




2022 ASBTE Regional Showcase – WA/SA

08:00 – 0845AM	Registration	
08:45 – 09:00AM	Welcome, Acknowledgement of Country, and Opening Address <i>Dr Huan Ting Ong – WA Showcase Lead</i> <i>A/Prof Khoon Lim – ASBTE President</i>	
09:00 – 10:00AM	Panel Discussion – Biomaterials in the Clinic: Present and Future <i>Panellists: Dr Abdul Ihdahid, Dr Elena Juan Pardo, Dr Filippo Valente, Intan Oldakowska, Prof Shirley Jansen, Prof Fiona Wood</i> <i>Moderator: Mr Michael Vernon</i>	
		Q&A: 
10:00 – 10:55AM – Session 1: Biomaterials & Tissue Engineering <i>Chair: Mr Samuel Maher</i>		
Time	Name	Title
10:00 – 10:25AM	Dr Andrew Stevension	Preclinical development of 3D Bioprinting for the skin regeneration
10:25 – 10:40AM	Yong Hwee (Joe) Tan	Profiling airway smooth muscle cell mechanosensation using 2D stiffness gradient hydrogels
10:40 – 10:55AM	Maria Bikuna-Izagirre	PCL-based electrospun scaffold as an in vitro human trabecular meshwork for aqueous humor outflow studies
10:55 – 11:25AM – Morning Tea – Perkins Foyer		
11:25 – 12:25PM – Session 2: Drug Delivery & Clinical Applications <i>Chair: Ms Danielle Vahala</i>		
Time	Name	Title
11:25 – 11:50PM	Dr Zlatko Kopecki	Bacteria-Activated Dual pH and Temperature Responsive Hydrogel for Targeted Elimination of Infection and Improved Wound Healing
11:50 – 12:05PM	Ebrahim Vahabli	Technological Advances to Manufacture Next-Generation Stent-Grafts

12:05 – 12:20PM	Francois Rwandamuriye	Sustained release of immunotherapy from an intraoperative hydrogel prevent cancer recurrence after surgery
12:20 – 12:25PM	Patrick Lim	Developing and validating <i>in-vitro</i> epithelial membranes for ProbucoI-nanoparticle delivery for inner ear therapeutics
12:25 – 01:25PM	Lunch – Perkins Foyer	
01:25 – 02:35PM – Session 3: Mechanobiology <i>Chair: Dr Huan Ting Ong</i>		
Time	Name	Title
01:25 – 01:50PM	Dr Matt Hepburn	Three-dimensional characterisation of cellular elasticity using quantitative micro elastography
01:50 – 02:05PM	Danielle Vahala	Mechanosensation, Proliferation and Invasion of Breast Cancer Spheroid in 3D Linearstiffness Gradient Hydrogels
02:05 – 02:20PM	Samuel Maher	Decoupling the effects of pore size and extracellular matrix stiffness on 3D stem cell mechanosensation
02:20 – 02:35PM	Sebastian Amos	Investigating the role of cell adhesion in the tumour microenvironment with a 3D cancer spheroid model
02:35 – 03:05PM	Afternoon Tea – Perkins Foyer	
01:25 – 02:35PM – Session 4: Characterisation Techniques & Biofabrication <i>Chair: Mr George McColgan</i>		
Time	Name	Title
03:05 – 03:20PM	Michael Vernon	Engineering Heart Valve Interfaces Using Melt Electrowriting: Biomimetic Design Strategies from Multimodal Imaging
03:20 – 03:35PM	Christopher Lamb	Investigation of parameters that impact layer bonding in melt electrowritten scaffolds
03:35 – 03:50PM	Brooke Maitland	<i>In situ</i> characterisation of melt-electrowritten scaffolds in 3D using optical coherence tomography
03:50 – 04:00PM	Short Judging Break	
04:00 – 04:10PM	Closing Address and Awards Ceremony <i>Dr Yu Suk Choi – ASBTE Exec Committee</i>	
04:10 – 06:00 PM	Social Event – Perkins Foyer	

WA/SA Organising Committee

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Showcase Location

[Room G24, Harry Perkins Institute of Medical Research \(North\), QQ Block, QEII Medical Centre, 6 Verdun Street, Nedlands, Western Australia 6009](#)

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