



MEDTECH PIPELINE

monash.edu/industry/license-technologies

Technology	Technology Concept	Proof of Concept	Prototype	Validation	Market	
Dx – Biomarker	PET-ligand I			<i>New radiotracers for oncology</i>	Oncology	
	Diagnostic for personalised treatment		<i>Measuring efficacy of CF drugs by oxygen consumption</i>		Cystic fibrosis	
	IgG/IgM diagnostic		SARS-CoV-2 (Covid-10)			Covid-19
	Immune response detection and monitoring		<i>Allergies and vaccines</i>			Multiple uses
	PET-ligand II		<i>New radiotracers for MS patients</i>		CNS	
Dx – Device	Bone healing assessment tool		<i>X-ray free</i>		Orthopaedics	
	Capsule endoscopy with pressure sensors		<i>Enhanced navigation and safety</i>		Orthopaedics	
Dx – Digital	MRI image reconstruction			<i>Improved imaging</i>	Multiple uses	
	Direct-to-brain stimulation (BCI)		<i>Vision and other applications - Monash Vision Group</i>		CNS	
	e-Skins - Tactile sensors	<i>Wearable pressure sensor</i>			Multiple uses	
	Foetal Kicks	<i>Wearable for sensitive monitoring of foetal movement</i>			Obstetrics	
Device – Surgical	Robotic surgery		<i>Stereotactic device</i>		Surgery	
Device Drug Delivery	Transcranial Electrical Stimulation		PARTNERING IN PROGRESS		CNS	
	Drug-eluting balloon		<i>Photo-activated delivery of Restenosis-reducing drugs</i>		CVD	
	On-demand controllable aerosol particles	<i>Controlled delivery of solids e.g. for inhaled drug delivery</i>			Multiple uses	
Digital	FODMAP App				On Market Nutrition	
	MoodMission App				On Market Depression	
Materials Drug Delivery	Fixed polymer morphology for delivery of active ingredients		<i>Novel bio-polymers</i>		Musculo-skeletal	
	Natural biomaterials for drug delivery	<i>Peptide-based</i>			Drug delivery	
	Nanoparticle gene delivery system	<i>Lipopeptide-based</i>			Drug delivery	
Materials Processing	Light-controlled 3D protein structures	<i>Scaffold for stem cells</i>			Multiple uses	
	Exosome purification	<i>Scalable separation process for manufacturing</i>			Multiple uses	
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DEVELOPMENT PHASE - TECHNOLOGY READINESS LEVELS 1-5 (OF 9):

- 1: BASIC PRINCIPLES:** Basic principles observed and reported. Transition from scientific research to applied research.
- 2: TECHNOLOGY CONCEPT:** Technology concept and/or application formulated – applied research.
- 3. PROOF OF CONCEPT:** Technology concept and/or application formulated.
- 4: WORKING PROTOTYPE:** Component/subsystem validation in laboratory environment: Standalone prototyping implementation and test.
- 5: VALIDATION:** System/subsystem/component validation in relevant environment: Thorough testing of prototyping in representative environment.



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