IMUGENE

ASX: IMU





Investment Meetings
January 12-15, San Francisco, USA



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Corporate Snapshot

- ASX-listed immuno-oncology company (ASX:IMU)
 - Market capitalization (Jan 4 2015):

USD13.3m

❖ Share price (Jan 4 2015):

AUD1.1 cents

Shares outstanding:

1,329,912,516

- Developing a B-cell based immunotherapy, known as HER-Vaxx, for HER-2 positive gastric & breast cancer
- Phase I trial completed in patients with HER2+/++ breast cancer
- Phase I/II trial to begin 2H 2015
- Technology originates from Medical University of Vienna, one of Europe's leading cancer institutes



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Investment Highlights

Compelling Science

 B-cell peptide cancer immunotherapy that induces an antibody response targeting HER-2 over expressing tumors

Management Team

Experienced, successful board & management

Investment to Date

Approximately \$10m invested to date

News Flow

 Numerous milestone announcements & valuation inflection points over next 12 months

Robust IP

• Strong IP with exclusivity until 2030, granted in all major jurisdictions

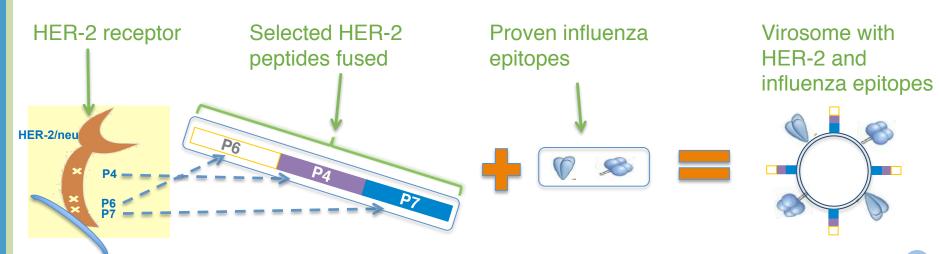
Strong Upside

Targeting improvement over HER-2 antibody, Roche's \$6.4bn
 Herceptin



HER-Vaxx: Overview

- One of the most advanced B-cell vaccines, designed to stimulate a patient's own immune system to repeatedly attack the cancer
- Stimulates a patient's B cells to produce polyclonal antibodies that target cells with overexpressing HER-2 receptors on their surface
- About 20% of patients with gastric cancer are "HER-2 positive"
- HER-Vaxx consists of three peptides from the HER-2 receptor, influenza antigens presented on a virosome





HER-Vaxx Versus Herceptin®

Herceptin®

- Synthetic Ab, with side effects (including ventricular dysfunction, congestive heart failure, anaphylaxis)
- Monoclonal Ab
- Half life up to 12 days
- Requires regular infusion
- Expensive course of treatment US \$70,000 per year in the US

HER-Vaxx

- Stimulates the immune system to produce natural Abs, therefore could be considerably safer
- Polyclonal Ab response potentially producing a more powerful antitumor effect
- Antibodies continuously produced a lasting immune response to inhibit tumor recurrence
- Potentially low numbers of vaccinations required per year
- Low cost of production enables greater pricing flexibility & opens up additional markets
- Potentially applicable in all HER-2 cancers & settings

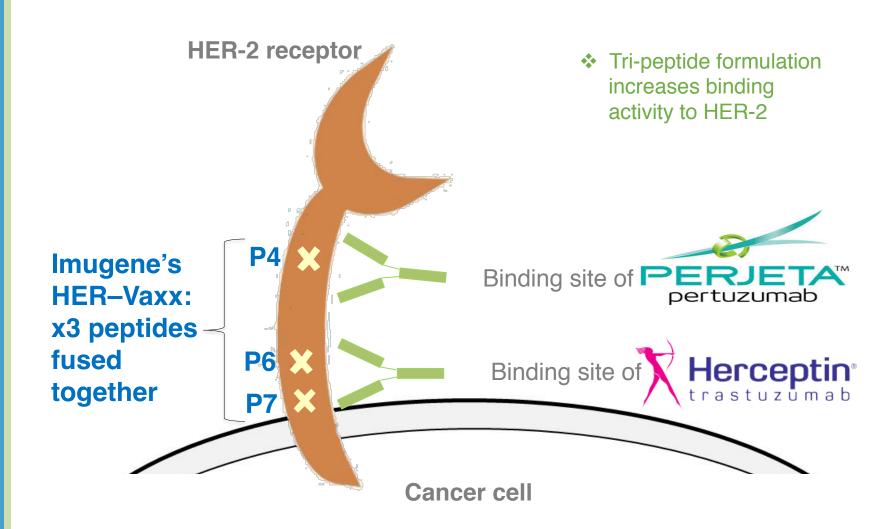


HER-Vaxx: Key Differentiators

- HER-Vaxx peptide sequences identified through extensive computer modelling of HER-2 receptor
- Three sequences selected from analysis: all critical to function of HER-2, including the dimerisation loop of the HER-2 receptor
- Peptides patented worldwide
- When combined with influenza antigens & a virosome, polyclonal response elicited from B cells targets three key areas of HER-2 receptor
- Current commercial antibodies Herceptin and Perjeta target two or fewer regions of the HER-2 receptor
- Clinical benefits could include improved efficacy, improved safety, longer administration & lower cost

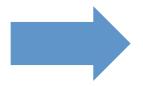


HER-2 Target



Clinical Status: Phase I Completed





OBSERVATIONS



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

- Patients developed anti-HER-2 antibodies
- 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

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



Phase Ib/II Trial Design – Gastric Cancer

Combined Phase Ib / II clinical trial planned to confirm safety, evaluate optimal dosing and to show efficacy

Phase Ib lead in to Phase II Trial

- Open label
- 18 patients, x3 groups of 6 patients
- Endpoints:
 - Dose of HER-Vaxx to use in Phase II part of study
 - Safety: any HER-Vaxx toxicity
 - Immunogenicity (anti-HER2/neu antibody titers)
 - Test booster schedule (q 4 weeks or 8 weeks)

Phase II Trial

- ~68 patients from Australia and Europe
- Efficacy, safety and immune response
- Randomized, blind, placebo controlled
- Endpoints:
 - Overall survival
 - Progression-free survival
- Secondary endpoint:
 - Immune response



Intellectual Property

Patent Title	Description	Patent number	Expiry date	Territories
'Vaccine against cancer diseases that are associated with the HER-2/neu Oncogene'	protects specific HER-2 B- cell epitopes	WO02068474	27 Feb 2022	Granted in Australia, Europe, Canada, the USA and Israel
'HER-2/neu Multi- peptide Vaccine'	protects specific HER2 B- cell epitopes	WO2007118660	11 April 2027	Granted in Australia, Europe, Israel and pending in Canada
'Multi-epitope Vaccine for HER-2/neu- associated Cancers'	claims fusion peptides comprising three noncontiguous B cell epitopes from the extracellular domain of HER-2/neu linked to one another and coupled with a delivery system including a virosome	WO2011020604	18 August 2030	Granted in the USA and pending in Europe.
'Lyophilisation of virosomes'	granted through an exclusive global license from Pevion Biotech, is for a patent covering the virosome vaccine delivery platform, used in the manufacture of "HER-Vaxx", in the field of oncology	WO2006/069719	21 December 2025	Granted in EP, US, CN, AU, Eurasia and SA

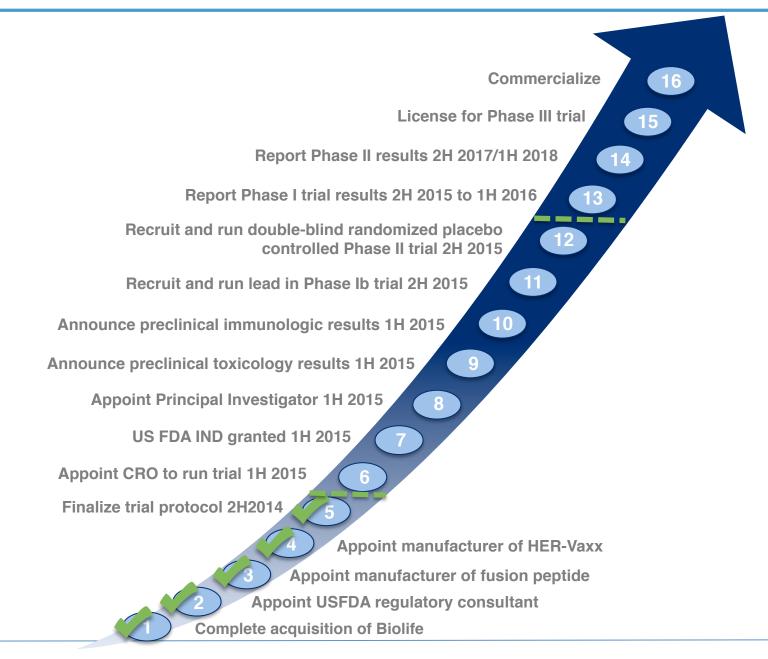


Business Development Strategy

- Begin awareness campaign for technology with potential partners
- Initiate robust Phase Ib/II clinical trial
- Seek data-driven partners for remaining development of HER-Vaxx in gastric cancer
 - pivotal trial
 - marketing
- Seek partners for alternative applications of HER-Vaxx:
 - additional HER-2 indications
 - additional settings within indications



News Flow & Milestones





Recent Licensing Agreements

Date	Licensor	Licensee	Technology/ Product	Dev Status	Amount (USD)	
					Upfront	Total
28-Oct-14	F-Star	BMS	FS-102 targeting HER-2	Phase I ready	~\$50m	\$475m
20-Oct-14	NewLink Genetics	Genentech	NLG919	Phase I	\$150m	\$1,150m
16-Oct-14	Aduro Biotech	Janssen	Several candidates	Discovery	\$30m	\$847m
19-Aug-14	Emergent Biosolutions	Morphosys	ES414	Preclinical	\$20m	\$183m
18-Jun-14	Cellectis	Pfizer	CAR-T therapy program	Preclinical	\$80m	\$299m
27-May-14	CytomX	BMS	Probody platform	Discovery	\$50m	\$348m
17-Mar-14	Five Prime Therapeutics	BMS	Immuno-oncology therapies	Discovery	\$20m	\$351m

Source: Oppenheimer & Co., Company news, internet



Financial Information

- Market capitalization (Jan 4 2015):
 USD13.3m (AUD16.4m)
- ❖ Share price (Jan 4 2015):
 AUD1.1 cents
- Average daily trade:
 1.01m shares
- Shares outstanding: 1,329,912,516
- ❖ 2014 loss (June 30 year end):
 AUD\$2.1m
- Proforma cash at hand (Sept 30 2014): AUD\$4.4m*
 - Cash and equivalents (Sept 30 2014): AUD\$0.9m
 - ❖ Total new funds raised Nov '14, Dec'14: AUD\$3.5m
- ❖ Net assets (June 30 2014):
 AUD\$6.7m

^{*} This figure is calculated using the cash position as at 30 September 2014 plus additional funds raised thereafter (gross of expenses) to establish a proforma cash position as though the funds had been raised on 30 September 2014.



Leadership – Experience and Track Record



Charles Walker CEO



Executive Chairman





Dr Axel Hoos Non-Executive Director



Otto Buttula Non-Executive Director

Dr Nick Ede Head of Manufacturing & Operations

- Former CEO and CFO of ASX-listed Alchemia
- 20+ years in the life science industry, including a decade in specialist corporate finance in London
- Executed ~50 capital markets transactions as principal and advisor
- Extensive international & ASX biotech capital markets experience particularly in cancer vaccines
- Head of Life Sciences Desk & Australia Desk at Los Angeles-based investment bank, Cappello Capital Corp
- 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
- Extensive & successful experience in investment research & financial services management
- Active & substantial investor in the biotechnology sector with a particular focus on oncology
- Several significant positions in ASX-listed companies including Imagene
- 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



Investment Summary

Quality Science

- The subject of numerous peer reviewed published journals
- Medical University of Vienna, one of Europe's leading cancer institutes
- Technology developed over 10 years

Differentiation

- HER-Vaxx directed at validated target, HER-2
- HER-Vaxx addresses the multiple targets of Herceptin and Perjeta combined
- Herceptin sales of \$6.4bn in 2013

Robust IP

• IP portfolio with 2030 horizon

Leadership

Leading clinical & scientific experts; experienced management

Board holds significant shares, aligning interests with shareholders

Best-in-Class Phase II Trial

 Phase II trial designed to be especially robust & big pharma oriented to support potential future partnerships

News Flow/Valuation

- Focused 24 month program to deliver results/value inflection
- Attractively priced to capitalize on upcoming milestones

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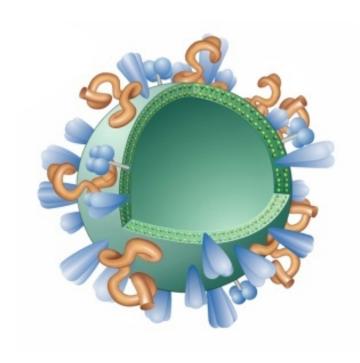
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Appendix

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Preclinical Studies Overview

Int. J. Cancer (03)
■ Breast Cancer Res Treat (07)
□ Unpublished

Pep-TT (peptides conjugated to tetanus toxoid)

Immunogenicity screening P1 – P10 mouse P4, P6, P7 peptide-specific antibodies mouse HER-2 protein immune precipitation mouse HER-2 protein sandwich ELISA mouse Antibody characterization IgG1, IgG2a mouse IFNy/IL-4 profile in vitro mouse SKBR tumor cell line growth inhibition in vitro mouse Tumor growth inhibition in vivo spontaneous model mouse Effect of IL-12 co-administration mouse CDC (complement-dependent cytotoxicity) mouse ADCC (antibody-dependent cellular cytotoxicity) rabbit Repeat dose toxicity study mouse

Pep-virosome (peptides formulated with virosomes)

P4, P6, P7 peptide-specific antibodies	mouse	
HER-2 protein sandwich ELISA	mouse	
 SKBR tumor <u>cell line</u> growth inhibition <u>in vitro</u> 		☐ rabbit
Repeat dose toxicity study	rat	
Immunogenicity & local tolerability study	rabbit	
Interaction with Herceptin	mouse	



Selection of 3 Optimized Peptide Antigens

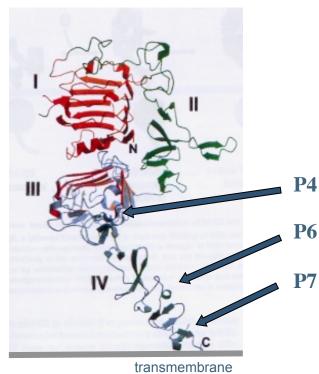
- Antigen identification by computer-aided prediction followed by immunogenicity studies
- Selection of 3 different HER-2 peptide antigens:

P4: PESFDGDPASNTAPLQPGGGGC

P6: RVLQGLPREYVNARHC

P7: YMPIWKFPDEEGAC

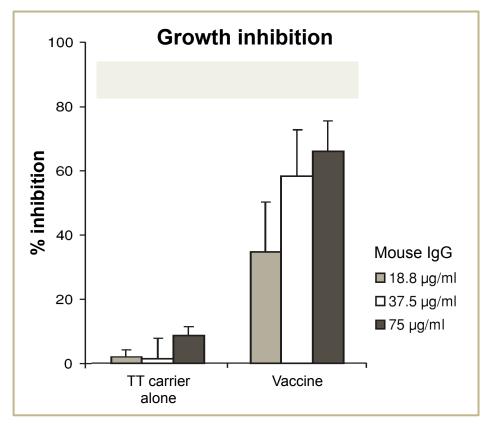
HER2 protein





Tumor Cell Line Growth Inhibition in vitro

- Immunization of mice with tetanus toxoid-conjugated peptides P4, P6 and P7
- IgG isolated from serum of immunized mice inhibits growth of HER2-expressing tumor cell line SK-BR-3 in vitro by up to 70%



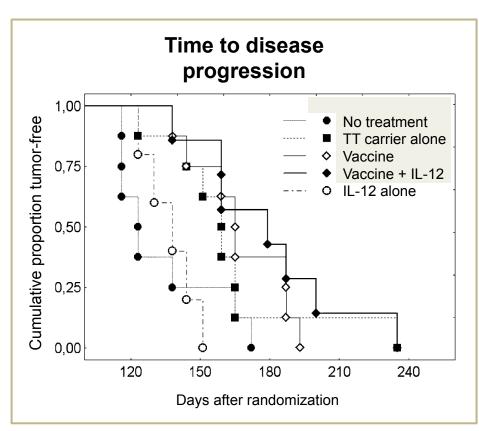
Preclinical study with tetanus toxoid-conjugated peptide antigens



Tumor Growth Inhibition in vivo

Prolonged time to disease progression

- Immunization of c-neu transgenic mice (recognized HER2 cancer model) with tetanus toxoidconjugated peptides P4, P6 and P7
- Vaccinated animals show significant delay in tumor onset and reduced growth kinetics
- Co-administration of IL-12 further improves the vaccine performance

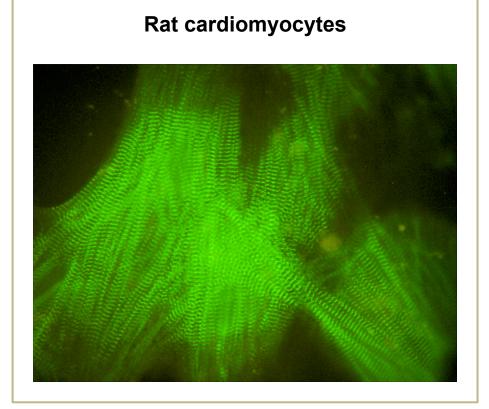


Preclinical study with tetanus toxoid-conjugated peptide antigens



No Toxicity, in Particular No Cardiotoxicity

- Repeat dose toxicity study with TT-conjugated peptides in mice
- Repeat dose toxicity study with HER-Vaxx in rats
- Local tolerability & immunogenicity study with HER-Vaxx in rabbits
- In vitro toxicity study with purified serum from immunized animals on rat cardiomyocytes



In vitro toxicity study on rat cardiomyocytes



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