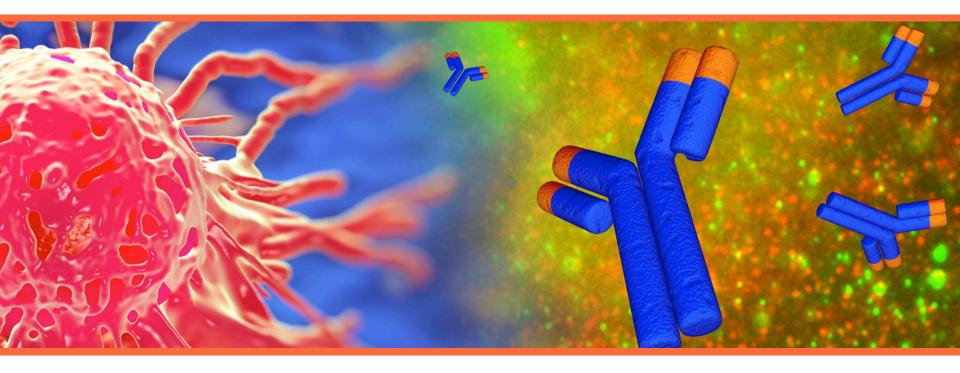


ASX: IMU



Corporate Presentation Sept 2015

Paul Hopper – Executive Chairman

IMU is in the Hottest Area of Oncology Today





Imugene is an immunotherapy company developing a B-cell based vaccine, known as HER-Vaxx, for HER-2 positive gastric & breast cancer, in the hottest area of oncology today – IMMUNO-ONCOLOGY







Cancer Immunotherapy Progress



1890-2014

In 2014 the field of immuno-oncology was transformed by approval of the first immune checkpoint blockade drug, Ipilimumab, developed by Bristol-Myers Squibb (BMS)



1890

Coleys Toxins

Imugene At A Glance (ASX:IMU)



 Developing a B-cell based immunotherapy/vaccine known as HER-Vaxx, for HER-2 positive gastric & breast cancer



- Phase 1 trial completed in patients with HER-2+/++ breast cancer
- Phase 1b/2 trial to begin early 2016
- Technology originates from Medical University of Vienna, one of Europe's leading cancer institutes



- Market capitalisation (Sept 2015): AUD15.0m (includes Sept raise)
- Share price (Sept 4 2015): AUD0.09¢
- Average daily trade: 1.1m shares
- Shares outstanding: 1.73B (post-Sept raise)
- Cash & equivalents (Jun 30 2015): AUD\$1.96m
- + Cash raised Sept 2015: AUD\$4.96m pro rata (excl expenses)



Leadership – Extensive Drug Development Experience





Leslie Chong – Chief Operating Officer

- Previously Senior Clinical Program Lead at Genentech, Inc., in San Francisco, widely regarded as one of the world's most successful biotech companies with a significant oncology franchise including the best-selling breast cancer drug, Herceptin.
- Appointment as COO in August 2015



Prof Ursula Weidermann – Chief Scientific Officer

- Co-inventor of technology
- · Prof of Vaccinology at Medical University of Vienna



Dr Axel Hoos - Non-Executive Director

- Currently Vice President Oncology R&D at GlaxoSmithKline
- Previously Clinical Lead on Ipilumimab at Bristol-Myers Squibb
- Co-Director of the think-tank Cancer Immunotherapy Consortium; Imugene is his only Board seat worldwide



Dr Nick Ede - Head of Manufacturing & Operations

- Former CTO Consegna, CEO Adistem Ltd, CEO Mimotopes P/L, COO EQiTX Ltd (ZingoTX & VacTX)
- VP Chemistry Chiron (now Novartis), Research Fellow CRC Vaccine Technology



Paul Hopper - Executive Chairman

- International & ASX biotech capital markets experience particularly in immuno-oncology & vaccines
- Head of Life Sciences Desk & Australia Desk at Los Angeles-based investment bank, Cappello Group
- Director Prescient Therapeutics, Chairman Viralytics, former Director pSivida, Somnomed & Fibrocell Science



Investment Highlights



Compelling Science

 B-cell peptide cancer immunotherapy that induces antibody responses targeting HER-2 over expressing tumors + major new initiative into mimotopes

Phase 1 Completed

 Anti- HER-2 antibody responses, T helper cytokines, T reg cells suppressed, therapy safe

Commercially Validated Target

 Targeting same receptor as Roche's \$6.4 bn breast cancer drug Herceptin

News Flow

 Numerous milestone announcements & valuation inflection points over next 12-24 months

Robust IP

IP with exclusivity until 2030, granted in all major jurisdictions.
 Aim now for 2036 with reformulation

Leadership

Experienced management & board

Value Inflection Points

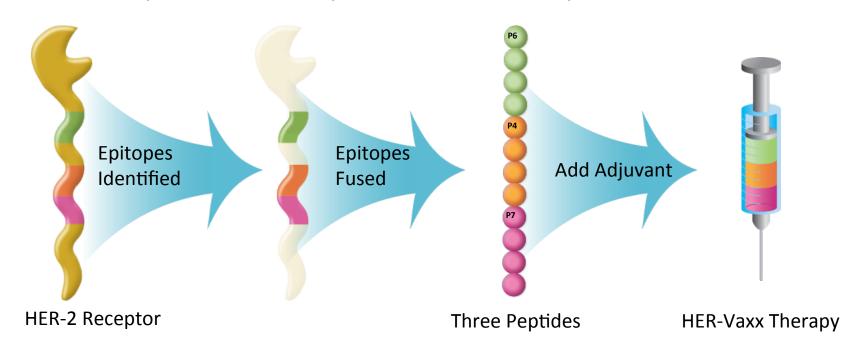


- ✓ GMP manufacturing complete Dec 2015
- ✓ FDA IND allowed Mar 2016
- ✓ Initiate Phase 1b clinical trial Early 2016
- ✓ Phase 1b patient update Q3 2016
- ✓ Phase 1b patient update Q4 2016
- ✓ Complete Phase 1b trial Dec 2016/Jan 2017
- ✓ Initiate randomized Phase 2 clinical trial 1H 2017

What is HER-Vaxx Therapy?



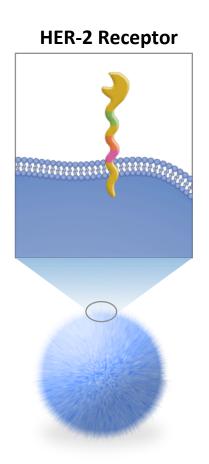
- HER-Vaxx is a B-cell vaccine designed to stimulate a patient's own immune system to produce antibodies to repeatedly attack the cancer
- Stimulates a patient's B cells to produce polyclonal antibody responses that target cells with overexpressing HER-2 receptors on their surface
- Targets HER-2 positive cancer about 20% of patients with gastric cancer are "HER-2 positive" i.e., they have the HER-2 receptor on their cancer cells



What is HER-2?

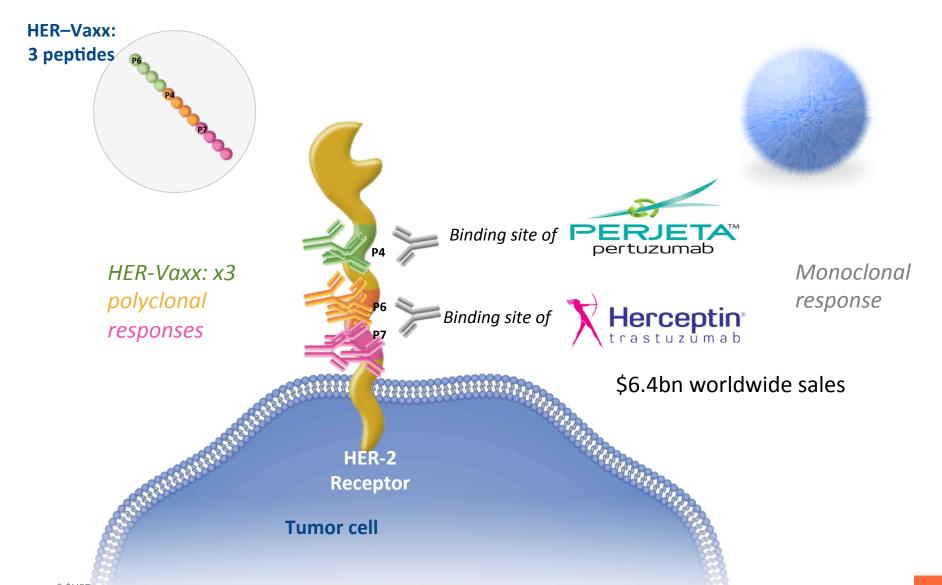
A Clinically & Commercially Validated Cancer Target

- HER-2 is a "hair-like" receptor found on the surface of many gastric & breast cancer cells (20-30%)
- HER-Vaxx targets HER-2 if you attack Her-2 the cancer cell will die
- Too much HER-2 (over expression) in breast cancer is associated with:
 - High chance that the tumour grows quickly and spreads
 - Greater probability of local & systemic recurrence
 - Resistance to treatment
- HER-Vaxx targets HER-2 if HER-2 is successfully targeted, the cancer will stop growing and die
- HER-2 is a clinically & commercially validated cancer target with Roche's Herceptin being the largest selling drug in the world for HER-2 positive breast cancer



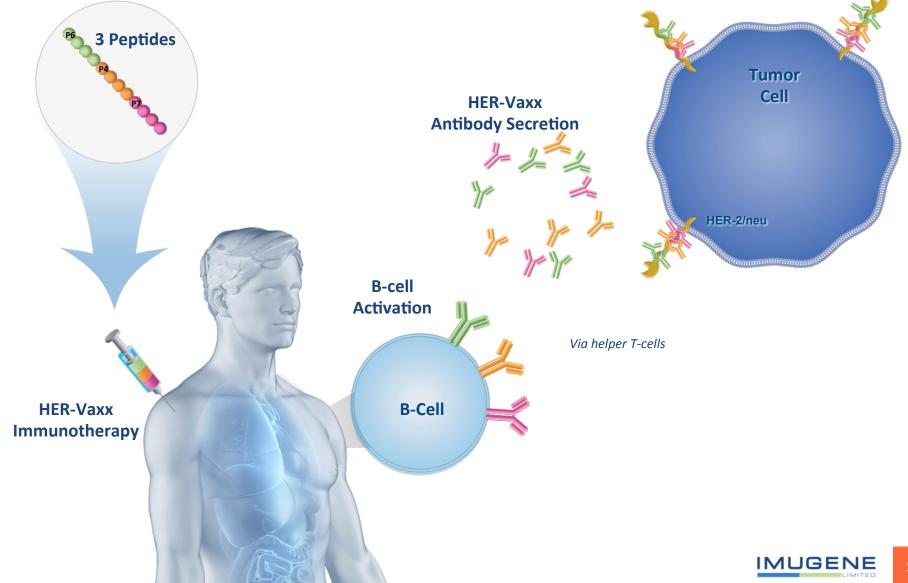
HER-Vaxx Attacks the Same Cancer Receptor as 3rd Largest Cancer Drug Worldwide





HER-Vaxx: Mechanism of Action – How it Works





HER-Vaxx Key Differentiation



- B cell vaccines are an open frontier for immunotherapy, unlike T cell vaccines which have been exhaustively researched
- HER-Vaxx is a universal vaccine & can be used for all patient types irrespective of their "HLA haplotypes", an issue which impacts T cell vaccines
- HER-Vaxx generates several polyclonal responses that may be superior to treatment with a monoclonal antibody like Herceptin
- Toxicity of HER-Vaxx is negligible
- HER-Vaxx induces IFNγ production that can influence the tumour micro environment and suppresses T Reg cells which are enhanced in cancer patients & which assist tumor evasion mechanisms – thereby the efficacy of the HER-Vaxx might be enhanced
- Potential as an adjuvant therapy i.e., post surgery
- HER-Vaxx is active immunisation Herceptin is passive immunisation

Clinical Status: Phase I Breast Trial Completed





Design

- n=10
- All metastatic breast cancer patients
- HER-2 +/++
- Life expectancy >4 months
- Conducted at Medical University of Vienna

Clinical Endpoints

- 1 Safety and Tolerability
- 2 Immunogenicity: antibodies/humoral and cellular responses

Clinical Status: Phase I Breast Trial Completed



Wiedermann et al., Breast Cancer Res Treat (2010)**119**:673 - 683



Observations

- Patients developed anti-HER-2 antibodies
- Induction of cytokines (Th1 biased; IFNγ)
- Induction of memory T & B cells post vaccination
- Reduction in T reg cells post vaccination, indicating strong vaccine response
- Antibodies induced displayed potent anti-tumor activity
- Results were even more promising given patients were in the end stage of disease and not the primary target group



Phase Ib/2 Trial Design Gastric Cancer



Combined Phase 1b/2 clinical trial under IND

CRO appointed







Phase 1b lead-in

- Open label
- US IND
- 18 patients, x3 groups of 6 patients
- Combination with chemo
- Endpoints:
 - Dose of HER-Vaxx to use in Phase 2 part of study
 - Safety: any HER-Vaxx toxicity
 - Immunogenicity (anti-HER-2 antibody titers)
 - Test booster schedule (q 4 weeks or 8 weeks)

Phase 2 Trial

- ~68 patients from Eastern Europe (2 arms by 34)
- Combination with chemo
- Efficacy, safety & immune response
- Randomised
- Endpoints:
 - Overall survival
 - Progression-free survival
- Secondary endpoint:
 - Immune response



Huge Gastric Cancer Opportunity



- Gastric cancer is the second leading cause of cancer mortality in the world & its management, especially in advanced stages, has evolved relatively little
- ~20% patients with metastatic gastric cancer are HER-2 positive
- Surgery, chemotherapy, radiation & Herceptin are the key treatments
- In many countries, particularly Asia and Eastern Europe, chemotherapy such as capecitibine and 5-FU, is the standard of care, not Herceptin
- Asia has the largest incidence for gastric cancer globally and represents a large market opportunity



Chemotherapy



Monoclonal antibody

Manufacturing

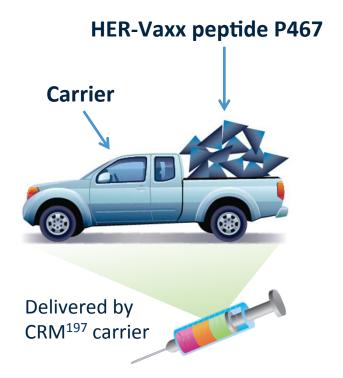


HER-Vaxx is made up of two components – the peptide antigen P467 and the vaccine delivery/adjuvant platform CRM197

Manufacturing of new improved formulation on track and below budget (<A\$1Mil)

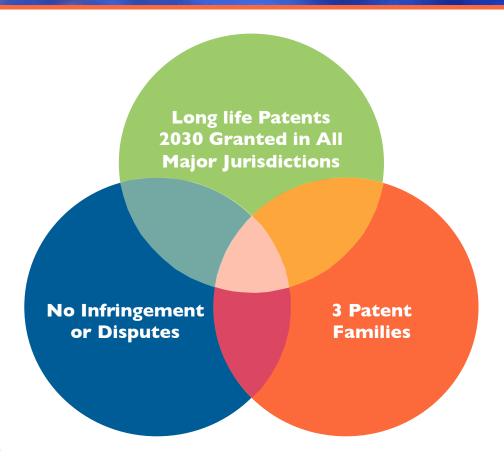
Manufacturer piCHEM GmbH - Graz, Austria

- Small focussed CMO with expertise in GMP peptide and CRM197 conjugate manufacture
 - Well priced and deliver on time (three successful R&D batches delivered in May, June and August)
 - Carrier clinically and commercially validated and fully approved by major regulatory agencies, eg CRM197 in Pneumococcal Conjugate Vaccine Prevnar13® (Pfizer \$4.3B sales p.a)
- GMP manufacture commenced in Aug 2015
- GMP clinical batch complete and released by Dec 2015



Robust Intellectual Property Portfolio 100% Ownership





Patent Families



Vaccine against cancer diseases that are associated with the HER-2/NEU oncogene



Manufacturing patent for multi-epitope vaccine



New patent filed for CRM₁₉₇ formulations with potential for coverage to 2036

News Flow & Milestones



- Appoint CRO to run trial

 Finalise trial protocol

 Appoint manufacturer of HER-Vaxx

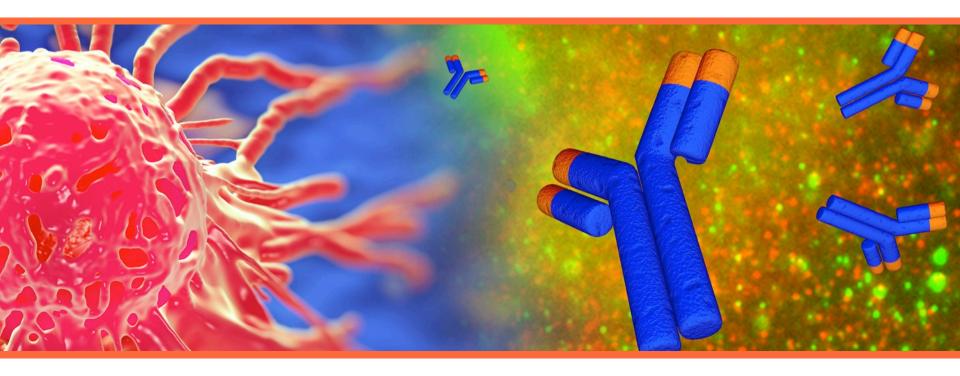
 Appoint manufacturer of fusion peptide
- 2 Appoint USFDA regulatory consultant

Complete acquisition of Biolife





ASX: IMU



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Forward looking statement

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