

JOINT SYMPOSIUM

Singapore Bioimaging Consortium :: Centre for Advanced Imaging, Brisbane

2 - 3 August 2018

Matrix Building, Exploration, Level 4, Biopolis, SINGAPORE

Day 1	Thursday 2 nd August
	08.30 – 09.00 Registration
	09.00 – 09.30 Welcome & Opening Remarks
09.00 - 09.05	Prof Patrick Cozzone, <i>Executive Director of SBIC</i>
09.05 - 09.10	Prof David Reutens, <i>Director of CAI</i>
09.10 - 09.20	His Excellency Mr Bruce Gosper, <i>Australian High Commissioner to Singapore</i>
09.20 - 09.30	Prof Barry Halliwell, <i>Chairman of Biomedical Research Council, A*STAR</i>
	09.30 – 10.15 Plenary Presentation Chair: Ed Robins
09:30 - 10:15	Prof Pamela Russell (CAI): <i>New Targeted beta Therapy for Treating Human Prostate Cancer</i>
	10.15 – 10.40 Tea & Coffee Break
	10.40 – 12.35 Session 1 - <u>Translational Imaging</u> Chair: Joyce Chan
10.40 - 11.10	Malini Olivo (SBIC): <i>Cutting Edge Biophotonics Imaging Technologies for Preclinical and Clinical Applications</i>
11.10 - 11.35	Philip Lee (SBIC): <i>Metabolic Imaging in Diseases with Hyperpolarized Carbon¹³ MRI</i>
11.35 - 11.55	Steffen Bollmann (CAI): <i>Deep QSM - Solving the Quantitative Susceptibility Mapping Inverse Problem Using Deep Learning</i>
11.55 - 12.15	Lee Kuan Jin (SBIC): <i>(I) Renal Perfusion Imaging (II) Robust VAPOR Water Suppression</i>
12.15 - 12.35	Yas Tesiram (CAI): <i>X-Nucleus Imaging and Spectroscopy: Technical Tips and Tricks</i>
	12.35 – 13.30 Lunch
	13.30 – 14.55 Session 2 - <u>Imaging Systems and Disease 1</u> Chair: Fu Yu
13.30 - 14.00	Weiping Han (SBIC): <i>Adipose Tissue-derived Secreted Factor in the Regulation of Energy Homeostasis</i>
14.00 - 14.25	Nyoman Kurniawan (CAI): <i>Brain Structural Connectome at 16.4T</i>
14.25 - 14.55	Sendhil Velan (SBIC): <i>Multi-Parametric Imaging of White, Brown and Beige Adipose Tissues - Rodents to Human</i>
	14.55 – 15.20 Industry Updates
	Michael Heidenreich (Bruker): <i>Single-Crystal SiPm PET technologies for the future of PET/MR and PET/CT imaging</i>
	15.20 – 15.35 Tea & Coffee Break
	15.35 – 16.25 Session 2 - <u>Imaging - Systems and Disease 1 - contd.</u>
15.35 - 16.00	Shigeki Sugii (SBIC): <i>Novel Imaging Approaches to Monitor Adipose Tissue Maturation and Browning</i>
16.00 - 16.25	Zach Houston (CAI): <i>A Systematic Evaluation of the Therapeutic Potential of Nanomedicines for Glioblastoma</i>

16.25 – 17.15 Session 3 - Multimodal Imaging Chair: Bhanu Prakash

16.25 - 16.50

Julian Goggi (SBIC): *Isotopic Molecular Imaging Laboratory*

16.50 - 17.15

Dinish US (SBIC): *Novel Biophotonics Sensing and Spectroscopic Platforms for Preclinical and Clinical Applications*

17.15 – 18.15 Flash Talks Chair: Weiping Han

Jadegoud Yaligar

Chong Yong Chun

Sanjay Verma

Zoe So Wing Yan

Venkatesh Gopalan

Francesca Mandino

19.00

Symposium Dinner (Invited guests only)

End of Day 1

Day 2	Friday 3rd August
	08.30 – 09.00 Registration
	09.00 – 09.45 Plenary Presentation Chair: Malini Olivo
09.00 - 09.45	Joyce Chan (SBIC): <i>Clinical Applications in Atherosclerosis Imaging</i>
09.45 - 10.20	Prof David Reutens (CAI): <i>Drug Repurposing in Refractory Temporal Lobe Epilepsy</i>
	10.20 – 10.40 Tea & Coffee Break
	10.40 – 12.00 Session 4 - <u>Molecular Imaging: Chemistry</u> Chair: Julian Goggi
10.40 - 11.10	Kristofer Thurecht (CAI): <i>Polymer Nanomedicines in Cancer Therapy and Imaging</i>
11.10 - 11.35	Edward Robins (SBIC): <i>Development of Novel Probes for Cancer Imaging</i>
11.35 – 12.00	Rajiv Bhalla (CAI): <i>The Development of Novel Inorganic Complexes and their Application to PET Imaging</i>
	12.00 – 12.25 Industry Updates
	Presentation by Siemens
	12.25 – 13.30 Lunch
	13.30 – 15.25 Session 5 - <u>Imaging Systems and Disease 2</u> Chair: Philip Lee
13.30 - 13.55	Fu Yu (SBIC): <i>Feeding Regulation by Tuberal Nucleus Somatostatin Neurons</i>
13.55 - 14.20	Horst Schirra (CAI): <i>Systems Biology Characterisation of a Core Metabolic Enzyme Responsible for Phosphine Resistance and Fundamental Metabolic Regulation</i>
14.20 - 14.40	Tang Jiong (SBIC): <i>Mechanistic Study of Pathogenic Mutations of SMARCA2 Gene in Nicolaiides Baraitser Syndrome (NBS)</i>
14.40 – 15.00	Jung Sangyong (SBIC): <i>Association of Brain Development and Gut Microbiome in Gestational Diabetes Mellitus (GDM) Offspring</i>
15.00 - 15.25	Andrew Janke (CAI): <i>A Curated Digital Phenotyping Service: the Techniques and Technology</i>
	15.25 – 15.45 Tea & Coffee Break
	15.45 – 16.35 Session 6 - <u>Image Processing</u> Chair: Lee Kuan Jin
15.45 - 16.10	Viktor Vegh (CAI): <i>Quantitative Image Analysis Methods for MRI to Map Changes in Tissue Microstructure</i>
16.10 - 16.35	Bhanu Prakash (SBIC): <i>Activities of Signal & Image Processing Group – An Overview</i>
	16.35-16.45 Closing Remarks
	<i>End of Symposium</i>