	9.3 (71.1)	16.5 (70.0)	11.2 (70.7)
mDoR <sup>2</sup> , months (% events)	20.7 (57.1)	NR (35.7)	18.7 (63.6)	24.2 (48.0)
mOS, months (% events)	15.5 (71.9)	23.4 (52.6)	NR (40.0)	35.5 (48.3)

Overall Survival by central PD-L1<sup>1</sup>

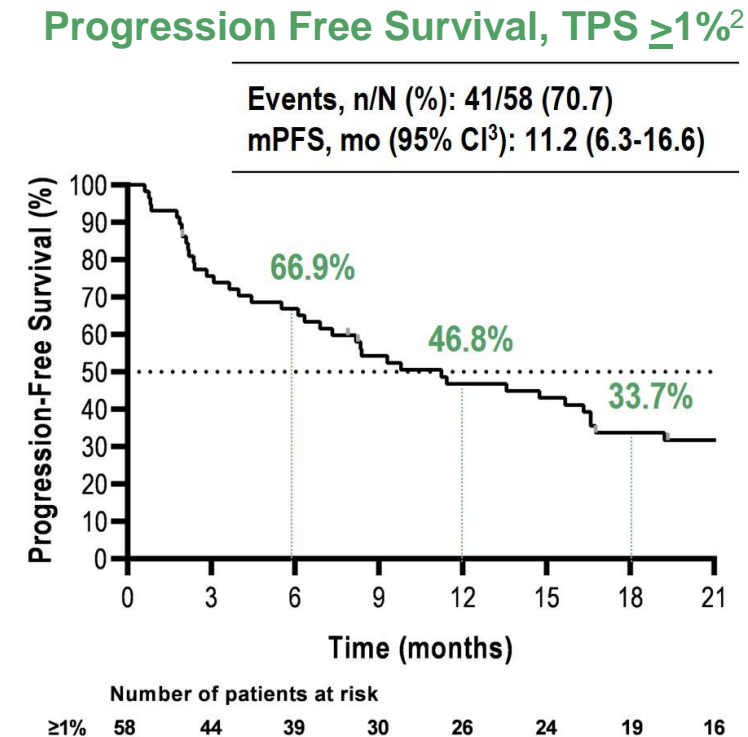
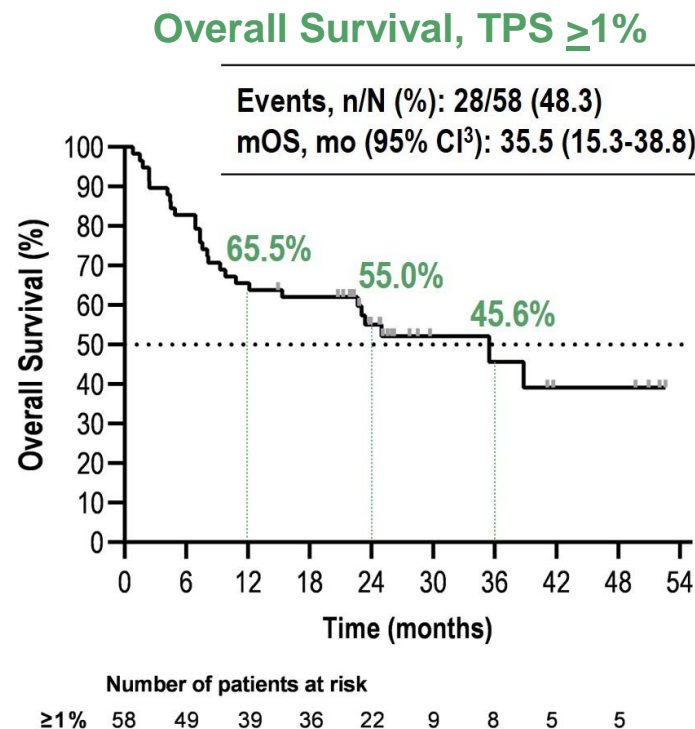


Number of patients at risk								
≥50%	20	18	16	15	12	7	6	3
1-49%	38	32	24	22	11	4	4	3
<1%	32	23	18	10	5	3	3	
≥1%	58	49	39	36	22	10	9	5

# Significant 35.5-Month Median OS Reached in TPS $\geq 1\%$

*Patients with any PD-L1 expression or TPS  $\geq 1\%$  represent ~65% of the 1L NSCLC patient population*

- Significant median OS of 35.5 months<sup>1</sup>
- 48.3% ORR, median PFS of 11.2 months, and median DoR of 24.2 months
- 12-month PFS- and 36-month OS-rate are very promising at 46.8% and 45.6%, respectively
- Strength of data in PD-L1 TPS 1-49% (N=38, 66% of TPS  $\geq 1\%$  group<sup>#</sup>), including 44.7% ORR, 9.3-month mPFS, mDOR not reached, and 23.4-month mOS, contributed significantly to overall results in TPS  $\geq 1\%$  unlike other IO-IO combinations



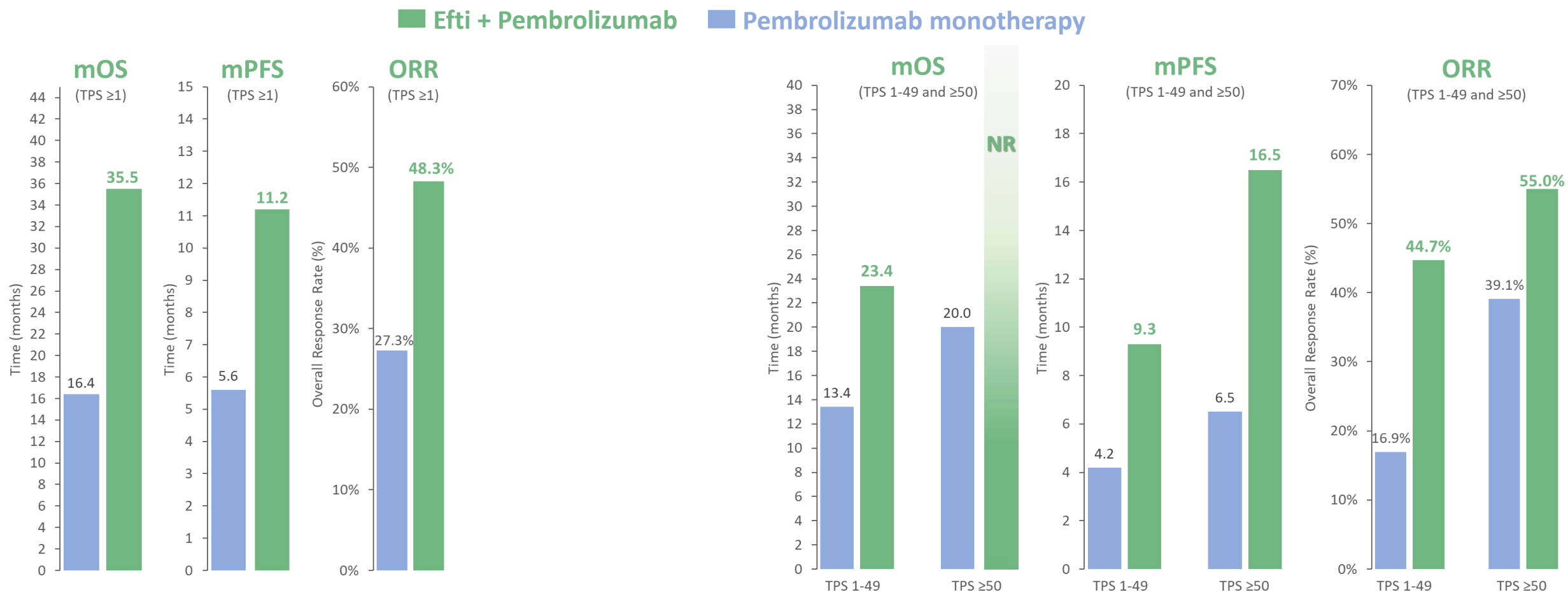
<sup>1</sup> The mOS in TPS  $\geq 1\%$  was attained with both central assessment of PD-L1 (N=58) and in larger patient group with central + local assessment of PD-L1 (N=71). <sup>2</sup> iRECIST and RECIST 1.1 for PFS was comparable with 61.6%, 43.7% and 32.8% at 6, 12, and 18 months, respectively, as per RECIST1.1.

<sup>3</sup> 95% confidence intervals calculated using Clopper-Pearson method or using Kaplan-Meier survival analysis method.

<sup>#</sup> For reference, in TPS  $\geq 1\%$ , TACTI-002 has 66% patients with TPS 1-49% and 34% with TPS  $\geq 50\%$ , which compares to KN-042 with ~53% patients with PD-L1 and ~47% patients with PD-L1 TPS  $\geq 50\%$ .

# Benchmarking against Pembrolizumab Monotherapy

Robust Overall Survival, Overall Response Rates, and Progression-Free Survival across all PD-L1 levels



### TPS ≥1%

- Efficacy increased by 1.5- to 2-fold for all important efficacy parameters while maintaining safety and durability
- For patients with SD, BOR translates to meaningful OS
- Confidence intervals do not overlap for ORR

### TPS 1-49% and TPS ≥50%

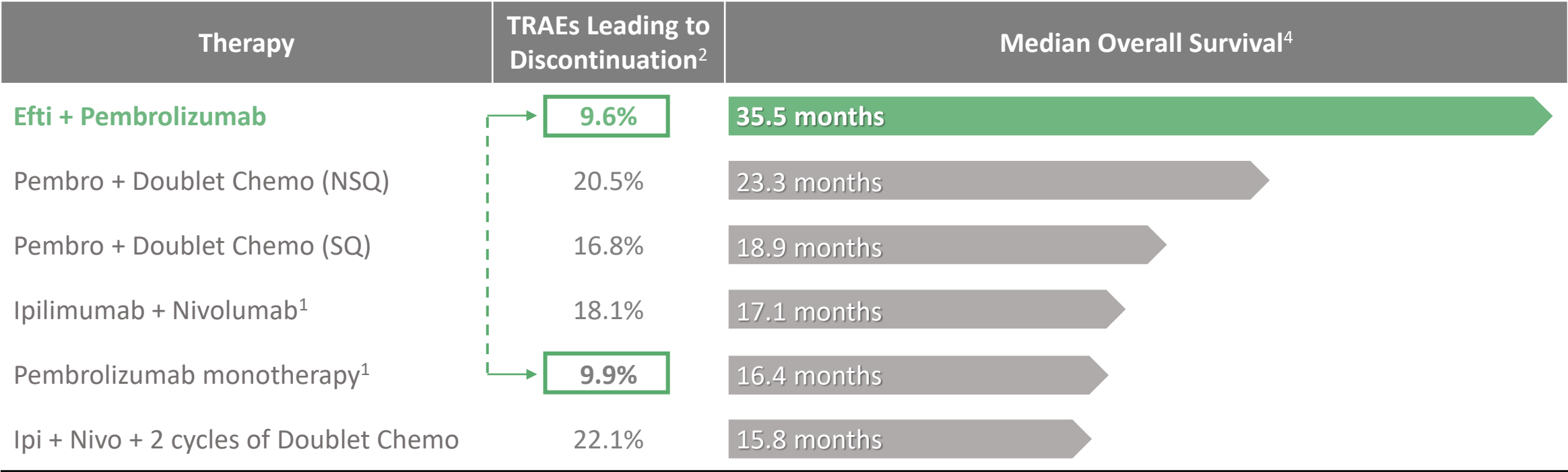
- In TPS 1-49%, efficacy increased by 1.5- to over 2-fold for all important efficacy parameters while maintaining safety and durability
- In TPS ≥50%, strong ORR, PFS & mOS that strengthened as not reached with August 2023 cut-off, up from 38.8 months with March 2023 cut-off

# Benchmarking against Standard-of-Care in 1L NSCLC

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



Differentiated OS from **Efti + Pembro** that extends well beyond all standard-of-care regimens achieved with a **favorable safety profile** that is comparable to pembrolizumab monotherapy



NSQ = Non-squamous; SQ = Squamous



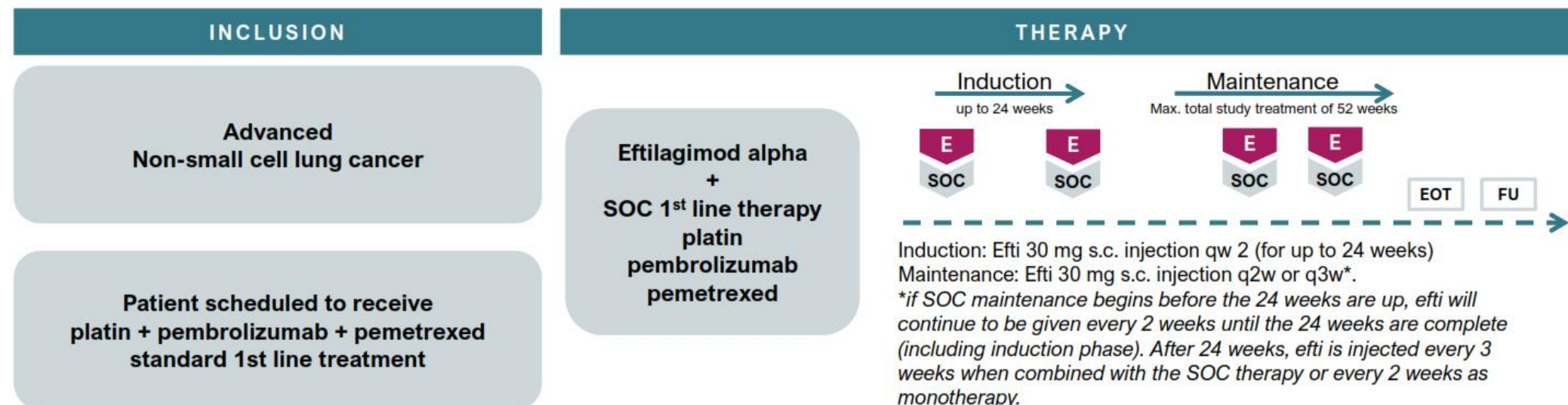
# INSIGHT-003 Phase I Trial:

Efti + Pembrolizumab + Chemotherapy  
Combination in Metastatic Non-Squamous First Line NSCLC

Data from ESMO poster

# INSIGHT-003: IO + IO + Chemo Combination Trial

## INSIGHT-003 - Investigator-initiated study focusing on front line non-squamous NSCLC adenocarcinomas



### Design:

- Evaluating triple combination therapy consisting of efti in conjunction with carboplatin/pemetrexed & anti-PD-1 therapy
- Study focuses on pts with TPS <50%
- Trial assessing safety, tolerability and initial efficacy

### Key aspects:

- 21 pts recruited as of Jan 2023 → extension opened in summer 2023 and trial has already recruited six additional patients
- Strong 67% ORR and 91% DCR detailed in ESMO abstract with older cutoff date (updated data to be presented at ESMO with later cutoff date and more mature data)
- Triple combination has been well tolerated & appears to be safe. No occurrence of unacceptable toxicities.

### Outlook:

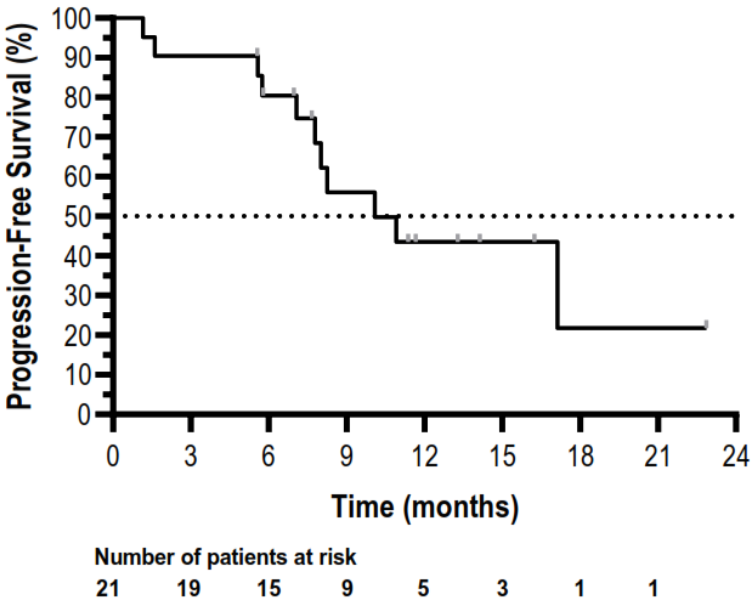
- Immunetep is looking forward to have the additional patients recruited soon → expected by H1 2024
- Current IO-chemotherapy combinations generate ORR near 40% level for patients with TPS <50%. Goal is to generate a higher ORR as compared to any approved chemo + anti-PD-1 combination in this TPS <50% setting that would warrant further investigation.

# Efti + anti-PD1 + Chemo in NSQ 1st line NSCLC

Efficacy - ITT Population

Baseline parameters		N=21
Age, median (range), years		65 (55-73)
Sex, n (%)	Female / Male	7 (33) / 14 (67)
ECOG PS score, n (%)	0 / 1	11 (52) / 10 (48)
Metastatic disease, n (%)	Yes / No	19 (91) / 2 (9)
PD-L1 expression TPS, n (%)	<1%	7 (33)
	1-49%	10 (48)
	≥50%	4 (19)

Best Overall Response (BOR) by RECIST 1.1	N=21 n (%)
Complete Response	0 (0.0)
Partial Response	15 (71.4)
Stable Disease	4 (19.0)
Progression	2 (9.5)
<b>ORR confirmed, n (%)</b>	<b>14 (66.7)</b>
<b>ORR unconfirmed, n (%)</b>	<b>15 (71.4)</b>
DCR, n (%)	19 (90.5)



- Triple combination has been well tolerated & appears to be safe. No occurrence of unacceptable toxicities.
- At data cut-off, ORR of 71.4%
- With a median follow up of 12.4 months, the ITT population had a mPFS of 10.1 months and mOS was not reached.

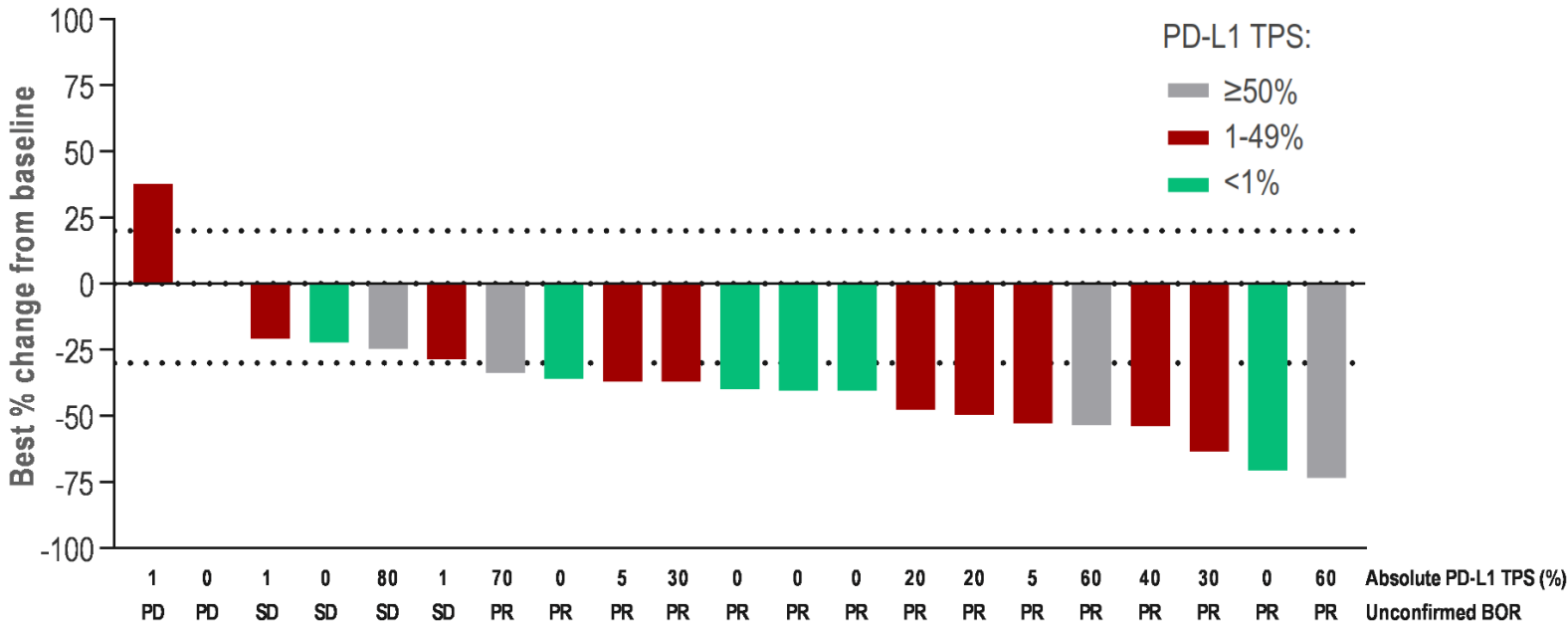
# Efti + anti-PD1 + Chemo in NSQ 1st line NSCLC

Efficacy - by TPS level

Tumor Response	PD-L1 expression level (TPS)			
	<1%, N=7	1-49%, N=10	≥50%, N=4	<50%, N=17
ORR* unconfirmed, n (%)	5 (71.4)	7 (70.0)	3 (75.0)	12 (70.6)
ORR* confirmed, n (%)	5 (71.4)	6 (60.0)	3 (75.0)	11 (64.7)
mPFS*, months (% events)	10.1 (42.9)	10.9 (60.0)	7.1 (50.0)	10.9 (52.9)
mOS, months (% events)	17.4 (28.6)	NR (10)	NR (25)	NR (17.6)

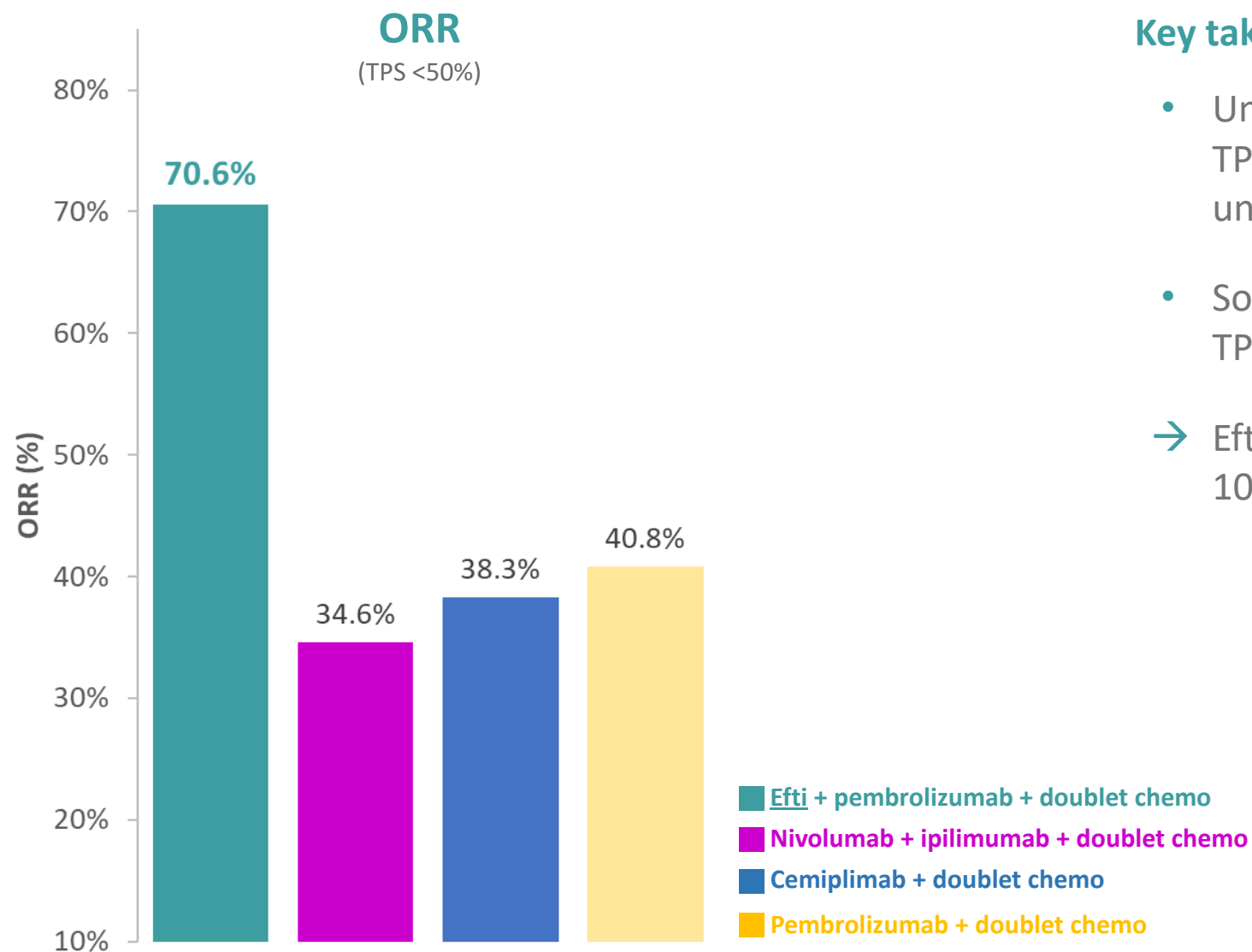
\* Per RECIST 1.1.

- Patients with negative or low PD-L1 status (TPS <50%) showed ORR of 70.6%
- Responses are deep



# Benchmarking

Efti + anti-PD1 + Chemo vs. SoCs in PD-L1 TPS <50%



## Key takeaways:

- Until now chemo combination mostly used in pts with TPS <50% → ORR of SoC around ~40% foremost → high unmet medical need especially for long-term outcomes
  - SoC historically achieved around ~7.5 months mPFS in TPS <50% population
- Efti on top of chemo + PD-1 leads to ORR >> 60% and 10.9 months mPFS in INSIGHT-003



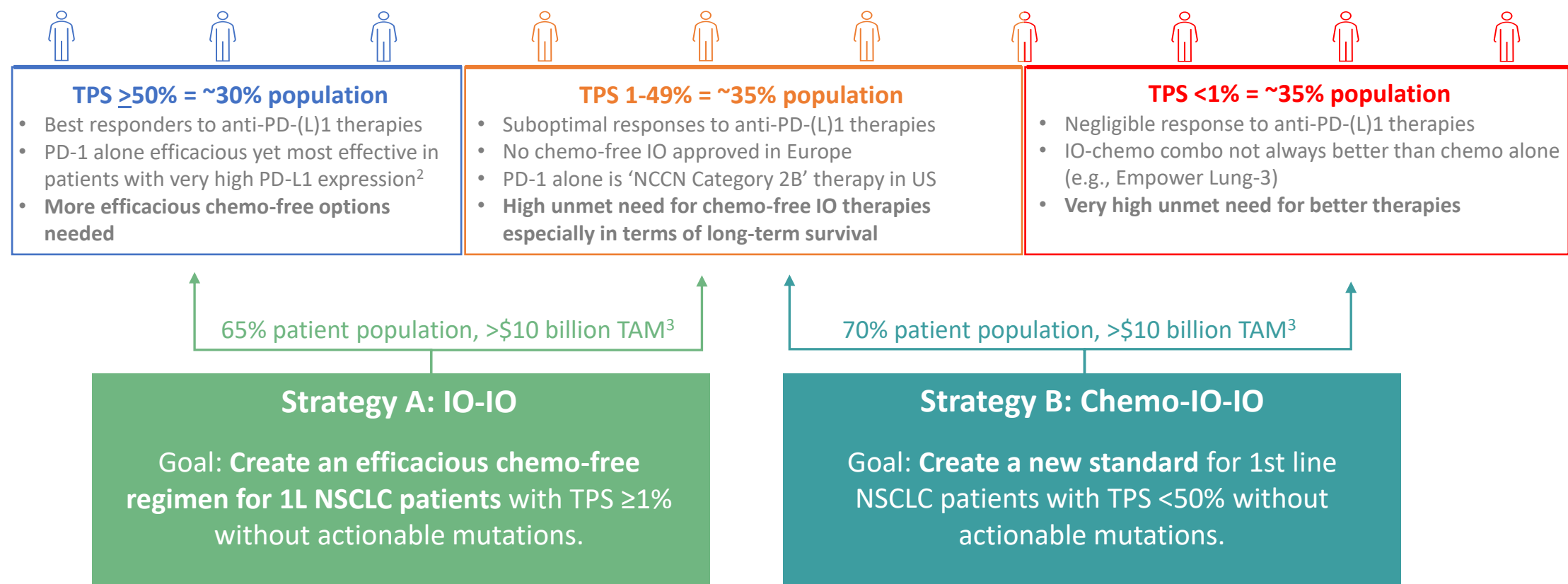
# Efti Uniquely Positioned in 1st line Non-Small Cell Lung Cancer



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)<sup>1</sup>

PD-1 expression levels have substantial impact on clinical outcomes for anti-PD-(L)1 therapies. The strength of the clinical data presented at ESMO 2023, SITC 2022, and ASCO 2022 shows *efti has significant potential to address all PD-L1 levels.*



(1) Patient population estimates by PD-L1 expression: based on publications of registrational trials KN-001, KN-189, KN-407, EMPOWER-Lung 3 and TACTI-002 all come Phase II trial. (2) Aguilar et al. Ann. Onc. 2019, 1;30(10):1653-1659. DOI: 10.1093/annonc/mdz288 (3) Market size estimates are based on intelligence data from GlobalData and Nature Reviews Drug Discovery 22, 264-265 (23 Jan 2023) doi: <https://doi.org/10.1038/d41573-023-00017-9>. Note Efti + pembrolizumab has Fast Track Designation in >1% TPS in 1L NSCLC.

# Pipeline Update

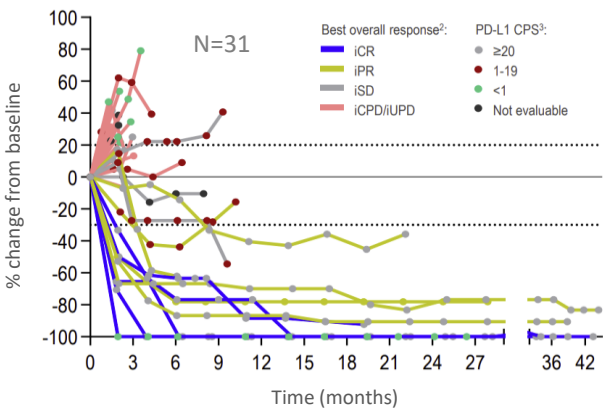
# Efti + Pembro in 2nd Line Head & Neck Squamous Cell Carcinoma



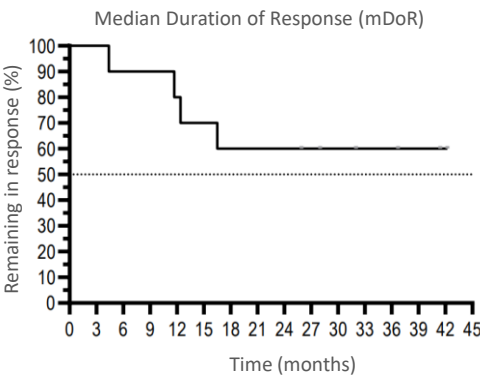
Strong, long-lasting efficacy and favourable safety; positive benchmarking to pembro monotherapy

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

Deep, durable responses from efti + pembro across all PD-L1 levels including 5 Complete Responses<sup>1</sup>



Median DoR Not Reached\*  
(efti driving durable responses)



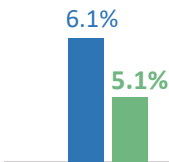
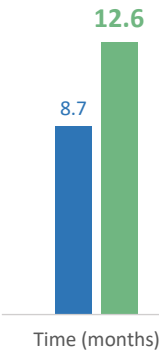
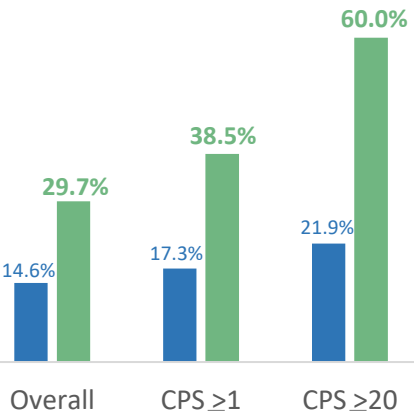
More than double  
Overall Response Rates

8X increase in Complete  
Response rate

~50% increase in Overall  
Survival in CPS  $\geq 1$ \*

Discontinuation due to  
treatment related AEs

Efti + pembro  
Pembro monotherapy<sup>#</sup>



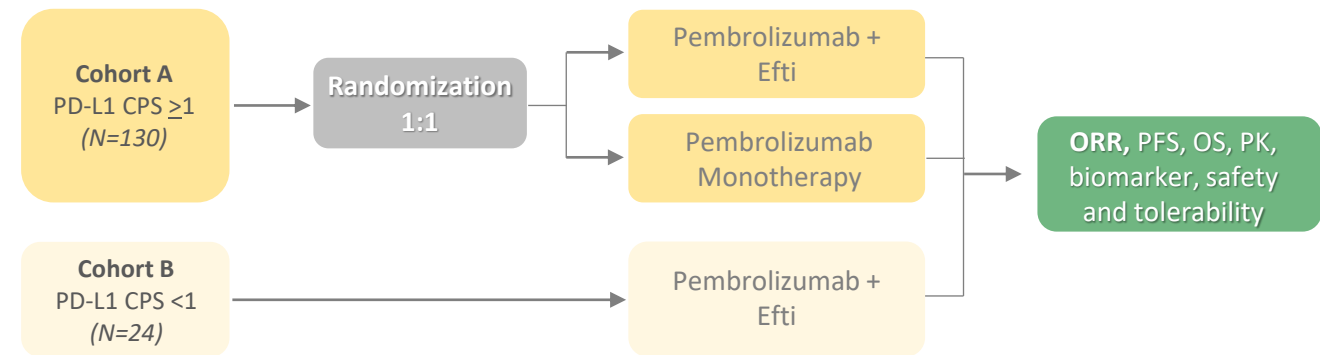
\*ASCO 2023. Final results from TACTI-002 Part C: A Phase II study of eftilagimod alpha (soluble LAG-3 protein) and pembrolizumab in patients with metastatic 2nd line head and neck squamous cell carcinoma unselected for PD-L1 (Data cut-off March 31, 2023) <sup>#</sup>Data for Keytruda (pembrolizumab monotherapy or 'pembro mono') derived from KN-040 trial. <sup>1</sup> All pts with  $\geq 1$  post-baseline CT scan with evaluable response; n=31. Pts listed with IPR/ICR whether confirmed or unconfirmed. <sup>2</sup> Best overall response by iRECIST (local assessment). <sup>3</sup> Central PD-L1 assessment with Dako kit.

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

## TACTI-003 - Randomised 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  $\geq 1$ , CPS 1-19, CPS  $\geq 20$ , and CPS  $< 1$ 
  - In Cohort A (N=130), trial design includes 1L HNSCC patients whose tumours express PD-L1 (CPS  $\geq 1$ ) with CPS 1-19 and CPS  $\geq 20$  used as stratification factors
  - 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
- Recruitment nearing completion

### TACTI-003 Trial Design



**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)

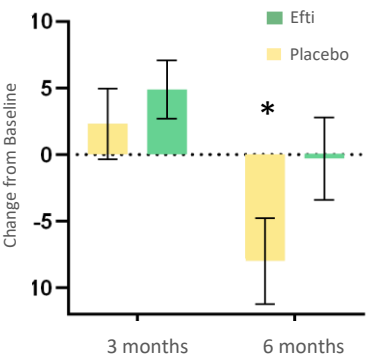
Positive trends in ORR, DCR and OS

	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

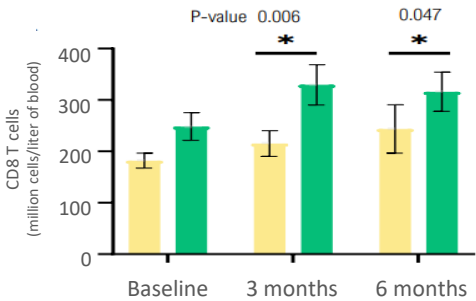
Pre-specified Subgroups	Median Overall Survival	Hazard Ratio	P-value
Low Monocytes	+19.6 months	HR 0.44	p=0.008
Under 65 Years	+7.5 months	HR 0.66	p=0.017
Luminal B	+4.2 months	HR 0.67	p=0.049

Sustained Quality of Life (QoL)  
vs significant decline in placebo grp\*

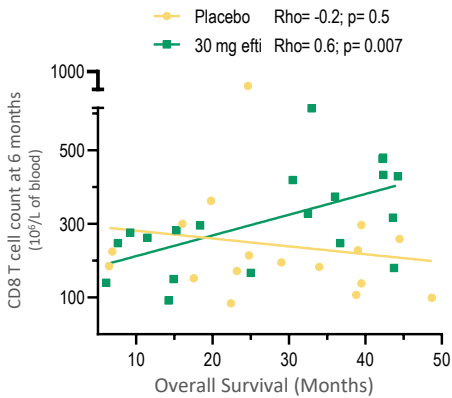


CD8+ T cell count increased significantly

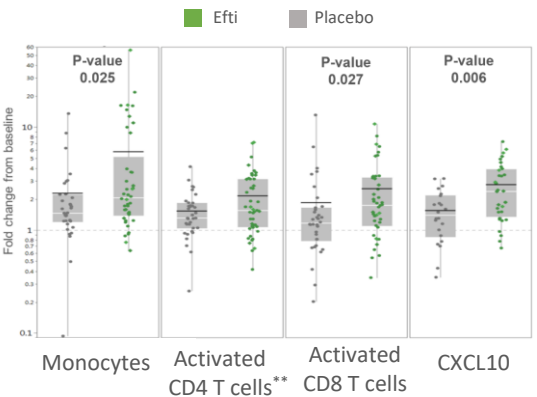
Blood samples taken before dosing ensuring only minimal residual effect was measured



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

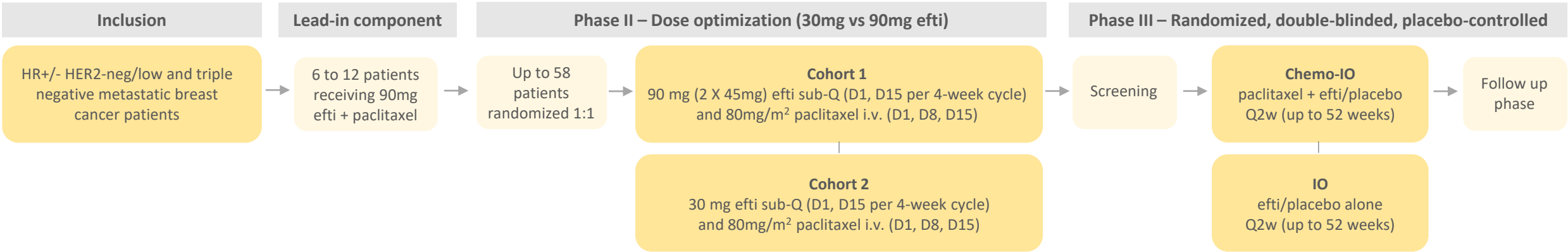
AIPAC-003: Active Immunotherapy (Eftilagimod Alpha) and **PAC**litaxel



## 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 cases<sup>1</sup>
- 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\*; currently 6 patients on trial with 90 mg

### AIPAC-003 Study Design





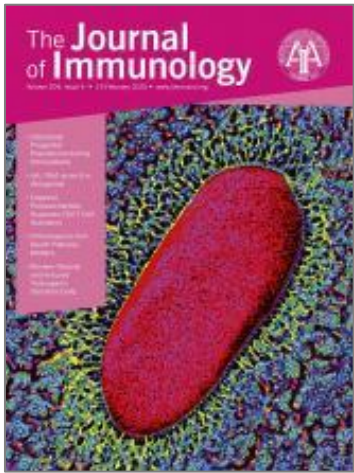
Current Opinion in Immunology  
Volume 67, December 2020, Pages 1-9



## Inhibitory receptor agonists: the future of autoimmune disease therapeutics?

Stephanie Grebinoski<sup>1,2</sup>, Dario AA Vignali<sup>1</sup> ✉

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.

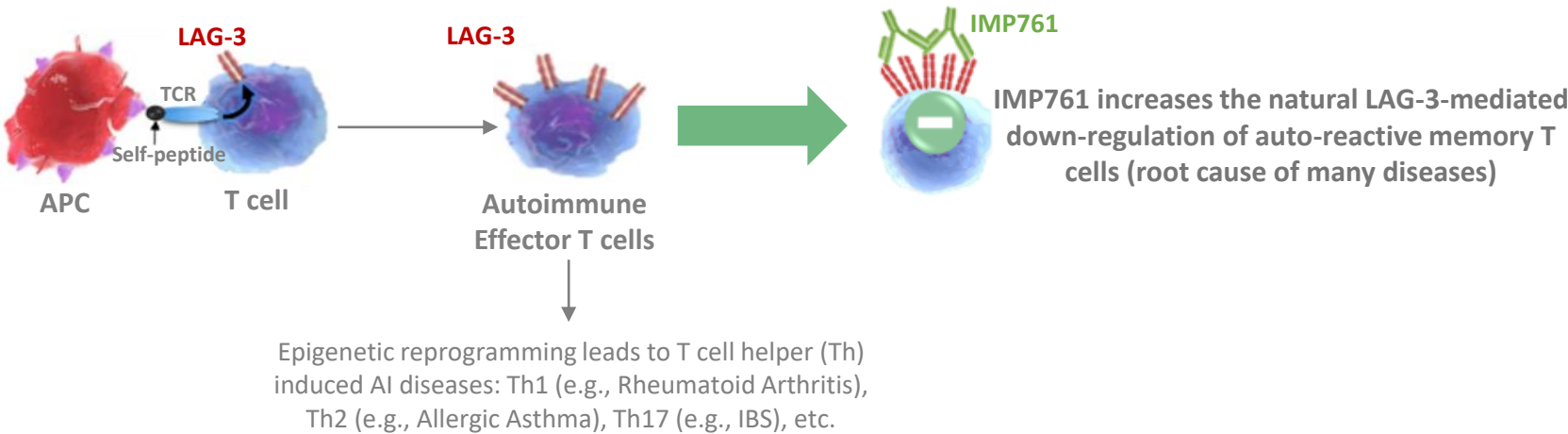


A LAG-3-Specific Agonist Antibody for the Treatment of T Cell-Induced Autoimmune Diseases\*



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

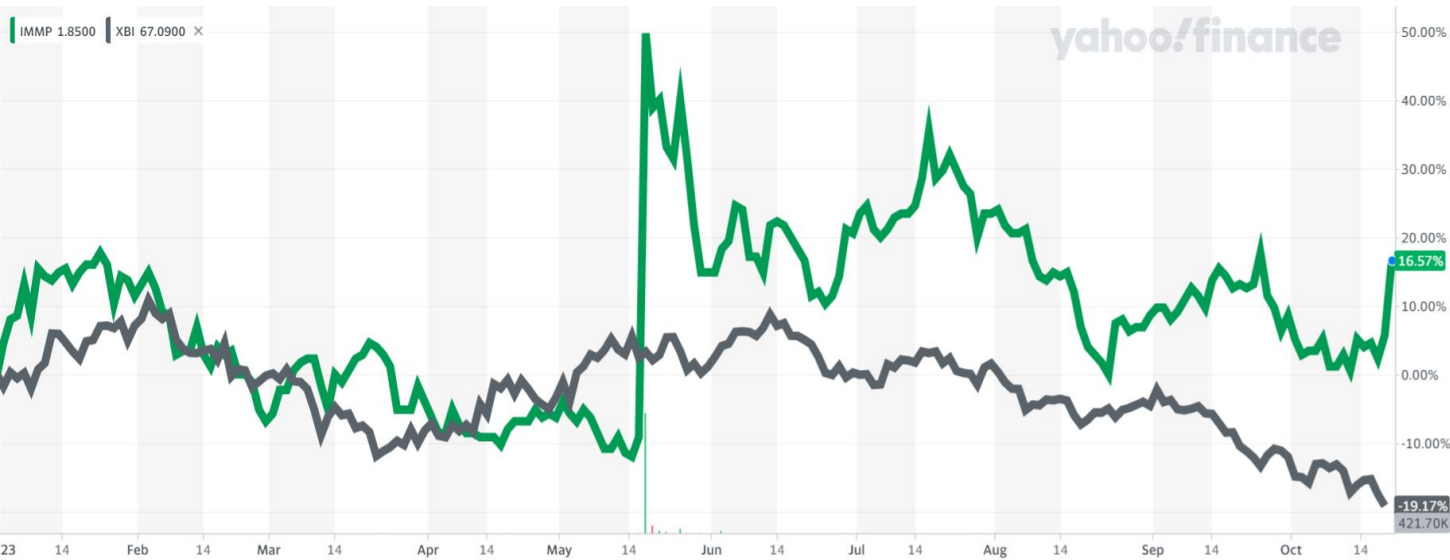
As the world's first immunosuppressive agonist antibody to LAG-3 acting upstream on activated T cells, IMP761 targets the root cause of many autoimmune diseases and represents a potential game-changer in the treatment landscape. Expect to enter clinic by mid-2024.



# Outlook & Milestones Ahead

# Biotech Sector Year-to-Date

- NASDAQ Biotechnology Index is down 19% YTD as the market weighs the prospects of a “higher for longer” strategy by the US Federal Reserve



- Sector continues to face reduced capital availability in a landscape of higher rates and tightening credit conditions with high geopolitical uncertainty
- Sector performance is expected to improve as the year progresses, with select high-quality, catalyst-driven smaller-cap biotechnology Companies.
- Sector’s capacity to innovate as a whole remains robust and there are signs big institutions are re-entering the sector.

## Most Active Share Volume

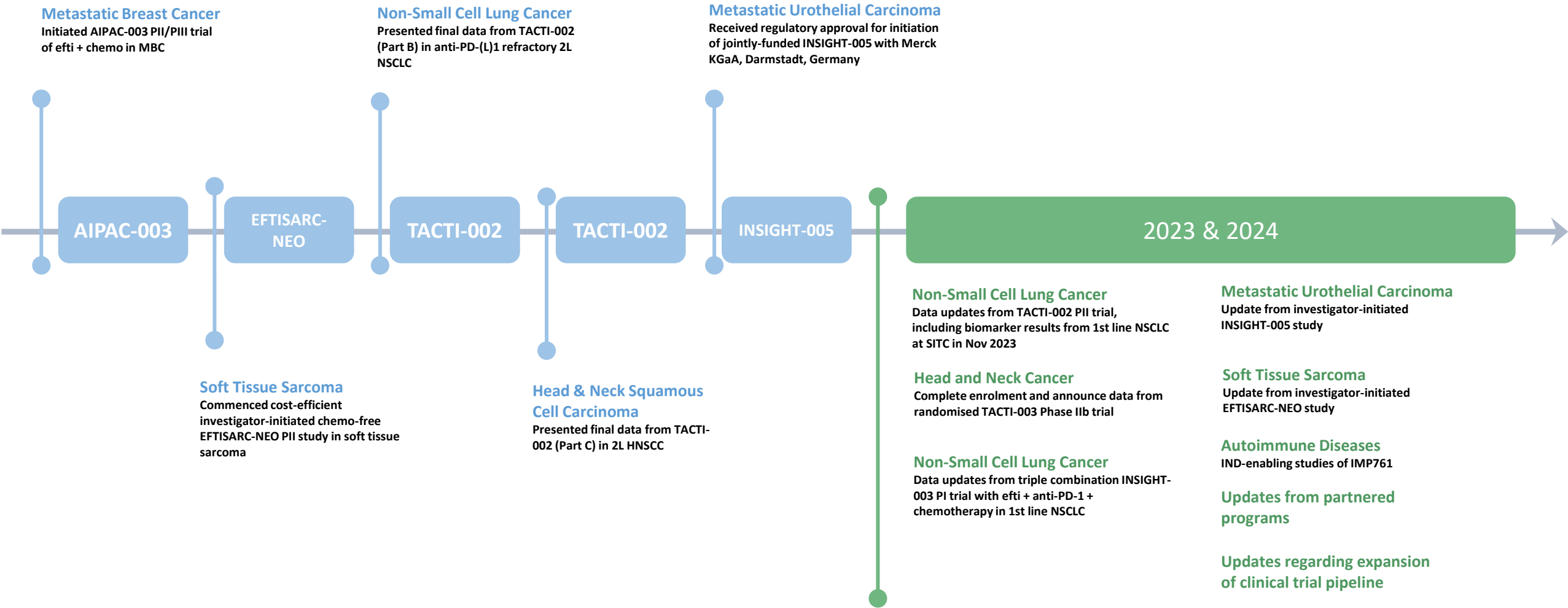
Symbol	Name	Last	Change	Share Volume
TSLA	Tesla, Inc.	\$173.86	+7.34	118,531,608
IMMP	ImmuteP Limited	\$2.62	+1.03	74,683,916
AMD	Advanced Micro Devices, Inc.	\$103.70	+2.22	67,685,443
AMZN	Amazon.com, Inc.	\$115.56	+2.16	56,249,503
AAPL	Apple Inc.	\$172.79	+0.72	44,265,221



On 17 May 2023 IMMP was one of the most highly traded stocks on NASDAQ (as shown below), following the release of the initial overall survival benefit data in 1st line NSCLC. To celebrate this achievement, NASDAQ's bell tower in Times Square lit up with a congratulatory message to ImmuteP!

\*source: yahoo finance; 22nd Oct 2023

# Recent Milestones & Looking Ahead



Cash position of ~A\$110.1m as of 30 Sep 2023, post A\$80m capital raise, providing cash runway to early CY2026



Thank You