DRAFT F	rogram		MONDAY, 24TH JUNE 2019		
8:30	REGISTRATIONS OPEN				
9:00	WELCOME: Professors Justin Gooding, Maria Kavallaris & Tom Davis Australian Centre for NanoMedicine (UNSW), ARC Centre of Excellence in Convergent Bio-Nano Science and Technology (Monash)				
9:15	OPENING: Professor Hugh Durrant-Whyte, NSW Chief Scientist and Engineer				
9:30		niversity of Toronto (Canada) - Towards Organs			
	CHAIR: Prof Benjamin Thierry ROOM: Water@Pier One				
10:10	MORNING TEA				
SESSION	DRUG DELIVERY	BIOACTIVE MATERIALS	SENSORS & IMAGING		
Chair Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
10:40 Keynote	A/Prof Jonathan Lovell - University at Buffalo (USA) - Nanoscale Formulations of Tetrapyrroles for Imaging and Therapy	Prof David Lynn - University of Wisconsin - Madison (USA) - Building Bioactivity into 'Slippery' Liquid-Infused Porous Surfaces	A/Prof Kanyi Pu - Nanyang Technological University (Singapore) - Molecular Afterglow Imaging for Cancer Detection, Drug Screening and Imaging Guided Therapy		
11:10 Invited	Dr Francesca Cavalieri - University of Melbourne (Australia) - Sono-Formulation of Anticancer Drugs into Nanodrugs	Dr Carla Meledandri - University of Otago (NZ) - Silver Nanocomposite Materials as Antimicrobial Agents for Dental Application	A/Prof Olga Shimoni - University of Technology Sydney (Australia) - Tracking of Single Nanoparticles in Living Cells		
11:30 Imvited	Prof Huabing Chen - Soochow University (China) - Photoactive Nanoparticles for Cooperative Cancer Therapy	Prof Vipul Bansal - RMIT University (Australia) Biomimetic Nanozymes as Promising Photo- Activatable Antimicrobial Agents and Pro- Drug Therapies	Prof Peng Mi - Sichuan University (China) - Nanoparticles with pH-triggered contrast amplification for precision tumor imaging and therapy		
11:50 Oral	Dr Ernest Moles - Children's Cancer Institute (Australia) - Bispecific Antibody-Targeted Combinatorial Nanotherapeutics for High-Risk Acute Lymphoblastic Leukaemia Chemotherapy	Dr Yuhuan Li - Monash University (Australia) - Thiol-activated H2S Releasing Polymer for Reducing the Generation of Oxidative Stress	Dr Simon Corrie - Monash University (Australia) - Reagentless Biosensors for 1-Step Detection of Cardiac Troponin-I		
12:10		LUNCH			
1:10		n - Australian Institute for Bioengineering and N	'		
	CF	HAIR: Prof Tom Davis ROOM: Water@Pier O	ne		
SESSION	DRUG DELIVERY	BIOACTIVE MATERIALS	SOCIAL ASPECTS & REGULATORY		
Chair			A/Prof Matthew Kearns		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
Room 1:55 Keynote	Water@Pier One Prof Magdalena Plebanski - RMIT University (Australia) - Superparamagnetic Iron Oxide Nanoparticles with Natural Non-Inflammatory Surface Coatings for Diverse Biological Applications	Dawes Point 1&2 Prof Michael Roberts - University of South Australia (Australia) - Topical Absorption and Safety of Nanomaterials Applied to Human Skin			
1:55	Prof Magdalena Plebanski - RMIT University (Australia) - Superparamagnetic Iron Oxide Nanoparticles with Natural Non-Inflammatory Surface Coatings for Diverse Biological Applications	Prof Michael Roberts - University of South Australia (Australia) - Topical Absorption and Safety of Nanomaterials Applied to Human	Prof Rachel Ankeny - University of Adelaide (Australia) - Animal Models in Biomedicine: Past, Present, and Future Directions		
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DRAFIF	rogram		TUESDAY, 25TH JUNE 2019	
8:30	REGISTRATIONS OPEN			
9:00	PLENARY: Prof Joseph Wang - University of California, San Diego (USA) - Biomedical Nanorobots: a 'Fantastic Voyage'			
	CHAIR: Prof Justin Gooding ROOM: Water@Pier One			
SESSION	DRUG DELIVERY	BIONANO INTERACTIONS & NANOTOXICOLOGY	SENSORS & IMAGING	
Chair	Prof Cyrille Boyer	Dr Kristopher Kilian	A/Prof Kris Thurecht	
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4	
	Prof Didier Gigmes - Institute of Radical	A/Prof Andrew Smith - University of Illinois at	A/Prof Lacey McNally - Virginia Tech - Wake	
9:45	Chemistry (France) - Synthesis of Degradable	Urbana-Champaign (USA) - Nanoparticle	Forest University (USA) - Tracking of	
Keynote	Block Copolymers a Bio-Implants for Central	Probe Design Principles for Single-Molecule	Nanodrug Delivery Vehicles and their Fate in Cancer	
	Nervous System Repair	Analysis of Cells and Tissues A/Prof Arlene McDowell - University of Otago	Cancer	
10:15	Prof Gaojian Chen - Soochow University	(NZ) - Does the Architecture of Cell-	Prof Hua Kuang - Jiangnan University (China) -	
Invited	(China) - MAG-based Glycopolymers for Enhanced Immune Cell Activation	Penetrating Peptides Influence Cell	Chiral Nano Probes to Perturb Complex	
	Enhanced immune Cell Activation	Interactions?	Biological Systems	
10:35		MORNING TEA		
SESSION	DRUG DELIVERY	BIONANO INTERACTIONS & NANOTOXICOLOGY	SENSORS & IMAGING	
Chair		Dr Pu-Chun Ke		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4	
	Prof Chuan Zhang - Shanghai Jiao Tong	Prof Jiwei Cui - Shandong University (China) -	Prof Jie Song - Shanghai Jiao Tong University	
11:10	University (China) - Self-assembled Drug-	Exploring Bio-Nano Interactions with	(China) - Dynamic DNA Structures for	
Invited	Containing DNA Nanostructures for Cancer	Poly(ethylene glycol) Particles	Information Relay Visualized by AFM	
	Therapy	Prof Michael Higgins - University of	Dr Guozhen Liu - UNSW Sydney (Australia) -	
44.00	A/Prof Ivan Kempson - University of South	Wollongong (Australia) - 'Watching' Single	Structure-switching DNA on Graphene Oxides	
11:30 Oral	Australia (Australia) - Nanoparticle	Protein Interactions on Nanoparticle and	based in Vivo Device for Continuous	
Oral	Radiosensitisation: From the Nano Scale to Clinical Planning	Polymer Surfaces in Liquid using High-Speed	Monitoring of Interferon-γ in Inflammatory	
	Cililical Flamming	Atomic Force Microscopy	Mice	
44.50	Dr Pie Huda - University of Queensland	Dr Aleksandr Kakinen - Monash University	Dr Zach Houston - University of Queensland	
11:50 Oral	(Australia) - Polyamorous Nanobodies for High	(Australia) - Hereto-Aggregation of Human	(Australia) - Applied Comparative Oncology of Nanomedicines to Diagnose and Treat Canine	
Oral	Affinity Tumour Targeting	Islet Amyloid Polypeptide with its Amyloidogenic Fragments	Prostate Cancer	
		Dr Matthew Faria - University of Melbourne		
12:10	Ms Melanie Fuller - Flinders University	(Australia) - Linking Low-Fouling to Stealth – A	Dr Hilary Byrne - University of Sydney (Australia) - Pre-Clinical Study of Gadolinium-	
Oral	(Australia) - Gold Nanoparticles in Antibiotic	Whole Blood Biomolecular Corona and	based Nanoparticles for Enhanced	
Orai	Loaded Wound Dressings	Cellular Association Analysis on	Radiotherapy and Imaging	
42.20		Nanoengineered Particles Lunch	., 55	
12:30				
1.20	PLENARY: Prof Chunying Chen - Chinese Academy of Sciences (China) - The Crown and the Scepter: Roles of the Protein Corona in			
1:30	Nanomedicine			
CECCION	CHAIR: Prof Andrew Whittaker ROOM: Water@Pier One			
SESSION	CLINICAL CHALLENGES	INDUSTRY SESSION	DRUG DELIVERY	
Chair	A/Prof Phoebe Phillips	Prof Clive Prestidge		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4	
2:15	A/Prof David Ziegler - Sydney Children's	Mr Stewart Bartlett - Ferronova (Australia) -	Prof Ye-Zi You - University of Science and Technology of China (China) - Stimuli-	
Invited	Hospital (Australia) - Challenges in Childhood	Nanoparticle Innovation in Cancer Surgery	responsive Polymers and Nanomicelles for	
	Cancer – Can Nanomedicine Save Us?	paradosradon m cancer sargery	Gene Delivery	
	Dr Ivan Ho Shon - Prince of Wales Clinical	Dr Christophe Barbé - Ceramisphere Pty		
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2:35	School (Australia) - Nuclear Medicine,	Limited (Australia) - "Zero Waste"	Dr Bingyang Shi - Macquarie University (Australia) - New Strategy for Blood-Brain	
2:35 Invited	School (Australia) - Nuclear Medicine, Positron Emission Tomography and	Limited (Australia) - "Zero Waste" Nanocomposite Patches for Transdermal	(Australia) - New Strategy for Blood-Brain	
	School (Australia) - Nuclear Medicine,	Limited (Australia) - "Zero Waste" Nanocomposite Patches for Transdermal Delivery of Analgesics	(Australia) - New Strategy for Blood-Brain Barrier Crossing and Brain Disease Therapy	
Invited	School (Australia) - Nuclear Medicine, Positron Emission Tomography and	Limited (Australia) - "Zero Waste" Nanocomposite Patches for Transdermal Delivery of Analgesics Mr George Kokkinis - Pharmako	(Australia) - New Strategy for Blood-Brain Barrier Crossing and Brain Disease Therapy Dr Amirali Popat - University of Queensland	
	School (Australia) - Nuclear Medicine, Positron Emission Tomography and	Limited (Australia) - "Zero Waste" Nanocomposite Patches for Transdermal Delivery of Analgesics Mr George Kokkinis - Pharmako Biotechnologies Pty Ltd (Australia) -	(Australia) - New Strategy for Blood-Brain Barrier Crossing and Brain Disease Therapy Dr Amirali Popat - University of Queensland (Australia) - Emerging Trends in Stimuli	
Invited 2:55	School (Australia) - Nuclear Medicine, Positron Emission Tomography and Nanomedicine: Potential Opportunities	Limited (Australia) - "Zero Waste" Nanocomposite Patches for Transdermal Delivery of Analgesics Mr George Kokkinis - Pharmako	(Australia) - New Strategy for Blood-Brain Barrier Crossing and Brain Disease Therapy Dr Amirali Popat - University of Queensland	
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DRAFIF	Program	V	VEDNESDAY, 26TH JUNE 2019		
8:30	REGISTRATIONS OPEN				
9:00	PLENARY: Prof Ranjeny Thomas - University of Queensland (Australia) - Dendritic-Cell Peptide Targeting Liposome Platforms for Antiger Specific Immunotherapy				
	CHAI	R: Prof Maria Kavallaris ROOM: Water@Pie	r One		
SESSION	BIONANO INTERACTIONS & NANOTOXICOLOGY	MICROFLUIDIC & BIOENGINEERED MODELS	SENSORS & IMAGING		
Chair	Prof Frank Caruso	Dr Rona Chandrawati	Dr Simon Corrie		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
9:45 Keynote	Prof Haeshin Lee - Korea Advanced Institute of Science and Technology (Korea) - TBA	Dr Amir Reza Aref - Harvard Medical School (USA) - Screening Cancer Therapeutic Agents in Ex Vivo Controlled Microenvironment for Solid Patient Tumors	Prof Samuel Achilefu - Washington University in St. Louis (USA) - Radionuclide Stimulated Nanophotosensitizers for Cancer Therapy		
10:15 Invited	A/Prof David Leong - National University of Singapore (Singapore) - Engineering Endothelial Leakiness with Nanotechnology	A/Prof Chun-Xia Zhao - University of Queensland (Australia) - Fundamental Nano- Bio Science Based on Biomimetic Engineering and Microfluidic Technology	Prof Daishun Ling - Zhejiang University (China) - Dynamic Nanoparticle Assemblies for Biomedical Imaging and Targeted Therapy		
10:35		MORNING TEA			
SESSION Chair	DRUG DELIVERY	MICROFLUIDIC & BIOENGINEERED MODELS	SENSORS & IMAGING		
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
11:10 Invited	Prof Gang Zou - University of Science and Technology of China (China) - Sensitive Discrimination of Single Nucleotide Variant using PDA Microtube Waveguide System with Heterogeneous CHA Amplification and Competitive Inhibition Strategy	Dr Brooke Farrugia - University of Melbourne (Australia) - Bioengineering Growth Factor Delivery Systems	Dr Jan Lauko - University of Queensland (Australia) - Applications of Confocal–Rheology in Studies of Synthetic and Biological Systems		
11:30 Oral	Prof Jie Liu - Sun Yat-sen University (China) - Enzymatic Synthesis of Functional Polyesters for Smart Therapeutic Nano-Systems	Dr Shiyang Tang - University of Wollongong (Australia) - High-Throughput, Off-Chip Microdroplet Generator Enabled by a Spinning Conical Frustum	Dr Ying Zhu - UNSW Sydney (Australia) - The Development of Plasmonic Nanohole Arrays towards Exosome Detection for Cancer Diagnosis		
11:50 Oral	Dr Sandhya Clement - UNSW Sydney (Australia) - Targeted Drug Delivery for X-ray Induced Photodynamic Therapy	Mr Zhaobin Guo - University of South Australia (Australia) - Microvasculature-on- Chip: A New Tool for in vitro Radiobiological Studies	Dr Phu Duy Tran - University of South Australia (Australia) - Indium Oxide Nanosensors for Rapid Diagnosis of Preeclampsia in Emergency Departments and Remote Areas		
12:10 Oral	Dr Wei Deng - UNSW Sydney (Australia) - Using Mitochondria-Targeted Nanocarriers and Low Dose X-Rays for Combined Photodynamic Therapy (PDT) of Colorectal Cancer	Ms Courtney van Ballegooie - University of British Columbian and BC Cancer (Canada) - Overcoming the Clinical Barriers of Protein Nanoparticles: Creating a Tunable and Reproducible Triggered Release System Using a Microfluidic System	Dr Yanfang Wu - UNSW Sydney (Australia) - Nanopore Blockade Sensors for Ultrasensitive Detection of Prostate-Specific Antigen in Human Whole Blood		
12:30		LUNCH			
SESSION	DRUG DELIVERY	BIONANO INTERACTIONS & NANOTOXICOLOGY	SENSORS & IMAGING		
Chair					
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4		
1:30 Oral	Dr Hongxu Lu - University of Technology Sydney (Australia) - Size-dependent Response of Multicellular Tumour Spheroids to Anti- cancer Treatment	Dr Yi Ju - University of Melbourne (Australia) - Stealth and Targeting of Ligand-Functionalized Poly(ethylene glycol) Particles	Dr Rajesh Ramanathan - RMIT University (Australia) - Catalytic Enzyme-Mimic Nanoparticle-based Sensors: Detection of Small Molecules to Whole Cells		
1:50 Oral	Dr Hao Song - University of Queensland (Australia) - Designer Nanotopography for Advanced Drug Delivery Platform	Mr Sarith Bandara - University of Illinois at Urbana-Champaign (USA) - Hydrogels Dehydrate Liposomes: the Structural Fate of Lipid Nanoparticles in the Extracellular Matrix	Ms Irene Theofilou - University of Birmingham (UK) - Luminescence Lifetime for Detection of Gold Nanoparticles that Target Mitochondria in Cancer Cells		
2:10 Oral	Ms Zerong Ma - Children's Cancer Institute (Australia) - Biological Optimisation of Star- Polymer Nanoparticles for Effective Delivery of Therapeutic siRNA to Lung Cancer Cells	Mr Samuel Cheeseman - RMIT University (Australia) - Magnetic Liquid Metal Nanoparticles as a Stimuli-Activated Treatment for Pathogenic Biofilms	Mr Joshua Simpson - Centre for Advanced Imaging (Australia) - Exploration of Fluorophore-Driven Behaviours of Hyperbranched Polymer Nanomedicines Using Cross-Correlative Imaging		
2:30 Oral	Ms Elena Steiert - Johannes Gutenberg- University Mainz (Germany) - Protein-based Nanoparticles for the Delivery of Antibacterial Enzymes	Miss Lu Fu - UNSW Sydney (Australia) - Targeting the Tumour Vasculature with Heparin Conjugated Cerium Oxide Nanoparticles	Ms Danielle Bennett - UNSW Sydney (Australia) - Plasmonic Sensing of Viral RNA for Point-of-care		
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WEDNESDAY, 26TH JUNE 2019 (cont'd)

DRAFT Program

2:50	AFTERNOON TEA		
SESSION	DRUG DELIVERY	BIOACTIVE MATERIALS	SENSORS & IMAGING
Chair			
Room	Water@Pier One	Dawes Point 1&2	Dawes Point 3&4
3:20 Oral	Dr David Chang - Children's Cancer Institute (Australia) - Delivering Caelyx® to Multiple Cancers with Bispecific Antibodies	Ms Jieying Liang - UNSW Sydney (Australia) - Peptide-Induced Super-Assembly of Metal–Organic Framework for Programmed Enzyme Cascade Reaction	Dr Merfat Algethami - Taif University (Saudi Arabia) - BiOI Nanoparticles as a Novel Potential Imaging Contrast Agent Ffor Dual CT and Multi-Energy Spectral CT (MARS)- Phantom Study
3:40 Oral	Ms Parisa Badiee - UNSW Sydney (Australia) - Anti PD-1 Conjugated Nanoparticles: a Promising Delivery System to Inhibit PD-1 Immune Checkpoint	Mr Jian Liu - UNSW Sydney (Australia) - Artificial Cell Systems with on-Demand Biocatalytic Responses	Ms Chiung-Wen Hsu - Tunghai University (Taiwan) - Surface Enhanced Raman Spectroscopy for Bacteria Detection in Peritoneal Dialysis
4:00 Oral	Mr Daniel Brundel - Monash University (Australia) - Enzymatic Remodelling of the Extracellular Matrix Promotes Tumoural Penetration of a Model Nanoparticle	Ms Kochurani Kandamkulathy Johnson - UNSW Sydney (Australia) - Functionalising Nanoceria for Enhanced Cellular Uptake: Targeting the Epidermal Growth Factor Receptor in Cancer	Mr Max Weston - UNSW Sydney (Australia) - Lipid-Doped Polydiacetylene Vesicles for Visual Monitoring of Microbial Food Spoilage
4:20 Oral	Ms Tao-Wei Tang - Taipei Medical University (Taiwan) - Mesoporous Silica Nanoparticles Deliver STING Activator c-diGMP for Breast Cancer Immunotherapy	Mr Amit Khurana - NIPER-Hyderabad (India) - Yttrium Oxide Nanoparticles Resolve Acute Pancreatitis by Modulation of Mitochondrial and Endoplasmic Reticulum Stress	Ms Amani Alghalayini - University of Technology Sydney (Australia) - Heat Transfer Characteristics of Nanoparticles Measured with Tethered Bilayer Lipid Membranes
4:50	CLOSING CEREMONY & ORAL PRIZES ANNOUNCEMENT - Water@Pier One Profs Justin Gooding, Maria Kavallaris & Tom Davis Australian Centre for NanoMedicine (UNSW), ARC Centre of Excellence in Convergent Bio-Nano Science and Technology (Monash)		
5:00 - 7:00	FAREWELL DRINKS AND PIZZA - Water@Pier One		