

2018 SINAPSE Annual Scientific Meeting

Monday 25 June 2018

RCSEd Quincentenary Building, Edinburgh

09.30	Registration and Coffee		
10.00	Welcome	Prof Edwin van Beek, University of Edinburgh	
	Session 1		
10.05	<i>10 Years of SINAPSE: The Beginning</i>	Prof Joanna Wardlaw, University of Edinburgh	
10.15	<i>Synthesis of LW223: A Novel Fluorine-Labelled Imaging Agent for the Translocator Protein (TSPO)</i>	Mr Tim Morgan, University of Glasgow	Proffered
10.25	<i>Distance-weighted fuzzy C-means for Automatic Lung Tumor Segmentation on PET Images</i>	Dr Surajit Ray, University of Glasgow	Proffered
10.35	<i>Imaging and Pulmonary Hypertension: Ready for prime time?</i>	Prof David Kiely, Sheffield Pulmonary Vascular Disease Unit	Keynote
11.20	Morning Tea Break		
	Session 2		
11.50	<i>Topological organisation of cortical thickness and surface area networks in AD and behavioural variant fronto-temporal dementia</i>	Dr Vesna Vuksanovic, University of Aberdeen	Proffered
12.00	<i>Multimodal retinal neurovascular imaging shows clinical utility in the personalised disease stratification of multiple sclerosis</i>	Dr James Cameron, University of Edinburgh	Proffered
12.10	<i>10 Years of SINAPSE: The Transition</i>	Prof Dave Wyper, University of Glasgow	
12.20	<i>Arterial Spin Labeling MRI – technical considerations and clinical implementation</i>	Prof Marion Smits, Erasmus University Medical Center	Keynote
13.05	Lunch including exhibition and networking		
	Session 3 [Parallel sessions]		
	TOPIC 1 – Preclinical Imaging	TOPIC 2 – Clinical Imaging	
13.50	Invited speaker: Dr Carmel Moran, U. Edinburgh	Invited speaker: Prof Keith Muir, U. Glasgow	
14.20	<i>Characterising the Effects of Combined Medetomidine and Isoflurane Anaesthesia on Neurovascular Coupling</i> – Mr Robert Morgan, U. Glasgow	<i>High-resolution MRI Imaging Of Bone-Muscle-Fat In Glucocorticoid Treated Boys With Duchenne Muscular Dystrophy</i> – Dr Shuko Joseph, U. Glasgow	
14.30	<i>Stacked In-plane Histology for Quantitative MRI Assessment: Application to An Infiltrative Brain Tumour Model</i> – Mr Haitham Al-Mubarak, U. Glasgow	<i>A comparison of cerebrovascular reactivity at 1.5 and 3T in cerebral small vessel disease patients</i> – Dr Michael Stringer, U. Edinburgh	
14.40	<i>A novel multi-transgenic vector for in vivo delivery of a radionuclide reporter gene to somatic cells</i> – Dr David Lewis, Beatson Institute for Cancer Research	<i>Estimating age related tissue changes from T1w MRI: impact of segmentation and quality control metrics</i> – Dr Cyril Pernet, U. Edinburgh	
14.50	<i>The use of Thiel-embalmed cadavers in endovascular medical device development</i> – Miss Claire Fitton, U. Dundee	<i>Fully Convolutional Network Ensembles for White Matter Hyperintensities Segmentation in MR Images</i> – Mr Hongwei Li, U. Dundee	
15.00	Afternoon Tea Break and poster session		
	Session 4		
16.00	<i>Perfusion as a marker of brain tumour infiltration into healthy brain tissue: a quantitative MRI evaluation</i>	Dr Antoine Vallatos, University of Edinburgh	Proffered
16.10	<i>Identifying the needle tip position with needle tip pressure using microultrasound imaging during regional anaesthesia</i>	Dr Anu Chandra, University of Dundee	Proffered
16.20	<i>Multi-centre standardization of preclinical PET/CT imaging</i>	Ms Wendy McDougald, University of Edinburgh	Proffered
16.30	<i>10 Years of SINAPSE: The Future</i>	Prof Alison Murray, University of Aberdeen	
16.40	Announcements and prizes		
16.50	Close		

Poster session (15.00-16.00)

Poster No.	Title	Presenting Author
P1	<i>Integrating Ultrasound Scanning into the Undergraduate Medical Curriculum</i>	Linda Provan
P2	<i>Developing a Methodology Protocol for Identifying the Superficial Peroneal Nerve in Living Models Sonographically and Formalin-Fixed Cadavers Morphologically: A Proof of Concept Study</i>	Katie Turnbull
P3	<i>Applications of Intraoperative Microultrasound to Improve Brain Tumour Resection</i>	Hannah Thomson
P4	<i>Early delayed radiation-induced brain injury in mice: preliminary findings using magnetic resonance imaging</i>	Abdulrahman Hussain T. Qaisi
P5	<i>Preclinical evaluation of PARP inhibitors in combination with radiotherapy in glioblastoma</i>	Maria Clara Liuzzi
P6	<i>New Selective PET Imaging Agents for S1P5 Receptors</i>	Tim Morgan
P7	<i>Synthesis of Tau Binding Ligands for PET Imaging</i>	Kotryna Baronaite
P8	<i>Preclinical assessment of 18 F-LW223; a novel TSPO radiotracer for the detection of inflammation using PET</i>	Mark G. MacAskill
P9	<i>Rapid and reproducible method for measurement of pharmacokinetics/ pharmacodynamics (PK/PD) of drugs to support quantification of Positron Emission Tomography (PET) receptor-occupancy data</i>	Agne Stadulyte
P10	<i>Experimental set-up and optimization of automatic blood sampling protocols to improve quantification of PET data at the Edinburgh Preclinical Imaging Facility</i>	Carlos José Alcaide-Corral
P11	<i>Comparison of renal split function using 1.5T DCE-MRI and Nuclear Medicine</i>	Sau Lee Chang
P12	<i>CT imaging of Functionalised Human Thiel embalmed cadavers – A pre-clinical tool</i>	Helen Donald-Simpson
P13	<i>Calcium scoring in lower extremity peripheral arterial disease and calcification impact on clinical outcomes</i>	Awad Alzahrani
P14	<i>Impact of non-cardiac findings in patients undergoing CT coronary angiography</i>	Michelle C. Williams
P15	<i>Evaluation of the Clinical Efficacy of Texture Analysis in Myocardial Quantification</i>	Ping Tie
P16	<i>High Resolution Magnetic Resonance Imaging of the Skin</i>	Stephen Gandy
P17	<i>The impact of altering MRI equipment and scanning parameters on phantom signal intensity ratio measurements – possible implications for interpreting gadolinium signal changes within the brain</i>	Laura Young
P18	<i>Comparison of Vessel Radius Depiction from Two Non-Contrast MRI Sequences</i>	Conor MacDonald
P19	<i>First clinical brain images with fast field-cycling magnetic resonance imaging</i>	Mary Joan MacLeod
P20	<i>Cohort Profile: STratifying Resilience And Depression Longitudinally (STRADL): A depression-focused investigation of Generation Scotland, using detailed clinical, cognitive, and neuroimaging assessments</i>	Tina Habota
P21	<i>The TriBEKa Imaging platform: an infrastructure to enable large-scale data-driven dementia prevention research from midlife across populations</i>	Samuel O. Danso

P22	<i>Multimodality Magnetic Resonance Imaging and novel image analysis methods in Future MS</i>	Maria del C. Valdés Hernández
P23	<i>Exploratory Analysis of the Role of Brain Iron Deposition and Microbleeds in Cognition after a Non-Disabling Ischaemic Stroke</i>	Maria del C. Valdés Hernández
P24	<i>The effect of changes in blood pressure and neuroimaging markers on cognition after stroke</i>	Annick Wyss
P25	<i>Aspirin use, brain MRI hyperintensities, hippocampal atrophy and cognitive function in older adults: a cohort study</i>	Mina Khezrian
P26	<i>Group differences in improvement, maintenance, or decline in Alzheimer's Disease Assessment Scale score based on longitudinal white matter hyperintensity lesion volume changes</i>	Jennifer Waymont
P27	<i>Birth weight, metabolic syndrome and their associations with information processing speed in mid-life in the Generation Scotland subsample of the Aberdeen Children of the 1950s</i>	Dorota Chapko
P28	<i>Cortical complexity predicts IQ</i>	Anca-Larisa Sandu
P29	<i>Clinical Validation of Automatic Quantitative Measurements of Perivascular Spaces in Older Age MRI Brain Data</i>	Lucia Ballerini
P30	<i>Automated laterality determination in Ultra-Widefield Scanning Laser Ophthalmoscopy</i>	Peter Wakeford
P31	<i>Volume estimation of hippocampus and amygdala using Freesurfer</i>	Naif Majrashi
P32	<i>Global and tract-based diffusion tensor correlates of executive function</i>	Shaun Stone
P33	<i>A neuroimaging model of Rheumatoid Arthritis related fatigue: A machine learning study</i>	Maria Goñi
P34	<i>Neural Similarity between Motor Imagery and concurrent Action Observation and Motor Imagery using Representational Similarity Analysis (RSA)</i>	Salim Al-Wasity
P35	<i>Single ROI-fMRI Neurofeedback Treatment of Phantom Limb Pain</i>	Salim Al-Wasity
P36	<i>Imaging subcortical pathways for extraocular muscle proprioception</i>	Alexandra Mitchell
P37	<i>Neuroimaging to identify the mechanisms underlying the qualitative impression of stereopsis</i>	Makoto Uji
P38	<i>"Me", "You" and "We" representations in joint action planning: Evidence from EEG studies</i>	Dimitrios Kourtis
P39	<i>Sex Differences in the Effects of Residual Cannabis use on Emotional Expression Processing</i>	Lucy J. Troup
P40	<i>Sex differences in dissociable prefrontal correlates of cognitive and affective theory of mind: An fNIRS study</i>	Marcin A. Radecki