SBIC WELCOMES ISMRM!

SBIC Workshop on Biomedical Magnetic Resonance
6 May 2016, Breakthrough Theatrette, Level 4, Matrix, 30 Biopolis Street, SINGAPORE

PROGRAMME

08:15 – 08:45 Registration

Welcome & Opening Remarks

08:45 - 09:00 Patrick J. Cozzone, Executive Director, SBIC

Scientific Sessions

Session One: Imaging in Obesity, Diabetes and Cardiovascular Diseases

Chair: Sue-Anne Toh Ee Shiow (NUHS), Han Weiping (SBIC)

09:00 - 09:25 Fritz Schick, Sektion für Experimentelle Radiologie, Tübingen, Germany
The role of MRI in characterization of pre-diabetic subjects
09:25 - 09:30 Q & A

09:30 - 09:55 Albert Thomas, Departments of Radiology and Psychiatry, UCLA, Los Angeles, USA
Multi-Dimensional Spectroscopic Imaging of fat composition in skeletal muscle of obese and diabetic subjects
09:55 - 10:00 Q & A

10:00 - 10:25 Monique Bernard, CRMBM, CNRS-Aix-Marseille Université, France
Multimodal MRI/MRS and cardiovascular alterations in diabetes and obesity
10:25 - 10:30 Q & A

10:30 - 10:50 Tea & Coffee Break (20 mins)

Session Two: MSK Imaging

Chair: Marielle Fortier (SGH, KKH), Christiani Jeyakumar Henry (CNRC, SICS)

10:50 - 11:15 David Bendahan, CRMBM, CNRS-Aix-Marseille Université, France
MRI in neuromuscular disorders: acquisition and post-processing issues
11:15 – 11:20 Q & A

11:20 - 11:45 Ravi Regatte, Radiology, NYU Langone Medical Center, New York, USA
Phosphorus Metabolic Imaging of muscle on 3T and 7T
11:45- 11:50 Q & A

11:50 - 12:15 Richard Spencer, NIA/NIH, Baltimore, USA
Inverse Laplace Transform-omics in magnetic resonance with applications to Cartilage and Muscle
12:15 - 12:20 Q & A

12:20 - 13:20 Buffet Lunch (1 hour)
Session Three: Emerging MR Technologies

Chair: Sendhil Velan (SBIC), Kuan Jin Lee (SBIC)

13:20 – 13:45 Ravinder Reddy, Radiology, University of Pennsylvania, USA
CEST MRI of myocardial and skeletal muscle metabolism

13:45 – 13:50 Q & A

13:50 - 14:15 Melanie Martin, MRM Centre, University of Winnipeg, Canada
Inferring the size of sub-micron compartments in samples using oscillating gradients

14:15 - 14:20 Q & A

14:20 - 14:45 Tim Wokrina, Bruker Biospin Preclinical Imaging Division, Ettlingen, Germany
Advances and challenges of Ultra-High Field MRI

14:45 - 14:50 Q & A

14:50 - 15:10 Tea & Coffee Break (20 mins)

Session Four: Cancer Imaging

Chair: Thng Choon Hua (NCC, SGH), Philip Lee (SBIC)

15:10 - 15:35 Harish Poptani, Dept of Cellular and Molecular Physiology, Liverpool, UK
Translational MRI and MRS in Cancer

15:35 - 15:40 Q & A

15:40 - 16:05 Rakesh Gupta, Radiology, Fortis, Gurgaon, India
Technical aspects and clinical applications of DCE MRI in brain tumors

16:05 - 16:10 Q & A

16:10 - 16:35 N.R. Jagannathan, Department of NMR and MRI, AIIMS, New Delhi, India
Breast tissue metabolism by MRI and in vivo MRS

16:35 - 16:40 Q & A

16:40 - 17:00 Tea & Coffee Break (20 mins)

Session Five: Neuroimaging

Chair: Tchoyoson Lim (NNI), Kishore Bhakoo (SBIC)

17:00 - 17:25 Marc Dhenain, UMR CEA-CNRS-UPSted, Molecular Imaging Research Center, France
Therapeutic evaluations of models of neurodegenerative diseases: endophenotypes and amyloid plaque imaging by MRI

17:25 - 17:30 Q & A

17:30 - 17:55 Wafaa Zaaraoui, CRMBM, CNRS-Aix-Marseille Université, France
Applications of $^{23}$Na MRI to neurological diseases

17:55 - 18:00 Q & A

18:00 - 18:25 Dominik von Elverfeldt, Radiology, University Medical Center, Freiburg, Germany
From Men to Mice – Understanding the Brain at Work

18:25 - 18:30 Q & A

18:30 - 18:35 Final remarks and Adjournment