



THERAPEUTIC PIPELINE

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Application	Target – ID	Target – Hit	Lead Series	Lead Optimisation	PreClinical	Clinical
Inflammation & immunity	Medicinal supplement					AI diseases/Type I diabetes
	Anti-inflammatory (biologic)			Inflammatory diseases		
	Anti-CCR6 (mAb)			AI diseases		
	Antigen-specific Tregs			Lupus		
	Undisclosed target (small molecule)			Pulmonary hypertension		
	S1P receptor modulators (small molecule)		IBD			
	Novel pathway (small molecule)		Asthma			
Oncology	CLEC9A mAb vaccine delivery platform			Cancer and infectious diseases		
	Dual-targeted BET/PI3K inhibitors (small molecule)			Haematological and other cancers		
	Two immune checkpoints for T cell therapy		Solid tumour and haematological cancers			
Infectious Diseases	Ivermectin - repurposing					Coronavirus
	Chemotactic antibiotic (peptide)			Bacterial infections		
	Anti-microbial INOS-SPSB inhibitors (peptide)			Protozoal and bacterial infections		
	Anti-α-Plasmin/Plasminogen (mAb)		C. difficile, S.aureus and S.pyogenes			
	Bedaquiline derivatives (small molecule)		Tuberculosis			
	Splice switch (oligonucleotide)		Coronavirus			
Fibrosis / Metabolic Diseases	Exosomes from amniotic epithelial stem cells (biologic)			Lung, liver and kidney fibrosis		
	Selective AT2 receptor agonists (peptide)			Renal, liver, kidney, lung and cardiac fibrosis		
	GC Rx inhibitors (small molecule and combination)		Obesity			
CNS	Inhibitors of undisclosed target (miRNA)			Huntington's, Alzheimer's and Parkinson's Diseases		
	Reduction of beta-amyloid (peptide)			Alzheimer's Disease		
	Anti-vWF (mAb)		Thrombosis			
Women's Health	MTX + gefitinib (small molecule drug combination)					Ectopic pregnancy
	Super-GDF9 (biologic)			Female infertility (IVM)		
	Inhibin analogues (biologic)			Post-menopausal complications		
	AMH analogues (biologic)			Oncofertility		
Other	Induced Trophoblast Stem Cells (iTSC)			Regenerative medicine		
	Novel target (small molecule)			Polycystic Kidney Disease (orphan disease indication)		
	Engineered growth factors (biologic)			Treatment of wounds; bone regeneration		
	Engineered anti-inflammatory and growth factor (biologic)			Treatment of wounds; bone regeneration; inflammatory diseases		
	Skeletal muscle regeneration (biologic)			Musculoskeletal diseases		
	Gene therapy		Musculoskeletal diseases			
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CONTACT US



BIOMEDICAL OPPORTUNITIES

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NEXT GENERATION TECHNOLOGIES

- Neo-epitope detection and validation



CELL THERAPY / REGENERATIVE MEDICINE

- Engineering TCR with enhanced affinity
- Induced Trophoblast Stem Cells (iTSC)
- Functionally tuneable peptide hydrogels (CVD/CNS)
- Exosomes from amniotic stem cells (fibrosis and neurodegenerative diseases)



VACCINES

- MicroCube vaccine platform - bioengineered protein crystals to present a range of antigens (oncology and infectious diseases)



DRUG DELIVERY

- Anti-abuse drug formulation
- Functionally tuneable peptide hydrogels for sustained delivery (small molecule, cell therapy, nucleic acids)
- Lipopeptide-based nanoparticle gene delivery system (oncology and infectious diseases)
- Sustained-release implant



DIAGNOSTICS

- Biomarker and biomarker detection kit for breast cancer
- Biomarker for breast cancer/PET ligand for oncology
- Diagnostic for personalised treatment of CF
- Multiplexed platform for immune response monitoring (allergy and infectious diseases)
- PET ligand for MS treatment



SCREENING TECHNOLOGY / OTHER

- Microfluidic device for BBB detection (detection of toxins etc.)
- rPlasminogen manufacture

MONASH TECHNOLOGY RESEARCH PLATFORMS

- Imaging technologies including Cryo EM, X-ray
- Fragment screening
- Monash Animal Research Platform (CRISPR)
- Monash Antibody Technologies Facility
- Centre for Drug Candidate Optimisation

All platforms ISO-accredited: monash.edu/research/infrastructure



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