PROGRAM			MONDAY,16th JUNE 2025		
8:30	REGISTRATIONS OPEN & Welcome Tea & Coffee				
9:00	WELCOME: Professors Maria Kavallaris, Kris Kilian & Rona Chandrawati				
9:15	OPENING	G: Professor Julien Epps - Dean of Engineering, UN	SW 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 Drug Delivery Drug Del				
SESSION	Drug Delivery	BIOMATERIALS & BIO-NANO INTERFACE	TISSUE ENGINEERING & MICROPHYSIOLOGICAL SYSTEMS		
Chair Room	Sophia Gu Water@Pier One	Ruirui Qiao Dawes Point 1&2	Ming Li Dawes Point 3&4		
10:40	Martina Stenzel - UNSW Sydney - Glycopolymers		Hang Ta - Griffith University - Novel Microfluidic		
Keynote	for Solid Brain Tumour Drug Delivery	Queensaind - Intervertebral Disc Regeneration using a Biomimetic Injectable Hydrogel	Models of Atherosclerosis and Atherothrombosis		
11:10	Steven Wise - The University of Sydney - On-	Ferry Melchels - University of South Australia - In-	Hanjun Kim - Korea University - Biomedical		
Invited	Demand Bioactivation of Inert Materials With Plasma-Polymerized Nanoparticles	gel generated palladium nanostructures as bioorthogonal uncaging reactors	applications of Silicate Nanoplatelet-based Shear- Thinning Hydrogel		
11:30	Paul Joyce - University of South Australia -	Jiali Maggie Zhai - RMIT University - Development	Amy Gelmi - RMIT University - Harnessing		
Invited	Exploring the role of the gut microbiome on conventional nanomedicines	of Ionizable Lipid Nanoparticles with Structural Insights for Targeted mRNA Delivery	Electroceuticals for Stem Cell Fate Control		
11:50	Martin Engel - Inventia Life Science - Advancing	Khoon Lim - The University of Sydney - Using	Guocheng Fang - Nanyang Technological University		
Invited	Nanomedicine Efficiency through Bioprinted	Biofabrication to Integrate Multi-scalar	- Microlaser technology for better organ- and		
	Tumoroid Cultures in Translational Oncology	Architecture into Tissue Engineered Constructs	organoid-on-chip models		
	Research		*		
12:10	0.5440	LUNCH			
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 - AI + SERS = The Future of Predictive Sensing		
2:25	Li Li - Charles Sturt University - Engineering	Giuseppe Cirillo - University of Calabria -	Xiaoyu Cheng - Zhejiang University - Low Cost		
Invited	Biominerals for Personalised Nanovaccine and Biomedicines	Functionalizing polymers to align the redox state of tumour micro-environment: challenges, opportunities and perspectives	Single Molecule Fluorescence Sensing of Nucleic Acid and Protein Biomarkers in Clinical Samples with Attomole Sensitivity		
2:45	Jagat R Kanwar - All India Institute of Medical	Chang Lei - The University of Sydney -	Lan Fu - Australia National University - Nanowire		
Invited	Sciences - Nano-theranostics for Real-time Imaging and On-chip Microfluidic Aassays: Promises of Precision Nanomedicine		Breath Acetone Sensor for Metabolic Health Monitoring		
3:05	The state of the constant state of the const	AFTERNOON TEA			
SESSION	DRUG DELIVERY	BIOMATERIALS & BIO-NANO INTERFACE	SENSORS & IMAGING		
Chair	Paul Joyce	Peter Wich	Xiaoyu Cheng		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
3:40	Haihua Wang - Shaanxi University of Science of	Yi Shen - The University of Sydney - Monitor and	Xiaodi Su - A*STAR - Portable Bacteria Sensors for		
Invited	Technology - Crosslinked Zwitterionic Hydrogel with Integrated Functionality for Health	Modulate the Phase Behaviour of Biomolecular Condensate by Using Microfluidic and Optical	Environmental and Multidrug-Resistant Pathogen Surveillance		
	Management and Monitoring	Techniques	Jul venidite		
4:00	Sangihn Han - Korea Institute of Science and	Kristian Kempe - Monash University - PEG-free	Yuyang Gu - University of Technology Sydney -		
Invited	Technology - Adaptive Delivery Strategies for	Drug Formulations: From Polymer Drug	Time-resolved imaging and sensing in the near-		
	Nanozyme Therapeutics	Conjugates to Lipid Nanoparticles	infrared: Towards quantitative in vivo imaging		
4:20	Timothy Tan - Nanyang Technological University -	Weiyu Chen - Zhejiang University - Precision	Gina Adam - George Washington University - Local		
Oral	Clinically Effective Scar Treatment via a siRNA	Therapies for Cancer via Functional Layered	Neuromorphic Computing with Emerging		
	Transdermal Gene Silencing Technology: from Bench to Bedside and Beyond	Double Hydroxides Nanomedicine	Nanodevices for Real-time High-resolution Therapy of Cardiac Fibrillation		
4:40	Nhiem Tran - RMIT University - Targeting	Mostafa Kamal Masud - The University of	Abu Sina - UNSW Sydney - Interfacial Biosensing: A		
Oral	Autoimmune Kidney Disease with Lipid	Queensland - Nanoflower Sensor for Screening	New Tool for Sensing Cancer Biomarkers		
	Nanoparticles	Pregnancy Complications via Profiling Circulating			
		Placental Extracellular Vesicles			
5:00	WELCOME DRINKS & SNACKS				

PROGRAM TUESDAY,17th JUNE 2025

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	Jie Zheng - The University of Texas at Dallas -	Lisbeth Grondahl - The University of	Tijana Jovanovic-Talisman - City of Hope - Single		
Keynote	Nanoparticle Transport and Interactions in	Queensland - Testing the Longevity of	Extracellular VEsicle Nanoscopy-Universal		
	the Kidneys	Surface Coatings as a Core Part of Material	Protocol (SEVEN-UP): accessible imaging		
		Evaluation	platform for quantitative characterization of		
			nanoscopic particles		
10:15	Chaoliang Tan - City University of Hong Kong -	Guochen Bao - The University of Technology	Qian Peter Su - University of Technology Sydney -		
Invited	Structural Engineering of Layered 2D	Sydney -	Temporal, Spatial and Thermal Dynamics of		
	Nanomaterials for Cancer Therapy	 	Intracellular Organelles Revealed by Biophysical		
	,		Nanotools and Advanced Imaging		
10:35		MORNING TEA	Traine to o is a may navaneed imaging		
SESSION	DRUG DELIVERY	TISSUE ENGINEERING &	SENSORS & IMAGING		
32331011	DROG DELIVERY	MICROPHYSIOLOGICAL SYSTEMS	SENSONS & INVINCINTO		
Chair	Li Li	Amy Gelmi	Yuyang Gu		
		'	, ,		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4 Yuling Wang - Macquarie University - Small		
11:10	Hongyi Xu - Australian National University -	Ann Na Cho - The University of Sydney - Brain			
Invited	Electron Crystallography Methods for Drug	Tissue-on-a-chip Platform to	Extracellular Vesicles: Emerging Cancer		
	Discovery	Spatiotemporally Regulate the Cell-to-organ	Biomarkers and Therapeutic Tools		
-		Level Communication			
11:30	Ruirui Qiao - The University of Queensland -	Sara Baratchi - Baker Heart and Diabetes	Lei Bao - RMIT Univeristy - 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 - The University of Technology	Jiao Jiao Li - University of Technology Sydney -	Chaochao Chen - University of Technology		
Invited	Sydney -	Stem cell-based regenerative therapies for	Sydney - Nonlinear Super-resolution Imaging		
		bone and joint diseases	with Upconversion Nanoparticles		
12:10	Xinyu Liu - Peking University - Construction of	Chantal Kopecky - UNSW Sydney - Matrix	Manusha Rajakannage - UNSW Sydney -		
Oral	Artificial Protein Self-Assemblies and their	Stiffness Drives Stemness Signatures in	Enhanced Glucose Sensing through Tailored		
	Pharmaceutical Applications	Breast Cancer	Enzyme-Inspired Substrate Channels on		
	The maceutean Applications	Sircust Gaines	Electrode Surface		
12:30		Lunch	Electrode Surface		
12.50	PI FNAR'	Y: María José Alonso - University of Santiago de	2 Compostela		
1:30		anotechnology Transforms the Delivery of Biolo			
1.50		CHAIR: Martina Stenzel ROOM: Water@Pie			
SESSION	POSTER SETUP	CLINICAL CHALLENGES	INDUSTRY SESSION		
	POSIEKSETOP				
Chair	Water Office One	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	+	and Westmead Hospital - Proteins, Peptides	Path to Commercialisation		
2:35		and Advanced Cell Therapies to Treat Heart	Cong Vu - NanoSoils Bio Pty Ltd - Can My		
Keynote/	POSTER SETUP	Anushka Patel - The George Institute for	Nanomedicine be Useful for Other Things?		
Invited	- 33.21.32.31	Global Health - Hypertension - the leading	La decatar a Ditala		
2:55		risk factor for disease burden globally	Industry Pitch		
Keynote/		insk ractor for disease burden globally			
Invited	 				
3:15		AFTERNOON TEA			
3:50	POSTER PRESENTATION COMPETITION - Water@Pier One				
	Chair: Peter Wich				
5:00 - 6:00	POSTER SESSION - Water@Pier One				
6:00	POSTER PRIZE AWARDS ANNOUNCEMENT & PRESENTATION - Water@Pier One				
6:30- 930	CONFERENCE DINNER - Water @Pier One				

Poster presentations at the 15th International Nanomedicine Conference will take place in two sessions:

- 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.
- $b.\ Presenters\ in\ this\ session\ are\ eligible\ for\ one\ of\ five\ (5)\ poster\ prizes\ to\ be\ judged\ during\ the\ session.$
- 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.
- $c.\ Please\ collect\ your\ poster\ at\ the\ conclusion\ of\ the\ poster\ session,\ or\ from\ the\ registration\ desk\ on\ Wednesday.$

8:30		DECISTO ATIONIC COST	WEDNESDAY,18th JUNE 2025		
		REGISTRATIONS OPEN PLENARY: Fabian Kiessling - University of Aacl	nen		
9:00	Diagnostic Nanoparticles for Drug Delivery, Cell Tracking and Tissue Engineering CHAIR: Justin Cooper-White ROOM: Water@Pier One				
SESSION	DRUG DELIVERY	BIOMATERIALS & BIO-NANO INTERFACE	TISSUE ENGINEERING & MICROPHYSIOLOGICAL		
Chair	Chaoliang Tan	Mostafa Kamal Masud	SYSTEMS Junmin Lee		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
9:45	Chengzhong Michael Yu - The University of	Jinyao Liu - Shanghai Jiao Tong University -	Y. Shrike Zhang - Harvard Medical School - High-		
Keynote	Queensland - From Cell-Type-Specific to Cell- Phenotype-Specific Drug Delivery	Nanocoated Bacterial Therapeutics	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 Chair	DRUG DELIVERY Hongyi Xu	BIOMATERIALS & BIO-NANO INTERFACE Khoon Lim	DRUG DELIVERY Xinyu Liu		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
11:10 Oral	Peter Davis - ATA Scientific - Extracellular Vesicles - The Wonder-somes	Dakrong 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	Shyam Lal Mudavath - University of	Kuan Un (Johnny) Wong - Culturon Pty Ltd -	Jaret Lee - UpNano GmbH -		
Oral	Hyderabad - Customized Bioactive β-Glucan Conjugated Polymeric Nanoparticles Targeting Inflammatory Macrophages in Pancreatitis Treatment	Revolutionising Diagnostics and Cell Culture with Plasma-Activated Coatings			
12:30		LUNCH			
SESSION	DRUG DELIVERY	BIOMATERIALS & BIO-NANO INTERFACE	TISSUE ENGINEERING & MICROPHYSIOLOGICAL SYSTEMS		
	Zan Dai	Nathan Boase	Chantal Kopecky		
Room	Dawes Point 3&4	Dawes Point 1&2	Water@Pier One		
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Room 1:30	Dawes Point 3&4 Moe El Mohamad - The Peter Doherty Institute for Infection and Immunity - Developing CRISPR-Cas13 Antiviral Therapeutics for Respiratory Pathogens of Pandemic Potential Karen Hakobyan - UNSW Sydney - Enhancing CNS Drug Delivery through Direct Conjugation	Dawes Point 1&2 Franco Centurion Rodriguez - UNSW Sydney - Bioactive Polyphenol-Gallium Nanocoatings for Nitric Oxide Release and Enhanced Biomedical Implant Performance Marcela Chaki - University of Wollongong - Multifunctional Oxygen Non-stoichiometric Bismuth (Bi)-based Nanospheres for	Water@Pier One Nona Farbehi - UNSW Sydney - Spatial Transcriptomics Reveal the Intricate Interactions between Cells and Implants of Different Shapes		
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