

THERAPEUTIC ASSETS

Therapeutic Asset Name	Indication	Product Format	MOA	Faculty or Institute	Partnered or Available	Discovery	Hit to lead	Lead optimisation	Pre-clinical	Clinical	Sales
Oncology											
Gardasil	Cervical cancer	Vac	HPV VLPs	UQMed	CSL, Merck						
Q-202	Breast cancer	SM	CRAC inhibitor	HABS	QUE Oncology						
BARF-1	EBV+ Lymphoma, Gastric and Nasopharyngeal cancer	Bio	ADCC and CDC	UQMed	Available-M						
Combination therapy for enhanced ADCC	Cancers treated with targeted antibody therapies	SM	Dynamin inhibition	UQMed	Available-M						
Immunotherapy	Personalised tumour vaccine	LF	Dendritic cell targeted nanoparticle	UQMed	Available-M						
SOX18 inhibitor	Solid tumour metastasis	SM	Sox18 inhibitor	IMB	Available-S						
Pain											
EMA401	Neuropathic	SM	AT ₂ antagonist	HABS	Spinifex, Novartis						
Q-201	Neuropathic	SM	Nitric oxide donors	HABS	QUE Oncology						
ORL-1 modulator	Nociceptive	Pep	ORL-1 agonist	IMB	Available-S						
CVIE	Chronic & neuropathic	Pep	Cav 2.2 antagonist	IMB	Available-S						
Nav1.7	Acute & chronic	Pep	Nav1.7 antagonist	IMB	Available-S						
Inflammation and Autoimmune											
Dendright	Rheumatoid arthritis	LF	Tolerising immunotherapy	UQMed	Dendright, Janssen						
Inflammasome inhibitor	Inflammation	SM	NLRP3 inhibitor	IMB	Inflazome						
PGD2	Asthma & allergic rhinitis	SM	PGD2 synthase inhibitor	IMB	Available-S						
PAR2 modulator	Inflammation (IBD, Psoriasis)	SM	PAR2 antagonist	IMB	Available-S						
C3a modulator	Inflammation (arthritis, asthma and IBD)	SM	C3a antagonist	IMB	Available-S						
Neurestore	Inflammation (sepsis & ischaemia-reperfusion injury)	Bio	EphA4 antagonist	UQMed	Available-S						
HDAC inhibitor	Inflammation (IBD)	SM	HDAC inhibitor	IMB	Available-S						
Liposome tolerising immunotherapy	Rare autoimmune diseases, MS and celiac disease	LF	Antigen specific tolerising immunotherapy	UQMed	Available-C						
Diabetes and Obesity											
FGF1 obesity	Obesity	Bio	Antisense inhibition of FGFR	Mater-UQ	Verva, Ionis Pharma						
PAR2 modulator	Obesity & type 2 diabetes	SM	PAR2 antagonist	IMB	Available-S						
IL-22 modulator	Type 2 diabetes	Bio	IL-22 modulator	Mater-UQ	Available-B						
CNS											
Neurestore	CNS	Bio	EphA4 antagonist	QBI	NuNerve						
Triheptanoin	CNS (epilepsy)	OF	Triheptanoin	UQSc	UltraGenyx						
NeuroProtex	CNS (Alzheimer's disease, amyotrophic lateral sclerosis)	Pep	Trk modulator	QBI	Available-S						
ASIC1a	Stroke & spinal cord injury	Pep	Selective ASIC1a inhibitor	IMB	Available-S						
Nav1.1	Epilepsy	Pep	Nav1.1 activator	IMB	Available-S						
Infectious Diseases											
Vancaptcin	MDR gram positive bacteria	Pep	Membrane disruption	IMB	Available-C						
COLOP	MDR gram negative bacteria	Pep	Membrane disruption	IMB	Available-S						
Prevenquito	Malaria and tuberculosis	SM	PRTase inhibitor	UQSc	Available-G						
Frulimicin analogues	MDR gram positive bacteria	Pep	Cell wall biogenesis	IMB	Available-S						
Restoring antibiotic activity	Pyoderma skin infections	OF	Adjuvant to restore killing effect of topical antibiotics	UQSc	Available-C						
Molecular clamp sub-unit vaccine	Broad-spectrum flu, RSV, ebola and others	Vac	Hyper-stabilised viral pre-fusion protein	UQSc	Available-C						
Dengue anti-viral	Dengue and other flavivirus infectious agents	SM & Bio	TLR4 antagonist	UQSc	Available-C						
Novel E.coli vaccine	UTI and enterotoxigenic E.coli (ETEC) infections	Vac	Novel cell surface immunogenic antigen	UQSc	Available-C						

Product Format

Bio Biologic | **CT** Cell therapy
LF Liposome formulation
OF Oil-based formulation
PEP Peptide | **R** Reformulation
SM Small molecule | **Vac** Vaccine

UQ Faculties and Institutes

AIBN Australian Institute for Bioengineering & Nanotechnology
IMB Institute for Molecular Bioscience | **Mater-UQ** Mater Research Institute-UQ | **QBI** Queensland Brain Institute
UQ The University of Queensland | **HABS** Faculty of Health and Behavioural Sciences
UQSc Faculty of Science | **UQMed** Faculty of Medicine | **HSS** Faculty of Humanities and Social Sciences
EAIT Faculty of Engineering, Architecture and Information Technology

Contact for Available Innovations (See over for contact details)

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CELL BASED ASSETS

Therapeutic Asset Name	Indication	Product Format	MOA	Faculty or Institute	Partnered or Available	Discovery	Preclinical	Sales
Regenerative Medicine and Cell Therapies								
TheraPhil	Neutropenia	CT	Neutrophils	AIBN	CCRM			
Placental stem cells	Critical limb ischaemia and other vascular conditions	CT	Stem cells	UQMed	Available-B			
iPSC-derived MSCs	Proprietary process for scalable production of mesenchymal stem cells	CT	Stem cells	UQMed/AIBN	Available-C			
Kidney tissue from iPSCs	Kidney tissue for therapeutic use in direct surgical applications	CT	Stem cells	IMB	Available-C			

Asset Name	Description/Field	Faculty or Institute	Partnered or Available	POC validated	Prototype	Lead product	Sales
Research and Development Tools							
Conditions optimiser	Device to optimise stem cell culturing conditions	AIBN	US Start-up				
Kidney organoids from iPSCs	Kidney tissue for drug discovery and toxicology screening	IMB	Organovo Inc				
Growth hormone assay	<i>in vitro</i> bioassay for growth hormone and analogues	IMB	Available-S				
Nav1.7 Assay	Human cell functional screen	IMB	Available-S				
Release media	Enables culturing of difficult stem cells	AIBN	Available-C				
Cardiac organoids	Maturation media and screening device for mature cardiomyocyte tissues	UQSc	Available-G				

BIOTECH ASSETS

Asset Name	Description/Field	Faculty or Institute	Partnered or Available	POC validated	Prototype	Lead product	Sales
Biomedical Devices and Diagnostic Technologies							
ImpediMed	Lymphoedema bioimpedance	UQSc	ImpediMed				
ResApp	Mobile health for respiratory disease diagnosis	EAIT	ResApp Health				
Q-Sera	Universal pathology blood clotting tube	UQMed	Q-Sera				
SMART Arm	Device which helps stroke survivors regain arm function faster	HABS	SMART Arm				
Protease biosensor	Rapid detection of functional proteases	IMB	Molecular Warehouse				
Lymphoma prognostic	Prediction of response to standard R-CHOP therapy indicating alternate first-line drugs as first line	UQMed	Available-M				
Brain scanning ultrasound	Scanning ultrasound for treating Alzheimer's Disease	QBI	Available-B				
Enhanced laser diffusion	Laser radiation with wide divergence for odontology applications	HABS	Available-B				
SCC theranostic	Prediction of response to antibodies that target tumour cell surface receptors	UQMed	Available-M				
Oesophageal adenocarcinoma diagnostic	Blood-based lectin immunoassay for high risk patients	UQMed	Available-M				
Rapid nucleic acid extraction	Method for extraction of amplification-ready nucleic acids from crude tissue samples in just 30 seconds	UQSc	Available-C				
Flavivirus diagnostics	Assay with highly specific antigens to detect of a range of flaviviruses	UQSc	Available-G				
Vaccine and Drug Delivery Platforms							
Nanopatch	Needle-free vaccine delivery	AIBN	Vaxxas				
ProGel	Oral stable to small intestine	UQSc	ProGel				
Caveospheres	Membrane enclosed vesicles	IMB	Available-S				
VLP vaccine platform	Fast, scalable and adjuvant free virus-like particles	AIBN	Available-G				
Pepfactants	Controllable peptide surfactant	AIBN	Available-G				
Bi-specific antibody	Multi-specific targeting constructs for immunotherapy, imaging and sample purification	AIBN	Available-B				
Ultrasound back of eye retinal delivery	Ultrasound assisted delivery of drug by nano-bubbles for macular degeneration	HABS	Available-C				
Nano-emulsions	Tailored stable emulsions with targeting capability	AIBN	Available-G				
Nanocapsules	Encapsulated emulsion droplets for sustained or burst release	AIBN	Available-G				
Human flavivirus vaccines	Insect-specific flavivirus chimeras for presentation of human flavivirus antigens	UQSc	Available-G				
Nasal spray delivery for insoluble drugs	Liquid formulation which gels upon contact with nasal membrane to extend drug absorption	HABS	Available-M				
Healthcare Assessment Programs							
CeGa Online	Acute care remote	UQMed	Available-B				
GAI	Geriatric anxiety inventory via eShop	HSS	Available-A				
CHAP	Health assessment tool via eShop	UQMed	Available-A				

UniQuest is the main commercialisation company of The University of Queensland

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