PROGRAM	MONDAY,16th JUNE 2025				
8:30	REGISTRATIONS OPEN & Welcome Tea & Coffee				
9:00	WELCOM	E: Professors Maria Kavallaris, Kris Kilian & Ron	a Chandrawati		
9:15	OPENING: Professor Julien Epps - Dean of Engineering, UNSW Sydney				
	PLENARY: Christopher Porter - Monash University				
9:30	Co-opting Endogenous Nanoparticles (Lipoproteins) for Enhanced Drug Delivery CHAIR: Maria Kavallaris ROOM: Water@Pier One				
10:10	MORNING TEA				
SESSION	Drug Delivery	BIOMATERIALS & BIO-NANO INTERFACE	TISSUE ENGINEERING & MICROPHYSIOLOGICAL SYSTEMS		
Chair	Sophia Gu	Ruirui Qiao	Ming Li		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
10:40 Keynote	Jie Zheng - The University of Texas at Dallas - Nanoparticle Transport and Interactions in the Kidneys	Justin Cooper-White - The University of Queensland - Intervertebral Disc Regeneration using a Biomimetic Injectable Hydrogel	Hang Ta - Griffith University - Novel Microfluidic Models of Atherosclerosis and Atherothrombosis		
11:10	Steven Wise - The University of Sydney - On-	Ferry Melchels - University of South Australia -	Hanjun Kim - Korea University - Biomedical		
Invited	Demand Bioactivation of Inert Materials With	In-gel Generated Palladium Nanostructures as	applications of Silicate Nanoplatelet-based Shear-		
minicu	Plasma-Polymerized Nanoparticles	Bioorthogonal Uncaging Reactors	Thinning Hydrogel		
11.20	Paul Joyco - University of South Australia	liali Maggio Zhai - RMIT University	Amy Colmi - RMIT University Harpessing		
11:30 Invited	Paul Joyce - University of South Australia - Exploring the Role of the Gut Microbiome on Conventional Nanomedicines	Jiali Maggie Zhai - RMIT University - Development of Ionizable Lipid Nanoparticles with Structural Insights for Targeted mRNA Delivery	Amy Gelmi - RMIT University - Harnessing Electroceuticals for Stem Cell Fate Control		
11:50	Martin Engel - Inventia Life Science -	Khoon Lim - The University of Sydney - Using	Guocheng Fang - Nanyang Technological		
Invited	Advancing Nanomedicine Efficiency through Bioprinted Tumoroid Cultures in Translational	Biofabrication to Integrate Multi-scalar Architecture into Tissue Engineered	University - Microlaser Technology for Better Organ- and Organoid-on-chip Models		
12.10	Oncology Research	Constructs LUNCH			
12:10	DIENAR		a Champaign		
1:10	PLENARY: Rashid Bashir - University of Illinois at Urbana-Champaign Intersection of Engineering and Biology across the Scales: Opportunities for Personalized Diagnostics and Printing Cellular Machines CHAIR: Kris Kilian ROOM: Water@Pier One				
SESSION	DRUG DELIVERY	BIOMATERIALS & BIO-NANO INTERFACE	SENSORS & IMAGING		
Chair	Weiyu Chen	Orazio Vittorio	Ying Zhu		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
1:55 Keynote	Jinming Hu - University of Science and Technology of China - Biomimetic Activation of N-Nitrosamides with Red Light-Triggered Nitric Oxide Release via Mediated Electron Transfer	Jan Grimm - Memorial Sloan Kettering Cancer Center - Metal-optosis Warfare Against Cancer	Xing Yi Ling - Nanyang Technological University - A + SERS = The Future of Predictive Sensing		
2:25 Invited	Li Li - Charles Sturt University - Engineering Biominerals for Personalised Nanovaccine and Biomedicines	Riccardo Cazzoli - UNSW Sydney - TrUTh (Targeted Uptake Therapy) to Deliver Drugs and RNAs for Brain Therapies and Beyond	Xiaoyu Cheng - Zhejiang University - Low Cost Single Molecule Fluorescence Sensing of Nucleic Acid and Protein Biomarkers in Clinical Samples with Attomole Sensitivity		
2:45 Invited	Peter Wich - UNSW Sydney - Polysaccharides and Proteins as Biopolymer Nanomaterials in Drug Delivery and Biocatalysis	Chang Lei - The University of Sydney - Advanced Nano-platforms for Sensitive Biomolecule Detection	Lan Fu - Australian National University - Nanowire Breath Acetone Sensor for Metabolic Health Monitoring		
2.05					
3:05					
SESSION	DRUG DELIVERY	BIOMATERIALS & BIO-NANO INTERFACE	SENSORS & IMAGING		
Chair	Paul Joyce	Peter Wich	Xiaoyu Cheng		
Room 3:40	Water@Pier One Haihua Wang - Shaanxi University of Science	Dawes Point 1&2	Dawes Point 3&4 Xiaodi Su - A*STAR - Portable Bacteria Sensors fo		
Invited	and Technology - Crosslinked Zwitterionic Hydrogel with Integrated Functionality for Health Management and Monitoring	Yi Shen - The University of Sydney - Monitor and Modulate the Phase Behaviour of Biomolecular Condensate by Using Microfluidic and Optical Techniques	Environmental and Multidrug-Resistant Pathoger Surveillance		
4:00	SangIhn Han - Korea Institute of Science and	Kristian Kempe - Monash University - PEG-free	Yuyang Gu - University of Technology Sydney -		
4:00 Invited	Technology - Adaptive Delivery Strategies for Nanozyme Therapeutics	Drug Formulations: From Polymer Drug Conjugates to Lipid Nanoparticles	Time-resolved Imaging and Sensing in the Near- infrared: Towards Quantitative in vivo Imaging		
4:20 Oral	Timothy Tan - Nanyang Technological University - Clinically Effective Scar Treatment via a siRNA Transdermal Gene Silencing Technology: from Bench to Bedside and Beyond	Weiyu Chen - Zhejiang University - Precision Therapies for Cancer via Functional Layered Double Hydroxides Nanomedicine	Gina Adam - George Washington University - Loc. Neuromorphic Computing with Emerging Nanodevices for Real-time High-resolution Therapy of Cardiac Fibrillation		
4:40 Oral 6:30- 9:00	Nhiem Tran - RMIT University - Targeting Autoimmune Kidney Disease with Lipid Nanoparticles	Mostafa Kamal Masud - The University of Queensland - Nanoflower Sensor for Screening Pregnancy Complications via Profiling Circulating Placental Extracellular Vesicles CONFERENCE DINNER - Water @Pier One	Abu Sina - UNSW Sydney - Interfacial Biosensing: A New Tool for Sensing Cancer Biomarkers		
0.50- 5.00		CONTENENCE DIMINEN - Water Wrief Offe			

PROGRAM	TUESDAY,17th JUNE 2025					
8:30	REGISTRATIONS OPEN & Welcome Tea & Coffee					
	PLENARY: Kate Schroder - The University of Queensland					
9:00	-	Inflammasomes: from Fundamental Biology to New Therapeutics				
	CHAIR: Rona Chandrawati ROOM: Water@Pier One					
SESSION	DRUG DELIVERY	BIOMATERIALS & BIO-NANO INTERFACE	SENSORS & IMAGING			
Chair	Nhiem Tran	Kristian Kempe	Abu Sina			
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4			
9:45	Yuling Wang - Macquarie University - Small	Lisbeth Grondahl - The University of	Tijana Jovanovic-Talisman - City of Hope - Single			
Keynote	Extracellular Vesicles: Emerging Cancer	Queensland - Testing the Longevity of Surface	Extracellular VEsicle Nanoscopy-Universal			
	Biomarkers and Therapeutic Tools	Coatings as a Core Part of Material Evaluation	Protocol (SEVEN-UP): Accessible Imaging Platform			
			for Quantitative Characterization of Nanoscopic			
			Particles			
10:15	Chaoliang Tan - City University of Hong Kong -	Jonathan Yeow - UNSW Sydney - Low Volume,	Qian Peter Su - University of Technology Sydney -			
Invited	Structural Engineering of Layered 2D	High Throughput Polymer Syntheses for	Temporal, Spatial and Thermal Dynamics of			
	Nanomaterials for Cancer Therapy	Accelerating Discovery of Novel Biomaterials	Intracellular Organelles Revealed by Biophysical			
			Nanotools and Advanced Imaging			
10:35		MORNING TEA				
SESSION	DRUG DELIVERY	TISSUE ENGINEERING &	SENSORS & IMAGING			
		MICROPHYSIOLOGICAL SYSTEMS				
Chair	Li Li	Amy Gelmi	Yuyang Gu			
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4			
11:10	Hongyi Xu - Australian National University -	Ann Na Cho - The University of Sydney - Brain	Ying Zhu - University of Technology Sydney -			
Invited	Electron Crystallography Methods for Drug	Tissue-on-a-chip Platform to Spatiotemporally	Nanoscale Compartmentalisation via Plasmonic			
	Discovery	Regulate the Cell-to-organ Level	Nanohole Arrays for Super-Resolution Digital			
		Communication	Assay of Small Extracellular Vesicles			
11:30	Ruirui Qiao - The University of Queensland -	Sara Baratchi - Baker Heart and Diabetes	Lei Bao - RMIT University - Carbon dot-Based			
Invited	Droplet-Engineered Organoid Models for	Institute - Bioengineering Approach to Study	Nanomaterials for Bioimaging and Biosensing			
	Precision Drug Screening: a Surfactant-	Biomechanical Drivers of Calcific Aortic Valve				
	Enabled Microfluidic Approach	Disease				
11:50	Andrew Care/ Henrico Adrian - University of	Jiao Jiao Li - University of Technology Sydney -	Chaochao Chen - University of Technology Sydney			
Invited	Technology Sydney - Strategies to Engineer	Stem Cell-based Regenerative Therapies for	Nonlinear Super-resolution Imaging with			
	Protein Nanocages for Nanomedical	Bone and Joint Diseases	Upconversion Nanoparticles			
	Applications					
12:10	Alexis Minchaca Acosta - Children's Cancer	Chantal Kopecky - UNSW Sydney - Matrix	Manusha Rajakannage - UNSW Sydney - Enhanced			
Oral	Institute - 3D Modelling of the Blood-Brain	Stiffness Drives Stemness Signatures in Breast	Glucose Sensing through Tailored Enzyme-Inspired			
	Barrier (BBB) for Nanoparticle Delivery	Cancer	Substrate Channels on Electrode Surface			
	Screening – a Quantitative Approach					
12:30		Lunch				
		Y: María José Alonso - University of Santiago de				
1:30	How Nanotechnology Transforms the Delivery of Biological Drugs					
		CHAIR: Maria Kavallaris ROOM: Water@Pier				
SESSION	POSTER SETUP	CLINICAL CHALLENGES	INDUSTRY SESSION			
Chair		Ashish Diwan & Ben Kong	Tushar Kumeria			
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4			
2:15	POSTER SETUP	James Chong - Westmead Institute for	Lin Ding - Smart MCs Pty Ltd - Redraw Our			
Keynote/		Medical Research, The University of Sydney	Roadmap with Customer Voices: The Iterative			
Invited	4	and Westmead Hospital - Proteins, Peptides	Path to Commercialisation			
2:35 Kovpoto/		and Advanced Cell Therapies to Treat Heart	Cong Vu - NanoSoils Bio Pty Ltd - Can My			
Keynote/		Failure	Nanomedicine be Useful for Other Things?			
Invited	POSTER SETUP	Anushka Patel - The George Institute for				
2:55	1	Global Health - Hypertension - the leading risk	Nicolas Schuecker-Rush - Merck Life Sciences -			
Keynote/		factor for disease burden globally	Flash NanoPrecipitation (FNP) – Principles and			
Invited			Applications in Medical Imaging and Drug Delivery			
3:15		AFTERNOON TEA	L			
3:50	PO	STER PRESENTATION COMPETITION - Water@P	ier One			
		Chair: Peter Wich				
5:00 - 6:00		POSTER SESSION - Water@Pier One				
6:00	POSTER PRIZE AWARDS ANNOUNCEMENT & PRESENTATION - Water@Pier One					
6:00- 7:30	Networking Dinner & Drinks - Outdoor Pier					
Poster prese	ntations at the 15th International Nanomedicin	-				

1) Three minute poster presentation session from 3:50pm in Water@Pier One

a. Through this session presenters must succinctly highlight the unique aspects of your research, as well as comment on commercial opportunities using no more than three PowerPoint slides.

b. Presenters in this session are eligible for one of four (4) poster prizes to be judged during the session.

c. Presenters in this session must also display their posters in the traditional session (described below).

2) Traditional poster display from 5:00 in Water@Pier One

a. All poster presenters must display their paper in the traditional poster session, and be with their poster on Tuesday evening to discuss their work.

b. Please submit your poster to registration desk by 9am on Tuesday.

c. Please collect your poster at the conclusion of the poster session, or from the registration desk on Wednesday.

PROGRAM	WEDNESDAY,18th JUNE 2025				
8:30	REGISTRATIONS OPEN & Welcome Tea & Coffee PLENARY: Fabian Kiessling - University of Aachen				
9:00	Diagnostic Nanoparticles for Drug Delivery, Cell Tracking and Tissue Engineering CHAIR: Y. Shrike Zhang ROOM: Water@Pier One				
SESSION	DRUG DELIVERY	BIOMATERIALS & BIO-NANO INTERFACE	TISSUE ENGINEERING & MICROPHYSIOLOGICAL SYSTEMS		
Chair Room	Chaoliang Tan Water@Pier One	Mostafa Kamal Masud Dawes Point 1&2	Junmin Lee Dawes Point 3&4		
9:45	Chengzhong Michael Yu - The University of	Tushar Kumeria - UNSW Sydney -	Y. Shrike Zhang - Harvard Medical School - High-		
Keynote	Queensland - From Cell-Type-Specific to Cell- Phenotype-Specific Drug Delivery	Inorganic/Organic Composite Systems for Drug Delivery and Tissue Engineering	Content Modelling of Human Tissues and Diseases in vitro for Precision Drug and Nanomedicine Screening		
10:15 Invited	Canyang Zhang - Tsinghua Shenzhen International Graduate School - Bioinspired Nano/Micro Drug Delivery System for Diseases Treatment	Jiayan Liao - University of Technology Sydney - Optical Fingerprints and Applications of Upconverting Nanoparticles	Hyun-Jong Cho - Kangwon National University - Metal Ion-reinforced Injectable Hydrogel Systems for Therapeutic Applications		
10:35		MORNING TEA			
SESSION	DRUG DELIVERY	BIOMATERIALS & BIO-NANO INTERFACE	DRUG DELIVERY		
Chair Room	Jonathan Yeow Water@Pier One	Khoon Lim Dawes Point 1&2	Kanwar Abhay Singh Dawes Point 3&4		
11:10 Oral	Peter Davis - ATA Scientific - Extracellular Vesicles - The Wonder-somes	Bakrong Pissuwan - Mahidol University - Biocompatible Gold Nanoparticles for Wound Healing and Regenerative Medicine	Zhiqiang Shen - University of Science and Technology of China - Intracellular Co-Delivery of Carbon Monoxide and Nitric Oxide Induces Mitochondrial Apoptosis for Cancer Therapy		
11:30 Oral	Bin Zheng - Hefei Normal University - Construction of Endogenous Gas Responsive and Releasing Materials	Kewu He - Hefei No.1 People's Hospital - Enhancing Hepatocellular Carcinoma Therapy with DOX-Loaded SiO2 Nanoparticles via mTOR-TFEB Pathway Autophagic Flux Inhibition	Thao Phuong Doan Nguyen - National Institute for Materials Science - Mass Transport Phenomena for Preparing Ultrasmall Nanoparticles		
11:50 Oral	Zan Dai - Children's Cancer Institute - Advancing Innovative Technologies for the Engineering and Preclinical Testing of PDGFRA- targeting Chimeric Antigen Receptor (CAR)-T cells in DMGs	Nathan Boase - Queensland University of Technology - High-Throughput Synthesis and Evaluation of Antiviral Copolymers for Enveloped Respiratory Viruses	Amy Logan - Children's Cancer Institute - Targeting Neuroblastoma's Weak Spots with GD2- Directed siRNA-Lipid Nanoparticles		
12:10 Oral	Shyam Lal Mudavath - University of Hyderabad - Customized Bioactive β-Glucan Conjugated Polymeric Nanoparticles Targeting Inflammatory Macrophages in Pancreatitis Treatment	Kuan Un (Johnny) Wong - Culturon Pty Ltd - Revolutionising Diagnostics and Cell Culture with Plasma-Activated Coatings	Jaret Lee - UpNano GmbH - 3D Printing Strategies for Rapid Generation of Cellular Microenvironments		
12:30		LUNCH			
SESSION	DRUG DELIVERY	BIOMATERIALS & BIO-NANO INTERFACE	TISSUE ENGINEERING & MICROPHYSIOLOGICAL SYSTEMS		
Chair	Zan Dai	Nathan Boase	Chantal Kopecky		
Room 1:30	Water@Pier One Moe El Mohamad - The Peter Doherty	Dawes Point 1&2 Franco Centurion Rodriguez - UNSW Sydney -	Dawes Point 3&4 Nona Farbehi - UNSW Sydney - Spatial		
Oral	Institute for Infection and Immunity - Developing CRISPR-Cas13 Antiviral Therapeutics for Respiratory Pathogens of Pandemic Potential	Bioactive Polyphenol-Gallium Nanocoatings for Nitric Oxide Release and Enhanced Biomedical Implant Performance	Transcriptomics Reveal the Intricate Interactions between Cells and Implants of Different Shapes and Porosities		
1:50 Oral	Karen Hakobyan - UNSW Sydney - Enhancing CNS Drug Delivery through Direct Conjugation of an A1 Receptor Antagonist to a Retrograde Transport Protein	Marcela Chaki - University of Wollongong - Multifunctional Oxygen Non-stoichiometric Bismuth (Bi)-based Nanospheres for Melanoma Theragnostic	Bram Soliman - UNSW Sydney - The Interplay of Breast Cancer Size and Shape in Drug Resistance		
2:10 Oral	Shiyao Li - Olivia Newton-John Cancer Research Institute - Patient-Specific Nanoparticle Targeting in Human Leukemia Blood	Anton Maraldo - UNSW Sydney - From Chaos to Function: Silk Fibroin as a Design Template for Intrinsically Disordered Multiscale Biomaterials	Michaela George - The University of Queensland - Immunomodulation towards Regenerative Wound Healing by Controlling the Biophysical Properties of Biomimetic, Defined Matrices		
2:30 Oral	Qi (Hank) Han - RMIT University - Enhancing				
Jiai	Oral Insulin Delivery via Ionic Liquids, Protein Nanogels and Lipid Nanoparticles: formulation, cytotoxicity, nanostructure, stability, and permeability analysis	Irma Vermeijlen - The University of Queensland - The Impact on Protein and Enzyme Encapsulation in Self-assembled Nanoparticles Synthesized via Photo- polymerization	Peter K. H. Lee - The University of Western Australia - Developing Three-dimensional In-vitro Culture Models of Skin		
2:50	Oral Insulin Delivery via Ionic Liquids, Protein Nanogels and Lipid Nanoparticles: formulation, cytotoxicity, nanostructure,	Queensland - The Impact on Protein and Enzyme Encapsulation in Self-assembled Nanoparticles Synthesized via Photo-	Australia - Developing Three-dimensional In-vitro		
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2:50 SESSION Chair	Oral Insulin Delivery via Ionic Liquids, Protein Nanogels and Lipid Nanoparticles: formulation, cytotoxicity, nanostructure, stability, and permeability analysis DRUG DELIVERY Amy Logan	Queensland - The Impact on Protein and Enzyme Encapsulation in Self-assembled Nanoparticles Synthesized via Photo- polymerization AFTERNOON TEA BIOMATERIALS & BIO-NANO INTERFACE Franco Centurion Rodriguez	Australia - Developing Three-dimensional In-vitro Culture Models of Skin DRUG DELIVERY Karen Hakobyan		
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2:50 SESSION Chair Room 3:20	Oral Insulin Delivery via Ionic Liquids, Protein Nanogels and Lipid Nanoparticles: formulation, cytotoxicity, nanostructure, stability, and permeability analysis DRUG DELIVERY Amy Logan Water@Pier One Kanwar Abhay Singh - UNSW Sydney - Atomic Vacancy Rich Molybdenum Disulfide Nanoparticles Stimulate Mitochondrial Biogenesis and Enhance Oxidative Phosphorylation Lakshika Keerthirathna - Children's Cancer Institute - Advancing mRNA-based Nanomedicines for the in vivo Reprogramming of Circulating T cells to Treat	Queensland - The Impact on Protein and Enzyme Encapsulation in Self-assembled Nanoparticles Synthesized via Photo- polymerization AFTERNOON TEA BIOMATERIALS & BIO-NANO INTERFACE Franco Centurion Rodriguez Dawes Point 1&2 Siti Nur Asyura Adzlan - UNSW Sydney - Nitric Oxide-generating Coating on Biomedical Titanium Implants Iman Akbarzadeh - University of Technology Sydney - Optimization and Characterization of Nanoparticles for Nanotechnology-Enhanced ELISA in FKBPL Detection and Preeclampsia	Australia - Developing Three-dimensional In-vitro Culture Models of Skin DRUG DELIVERY Karen Hakobyan Dawes Point 3&4 Rui Sang - UNSW Sydney - Unlocking the Therapeutic Potential of X-ray Triggered Photodynamic Therapy for Lymph Node		
2:50 SESSION Chair Room 3:20 Oral 3:40	Oral Insulin Delivery via Ionic Liquids, Protein Nanogels and Lipid Nanoparticles: formulation, cytotoxicity, nanostructure, stability, and permeability analysis DRUG DELIVERY Amy Logan Water@Pier One Kanwar Abhay Singh - UNSW Sydney - Atomic Vacancy Rich Molybdenum Disulfide Nanoparticles Stimulate Mitochondrial Biogenesis and Enhance Oxidative Phosphorylation Lakshika Keerthirathna - Children's Cancer Institute - Advancing mRNA-based Nanomedicines for the in vivo	Queensland - The Impact on Protein and Enzyme Encapsulation in Self-assembled Nanoparticles Synthesized via Photo- polymerization AFTERNOON TEA BIOMATERIALS & BIO-NANO INTERFACE Franco Centurion Rodriguez Dawes Point 1&2 Siti Nur Asyura Adzlan - UNSW Sydney - Nitric Oxide-generating Coating on Biomedical Titanium Implants Iman Akbarzadeh - University of Technology Sydney - Optimization and Characterization of Nanoparticles for Nanotechnology-Enhanced	Australia - Developing Three-dimensional In-vitro Culture Models of Skin DRUG DELIVERY Karen Hakobyan Dawes Point 3&4 Rui Sang - UNSW Sydney - Unlocking the Therapeutic Potential of X-ray Triggered Photodynamic Therapy for Lymph Node Metastasis Treatment in Rectal Cancer Models Qiaoyun Wang - UNSW Sydney - Engineering Fructose-Based Single-Chain Nanoparticles: Modulating Cellular Uptake and Biodistribution Srinivas Kamath - University of South Australia - Prebiotic-Functionalised Lipid Nanocarrier Platform: Dual Approach to Mitigate Olanzapine- Induced Metabolic Dysfunction and Enhance		
2:50 SESSION Chair Room 3:20 Oral 3:40 Oral 4:00	Oral Insulin Delivery via Ionic Liquids, Protein Nanogels and Lipid Nanoparticles: formulation, cytotoxicity, nanostructure, stability, and permeability analysis DRUG DELIVERY Amy Logan Water@Pier One Kanwar Abhay Singh - UNSW Sydney - Atomic Vacancy Rich Molybdenum Disulfide Nanoparticles Stimulate Mitochondrial Biogenesis and Enhance Oxidative Phosphorylation Lakshika Keerthirathna - Children's Cancer Institute - Advancing mRNA-based Nanomedicines for the in vivo Reprogramming of Circulating T cells to Treat Diffuse Intrinsic Pontine Glioma Moataz Zewail - The University of Adelaide - Nanoparticle Core Guides the Choice of Cell Membrane Coating Method	Queensland - The Impact on Protein and Enzyme Encapsulation in Self-assembled Nanoparticles Synthesized via Photo- polymerization AFTERNOON TEA BIOMATERIALS & BIO-NANO INTERFACE Franco Centurion Rodriguez Dawes Point 1&2 Siti Nur Asyura Adzlan - UNSW Sydney - Nitric Oxide-generating Coating on Biomedical Titanium Implants Iman Akbarzadeh - University of Technology Sydney - Optimization and Characterization of Nanoparticles for Nanotechnology-Enhanced ELISA in FKBPL Detection and Preeclampsia Monitoring Madushani Peiris - The University of Queensland - Microgravity Induced Proteomics Changes of Osteocytes in a	Australia - Developing Three-dimensional In-vitro Culture Models of Skin DRUG DELIVERY Karen Hakobyan Dawes Point 3&4 Rui Sang - UNSW Sydney - Unlocking the Therapeutic Potential of X-ray Triggered Photodynamic Therapy for Lymph Node Metastasis Treatment in Rectal Cancer Models Qiaoyun Wang - UNSW Sydney - Engineering Fructose-Based Single-Chain Nanoparticles: Modulating Cellular Uptake and Biodistribution Srinivas Kamath - University of South Australia - Prebiotic-Functionalised Lipid Nanocarrier Platform: Dual Approach to Mitigate Olanzapine- Induced Metabolic Dysfunction and Enhance Pharmacokinetic Stability		