



CLINICAL IMAGING RESEARCH CENTRE SINGAPORE

A joint venture between the Agency for Science, Technology And Research (A*STAR)
and the National University of Singapore (NUS)

The A*STAR-NUS Clinical Imaging Research Centre (CIRC) Presents Weekly Journal Club/Lab Meeting

August

Time: 2:00pm – 3:00pm, Wednesday

Venue: **CIRC Conference Room**
Clinical Imaging Research Centre (CIRC)
Centre for Translational Medicine (MD6)
14 Medical Drive, #B1-01
Singapore 117599

Date	Speakers	Topic
03/08/2016	Stuart Derbyshire	"Update on the Human Biomedical Research Bill & Can fMRI Ever be a Pain Detector?"
10/08/2016	Raphael Liegeois	"Dynamical models of fMRI time series"
17/08/2016	Dennis Cheong	"Tracer-Kinetic Model-Based Analysis"
24/08/2016	Sapiah Binte Alibaba	"Assessing effect of scanner sequence and system hardware on freesurfer volumetric result".
31/08/2016	Diana Amaro Cabrera	"Biomarker development to assess bone health"



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Speaker Background

Dr Stuart Derbyshire:

Stuart arrived in Singapore in July 2013 and he has a joint appointment in the NUS Department of Psychology and CIRC. His main research interest is pain, especially pain that occurs without obvious disease or injury, but more broadly Stuart is interested in understanding the relationship between subjectivity (the “what it is like” to feel or think) and objectivity (the “necessary neural mechanics” for feeling and thinking). It is dangerous to reverse inference feeling and thought from objective measures of brain activity, which is the major concern of the second half of this talk. It is also dangerous to reduce abstract, negotiated, principles of behaviour to concrete, technical, edicts of control, which is the major concern of the first half of this talk.

Dr. Raphael Liegeois:

Raphael is a biomedical engineer working on the dynamical properties of functional connectivity, evaluated from fMRI time series. During his PhD in Liège (Belgium), he applied these dynamical markers to classify patients in different states of consciousness. Raphael joined Thomas' team at CIRC last November, and now develops new dynamical models of functional connectivity, aiming at a finer description of different neurodegenerative diseases.

Dr. Dennis Cheong:

Dennis received his PhD from the Nanyang Technological University (NTU) in 2008. He was with National Neuroscience Institute (NNI) Singapore before joining the A*STAR-NUS Clinical Imaging Research Centre (CIRC) in Singapore in 2010 as a research fellow. At NTU, Dennis worked on developing distributed parameter tracer kinetics models that incorporate more than two compartments (patented) for analyzing DCE CT of brain tumors. At NNI, Dennis worked with DTI, ASL, DCE and DSC MRI in brain. He is working on clinical research projects that utilize tracer kinetics analysis. He is interested in providing meaningful parameters that can better explain the physiology of tissue being studied by DCE/DSC MRI, DCE CT, ASL, and dynamic PET.

The topic of his talk will be on Tracer-Kinetic Model-Based Analysis, which is part of this year ISMRM weekend course titled “The Basics of Perfusion & Permeability Imaging”. He will begin with the theory, briefly show the various tracer kinetics models, highlight some of the challenges and problems in the analysis and models.



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Sapiah Binte Alibaba

Sapiah is a Radiographer at CIRC. She graduated with a degree in Diagnostic Radiography from London South Banks University in 2010 and joined Mount Elizabeth Hospital where she worked for more than 5 years before joining CIRC.

Diana Amaro Cabrera

Diana is only 16 months into her PhD program in the School of Food and Nutrition at Massey University. She has a Masters degree in Biochemical Engineering Science from Instituto Tecnológico de Merida, 2005. During her PhD she will be investigating methods for induction of osteoporosis and its interaction with bone health using a sheep model.

Diana arrived to New Zealand in 2014 to do an internship at the Riddet Institute, where she worked for 6 months in various projects in the human nutrition area. Before coming to New Zealand, she was an Associate Researcher at the National Institute of Forestry, Agricultural and Livestock Research in Mexico. She decided to leave this appointment to pursue higher education in the field of health science.

--- Admission is free and all are welcome ---



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