

Changing lives with cell therapy

Australia Biotech Invest 2013

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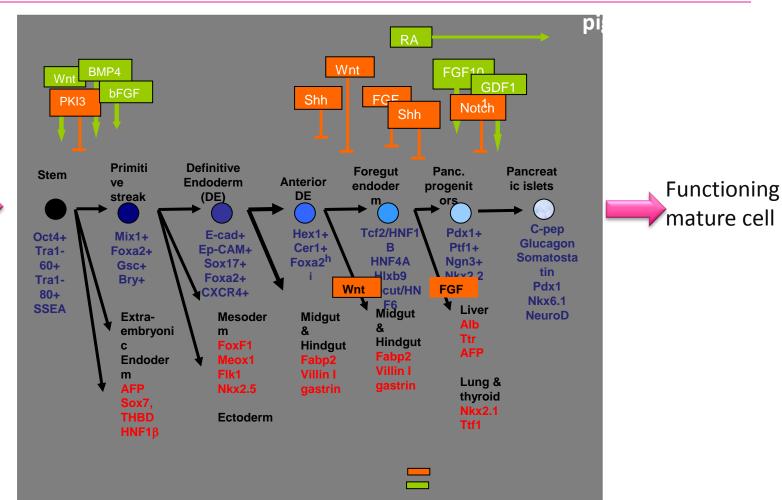
Cell therapy – the fourth pillar of healthcare





Stem cell therapies require substantial genetic manipulation of cells







Primary cells from disease-free herd





Insulin: Type I diabetes

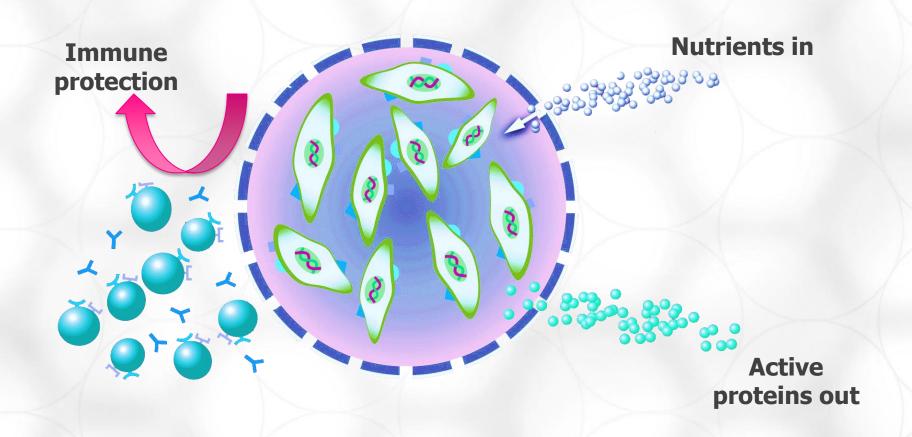
Heparin: Blood thinning

Factor VI: Blood clotting

Tissue grafts & wound healing

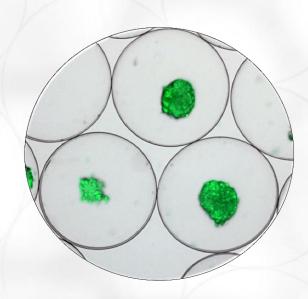
Encapsulation = No immunosuppressants





First product in clinical development





DIABECELL®

BREAKTHROUGH IN TYPE 1 DIABETES

Type I diabetes





Auto-immune destruction of insulin producing islets

Encapsulated pig islets replace glucose regulation

No toxic immunosupressants





Trial	Endpoint	Country	# patients	Status
DIA-04	Safety	Russia	10	Complete
DIA-06	Safety & dose finding	NZ	16	Complete
DIA-09	Safety & dose finding	Argentina	8	Results expected Oct 2013
DIA-14	Efficacy	NZ, Aus, Singapore	30-60	In preparation

JV partnership with top- tier Japanese Pharma





Formed 2011 50% control=50% profits **OPF invested AU\$25m to date** JV funds clinical development Potential for additional AU\$20m Clinical development de-risked

Juvenile Diabetes Cure Alliance



"Of 332 projects in human clinical trials, only 6 target a type 1 diabetes practical cure" www.thejdca.org

Project Name	Description	Location
DIABECELL	Transplanted porcine islets that are micro-encapsulated	Mangari Markadas
Monolayer Cellular Device	A beta cell encapsulation approach that uses human islets	Cliniques un versifaires Saint-Luc
ATG/GCSF	Drug combination aimed at stopping both the autoimmune attack and stimulating growth of beta cells	Diabetes Center of Excellence UNIVERSITY of FLORIDA
Sitagliptin/ Lansoprazole	Drug combination aimed at stopping both the autoimmune attack and stimulating growth of beta cells	SANFORD RESEARCH
BCG	Drug that kills disease-causing autoimmune cells and restores pancreatic beta-cell function through regeneration	faustmanlab.org と点さか Researching a cure for type 1 diabetes
Stem Cell Educator	An individual's blood is treated with stem cells which has the effect of reversing autoimmunity and stimulating beta cell growth	Moteoniooser Inuhe memoerr

Second product in clinical development

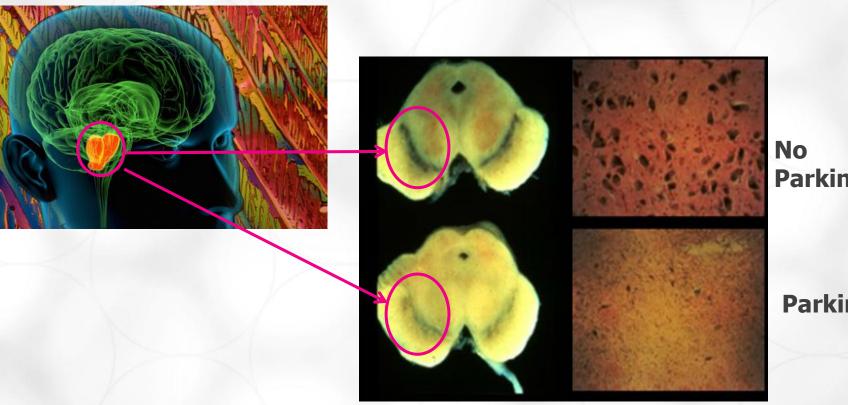




NEW HOPE IN PARKINSON'S DISEASE

Loss of dopamine neurons





Parkinson's

Parkinson's

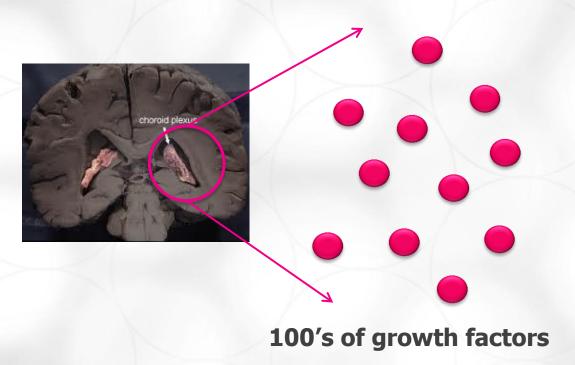
Parkinson's disease "The saddest of all diseases"

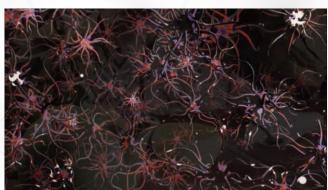




Choroid plexus = growth factor factory



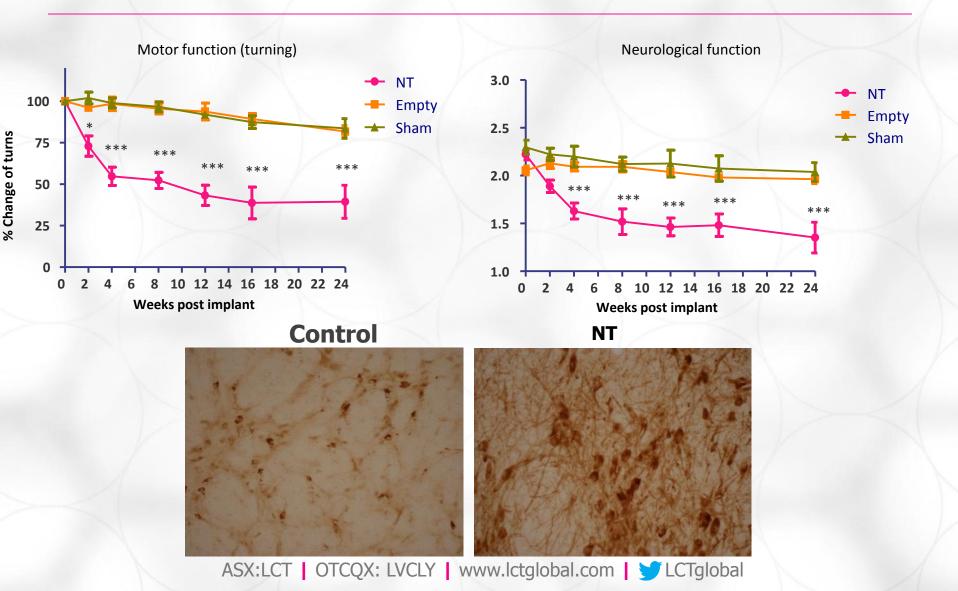




Nerve regeneration Stem cell differentiation **Protection from cell death**

>50% improvement in primate models











4 patients – SAFETY study First implant safely completed Sept 2013

Provided safety demonstrated – we will aim for fast track/breakthrough designation with FDA

NTCELL co-development partnership in **NTCELL**

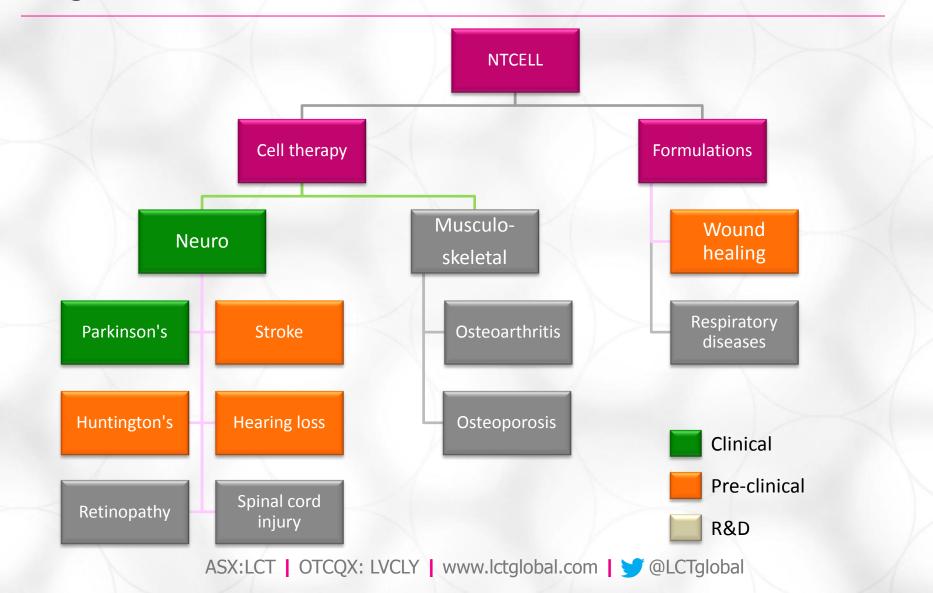




Up to \$5m option fee **OPF funds Phase I clinical trial** Clinical development de-risked

LCT is developing NTCELL for a range of degenerative disorders





Invest in a leader



5.55

Diversify your cell therapy portfolios Advanced in clinic Diseases with high unmet need **Global pharma partner**

SAFE HARBOR STATEMENT



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