

# UNSW Life Science Portfolio



CATEGORIES	TECH ID	NAME	INDICATION	MODALITY	DISCOVERY	ANIMAL EXPERIMENT	PRE-IND	PHASE I	PHASE II
THERAPEUTIC	2017-004	Tropomyotech - Anti-Tropomysin Drug Discovery	Oncology	SM	<div><div></div></div>				
	2017-046	Novel Potential Target for Treating Crohn's disease	Inflammatory Bowel Disease	Biologics	<div><div></div></div>				
	-	New Formulation for a commonly used anti-ageing compound	Ageing/Longevity	SM	<div><div></div></div>				
	2016-122	Novel High Efficiency Gene Delivery Method to resting T cells	Cell Therapies (CAR-T and HIV)	Gene Therapy	<div><div></div></div>				
	2016-096	Nutritional Supplements to Prevent Weight Gain and Improve Sperm Quality	Obesity and Reproductive	Pharmaceutical Grade Nutraceuticals	<div><div></div></div>				
	12_2747	Chemically Induced Multipotent Stem Cells	Disc Degenerative Disease Regenerative Medicine	SM + Biological	<div><div></div></div>				
	06_2020	Cystemic - Oncology Drug Discovery	Glioblastoma & Pancreatic	UNDER CONTRACT	<div><div></div></div>				
CATEGORIES	TECH ID	TECHNOLOGY		INDICATIONS	BIOMARKER DISCOVERY	CLINICAL VALIDATION	LARGER COHORT STUDY		CLINICAL TRIAL
IVD	2016-051	A Novel Diagnostic Assay for Assessing Fertility Potential		Reproductive Pathologies	<div><div></div></div>				
	2017-046	Novel Biomarker for Diagnosing and Prognosing Crohn's disease		Inflammatory Bowel Disease	<div><div></div></div>				
CATEGORIES	TECH ID	TECHNOLOGY		INDICATIONS	PROTOTYPE DESIGN	POC	PRE-IND	PHASE I	PHASE II
MEDICAL DEVICE (Ex. IVD)	2015-089	Incorporating Spike Train Pattern into Prosthesis		Prosthesis and Haptic Device	<div><div></div></div>				
	Multiple	Bionic Eye - Restore Vision for Blind		Blind/ Retinitis Pigmentosa	<div><div></div></div>				
	14_2952	Thru Fuse - Revolutionary implantable device to cure back pain		Lower Back Pain	<div><div></div></div>				
CATEGORIES	TECH ID	TECHNOLOGY		INDICATIONS	DISCOVERY		PROOF-OF-CONCEPT		READY FOR LICENSING
RESEARCH TOOLS	2017-020	Peptide Coating for Healthy Neuron Culture <i>in vitro</i> (2D and 3D)		Primary Neuron Culture	<div><div></div></div>				
CATEGORIES	TECH ID	TECHNOLOGY		INDICATIONS	KEY MEASUREMENTS				
CONTRACT RESEARCH/ PROFESSIONAL TRAINING	2016-015	A Transgenic Mouse Model for Eczema Drug Discovery		Eczema	1) Behaviour (scratching); 2) Appearance; 3) Histopathology; 4) Immunology - cytokin expression; 5) Genetics				
	-	Human Colon Explant Colitis Model for IBD Drug Discovery		Inflammatory Bowel Diseases	1) Histopathology; 2) Genetics				
	-	A High-Through-Put LC-MS based Metabolic Analysis of NAD pathway		Anti-Ageing and Metabolic	Simultaneously Analyse Up to 15 Analytes in a Neutral Condition. Accepted Sample Type: Plasma, Whole blood, Cells				
	-	Chronic Constriction Injury Induced Peripheral Neuro Pain (in C57BL6/J)		Neuropathic Pain	1) Behaviour (pain hypersensitivity/mechanical allodynia); 2) Histological and immuno changes in the injured nervous system				
	-	Experimental Autoimmune Encephalitis Model (in either Wildtype or Treg depleted mice)		Multiple Sclerosis	1) Behaviour (pain sensitivity/ascending paralysis/facial allodynia); 2) Histological changes in the nervous system - neuroinflammation and demyelination				
	-	In Vivo Drug Safety Screening - To Examine Whether a Drug Candidate May Induce Peripheral Neuropathy		Peripheral Neuropathy	1) Behaviour (mechanical allodynia); 2) Electrophysiological changes in tail nerves; 3) Circulating immune cells; 4) Changes in cytokine				
	-	In Vivo Drug Efficacious Screening - To Examine the Potential Neuroprotective Effects of a Drug Candidate in Selected Chemotherapy-Induced Peripheral Neuropathy		Peripheral Neuropathy	As above				
	-	In Vitro Drug Efficacious Screening - Using the Whole (Explant) or Dissociated Dorsal Root Ganglia Sensory Neurons		Neuron Effects	1) Morphological Examinations (axonal outgrowth); 2) Molecular biology (ATP production/Immunostaining); 3) Live cell imaging				
CATEGORIES	PERSONALISED SHORT TO MID-TERM TRAINING (NON-AWARD)				PROGRAMME			DEGREE	
CONTINUING PROFESSIONAL EDUCATION	Pharmaceutical Medicine/ Clinical Trial Management/ Medical Specialist Training		Quote on request (Days to Weeks to Months)		EDUCATION	Pharmaceutical Medicine		Master/Diploma/Graduate Certificate	
	Health Management, Public Health, International Public Health					Health Management, Public Health, International Public Health			

LEGEND: SM: Small Molecules

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