

Program longitudinal MRI workshop

Organized by Karen Caeyenberghs and the INTS OC

8:30-9:00am	Registration	
Advanced techniques in traumatic brain injury		
9:00-9:10am	Welcome and opening workshop	Karen Caeyenberghs (Deakin University)
9:10-9:30am	Prediction of neurodegeneration in brain-injured patients using network diffusion modelling	Govinda Poudel (ACU)
9:30-9:50am	Towards specific markers of white matter (spherical tensor encoding and mcdespot) in TBI	Juan Dominguez (Deakin University)
9:50-10:10am	Advanced lesion mapping techniques in TBI patients	Evelyn Deutscher (Deakin University)/Paul Beech (Alfred hospital)
10:10-10:30am	Alterations in functional-structural coupling with training in brain-injured patients	Xiaoyun Liang (ACU)/Nick Parsons (Deakin University)
10:30-11:00am Morning tea		
Training-induced plasticity		
11:00-11:20am	Brain connectivity biomarkers of training-induced improvements in brain-injured patients: reality or pipe dream?	Karen Caeyenberghs (Deakin University)
11:20-11:40am	Multi-modal computerised training programs for TBI Rehabilitation: Preliminary longitudinal MRI results	Phoebe Imms/Adam Clemente (ACU)
11:40-12:00pm	Resting state functional connectivity changes in young cannabis users: findings from a longitudinal study and a CBD open label trial	Valentina Lorenzetti (ACU)
Longitudinal changes in structural MRI metrics		
12:00-12:20pm	Exploring different methods to model longitudinal structural MRI	Nandi Vijayakumar (Deakin University)
12:20-12:40pm	Modeling Longitudinal Changes in Regional Brain Volume with Tensor Based Morphometry	Emily Dennis (University of Utah)

12:40–1:00pm	TBM	Elisabeth Wilde (University of Utah)
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1:00-2:00pm Lunch

Developmental plasticity

2:00–2:20pm	Developmental trajectories of cortical thickness and structural connectivity in childhood and adolescence	Marc Seal (Murdoch)
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2:20–2:40pm	Multimodal structural neuroimaging markers of brain development and developmental disorders	Christian Hyde/Ian Fuesher/ (Deakin University)
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2:40–3:00pm	Longitudinal trajectories in ADHD	Tim Silk (Deakin University)
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3:00-3:30pm Afternoon tea

Novel tools and apps

3:30–3:50pm	An overview of a novel app 'DCaM' to track daily changes in cognition and emotional wellbeing	Alex Burmester (Deakin University)
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3:50–4:10pm	Tools for and interpretation of 3-tissue diffusion MRI analyses	Thijs D'Hollander (Florey Institute):
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4:10-5:00pm Group discussions

5:00pm-... drinks in the city