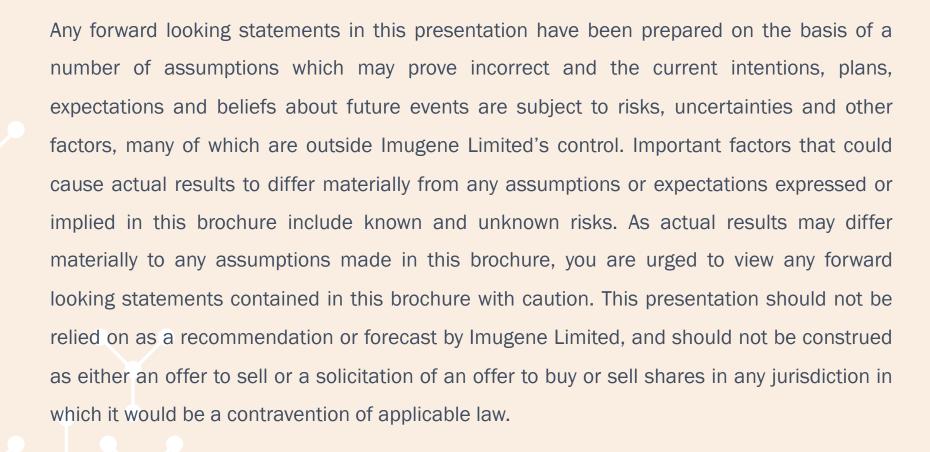




NOTICE: FORWARD LOOKING STATEMENTS



Key investment highlights



Strong preliminary results from ongoing clinical trials

- Promising Phase 1 clinical trial results across lead candidate B cell vaccines
- Currently have two therapies (HER-Vaxx and B-Vaxx) in Phase 2 studies with a pipeline of other therapies and combinations undergoing earlier stage development

Robust pipeline of B cell vaccines targeting high potential areas

- Robust pipeline of novel B cell vaccines targeting large therapeutic areas
- Immuno-oncology treatments are at the forefront of cancer innovation with the leading drugs¹ generating over US\$23bn in 2018
- Vision to transform and improve the treatment of cancer patients

Fully funded to progress clinical program

- Company currently fully funded in supporting all clinical research programs
- Focus on continuing to build awareness for the product through acceptance of abstracts and presentations at key industry conferences such as AACR
- A number of key clinical and preclinical catalysts are expected in 2019

Best in class leadership team with a track record in drug development

 Experienced board and management team with successful track record developing, licensing and commercialising early stage drugs

Active market with numerous commercialisation and M&A opportunities in the sector

- Currently targeting the gastric and lung cancer market with the potential to extend beyond these indications in the future
- The immuno-oncology sector has attracted intense interest from big pharma as highlighted from recent M&A and licensing deals

Notes:

^{1.} The subset Herceptin, Perjeta, Opdivo and Keytruda

Lead by an experienced management team which have significant clinical development commercialisation expertise in the sector





Leslie Chong SYDNEY, AU Managing Director & CEO

- 20+ years of oncology experience across Phase I – III clinical development programs
- Ex Senior Clinical Program Lead at Genentech, one of the world's most successful biotech businesses which sold the best selling breast cancer drug Herceptin
- Also worked at global majors GSK and Exelixis



Paul Hopper
SYDNEY, AU

Executive Chairman

- Founder of Imugene
- Extensive international & ASX biotech capital markets experience particularly in immuno-oncology & vaccines
- Former Chairman of Viralytics, Founder & Director of Prescient



Dr Axel Hoos
PHILADELPHIA, USA
Non-Executive Director

- Senior Vice President and Head of Oncology at GSK
- Former Medical Lead for Yervoy, the first immuno-oncology treatment to improve first survival
- Chairman of the BoD of the Sabin Vaccine Institute
- Co-Chair of the Cancer Immunotherapy Consortium Think-Tank



Mr Charles Walker BRISBANE, AU Non-Executive Director

- Experienced listed biotech CEO and CFO (ASX:ACL and ASX:IMU)
- Extensive financial markets experience having executed 50+ cross border transactions
- Clinical experience includes managing pipeline of drugs in all stages from discovery, through to Phase III to product launch



Dr Mark Marino
CALIFORNIA, USA
Chief Medical Officer

- 28+ years of experience in drug development
- Former CMO of Cytori, Head of Clinical Pharmacology at Eisai and Roche, Head of R&D at Mannkind and VP Clinical Development at Daiichi



Dr Nick EdeMELBOURNE, AU

Chief Technology Officer

- 25+ years peptide vaccine and drug development
- Former CEO Adistem and CEO of Mimotopes
- VP Chemistry Chiron (now Novartis), Research Fellow CRC Vaccine Technology



Dr Anthony Good SYDNEY, AU Vice President of Clinical Research

- 20+ years experience in global clinical development
- Integral to the development of significant new medicines including Viagra, Revatio, Lipitor, and Somavert
- Ex Pfizer Global Research and Development, Ex Covance Clinical Services

Imugene has a team with oncology drug development experience

Imugene's Scientific Advisory Board consists of world leading oncologist, researchers and developers





Prof Pravin Kaumaya
OHIO STATE UNIVERSITY, USA

- Prof of Medicine
 Department of Obstetric
 Gynecology at Ohio State
 University
- Research focus in tumour immunology, mechanisms of tumour cell-immune cell interactions, and immune mechanisms
- Research focus on fields of vaccine with emphasis on peptide vaccines for cancer



Dr. Michael Galigiuri

- President of City of Hope National Medical Center and holds the Deana and Steve Campbell Physicianin-Chief.
- Elected President of the American Association for Cancer Research (AACR) in 2017



Prof. Josep Tabernero
VALL D'HEBRON, BARCELONA,
SPAIN

- President of European Society for Medical Oncology (ESMO)
- President of the Medical Oncology Department at the Vall d'Hebron
- Director of the Vall d"Hebron Institute of Oncology (VHIO)



Prof Tanios Bekail Saab

- Professor of College of Medicine and Science
- Program Co-Leader, GI Cancer, Mayo Clinic Cancer Center
- Medical Director, Cancer Clinical Research Office (CCRO)
- Senior Associate Consultant, Mayo Clinic AZ



Prof Peter Schmid
BARTS CANCER INSTITUTE,
OUEEN MARY UNIVERSITY OF LONDON

- Medical Oncologist
- Expertise in breast and lung cancer, cancer immunotherapy and early drug development
- Leads the Centre of
 Experimental Medicine at
 Barts Cancer Institute



Prof. Ursula
Wiedermann-Schmidt
MEDICAL UNIVERSITY OF VIENNA,
AUSTRIA

- Co-inventor of HER-Vaxx
- Professor of Vaccinology at Medical University of Vienna



Dr Neil Segal
MEMORIAL SLOAN KETTERING
CANCER CENTER, USA

- Medical Oncologist
- Expertise in GI, Colon, Pancreatic cancers
- Active clinical immunooncology researcher
- Clinical lead in several trials using PD-L1 inhibitors



Dr Yelina Janjigian MEMORIAL SLOAN KETTERING CANCER CENTER, USA

- Medical Oncologist
- Expertise in esophageal and stomach (gastric) cancer
- Active in GI clinical trials testing combinations of Her-2 and checkpoint inhibitor therapies



Immuno-oncology: A high-value therapeutic approach





Immuno-oncology - A rapidly growing market

- Immuno-oncology allows for a more targeted treatment
- Harnesses the patients own immune system to recognise and destroy cancer cells
- Multiple first-line treatments approved



B cell peptide vaccines provide potential benefits

- ✓ Potentially leading to a better outlook for the long term survival of patients with advanced cancers
- ✓ Has the potential to inhibit tumour recurrence with potentially less toxic side effects



A pioneer and leader in the B cell peptide cancer vaccine space

- Imugene is the market pioneer and leader in B cell peptide cancer vaccines
- Currently has the most advanced B cell peptide cancer vaccines clinical program in the industry



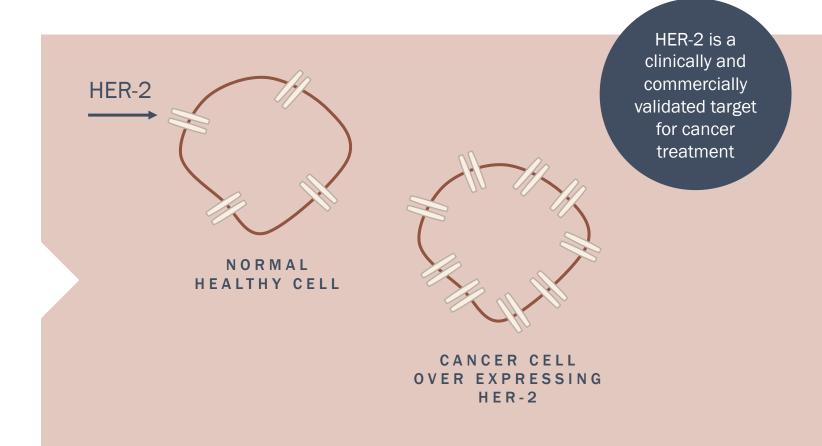


B cell Vaccines offer a unique opportunity to intervene at multiple points in the immune system and create immune memory which enhances durability of response.	NATURAL B CELL DERIVED ANTIBODIES	MONOCLONAL ANTIBODIES
Safety	Stimulates the immune system to produce natural Abs, potentially safer, as demonstrated by HER-Vaxx	Synthetic Ab, with side effects (including ventricular dysfunction, CHF, anaphylaxis, immune mediation)
Efficacy	Polyclonal Ab response reduces risk of resistance and potentially increases efficacy	Monoclonal Ab - single shot
Durabilitiy	Antibodies continuously produced a lasting immune response to inhibit tumor recurrence	Half life up to 12 days sometimes less
Usability	Potentially low numbers of vaccinations required per year	Requires regular infusion
Cost	Low cost of production enables greater pricing flexibility facilitating combination	Expensive course of treatment >US\$100K per year

What is Imugene's B cell vaccine (HER-Vaxx) trying to solve?



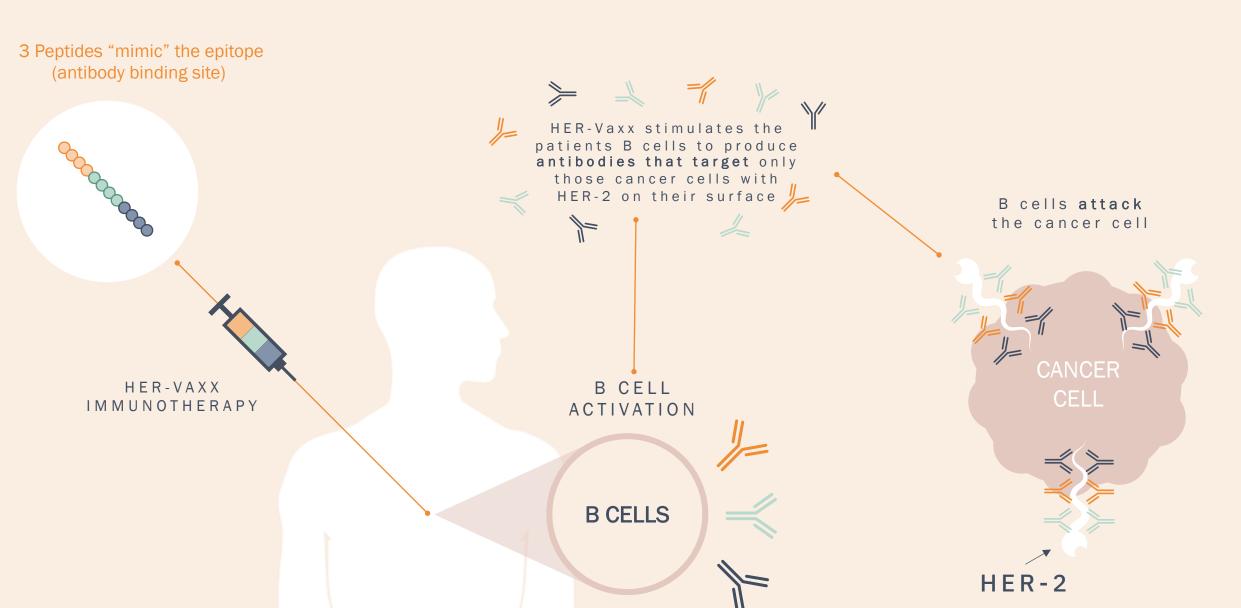
- HER-2 (Human Epidermal Growth Factor Receptor) stimulates cancer cells to grow
- 10 30% of gastric, breast, ovarian and pancreatic cancer patients have tested HER-2 positive
- The incidence of increased HER-2 (known as over expression) in the body is associated with a higher chance of cancer spreading and an increased probability of cancer recurrence



Imugene's products have the potential to improve upon commercialised HER-2 treatments such as Herceptain and Perjeta

How does HER-Vaxx work?





A significant market opportunity across key Imugene vaccines

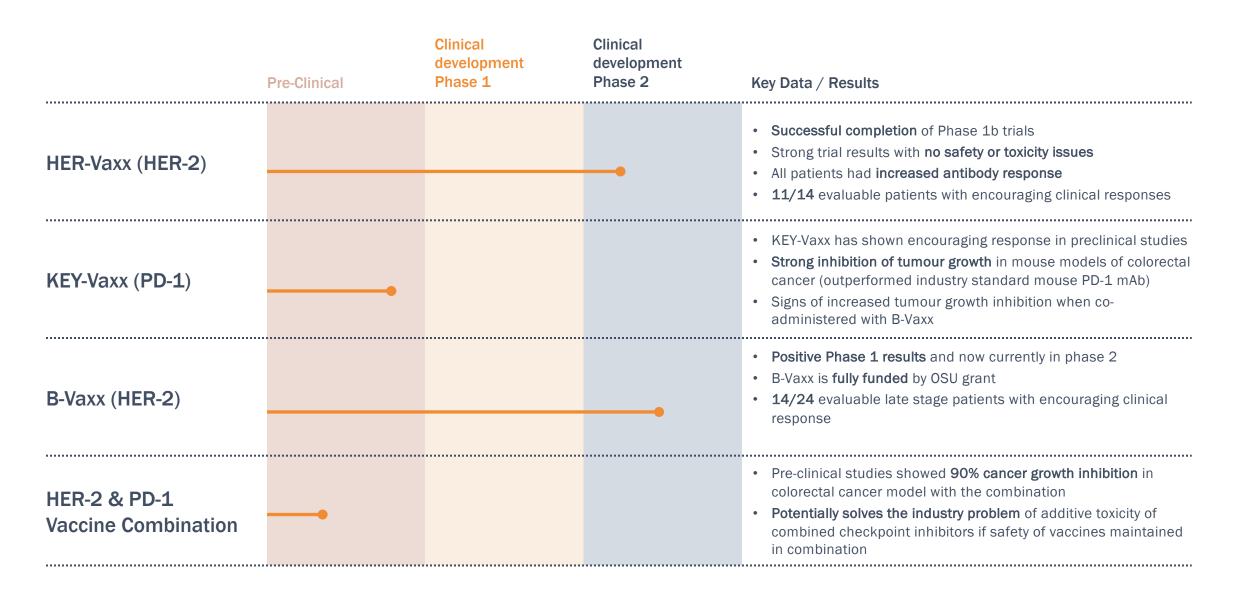


		GASTRIC CANCER (HER-VAXX)	LUNG CANCER (KEY- VAXX)
Incidence	Newly diagnosed cases	1m cases per year, globally 19% relate to HER2+ cancers	1.8m cases per year, globally
Prognosis	5 year relative survival rate	< 25%	~18%
	Survival	Median survival is 7-10 months	17% chance of surviving at least 5 years
Existing treatment costs	Herceptin [°]	US\$140,000 per year	n.a
	KEYTRUDA (pembrolizumab) hipoton 100 mg	n.a	US\$150,000 per year
	OPDIVO. (nivolumab) Automoramentalisti surpri	n.a	US\$157,000 per year

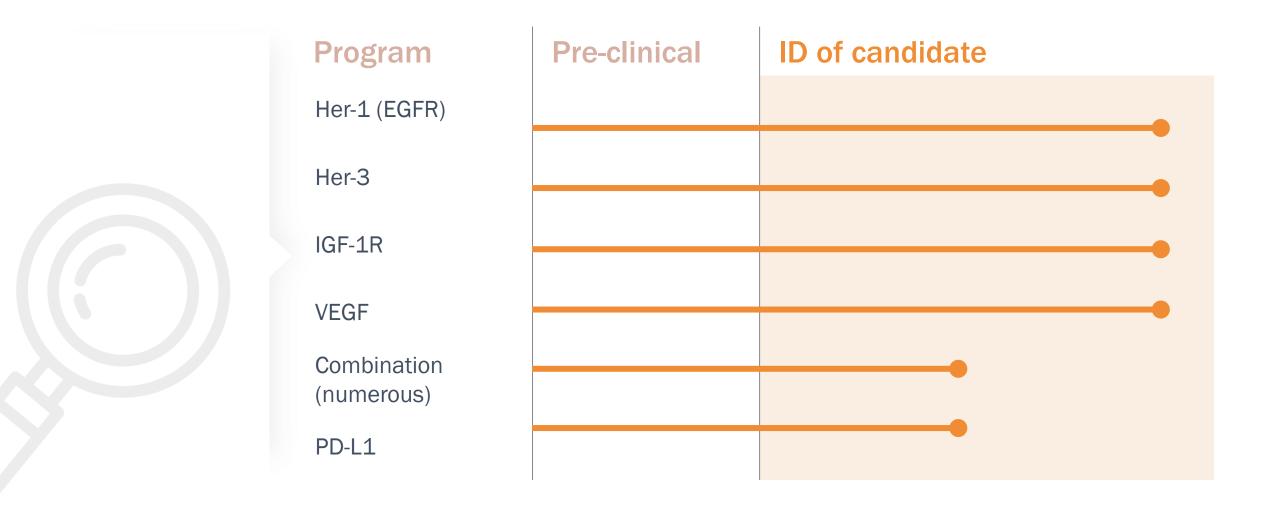
Sources: Scientific journals, press releases and internal company findings

Imugene has a developing pipeline of cancer vaccines









HER-Vaxx: Successfully completed Phase 1B study...



Phase 1b - Complete



Trial

- Phase 1b
- Open label



Patients

- Gastric Cancer
- Up to 18 patients in 3 cohorts (10, 30 and 50 μg)

-1/-

Study

HER-Vaxx in combination with chemo: Cisplatin and 5FU or capecitabine



Endpoints

- Recommended Phase
 2 Dose of HER-Vaxx
- Safety and Toxicity
- Immunogenicity (anti-HER-2 antibody titres)



Study Results

- 50 μg selected as the RP2D
- No safety or toxicity issues
- All patients had increased antibody response
- Best Response Rates
 - 1 Complete Response
 - 5 Partial Response
 - 4 Stable Disease



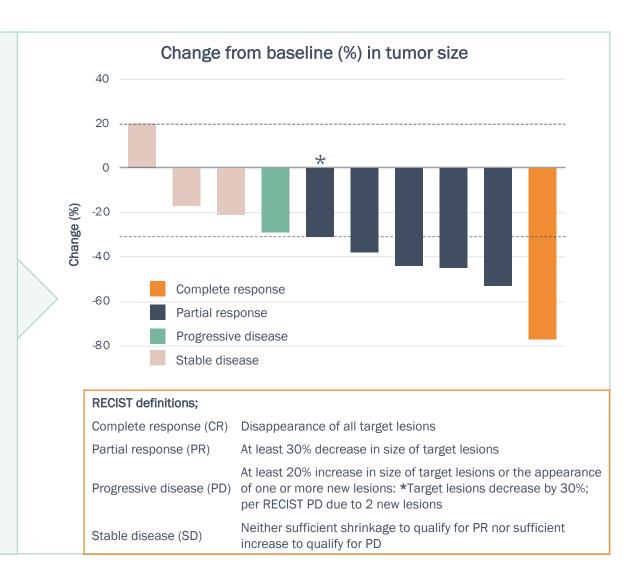
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Positive results for HER-Vaxx Vaccine Phase 1b trial



Key Findings

- ✓ 11 out of 14 were evaluable for vaccine-specific immune responses and tumour response assessment
- ✓ Those patients that were dosed with 50 micrograms showed marked increases of HER-2 specific antibody levels
- ✓ 2 of the 3 patients dosed with 50 micrograms demonstrated greater than 40% reduction in tumour size from baseline to day 56
- ✓ The vaccines were well tolerated and safe with antibody responses at the highest dose of 50 micrograms with no significant local or systemic reactions
- ✓ Trial showed clear dose-dependence of HER-2 specific antibody production





Phase 2 commenced - First patient dosed March 2019



Trial

- Phase 2
- Open label
- Asia
- Eastern Europe
- India



Patients

- Gastric Cancer
- Up to 70 patients



Study

Randomized

HER-Vaxx in combination with standard of care chemotherapy

Or

Standard of care chemo: Cisplatin and 5FU or capecitabine or oxaliplatin

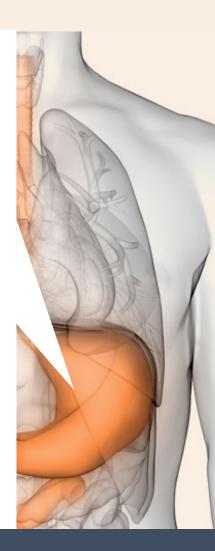


Primary Endpoints

- Overall survival
- Progression-free survival

Secondary Endpoints

- Safety and Tolerability
- Immune response



Phase 2 designed to provide definitive data

KEY-Vaxx: A new entrant in the checkpoint inhibitor market





How PD-1 targeted treatments work

PD-1 targeted treatments block PD-L1 expressing tumour cells from binding PD-1 on Tcells (resulting in increased activation of the T cell immune response in the tumour microenvironment)



Limitations of current treatments

- Current checkpoint inhibiting monoclonal antibody therapies only effective in 10-30% of patients
- Require intravenous infusions every 2-3 weeks and has a high toxicity profile when used in combination
- Very expensive

KEY-Vaxx is a PD-1 B cell vaccine, aimed to induce the body to produce polyclonal antibodies while existing commercialised immunotherapies Keytruda® (Merck) and Opdivo® (BMS) are monoclonal antibodies

Current phase:

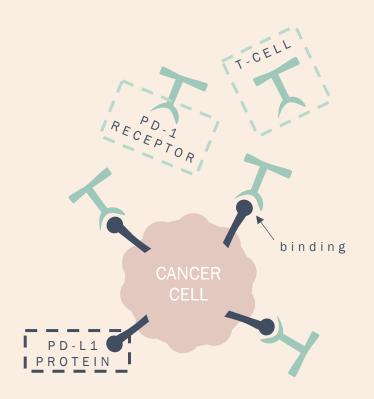
Phase 1 (commence in Q4 2019)

Next key milestones
GLP tox results
Drug manufacture
FDA IND

KEY-Vaxx potentially addresses these problems

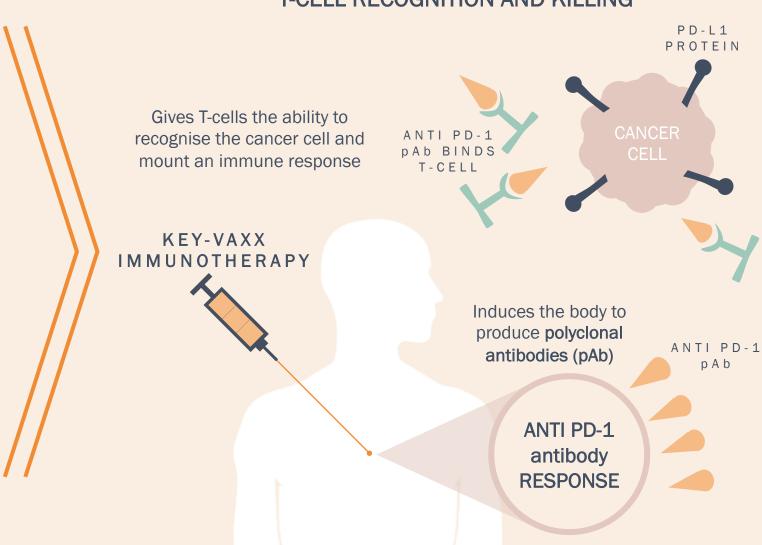


HOW CANCER STAYS UNDETECTED BY THE IMMUNE SYSTEM



The PD-L1 protein binds to the PD-1 receptor and stops the T-Cell from recognising the cancer cell, allowing the cancer cell to survive and spread

KEY-VAXX STOPS THE CANCER CELL FROM AVOIDING T-CELL RECOGNITION AND KILLING



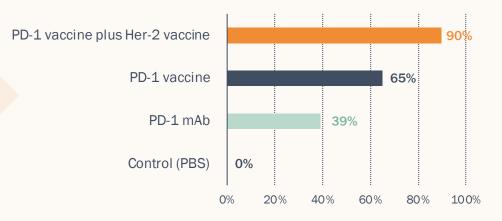
PD-1/HER-2 Combination: Potential to increase response rates in HER-2+ 🔆



Immuno-oncology combinations driving value

- Combining drugs for better immuno-oncology outcome is driving value creation
- Big Pharma are looking for **novel combinations** that
 - ✓ Combine without increasing toxicity
 - ✓ Combine with minimal cost increase
 - ✓ Combine for better response rates and efficacy

% CANCER GROWTH INHIBITION IN COLORECTAL CANCER MODEL



Inhibition of cancer growth 16 days after infusion of cancer cells

Imugene's novel therapies have the potential to tick all three boxes

Opdivo / Yervoy Case Study

In 2018, the FDA approved the Opdivo and Yervoy combination for a subset of patients with metastatic colorectal cancer

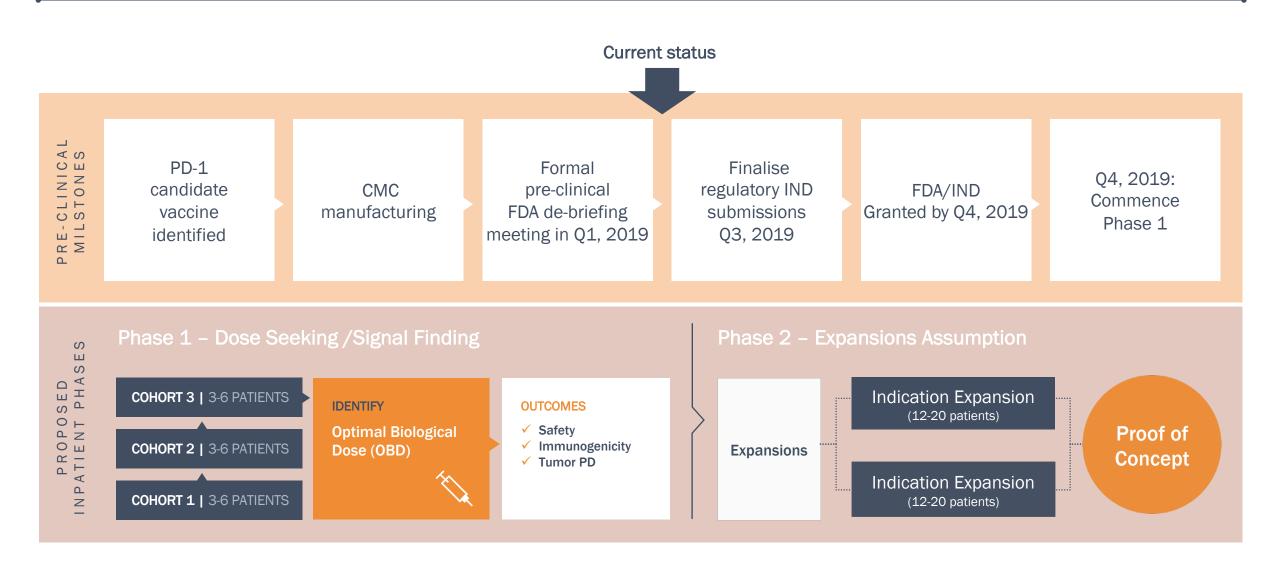
Provides a novel therapeutic option with a higher response rate than that from monotherapy immunotherapy **BUT** more significant toxicity is noted with the combination, and immune-mediated side effects need to be monitored

Although early in development, Imugene's PD-1 and Her-2 cancer vaccines potentially provide efficacy and response rate with minimal toxicity

cancers

KEY-Vaxx: Vaccine in Phase 1 development path





B- Vaxx: Phase 1 trial results leading into Phase 2

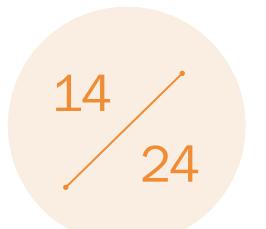


Similar to HER-Vaxx, B-Vaxx is a B cell peptide cancer vaccine designed to treat tumours that over-express the HER-2 receptor by binding to the same regions as Herceptin® and Perjeta®

Funded by OSU

It has been shown in pre-clinical studies and in a completed Phase I study to stimulate a potent polyclonal antibody response to HER-2

Broad tumor types treated in Phase 1; now in Phase 2¹



- ✓ 2 out of 24 patients had partial response
- ✓ 1 patient had
 Progression free survival
 at 40+ months
- Accepted for publication in peer reviewed journal

patients had stable disease

NO TOXICITY OBSERVED

Note

^{1.} Phase Ib Immunotherapy Trial with a Combination of Two Chimeric (Trastuzumab-like and Pertuzumab-like) HER-2 B cell Peptide Vaccine emulsified in ISA 720 and nor-MDP Adjuvant in Patients with Advanced Solid Tumors, Immunological Response and Clinical Outcome Tanios Bekaii-Saab, Daniel H. Ahn, Christina Wu, Robert Wesolowski, Amir Mortazavi, Maryam Lustberg, Jeffrey Fowler, Bhuvaneswari Ramaswamy, Lai Wei, Jay Overholser and Pravin T.P. Kaumaya. Clinical Cancer Research manuscript accepted for publication March 2019.

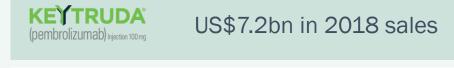
The immuno-oncology market is experiencing robust growth

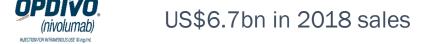


Strong deal activity involving big pharma with a number of M&A and licensing transactions

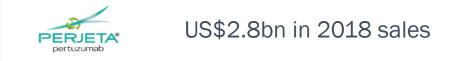
MERCK Acquired	Viralytics	A\$500m	Jun 2018	Oncolytic immunotherapy
Roche	Adaptive	US\$2bn	Jan 2019	Clinical Immunotherapy
Lilly Acquired	CUREVAC	US\$1.8bn	Oct 2017	Cancer Vaccine
MERCK Acquired	IMMUNE)(DESIGN	US\$300m	Feb 2019	Cancer Vaccine
MERCK Investment	moderna	US\$125m	May 2018	Cancer Vaccine

Strong sales for leading immuno-oncology treatments





Herceptin° trastuzumab	US\$7.1bn in 2018 sales
, (·



In 2015 the immuno-oncology market was estimated at US\$45bn and is expected to reach US\$117bn by 2022

Robust cash position with supportive institutional shareholder base



Public Market Overview

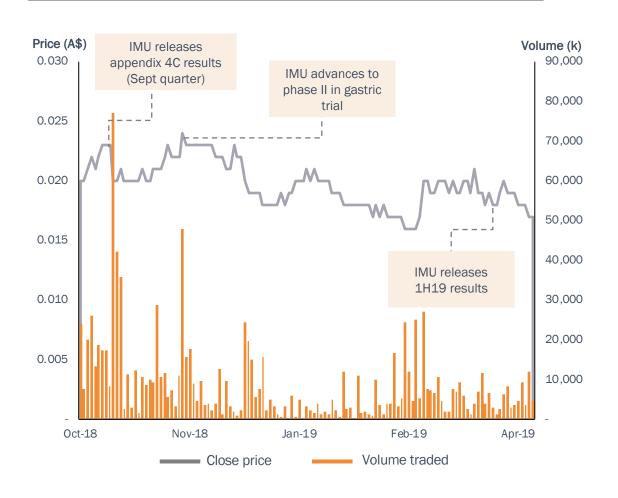
Share Price ¹	A\$0.017
Market Capitalisation ²	A\$61.4M
Cash equivalents (Mar-19)	A\$21.0M
Enterprise Value	A\$40.4M

Top 5 Shareholders (as at April 2019)

Private Portfolio Management	6.2%
HSBC Custody Nominees (Australia)	3.6%
Dr. Nicholas Smith	3.2%
Paul Hopper	2.1%
Sarah Cameron	1.7%

Note:

Share Price Performance (last 6 months)



^{1.} As of 10 April 2019

Market capitalization calculations based on ordinary shares (3.61n) only and excludes the dilutive impact of options outstanding (625m)

Clinical development and milestones



Phase 2 clinical trials for key indications underway – trials underpinned by additional value-adding studies and an exciting pipeline

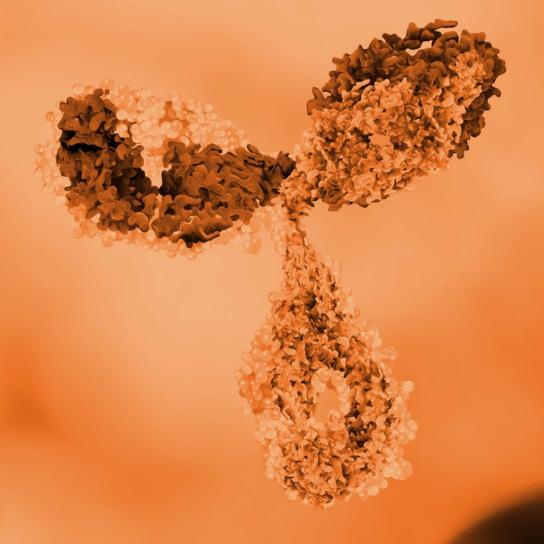
3Q CY2019 STUDIES 1Q CY2019 2Q CY2019 4Q CY2019 **HER-Vaxx HER-Vaxx HER-Vaxx Phase 2** 1st patient dosed Regular updates expected HER-2 in Phase 2 **KEY-Vaxx Phase 1 Key- Vaxx KEY-Vaxx** Preclinical tox and manufacturing nearing Commence PD-1 completion with FDA IND in Q3 Phase 1 **B-Vaxx B-Vaxx** Phase 1 clinical data published with further updates expected HER-2 Combo pre-clinical Combo Preclinical studies ongoing demonstrating benefits of combining HER-2/PD-1 IMU B cell vaccines in validated animal models of cancer

With a proactive approach to business development and brand awareness through participation in key conferences and acceptance in peer reviewed journals





Appendix



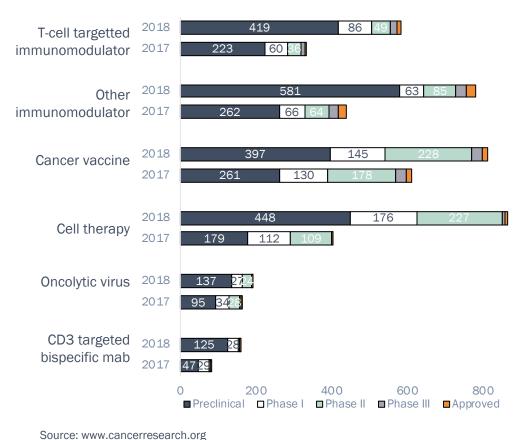
The global immuno-oncology sector rapidly growing



With strong interest in the sector, Imugene's products have the potential to outperform exsiting treatments

- Traditionally, cancer treatment options included: surgery, radiation, chemotherapy, and targeted therapy
- Immunotherapy is rapidly evolving and now widely regarded as a 5th pillar of treatment
- Sector growing rapidly more than 600 licensing agreements signed in the oncology space (1/3 of these focused on immuno-oncology)
- Potential benefits of B cell peptide vaccines include:
 - Cheaper to produce
 - Targeted and lasting immune response
 - Safer and more convenient

Significant growth in global immuno-oncology pipelines of 2017 and 2018



Source. www.cancerresearch.org

HER-Vaxx uses a polyclonal response to target HER-2



HER-Vaxx address the targets of Herceptin and Perjeta combined as well as an additional site

- HER- Vaxx stimulates the patients immune system to produce polyclonal antibodies that target cells that are over expressing HER-2 receptors on their surface
- The patients B cells produce these polyclonal antibodies that repeatedly atttack the cancer cell
- The Imugene team have identified peptides that mimic the part of the HER-2 which the antibody attaches itself
- HER- Vaxx stimulated production of polyclonal antibodies against HER2, with encouraging initial indications of efficacy in gastric cancer patients providing on-going proof of concept (PoC) for the B cell vaccine technology

