



# ASMI Annual Scientific Symposium Day 1

Symposium program - Monday 21st June Day 1	
	<b>Morning session</b>
09.00-9.10	<b>Welcome and house keeping (A/Prof Hang Ta)</b>
	<b>Chair session: Dr Brian Tse (TRI) and Dr Gary Cowin (CAI)</b>
9.15-10.05	<b>Plenary speaker 1: Prof Carolyn Mountford (Griffith University, Brisbane) Neurochemical Dysregulation Changes How We Feel and Function</b>
10.10-11.25	<b>Abstract Oral presentations</b>
10.10-10.25	Oral presentation 1: Najma Annuria Fithri (Griffith University, Brisbane & Monash University, Melbourne) "Gold-Iron Oxide Nanoparticle: A Dual Modality Theranostic Approach for Thrombosis"
10.30-10.45	Oral presentation 2: Q.Peter Su (University of Technology Sydney, Sydney) "Single-Molecule Mapping of the Integrin $\alpha\text{IIb}\beta\text{3}$ and Associated Cytoskeleton Dynamics during Human Platelet Spreading"
10.50-11.05	Oral presentation 3: Amandeep Kaur (School of Medical Sciences, The University of Sydney) "Fluorescent probes for super-resolution imaging of protein aggregates"
11.10-11.25	Oral presentation 4: David Hartnell (School of Molecular and Life Sciences, Curtin University, Perth) "Spectroscopic Characterisation of Lipofuscin: a window into cellular history"
11.25-11.40	<b>Morning tea</b>
	<b>Chair session: A/Prof Hang Ta (Griffith) and Dr Shehzahdi Shebbrin Moonshi (Griffith)</b>
11.45-12.10	<b>Invited Speaker 1: Prof Gemma Figtree (The University of Sydney, Sydney) "Precision stratification of common cardiovascular syndromes- a role for advanced molecular imaging."</b>
12:15-12:50	<b>Sponsor Scientific Presentations</b>
12.15-12.30	Trendbio by Tim Devling "Multispectral Optoacoustic Tomography (MSOT): The path towards clinical translation"
12.35-12.50	Perkin Elmer by James Humphries (CAI) : "Life beyond PEG: New directions for polymer-based drug delivery".
12.55-13.20	<b>Invited Speaker 2: A/Prof Xiaowei Wang (Baker Heart and Diabetes Institute, Melbourne) "Molecular imaging and theranostics approaches for cardiovascular diseases".</b>
13.25-13.55	<b>Lunch</b>

<b>21st June 2021: Day 1 Afternoon session</b>	
	<b>Chair session: Dr Karine Mardon (CAI) and Dr Muneer Syed Musthakahmed (CAI)</b>
<b>14.00-14.50</b>	<b>Plenary Speaker 2: A/Prof Michelle James</b> (Stanford University, Stanford ) "Detecting and tracking immune responses in the brain and beyond using PET"
<b>14.55-15.14</b>	<b>Poster Presentations (3min talks)</b>
<b>14.55-14.58</b>	Poster presentation 1: Benjamin H.Fraser (Human Health Research, Biosciences Laboratories, ANSTO, Sydney) "Rhenium(I) Promoted Radiofluorination Reactions: Optimisation, Substrate Scope and Reaction Mechanism".
<b>14.59-15.02</b>	Poster presentation 2: Yiqing Lu (Centre for Nanoscale BioPhotonics, Macquarie University, Sydney) "Real-time SWIR fluorescence imaging in small animals for preclinical cancer research"
<b>15.03-15.06</b>	Poster presentation 3: Hamed Moradi (Centre for Advanced Imaging, The University of Queensland, Brisbane) " Kinetic parameters estimation in dynamic PET 18F-FDG study using Machine Learning"
<b>15.07-15.10</b>	Poster presentation 4: Sanchit Seth (School of Biomedical Science, Faculty of Health, Queensland University of Technology, Brisbane) "Exploring the Functional Role of ProsmiR and Therapeutic Potential of its mimic in Prostate Cancer".
<b>15.11-15.14</b>	Poster presentation 5: Aaron J Urquhart (The University of Queensland, Brisbane) "Kidney Cancer Subtyping using Two Dimensional Correlated Spectroscopy".
<b>15.20-15.50</b>	<b>Sponsor Scientific Presentations</b>
	Gamma Gurus by Jason Beirne and Prof Chris Vanhove " Voxel-based analysis of [18F]-FDG rat brain PET studies using data-driven normalisation."
<b>15.55-16.10</b>	<b>Afternoon tea</b>
	<b>Chair session: Dr Melissa latter (RBWH) and Benedict Lum (TRI).</b>
<b>16.15-16.40</b>	<b>Invited Speaker 3: Dr Trang Nguyen</b> (University of Technology Sydney, Sydney) "Monitoring the cancer during radiotherapy treatment".
<b>16.45-17.10</b>	<b>Invited Speaker 4: Prof Trent Woodruff</b> (The University of Queensland, Brisbane) "Therapeutic Modulation of Innate Immune-Mediated Inflammation during Neurodegeneration"
<b>17.10-17.15</b>	<b>Prizes for oral presentations for Day 1</b>
<b>17.20-17.35</b>	<b>Sponsor Scientific Presentation</b>
	Olympus by Sandrine Roy "Multiphoton microscopy: Application Examples of Live Imaging at Cellular level."
	<b>Tour of TRI: 30 min</b>
<b>17.40-18.40</b>	<b>ASMI AGM meeting</b>
<b>19.00</b>	<b>Symposium Dinner</b>



# ASMI Annual Scientific Symposium Day 2

Symposium program - Tuesday 22nd June Day 2	
Morning session	
Chair session: Dr Nick Fletcher (CAI) and Jessica A. Mills (CAI)	
8.30-9.35	Sponsor Scientific Presentations
8.30-9.00	AXT/Trifol by Dr Homan Kang (Gordon Center for medical Imaging, Boston) "Renal Clearable Theranostic Nanoplatform for Gastrointestinal Stromal Tumors."
9.05-9.35	TissueGnostics by Sanchit Seth and Kim Blenman (Yale, Connecticut) "High content phenotyping of the spatial dynamics of human TIME through machine learning and deep neural networks."
9.40-10.30	Plenary speaker 3: Prof Kristofer Thurecht (The University of Queensland, Brisbane) "Molecular Imaging in Nanomedicine: New Approaches to Probe Mechanism and Efficacy of Polymer Drugs."
10.35-11.10	Abstract Oral presentations
10.35-10.50	Oral presentation 5: Nicholas Fletcher (Centre for Advanced Imaging (CAI), Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Brisbane) "Together or apart: Optimising the pre-targeting of polymeric nanocarriers."
10.55-11.10	Oral presentation 6: Jessica A. Mills (Centre for Advanced Imaging, the University of Queensland, Brisbane) "Manipulating macrophage clearance of nanoparticle: Comparison of small molecule and biologic drugs as pharmacokinetic modifiers of soft nanomaterials"
11.15-11.30	Morning tea
Chair session: Dr Nick Fletcher (CAI) and Jessica A. Mills (CAI)	
11.35-12.00	Invited Speaker 5: Prof John Hooper (Mater Research Institute, Brisbane) "A new radio-immuno agent for detection and treatment of pancreatic and ovarian cancer."

	<b>Chair session: Yuao Wu (Griffith) and James Humphries (CAI)</b>
<b>12.05-12.20</b>	<b><i>Sponsor Scientific Presentation</i></b>
	ANFF by Kinnari Shelat "State-of-the-art Micro and Nano fabrication facilities at ANFF-Q: Overview and Case studies"
<b>12.25-12.48</b>	<b><i>Poster Presentations (3min talks)</i></b>
<b>12.25-12.28</b>	Poster presentation 6: Elena Dallerba (Curtin Institute for Functional Molecules and Interfaces (CIFMI) and School of Molecular and Life Sciences (MLS), Curtin University, Perth) "Bimetallic Polymeric Probes: tetrazolato rhenium(I)/iridium(III) Polymeric Luminescent Hybrid Materials"
<b>12.29-12.32</b>	Poster presentation 7: Mark J. Hackett (School of Molecular and Life Sciences, Curtin University, Perth) "Developing Synchrotron X-ray Imaging Methods to Image Brain-Metal Speciation In Situ."
<b>12.33-12.36</b>	Poster presentation 8: Srilakshmi Srinivasan (Cancer Program, Institute of Health and Biomedical Innovation and School of Biomedical Sciences, Queensland University of Technology, Brisbane) "A functional PSA prostate cancer susceptibility genetic variant confers both reduced and aggressive cancer risk."
<b>12.37-12.40</b>	Poster presentation 9: Karina Khambatta (School of Molecular Life Sciences, Curtin University, Western Australia) "Developing XFM and Rb+ tracing protocols to assess the distribution of important macronutrient, K+, in diseased leaves".
<b>12.41-12.44</b>	Poster presentation 10: Meg Willans (School of Molecular and Life Sciences, Curtin University, Perth) "Developing direct molecular imaging tools to rapidly screen environmental samples for microplastics."
<b>12.45-12.48</b>	Poster presentation 11: Adil Usman (Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, Brisbane) "Tuning the Thermoresponsive Properties of PEG-Based Fluorinated Polymers and Stimuli Responsive Drug Release for Switchable 19F Magnetic Resonance Imaging."
<b>12.50-13.15</b>	<b>Invited Speaker 6: A/Prof Juliana Hamzah (Harry Perkins Institute of Medical Research, Perth)</b> <b>"Defeating pathological barrier to improve delivery of diagnostic and therapeutic agents."</b>
<b>13.20-13.35</b>	<b><i>Sponsor Scientific Presentation</i></b>
	Fujifilm Visualsonics by Dr Lisa Philp "Targeting fat-secreted hormones: a novel therapeutic approach for advanced prostate cancer"
<b>13.40-14.10</b>	<b>Lunch</b>

	<b>22nd June 2021: Day 2 Afternoon session</b>
	<b>Chair session: Dr Run Zhang (UQ) and Najma Annuria Fithri (Griffith &amp; Monash)</b>
<b>14.15-15.05</b>	<b>Plenary Speaker 4: Prof Liu Bin</b> (National University of Singapore, Singapore) <b>"Aggregation-Induced Emission: Materials and Biomedical Applications"</b>
<b>15.10-15.45</b>	<b>Abstract Oral presentations</b>
<b>15.10-15.25</b>	Oral presentation 7: Fahima Akther (Griffith University, The University of Queensland, Brisbane) "A microfluidic model for in vitro imaging of atherothrombus formation on-chip and providing drug testing platform."
<b>15.30-15.45</b>	Oral presentation 8: Vignesh Selvaprithviraj (School of Dentistry, The University of Queensland, Herston) "A robust methodology to quantitatively assess the soft tissue expansion by tissue expanders in orodental reconstruction "
<b>15.50-16.15</b>	<b>Invited Speaker 7: Dr Tushar Kumeria</b> (University of New South Wales, Sydney) <b>"Biodegradable Porous Silicon materials for Photoacoustic Bioimaging."</b>
<b>16.20-16.40</b>	<b>Afternoon tea</b>
	<b>Chair session: Dr Kamil Sokolowski (TRI) and Azin Shokraei Fard (CAI)</b>
<b>16.45-17.00</b>	<b>Sponsor Scientific Presentations</b>
	Bruker by Gabriela Kramer-Marek from Department of Radiotherapy and Imaging, The Institute of Cancer Research, London. "Intratumoural oncolytic virotherapy increases PD-L1 expression systemically." Anne Chen from Bruker Taiwan "Performing High Throughput Dynamic Imaging by Bruker Molecular Imaging Systems."
<b>17.05-17.30</b>	<b>Invited Speaker 8: Dr Xiaowen Liang</b> (UQ Diamantina Institute, Brisbane) <b>"Functional Imaging of the Liver"</b>
<b>17.35-18.00</b>	<b>Invited Speaker 9: Prof Tanya Smith</b> (Griffith University, Brisbane) <b>"Applications of Synchrotron Imaging for Evolutionary Anthropology and Biology."</b>
<b>18.05-18.15</b>	Prize for Oral presentations for Day 2 and Prizes for Poster Presentations
<b>18.15-19.00</b>	Closing symposium



# ASMI Annual Scientific Symposium Day 3

23rd June 2021: Workshop at The Centre for Advanced Imaging (CAI/UQ) Day 3	
	<b>Chair session: Dr Zachary Houston (CAI) and Vanessa Soh (CIBIT)</b>
9.00-9.50	<b>"Preclinical and Clinical Development of Cu-64/Cu-67 Theranostic Products" from Clarity Pharmaceuticals.</b>
9.55-10.30	<b><i>Abstract Oral presentations</i></b>
9.55-10.10	Oral presentation 9: Cowin Gary (Queensland NIF node, The University of Queensland, Brisbane) "National preclinical PET QA audit: pilot study."
10.15-10.30	Oral presentation 10: Yuao Wu (Queensland Micro- and Nanotechnology Centre, Griffith University, Brisbane) "Chitosan Nano-Cocktail Containing Iron Oxide and Ceria: A Two-in-One Approach for Treatment of Inflammatory Diseases and Tracking of Material Delivery."
10.35-10.55	Morning Tea
	<b>Chair session: Dr Nick Fletcher (CAI) and Saikat Ghosh (CIBIT)</b>
11.00-11.50	<b>"Glypican-1 as a theranostic target" from GlyTherix.</b>
11.55-12.50	<b><i>Abstract Oral presentations</i></b>
11.55-12.10	Oral presentation 11: Qihua Hu (Australia Prostate Cancer Research Centre - Queensland, Translational Research Institute, School of Biomedical Sciences, Faculty of Health, Queensland University of Technology, Brisbane) "Monitoring tumour growth and oxygen distribution of prostate cancer xenografts in vivo using ultrasound and photoacoustic imaging."
12.15-12.30	Oral presentation 12: Ashleigh Hull (Cancer Research Institute, AHHP, University of South Australia, Adelaide) "Preliminary development and testing of a MUC1-CE theranostic system for pancreatic cancer."
12.35-12.50	Oral presentation 13: Ahmed Refaat (Department of Telecommunications, Electrical, Robotics and Biomedical Engineering, Swinburne University, Melbourne) "Activated Platelet-Targeted IR-780 Liposomes; Near-Infrared Light as a Tool for Image-Guided Photothermal/photodynamic Thrombolysis."
12.50-12.55	Prizes for oral presentations for day 3
13.00-14.00	<b>Lunch and Tour of CAI</b>