

Therapeutic Asset Name	Indication/Description	Faculty or Institute	Partnered or Available	DISCOVERY	OPTIMISATION	PRECLINICAL	CLINICAL
Oncology							
Hypoxia-Activated Prodrugs	Checkpoint inhibitor combination therapy using hypoxia-activated prodrugs that can improve the outcome of checkpoint blockades	ACSRC	Partnered				
Culicinin D Analogues	Development of structural analogues of Culicinin D for use as an antibody-drug conjugate (ADC) to treat breast cancer	Chemical Sciences	Available				
pH CORMS	Development of a class of transition metal CORMs that show tissue selectivity based on pH levels	Chemical Sciences	Available				
CSF-1 Inhibitor Program	Development of highly potent and selective CSF-1R inhibitors	ACSRC	Available				
FGFR Prodrugs	Development of a lead prodrug candidate holds the promise to improve the treatment of FGFR-amplified cancers	ACSRC	Available				
Pain							
Ketamine Analogue	Ketamine-derived non-opioid ester as a short-acting sedative/analgesic	ACSRC	Partnered				
Local Anaesthetic Implants	Development of an implant comprising of a drug for systemic administration of similar agents and use of opioid analgesics	Pharmacy	Available				
Diabetes and Obesity							
Horizon Health Weight Management Programme	A mobile health weight management plan suitable for use in an ethnically diverse population	NIHI	Available				
Rutin Assay and Therapeutics	New therapeutics for the treatment of type 2 diabetes	Biological Sciences	Available				
ERp44/Adiponectin	Development of cell-penetrating peptides that modulate oligomeric composition and secretion of HMW isoform of adiponectin	Biological Sciences	Available				
Lipidated CGRP Peptide Antagonists	A novel class of peptide therapeutics that blocks CGRP action and modified to increase drug half-life	Chemical Sciences	Available				
Pramlintide Analogues	Lipidation as an approach to achieving a potent longer-acting pramlintide for diabetes (both type 1 and 2)	Chemical Sciences	Available				
Neurodegenerative Disease							
Compound 606	Analogues programme for the regulation of human brain pericyte and glioma stem cell number	Chemical Science	Available				
Ophthalmology							
Tonabersat	"Methods for the treatment of disorders where modulation of a gap junction hemichannel may be of benefit"	Medical Sciences	Partnered				
XG19	An cell penetrating peptide that blocks gap junction hemichannel function for treatment of ischaemic disease	Medical Sciences	Available				
Pachymatrix	Method of treatment of vision-impairment disease that features thinning and misshaping of the cornea such as keratoconus and myopia	Medical Sciences	Available				
Regenerative Medicine							
Kidney Grown In A Petri Dish	Method for generating human kidney organoids from induced pluripotent stem cells	Medical Sciences	Available				
Skin Engineering	Method and device for making full thickness, autologous skin	Biological Sciences	Partnered				
Perforin Inhibitors Series 2	Development of a novel small molecule treatment for the prevention of allogeneic bone marrow stem cell transplant rejection	ACSRC	Available				
Spinal Cord Therapy	A viral vector gene therapy that regenerates damaged neurones in chronically damaged spinal cord	Medical Sciences	Available				

ACSRC: Auckland Cancer Society Research Centre NIHI: The National Institute for Health Innovation

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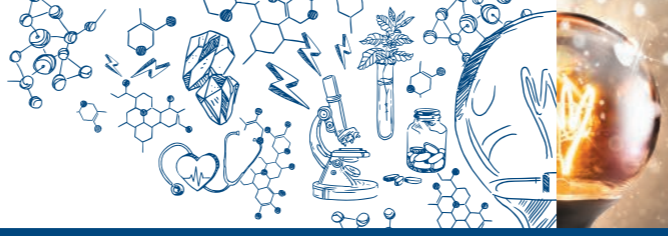
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Biotech Assets Name	Description/Field	Faculty or Institute	Partnered or Available	PROOF OF CONCEPT	PROTOTYPE	LEAD PRODUCT	CLINICAL
Biomedical Devices and Diagnostic Technologies							
Medical Implant For Open Fracture	Electrospun biocomposites that have osteogenic and antibacterial properties for the healing of open fracture	Medical Sciences	Available	■			
Pressure Vessel Sensor	Implantable pressure monitoring system for detection of physiological fluid changes in blood, brain and bladder	Bioengineering	Available	■	■		
3D Heart Mapping	Real-time 3D Heart Mapping for Atrial Fibrillation	Bioengineering	Available	■		■	
Diffuse Optical Imaging	Imaging method and/or system for in vivo observation of biological tissue, or operations performed on or in biological tissue	Bioengineering	Available	■	■		
Suture Future	A medical device to improve speed and efficiency for suturing	Medicine	Available	■			
The Virtual Eye	Ophthalmic imaging device and computation modelling platform to diagnose and monitor eye diseases	Bioengineering	Available	■	■		
Rheumatic Fever Diagnostic	This technology improve the efficiency and accuracy of streptococcal serology by enabling a triplex assay to be conducted	Biological Sciences	Available	■	■		
FemFit	Pelvic floor pressure sensor to help with incontinence and pelvic organ prolapse	Bioengineering	Available	■		■	■
Psychoacoustic Technology For Hearing Loss	A software solution to rapidly customise hearing aids and consumer electronics towards a hearing impaired persons psychoacoustic profile	Audiology	Available	■	■		
Device For Anastomotic Leak	A medical device for the early detection of a leak from a gastrointestinal resection via extra-luminal colonic gas collection and sensing	Surgery	Available	■			
Gastro-Intestinal Electrical Activity	An electrogastrogram (EGG) device to detect inappropriate electrical activity in the gut and inform clinical intervention	Surgery	Available	■	■		
Spot check	Electrochemical method for detecting known DNA sequences	Chemical Sciences	Available	■	■	■	
Vaccine and Drug Delivery Platforms							
Magnetic Polymer Actuators	A patch containing a drug reservoir, microneedles and a magnetic polymer which is activated by a separate device to control drug release	Mechanical Engineering	Available	■			
SAPVAX	Self Adjuvanting Vaccine for Cancer	Chemical Sciences	Partnered	■	■		
Method For Protein Ligation	Intramolecular ester bonds as crosslinking agents for vaccine and biomolecular development	Biological Sciences	Available	■			
CLipPA Technology	A unique linker unit between the cyclopeptide and fatty acid motifs through utilisation of our proprietary 'thiol---ene' chemistry	Chemical Sciences	Available	■	■		
Research Development Tool							
Diabetic Rat Strain	These rats develop hyperglycaemia and have retinal microaneurysms and macroaneurysms at 4 weeks of age.	Optometry and Vision Science	Available	■			
Mental Health							
Sparx	Game for managing adolescent depression	Medical Sciences	Available	■	■	■	■

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