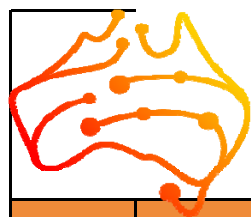




Brain & Brain PET 2023

International Symposium of Cerebral Blood Flow & Metabolism
 MONDAY 12 June 2023 - THURSDAY 15 June 2023
 Brisbane Convention & Exhibition Centre

As at 22 May			
Monday 12 June 2023			
EDUCATION DAY			
	Great Hall 1	M1	M2
09:00	<p>#1 Adding long-term functional testing to existing preclinical brain injury research-PART I</p> <p>Chair: Ann Stowe (US); Co-chair: Farida Sohrabji (USA)</p> <p>Speakers: Farida Sohrabji (US): Testing cognitive impairment and depressive-like behaviors in neural injury models Adam Bauer (US): Longitudinal functional neuroimaging in mouse models of brain injury: Methods and Considerations Katherine Cotter (US): Automated forelimb motor function without food deprivation Prasad Katakam (US): Two-photon microscopy as a tool to study cerebrovascular function in mice.</p>	<p>#3 The BBB: imaging, drug delivery and changes in aging and disease-PART I</p> <p>Chair: Lotta Oikari; Co-chair: Edith Hamel</p> <p>Speakers: Krzysztof Kucharz (DK): Opening the blood-brain barrier 'black box' with two-photon microscopy in vivo Joana Loureiro (PT): Nanoparticle-mediated drug delivery across the BBB Joseph Nicolazzo (AUS): Altered blood-brain barrier dynamics in Alzheimer's disease: impact on CNS drug exposure and pathogenesis Lotta Oikari (AUS): Using patient-derived blood-brain barrier cell models for disease and drug delivery modelling</p>	<p>#5 -PET-Pharmacokinetics-PART 1A</p> <p>Chair: Mark Lubberink; Co-chair: Julie Price</p> <p>Speakers: Paolo Zanotti Fregonara (US): PET data and pre-processing Julie Price (US): PET compartmental modeling Mark Lubberink (SE): Blood flow and glucose metabolism (SUV) Paolo Zanotti Fregonara (US): Receptor kinetics Julie Price (US): Reference tissue models Mark Lubberink (SE): Graphical analysis (linearisations) and SUVR</p>
10:30	Morning tea		
11:00	<p>#1 Adding long-term functional testing to existing preclinical brain injury research -PART II</p>	<p>#3 The BBB: imaging, drug delivery and changes in aging and disease-PART II</p>	<p>#5 -PET-Pharmacokinetics-PART 1B</p>
12:30	Lunch		
13:30	<p>#2 Big data analysis in Neuroscience-PART I</p> <p>Chair: Xiaoming Hu</p> <p>Speakers: Vilas Menon (US): Identifying shared and distinct signatures of neurodegenerative disease using single-cell techniques. Amanpreet Badhwar (CA): Large-scale cerebrovascular proteomics and the investigation of neurodegenerative diseases. Quan Nguyen (AUS): Applying Spatial Transcriptomics to Study Drug Effects on Cancer Tissues.</p>	<p>#4 How to communicate your research effectively-PART I</p> <p>Chairs: Lotta Oikari (Aus) & Edith Hamel (CA)</p> <p>Speakers: Lin Kooi Ong (AUS)- Social Media Tracy Farr (UK)- Networking and Collaborations April Hatcher (USA)- Engaging Presentations (presenting your science/lecturing) Rohan Walker (AUS)- Grant writing</p>	<p>#6 -PET-Pharmacokinetics-PART 2A</p> <p>Chair: Mark Lubberink; Co-chair: Julie Price</p> <p>Speakers: My Jonasson (SE): Dopamine transporter and blood flow Paolo Zanotti Fregonara (US): In-vivo pharmacology and steady-state methods Mark Lubberink (SE): Model selection and applications Julie Price (US): Amyloid and tau imaging Julie Price (US): The beautiful world and the real world</p>
15:00	Afternoon tea		
16:00	<p>#2 Big data analysis in Neuroscience- PART II</p>	<p>#4 How to communicate your research effectively-PART II</p>	<p>#6 -PET-Pharmacokinetics-PART 2B</p>
	Welcome Reception		



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Tuesday, 13 June 2023

Great Hall

M1 & M2

P1 & P2

P3 & P4

9:00

Opening remarks
 Including a traditional Welcome to Country from Nunukul Yuggera Aboriginal Dance Company
 and the Presidents lecture - Pat Lyden

10:30

Morning Tea

Imaging brain plasticity after stroke: from molecules to patients.

Cerebral ischemia: Neurovascular unit

Neurodegenerative diseases

BrainPET Glucose Metabolism and beyond: Translational advances for neurology

11:00

Investigating the Effect of Human Ischaemic Stroke on the mTOR Pathway in Cells of the Neurovascular Unit
Daniel BEARD

Selective loss of the mitochondrial protein prohibitin in neurons exacerbates ischemic brain injury and induces neurodegeneration in mice
Ping ZHOU

Assessing the relationship between hemodynamic alterations and [18F]FDG PET microparameters in brain gliomas
Giorgia BARON

11:15

Spreading depolarization impairs neurovascular coupling in ischemia/reperfusion in mice
Ferenc DR. BARI

iPSC-derived pericytes with APOE ε4/ε4 genotype are dysfunctional in vitro: implications for Alzheimer's Disease pathology
Natalie KING

Effective-metabolic coupling discriminates brain lesion localisation in patients with gliomas
Giorgia BARON

11:30

Imaging brain plasticity after stroke: from molecules to patients.

Organiser: Renée TURNER

Speakers: Byung Gon Kim (Korea), Montana Samantzis (Australia), Tracy Farr (UK), Lara Boyd (Canada)

Asymmetric Perivascular Space Distribution in Post Stroke Epilepsy
Benjamin SINCLAIR

Relative OGI based on calibrated fMRI as a complementary biomarker for AD diagnosis
Qikai QIN

Validation of within-individual Metabolic Connectivity from dynamic [18F]FDG PET data as an imaging biomarker in gliomas
Giulia VALLINI

11:45

RNF213 loss of function reshapes vascular transcriptome and splicing leading to disrupted angiogenesis and aggravated vascular inflammatory responses
Sherif RASHAD

Multimodal imaging reveals evidence of neurovascular uncoupling along the Alzheimer's disease trajectory and response to synapse-rescuing treatment
Francesca MANDINO

Asymmetries of synaptic density, blood flow and glucose metabolism in temporal lobe epilepsy
Tommaso VOLPI

12:00

Stimulus-evoked cerebrovascular responses fluctuate over minutes to hours
Deepa ISSAR

NX210c: a disease-modifying peptide for the treatment of Alzheimer's Disease
Sighild LEMARCHANT

Is ASL perfusion MRI A Potential Alternative to 18F-FDG PET for Lateralization of Mesial Temporal Lobe Epilepsy?
Mohammad-Reza NAZEM-ZADEH

12:15

Subarachnoid Haemorrhage Leads to Desialylation of Hippocampal Glycocalyx Followed by Complement System Activation.
Eugene GOLANOV

Targeted temperature management alters spatial characteristics of glucose metabolism and improves neurological function in rats after cardiac arrest
Xiaofeng JIA

12:30

Lunch

13:30

Peripheral contribution to acute and chronic cerebrovascular disease

History and latest innovations in kinetic models for PET

Neurovascular unit

Cerebral ischemia - Blood flow and metabolic regulation

13:30

Triculture-based BBB microphysiological system and its application in the study of BBB-glioblastoma interaction
Hong Nam KIM

Shear-Activated Nanotherapeutics to selectively increase cerebral collateral perfusion during ischaemic stroke- an update.
Magdalena LITMAN

13:45

Mild pericyte loss induces a fatigue-like phenotype in adult mice.
Jake CASHION

Metabolic dysfunction may underly secondary tissue injury after reperfusion in a rodent ischemic stroke model
Bart A.a. FRANX

14:00

Peripheral contribution to acute and chronic cerebrovascular disease

Organiser: Maria MORO

Speakers: Josef Anrather (US), Corinne Benakis (Germany), Monica Santisteban (US), Roberta Battistella (SE)

History and latest innovations in kinetic models for PET

Organiser: Jocelyn HOYE

Speakers: Jocelyn Hoye (US), Gaelle Emvalomenos (Australia), Connor Bevington (Canada), Evan Morris (US)

Estradiol, through the Estradiol Receptor β and GPER, Protects Females from Neurovascular Coupling Impairment Induced by Interleukin-17A
Jessica YOUWAKIM

The association of clinical outcome and cerebral autoregulation in acute stroke patients during early mobilization
Susanna TAGLIABUE

14:15

Astrocytic nitric oxide in response to cholinergic stimulation in mouse somatosensory cortex.
Benjamin LE GAC

Leptomeningeal collaterals regulate reperfusion in ischemic stroke
Nadine Felizitas BINDER

14:30

Dose-Dependent Modulation of Cerebral Perfusion and Oxygenation by Transcranial Alternating Current Stimulation in Awake and Anesthetized Mice
Denis BRAGIN

Cognitive severity markers of hemodynamic disruption in asymptomatic carotid artery stenosis/occlusion
Yorito HATTORI

14:45

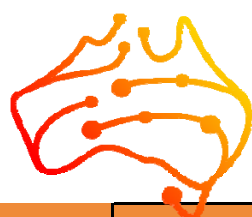
Relationships between HAemostatic function, Vessel health, and Neurovascular function: The HAVEN Study
Gabriella ROSSETTI

The Association between Blood Pressure and Endovascular Treatment Outcomes Differs by Baseline Perfusion and Reperfusion Status
Beom Joon KIM

Afternoon Tea Poster viewing session 1				
15:00				
16:00	Neurodegeneration and dementia - should the vasculature be our main priority?	Monocyte-derived macrophages in CNS aging and diseases	Brain Diseases	BrainPET Technical Advances and Modeling
16:00	Neurodegeneration and dementia - should the vasculature be our main priority? Organiser: Beth EYRE Speakers: Osman Shabir (UK), Susanne van Veluw (US), Costantino Iadecola (US), Audrey Low (UK)	Monocyte-derived macrophages in CNS aging and diseases Organiser: Xiaoming HU Speakers: Xiaoming Hu (US), Sunghee Cho (US), Hazel Quek (Australia), Wei Cai (China)	Altered brain metabolism in a mouse model of 16p11.2 deletion syndrome. Baptiste LACOSTE	Exceptional PET Images from the First Human Scan on the NeuroEXPLORER, a next-generation ultra-high performance brain PET imager Takuya TOYONAGA
16:15			Mapping interactions between parvalbumin inhibitory interneurons and excitatory neurons over the cortex in awake mice Xiaodan WANG	Influence of image reconstruction on quantitative brain 11C-PE2I positron emission tomography Elin LINDSTRÖM
16:30			Exploring the spatio-temporal and functional dynamics of the neurovascular coupling during cortical slow wave Sumana CHETIA	A MATLAB toolbox implementing a blood-free and automatic IDIF extraction algorithm for brain [18F]FDG PET Mattia DE FRANCISCI
16:45			COVID-19 Omicron variant spike protein infects primary cultures of endothelial and pericytes derived from Sprague-Dawley rats. Eugene PARK	Validation of cardiac image-derived input function for cerebral quantitative [18F]FDG functional PET imaging Murray REED
17:00			Numerical model for early warning of cerebrovascular vasospasm and delayed cerebral ischemia in SAH patients Vytautas PETKUS	Kinetic Modelling of 5-HT Release Following a Non-pharmacological Stimuli Using a Modified Reference Tissue Model Nina FULTZ
17:15			Cathepsin B Knockout Offers Significant Brain Protection in the Mouse Model of Stroke Bingren HU	Investigating single-subject dopamine synthesis capacity alterations in psychosis using normative modelling Alessio GIACOMEL

Early Career Networking Reception

Themes	Brain PET and imaging
	Cerebral Hemorrhage
	Cerebral Ischemia: Ischemic stroke
	CNS Trauma (TBI/SCI)
	Neurodegenerative diseases (AD/PD/HD/MS)
	Others
Vascular dementia/small vessel disease	



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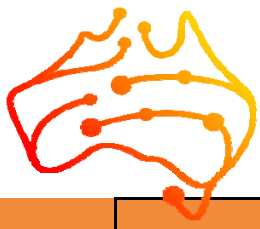
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As at 22 May				
Wednesday, 14 June 2023				
	Great Hall	M1 & M2	P1 & P2	P3 & P4
09:00	Neurotransmitter systems, injury and recovery after stroke	Microglia aging and reprogramming in CNS disease	Biomarker/omics	Vascular dementia
09:00				Induction of prominent subcortical white matter degeneration by renovascular hypertension Young Joo OH
09:15				Senile perivascular macrophage promotes microglial senescence through CD5L-containing large extracellular vesicles in CAA Mengyan HU
09:30	Neurotransmitter systems, injury and recovery after stroke Organiser: Michael O'SULLIVAN Speakers: Michael O'Sullivan (Australia), Nam-Jong Paik (Korea), Lena Oestreich (Australia), John Forsayeth (US)	Microglia aging and reprogramming in CNS disease Organiser: Jun CHEN Speakers: Jun Chen (US), Peiyong Li (China), Jana Vukovic (Australia), Kim Green (US)	Current global breakthroughs in research into the cerebrospinal/interstitial fluid systems Organiser: Kirsten COUPLAND Speakers: Steven Proulx (Switzerland), Lynne Bilston (Australia), Rongcai Jian (China), Nanna MacAulay (Denmark)	Astrocytic MEGF10/MERTK-mediated myelin phagocytosis differentially affects white matter injury in mice after chronic cerebral hypoperfusion Tongtong XU
09:45				Angiotensin II-mediated hippocampal hypoperfusion and vascular dysfunction impairs memory in aged spontaneously hypertensive rats Abbie JOHNSON
10:00				Cerebral vascular transcriptome profiling reveals intermittent fasting modulates chronic cerebral hypoperfusion-induced disease pathways Quynh Nhu DINH
10:15				Revascularization Improves Vascular Hemodynamics in Moyamoya Patients Moss ZHAO
10:30	Morning Tea			
11:00	Lifetime Achievement Award - Jean-Claude Baron			
11:30	ISCBFM General Assembly			
12:30	Lunch			
13:30	Circadian rhythms in cerebrovascular function and disease	Repair and Recovery	Blood flow and Metabolism	BrainPET Neurotransmitter receptors: Multi-modal approaches and interventions
13:30		Optical Imaging Measures Predict Functional Recovery after Stroke Ryan BOWEN	Differences in Total Cognition and Cerebrovascular Function in Female Breast Cancer Survivors and Cancer-Free Women Edward BLISS	Human glutamate NMDA receptor subunit GluN2B spatial coexpression to corresponding mRNA expression patterns Matej MURGAŠ
13:45		Gut microbial-produced metabolites reverse adverse post-stroke outcomes in mice via G-protein coupled receptors Alex PEH	NOTCH3 mutation causes glymphatic dysfunction and brain presenility in CADASIL Li CHUNYI	In vivo characterization of the antipsychotic aripiprazole as a "partial antagonist" by PET/fMRI Irena BASS, Christin Y. SANDER
14:00	Circadian rhythms in cerebrovascular function and disease Organiser: Ignacio LIZASOAIN Speakers: Baoqiang Li (China), Ignacio Lizasoain (Spain), Lauren Hablitz (US), Vanessa Granja (Germany)	Bone Marrow Mesenchymal Stem Cell Inhibits Enterobacterial Translocation after Ischemic Stroke via Liver-Gut Axis Xiaotao SU	A spatially varying multi-compartment model of the regulation of cerebral blood flow and volume Stephen PAYNE	Relationship between cerebral blood flow and dopamine transporter availability in healthy individuals My JONASSON
14:15		Agomelatine Promotes Differentiation of Oligodendrocyte Precursor Cells and Preserves White Matter Integrity after Cerebral Ischemia Shisi WANG	Correlations between decreased gray matter volume and changes in CBF in Cushing's disease: an arterial spin labeling and cross-sectional study Hongchi ZHANG	Psilocybin as a potential treatment for traumatic brain injury? A study investigating effects on 5HT2A receptor binding in rats Bianca JUPP
14:30		Effects of Human Amnion Epithelial Cells In Experimental Chronic Stroke Shenpeng ZHANG	Recovery of the vasculature and blood flow within the ischaemic core two weeks post-photothrombotic stroke Hannah COOMBE	Hallucinogenic 5-HT2A Receptor Agonism Alters Cortical Organization, Function, and Neurovascular Coupling Jonah PADAWER-CURRY
14:45		The Biological Basis of Cerebroprotection Patrick LYDEN	Association of RNF213 polymorphism and cortical hyperintensity sign on FLAIR images after revascularization surgery for moyamoya disease Haruto UCHINO	Reduced adenosine receptor availability and increased blood flow in the human brain during acute normobaric hypoxia: a multimodal PET-MRI study David ELMENHORST
				PET-based illustration of longitudinal changes of neuroinflammation under medical challenges: zonisamide Yasuomi OUCHI

15:00	Afternoon Tea Poster viewing session 2			
16:00	<i>Immune/inflammatory mechanisms in chronic stroke and cognitive decline</i>	<i>"Reverse translational" approaches in acute ischemic stroke</i>	<i>Epigenetics in brain damage</i>	<i>BrainPET Neurodegenerative disorders: Advanced methods and novel biomarkers</i>
16:00	<p>Immune/inflammatory mechanisms in chronic stroke and cognitive decline Organiser: Stuart ALLAN Speakers: Marion Buckwalter (US), Daniel Berchtold (Germany), Danielle Bechtel (US), Olivia Jones (UK)</p>	<p>Using Human Multi-Omic Approaches to Study Ischemic Brain Injury Mechanisms Organiser: Jin-Moo LEE Speakers:</p>	Arresting the Bad Seeds: HDAC3 Regulates Proliferation of Different Microglia Subsets after Ischemic Stroke Jiaying LI	Differential diagnosis of parkinsonism using PE2I-PET and machine learning Mark LUBBERINK
16:15			Enhancer RNAs and enhancer-centric gene regulatory networks in ischemic stroke Ashutosh DHARAP	Exercise and Brain Energetics in Parkinson's Disease Connor BEVINGTON
16:30			TET3-Mediated Epigenetic Regulation Restores Mitochondrial Function and Promotes Neuroprotection Following Cerebral Ischemia Kahlilia MORRIS-BLANCO	Striatal and extrastriatal monoaminergic disruption in progressive supranuclear palsy: a 18F-FP-DTBZ PET/CT study Chong DONG, Jing-Hong MA, Shu-Ying LIU
16:45			Plasma Exosomes from Remote Ischemic Post-Conditioned Rats Transfer a Specific Cluster of miRNAs and Attenuate Cerebral Ischemia-Reperfusion Injury Giuseppe PIGNATARO	Modelling Tau PET Radiotracer Pharmacokinetics and Applications in Tauopathies Callum TAYLOR
17:00			Transcriptional analysis of regions undergoing post-stroke plasticity after photothrombotic stroke in mice Dene BETZ	Further evaluation of PET/MRI [18F]MK-6240 delivery and ASL perfusion: bias with [15O]water and reliability Julie C. PRICE
17:15			Monocyte-derived macrophage in brain diseases Xiaoming HU, Sunghee CHO, Hazel QUEK, Wei CAI	Biomarker interplay between CSF p-tau and 18F-PI-2620 PET in Alzheimer's disease and 4R-tauopathy Roxane DILCHER

ISCBFM Networking Dinner

Themes	Brain PET and imaging
	Cerebral Hemorrhage
	Cerebral Ischemia: Ischemic stroke
	CNS Trauma (TBI/SCI)
	Neurodegenerative diseases (AD/PD/HD/MS)
	Others
	Vascular dementia/small vessel disease



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Thursday, 15 June 2023

	Great Hall	M1 & M2	P1 & P2	P3 & P4
09:00	<i>Cell-cell and cell-boundary communication during cerebral tissue responses to injury in the neurovascular unit</i>	<i>Opportunities and challenges in next generation brain PET imaging</i>	CNS trauma	Cerebral Hemorrhage
09:00	Cell-cell and cell-boundary communication during cerebral tissue responses to injury in the neurovascular unit Organiser: Gregory DEL ZOPPO Speakers: Matilde Balbi (Australia), Gregory del Zoppo (US), Jarek Aronowski (US), Andy Shih (US), Prof. Jennifer Gamble (Australia)	Opportunities and challenges in next generation brain PET imaging Organiser: Sharna JAMADAR Speakers: Gary Egan (Australia), N Jon Shah (Germany), Julie Price (US), Mattia Veronese (Italy)	In chronic traumatic encephalopathy (CTE) synapse loss (SV2A-PET) and altered functional connectivity (BOLD-fMRI) overlap in "spared" brain regions Marija MARKICEVIC	CCL5 mediated astrocyte-T cells interaction disrupts blood-brain barrier in mice after hemorrhagic stroke Shiyi ZHOU
09:15			Effect of body temperature on selective brain cooling in traumatic brain injuries Olivia TONG	A Stroke-induced Phenotype of Neuroinflammatory Astrocytes Disrupts Blood-Brain Barrier Integrity via Matrix Metalloproteinase-3 Chang LIU
09:30			PTEN contributes to neurological impairment after TBI through ferroptosis and blockage of axonal regeneration Ziyu SHI	Fibroblasts repair blood-brain barrier damage and hemorrhagic brain injury in a TIMP2-dependent manner Yao YAO
09:45			Small extracellular vesicles-COCKTAIL based therapy for traumatic brain injury Khan HAROON	Initiation and formation of the spontaneous intracerebral hemorrhage Radosław RZEPLIŃSKI
10:00			Noninvasive Vagus Nerve Stimulation Reduces Cortical Edema and Improves Outcomes in a Rat Model of Brain Injury. Afshin DIVANI	Timely assessment of cerebral blood flow autoregulation dynamics after subarachnoid haemorrhage Vytautas PETKUS
10:15			Regional differences in LPS-induced microglial programmed cell death following immature brain injury Tiantian HE	Characterising the immune-rich perihematoma microenvironment over time after ICH Mary NEWLAND
10:30	Morning Tea			
11:00	<i>Neils Lassen Award Presentations</i>			
	Developing a new small-molecule NLRP3 inflammasome inhibitor to treat intracerebral haemorrhage. Emily MCMAHON			
	Characterizing regional Cerebral-Blood-Flow changes after successful thrombectomy: A prospective longitudinal clinical neuroimaging study Felix NG			
	Modeling the relationship between PET measures of synaptic density from [11C]UCB-J and [18F]SynVesT-1 tracers Tommaso VOLPI			
12:30	Ultrastructural and Functional Characterization of Microthrombosis-Mediated BBB Disruption in the Traumatic Penumbra Using Ultrabright Nanocarriers Antonia WEHN			
	Lunch			

13:30	Neuroprotection	When new technologies meet cerebrovascular research	Inflammation & Comorbidities	BrainPET 5: Immune markers: from cells to enzymes
13:30	Serotonin receptor HTR2B regulates phagocytic function of brain infiltrated monocyte/macrophages in the neuroinflammation after brain injury Yueman ZHANG, Peiying LI	When new technologies meet cerebrovascular research Organiser: Mohamad EL AMKI Chair: Johannes Boltze (UK), Co-Chair: Mohamad El Amki (Switzerland), Speakers: Alan Urban (KU Leuven), Chaim Glueck (University of Zurich), Na Ji (Berkeley University), Martin Thunemann (Boston University).	ATF3 coordinated with lipid metabolism control a pro-inflammatory subpopulation of microglia function in brain injury Yan LI	Parametric imaging of neuroinflammation in multiple sclerosis with [11C]L-deprenyl-D2 and [11C]PK11195 PET Karolina HEDMAN
13:45	Melatonin Protects against Prolonged Cerebral Ischemia by Resolving Refractory Stress Granules in Endothelial Cells Yuxin LIU		The role of the VWF/ADAMTS13 axis in the outcome of ischaemic stroke after SARS-CoV2 infection Nadim LUKA	[11C]PS13 shows high specific and displaceable binding to COX-1 enzyme in the human brain Paolo ZANOTTI FREGONARA
14:00	Anakinra negatively affects thrombolysis treatment in ischemic stroke Ioana-Emilia MOSNEAG		Neutrophil-derived CAMP promotes cerebral angiogenesis after ischemic stroke Wanqin XIE	Neuroinflammation and blood-brain barrier breakdown in acute, clinical intracerebral haemorrhage Olivia JONES
14:15	Neuroprotection targeting ischemic penumbra by novel lipid mediators after experimental stroke Ludmila BELAYEV		Microglia Initiated Astrocyte-Mediated Ischemic Tolerance Toru TATEOKA	PET measurement of cyclooxygenase-2 (COX-2) with 11C-MC1in healthy human brain Paolo ZANOTTI FREGONARA
14:30	GFH312 attenuates ischemic neuronal death via inhibiting RIPK1-mediated apoptosis and necroptosis in mice Ze LIU		Assessment of prediabetes and chronic hyperuricemia on inflammation and motor recovery after ischemic stroke. Andrew CLARKSON	
14:45			Sex-based differences in B cell subsets & functional recovery after stroke Katie MALONE	
15:00	Afternoon Tea Poster viewing session 4			
16:00	Mechanisms of no-reflow in ischemic stroke, consequences for brain recovery	Biomarker/omics	Vascular dementia	Multimodal assessment of brain energy metabolism
16:00	Mechanisms of no-reflow in ischemic stroke, consequences for brain recovery Organiser: Brad SUTHERLAND Chair: Daniel Beard (Australia), Co-Chair: Mohamad El-Amki (Switzerland), Speaker: Felix Ng (Australia), Jeanne Droux (Switzerland), Brad Sutherland (Australia), Muge Yemisci Ozkan (Turkey)	Differences in the peripheral immune response after intracerebral hemorrhage and ischemic stroke are driven by diagnosis-specific hub genes. Paulina CARMONA-MORA	Apolipoprotein e4 impairs cerebrovascular regulation via perivascular macrophages and nox2-derived radicals Laibaik PARK	Multimodal assessment of brain energy metabolism Organiser: Andreas Hahn Planned speakers: Andreas Hahn (Australia), Manu Goyal (US), Tommaso Volpi (US), Sharna Jamadar (Australia)
16:15		Identification and functional prediction of fibrous and protoplasmic astrocytes after ischemic stroke in rats Qian SUO	Female Sex and Age Dependent Paradoxical Alterations of Mouse Brain Microvascular Bioenergetics Prasad KATAKAM	
16:30		Therapeutically Retrieved clots for an -Omic and Biochemical Understanding after ischaemic Stroke (THROMBUS) Study Rebecca HOOD	Neutrophil Extracellular Traps Induced by β -Amyloid Protein Damage Neurovascular Unit in Cerebral Amyloid Angiopathy Huipeng HUANG	
16:45		Automated detection of severe cerebral edema in cardiac arrest survivors Ona WU	Perivascular macrophage-derived ApoE4 aggravates neurovascular function and hypoperfusion-induced white matter damage Yorito HATTORI	
17:00		Diagnosis of mTBI using Molecular MRI Alexia KIRBY	Sexually dimorphic effects of chronic cerebral hypoperfusion in mice. Tarunpreet RAJPUT	
	Brain PET and imaging			
	Cerebral Hemorrhage			
	Cerebral Ischemia: Ischemic stroke			
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	Others			
	Vascular dementia/small vessel disease			