



Brain & Brain PET 2023

International Symposium of Cerebral Blood Flow & Metabolism

MONDAY 12 June 2023 - THURSDAY 15 June 2023

Brisbane Convention & Exhibition Centre

Poster Schedule - Tuesday 13 June

Paper Title	Display number #	Theme/Subtheme	Primary Presenter Full Name
Diesel exhaust particles influence in clot formation and lysis.	1	Cerebral Ischemia: Ischemic stroke (Other)	Anna Rosell
Optimal anti-hypertensive therapy in patients with severe carotid stenosis	2	Cerebral Ischemia: Ischemic stroke (Blood flow and metabolic regulation)	Kang-Ho Choi
Effects of transplantation of human skull-derived mesenchymal stem cells cultured in a simulated microgravity on a rat model of cerebral	3	Cerebral Ischemia: Ischemic stroke (Regeneration/plasticity/repair/functional recovery)	Masashi Kuwabara
Cerebral blood flow during brain cooling in a severe ischemic stroke porcine model	4	Cerebral Ischemia: Ischemic stroke (Neuroprotection)	Olivia Tong
Leptomeningeal neutrophils and IL-36γ in inflammation-sensitized pediatric stroke	5	Cerebral Ischemia: Ischemic stroke (Choroid Plexus/Meningeal Barriers/CSF)	Chia-Yi (Alex) Kuan
	6	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Fangfang Zhao
Potential role of RNF213 variant as autophagic flux dysregulator presenting endothelial impairment in Moyamoya disease	7	Cerebral Ischemia: Ischemic stroke (Cell Therapy)	Hee Sun Shin
Ezh2 knockdown reversed the post-ischemic promotion of neurogenesis in gerbil dentate gyrus	8	Cerebral Ischemia: Ischemic stroke (Regeneration/plasticity/repair/functional recovery)	Yoshihide Sehara
Longitudinal intravital imaging of photothrombotic cerebral microinfarction reveals a dynamic cellular-level reaction to glial scar	9	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Pilhan Kim
Human amnion epithelial cells reduce infarct growth following tissue plasminogen activator therapy in ischemic stroke	10	Cerebral Ischemia: Ischemic stroke (Cell Therapy)	Shenpeng R Zhang
The Role of Neuroinflammation in Delayed Neurodegeneration following Ischaemic Stroke	11	Cerebral Ischemia: Ischemic stroke (Cell death signaling/neurodegeneration)	Shannon Stuckey
Time of day of endovascular treatment modulates clinical outcome after stroke	12	Cerebral Ischemia: Ischemic stroke (Circadian cycle)	Vanessa Granja Burbano
Pupillary light reflexes as a biomarker for prediction of brain herniation	13	Cerebral Ischemia: Ischemic stroke (Biomarkers/omics)	So Young Park
Ly6C ⁺ myeloid cells regulate microglia phagocytosis via osteopontin-Integrin β5 axis	14	Cerebral Ischemia: Ischemic stroke (CNS and peripheral immunity/infection)	Jing Ye
Is dynamic cerebral autoregulation a spatially-varying phenomenon?	15	Cerebral Ischemia: Ischemic stroke (Blood flow and metabolic regulation)	Zheng Tong
Neutrophil Elastase as a predictive biomarker for post-stroke infection	16	Cerebral Ischemia: Ischemic stroke (Biomarkers/omics)	Ignacio Lizasoain
Focal ischemia causes heterokaryotic fusion of vav1+ cells, including microglia, and neurons.	17	Cerebral Ischemia: Ischemic stroke (CNS and peripheral immunity/infection)	Ted Weita Lai
Characterisation of the thrombin model of stroke, reperfusion and microvascular failure in rats	18	Cerebral Ischemia: Ischemic stroke (Blood flow and metabolic regulation)	Nadine Felizitas Binder
AAV-PHP.eB mediated bFGF gene therapy promotes neurogenesis and angiogenesis after ischemic stroke in mice	19	Cerebral Ischemia: Ischemic stroke (Regeneration/plasticity/repair/functional recovery)	Rubing Shi
Infarct size in the subacute phase of experimental focal ischemic stroke does not correspond with functional outcomes	20	Cerebral Ischemia: Ischemic stroke (Blood flow and metabolic regulation)	Eszter Farkas
Temporal and spatial remodelling of the endothelial glycocalyx following ischaemic stroke.	21	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Jill Merlini
Association of task-based functional MRI responses of comatose cardiac arrest patients with neurologic outcomes	22	Cerebral Ischemia: Global/cardiac arrest (Other)	Ona Wu
Optimizing Intraluminal Monofilament Sizes for Ischemic Stroke in SD Rats	23	Cerebral Ischemia: Ischemic stroke (Age/comorbidities/sex)	Wesley Chastain
Transcriptomic Analysis of Post-Stroke Mouse Brain: Effects of Treatment with Human Amnion Epithelial Cells or their Extracellular	24	Cerebral Ischemia: Ischemic stroke (Cell Therapy)	Hyun Ah Kim
A novel staged revascularization strategy for bilateral severe internal carotid artery stenosis at high risk for hyperperfusion syndrome	25	Cerebral Ischemia: Ischemic stroke (Other)	Takuma Wakai
The gliosis stiffness affects neural stem cell lineage choice via PIEZOs in ischemic stroke mice	26	Cerebral Ischemia: Ischemic stroke (Regeneration/plasticity/repair/functional recovery)	Shengju Wu
Incidence and characteristics of extremely advanced Moyamoya disease with Suzuki's angiographic stage 6: Single institute experience	27	Cerebral Ischemia: Ischemic stroke (Other)	Masaki Ito
Hemodynamics and infarct formation at the striatum and cerebral cortex in stroke model mice	28	Cerebral Ischemia: Ischemic stroke (Blood flow and metabolic regulation)	Miyuki Uekawa
Remote hippocampal cerebrovascular dysregulation after cortical photothrombotic stroke	29	Cerebral Ischemia: Ischemic stroke (Cell death signaling/neurodegeneration)	Lin Kooi Ong
Role of acid-sensing ion channel-1a (ASIC1a) in the cerebrovascular response to hypercapnia in newborn pigs	30	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Gábor Remzsó
Neuroprotective effects of a newly developed hemoglobin-based oxygen carrier (hemoglobin nanoparticle) on ischemia	31	Cerebral Ischemia: Ischemic stroke (Neuroprotection)	Ryota Tatezawa
Neuroprotection of statin and ezetimibe in ischemia-reperfusion stroke model	32	Cerebral Ischemia: Ischemic stroke (Neuroprotection)	Dong gi Seo
Bacterial translocation after experimental cerebral ischemia. Detection by mri, determination of its consequences on inflammation	33	Cerebral Ischemia: Ischemic stroke (Brain-gut axis/microbiome)	Maria Angeles Moeo

Suppression of Ptbp1 enhances hippocampal neurogenesis and restores cognitive function in mice with cerebral ischemia	34	Cerebral Ischemia: Ischemic stroke (Regeneration/plasticity/repair/functional recovery)	Yusuke Fukui
The assessment of neuroprotection by the kynurenic acid analogue SZR72 in a hypoxic-ischemic encephalopathy piglet model.	35	Cerebral Ischemia: Ischemic stroke (Neuroprotection)	Valéria Tóth-Szúki
Intermittent fasting promotes long-term white matter integrity by Foxk1 mediated glycolysis of CD4 ⁺ T cells and Th17/Treg balance post	36	Cerebral Ischemia: Ischemic stroke (Regeneration/plasticity/repair/functional recovery)	Chen Chen
Role of Endoglin in the Regulation of Organic Anion Transporting Polypeptide 1a4 at the Blood-Brain Barrier: Relevance to Treatment of Ischemic Stroke	37	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Bobby Betterton
Oatp-Mediated Delivery of Statins to the Brain: A Requirement for Neuroprotective Treatment of Ischemic Stroke in Males and Females	38	Cerebral Ischemia: Ischemic stroke (Neuroprotection)	Erica Iris Williams
Effect of Interleukin-18 Gene Deletion on Outcomes in Two Mouse Models of Stroke	39	Cerebral Ischemia: Ischemic stroke (Neuroprotection)	Mehdi Zia
Breaking down aged barriers: The impact of age and stroke on blood-brain barrier breakdown and functional outcome.	40	Cerebral Ischemia: Ischemic stroke (Age/comorbidities/sex)	Isabella Bilecki
Thymosin alpha 1 promotes neuron survival by enhancing mitophagy after AIS	41	Cerebral Ischemia: Ischemic stroke (Neuroprotection)	Xinmei Kang
Human Amnion Epithelial Cell Therapy Ameliorates Post-Stroke Cognitive Impairment	42	Cerebral Ischemia: Ischemic stroke (Regeneration/plasticity/repair/functional recovery)	David Wong Zhang
Nicotine treatment ameliorates blood-brain barrier damage after acute ischemic stroke by regulating endothelial scaffolding protein	43	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Xinchun Jin
Remote limb conditioning (RLC) promotes CD36-mediated efferocytosis in macrophages and stroke recovery	44	Cerebral Ischemia: Ischemic stroke (Ischemic conditioning/tolerance)	Hyunwoo Ju
Level-specific quantification of post-stroke corticospinal tract plasticity in the cervical spinal cord with a volumetric image analysis pipeline	45	Cerebral Ischemia: Ischemic stroke (Neuroprotection)	Katherine Poinatte
Corticospinal neurons form monosynaptic connections to ipsilesional spinal cord alpha motor neurons following focal cortical strokes in	46	Cerebral Ischemia: Ischemic stroke (Regeneration/plasticity/repair/functional recovery)	Matthew Kenwood
Chemical ischemia triggers the release of soluble PDGFR β from injured human brain pericytes in vitro	47	Cerebral Ischemia: Ischemic stroke (Biomarkers/omics)	Gary Morris
Drag Reducing Polymers Mitigate Sepsis-Induced Cerebral and Peripheral Microcirculatory Dysfunction	48	Cerebral Ischemia: Global/cardiac arrest (CNS and peripheral immunity/infection)	Denis Bragin
Acute ischemic stroke lesion identification using ensemble deep	49	Cerebral Ischemia: Ischemic stroke (Other)	Hyunjong Eom
The Role of Senescence Associated Secretory Phenotype (SASP) in Stroke Outcome of Aged Mice	50	Cerebral Ischemia: Ischemic stroke (Age/comorbidities/sex)	Gregory Bix
Clopidogrel inhibition of microglial chemotaxis impairs cognitive recovery post-stroke	51	Cerebral Ischemia: Ischemic stroke (Other)	Marina Paul
Relevance of peri-infarct depolarisation on intracranial pressure and cerebral blood flow after stroke in rats	52	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Kirsten Coupland
Hypoxia and ischemic stroke induce endothelial BKCa expression in cerebral arteries - a target for therapy?	53	Cerebral Ischemia: Ischemic stroke (Blood flow and metabolic regulation)	Victoria Hinkley
Idebenone restores normal cerebral blood flow and reduces brain damage after middle cerebral artery occlusion stroke in rats	54	Cerebral Ischemia: Ischemic stroke (Other)	Nicole Sumargo
Detrimental role of Arginase-1 in post-stroke motor recovery and inflammatory microenvironment	55	Cerebral Ischemia: Ischemic stroke (Regeneration/plasticity/repair/functional recovery)	Hyung Soon Kim
Temporal evolution of cerebral no-reflow after complete angiographic reperfusion by thrombectomy: A prospective longitudinal clinical imaging study	56	Cerebral Ischemia: Ischemic stroke (Blood flow and metabolic regulation)	Felix Ng
Separation and quantification of ATP and other molecules associated with PSP using newly-developed HILIC-MS/MS method.	57	Cerebral Ischemia: Ischemic stroke (Other)	Paulina Michór
MRI-derived reperfusion deficiencies and tissue outcomes are aggravated in hypertensive rats after rtPA-treated embolic stroke	58	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Bart A.A. Franx
Evaluating motor and cognitive recovery in aged post-stroke mice via novel reward without food deprivation	59	Cerebral Ischemia: Ischemic stroke (Age/comorbidities/sex)	Katherine Cotter
B cells and T cells exhibit cell-specific migration patterns into remote nuclei in the post-stroke brain	60	Cerebral Ischemia: Ischemic stroke (CNS and peripheral immunity/infection)	Pavel Yanev
Investigating the differential expression of glycogen metabolites in the Neurovascular Unit following ischemic-reperfusion injury.	61	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Allison Brookshier
Endothelial glycocalyx deglycosylation reprograms endothelial sphingolipid metabolism and modulates axonal outgrowth after ischemic stroke	62	Cerebral Ischemia: Ischemic stroke (Neurovascular unit/coupling/BBB)	Ruqi Li



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Paper Title	Display number #	Theme/Subtheme	Primary Presenter Full Name
Microvascular cerebral blood flow dynamics for intracranial pressure estimates: transcranial diffuse correlation spectroscopy	1	Others (Biomarkers/omics)	Susanna Tagliabue
Exploring the Efficacy of Alpha1-Antitrypsin in Protecting the Developing Brain against Hypoxic-Ischemic Injury	2	Others (Neuroprotection)	Changlian Zhu
Control of Neurovascular Coupling by ATP-Sensitive Potassium Channels	3	Others (Neurovascular unit/coupling/BBB)	Ryan Bowen
Identifying the mechanisms of intact and impaired dynamic cerebral autoregulation	4	Others (Blood flow and metabolic regulation)	Stephen Payne
In vivo Brain Pericytes Calcium Signaling during Vasomotion and Neurovascular coupling in Murine models	5	Others (Neurovascular unit/coupling/BBB)	Jessica Meza Resillas
Spatially varying multi-compartment model of blood flow and oxygen transport in the human brain	6	Others (Blood flow and metabolic regulation)	Stephen Payne
Cannabinoid receptor 1 gene (cnr1) supports a cerebrum-spanning network and functions.	7	Others (Other)	Hui Li
Portable, low-cost, fast transcranial cerebral blood flow/intracranial pressure meter	8	Others (Blood flow and metabolic regulation)	Sumana Chetia
Influence of Cerebral Perfusion Pressure on Neural Adaptation	9	Others (Blood flow and metabolic regulation)	Yufei Shan
Analysis of Vascular Perfusion Territory in Moyamoya Disease Before and After Revascularization Using Selective Intra-arterial Injection CTA	10	Others (Other)	Hideyuki Yoshioka
Parvalbumin interneuron activity drives fast inhibition-induced vasoconstriction followed by slow substance P-mediated vasodilation	11	Others (Neurovascular unit/coupling/BBB)	Tan Thanh Vo
The effect of pharmacological modulation of AQP4 on glymphatic transport and brain microstructure in normal rats	12	Others (Neuroprotection)	Alaa Alghanimy
The role of long-range neuromodulators in neurovascular coupling	13	Others (Neurovascular unit/coupling/BBB)	Cam Ha Tran
The multifaceted role of the lactate transporter MCT2 in maintaining and restoring brain homeostasis and function	14	Others (Blood flow and metabolic regulation)	Alexandra von Faber-Castell
Non-invasive real-time cerebral autoregulation monitoring technology for brain neuroprotection in cardiac surgery	15	Others (Neuroprotection)	Vilma Putnynaite
Pressure and flow in the cerebral vasculature change in a tightly coupled manner	16	Others (Blood flow and metabolic regulation)	Yuan Chung Chou
Bilateral cervical ICA multiple fusiform aneurysms treated with overlapped open-cell stents	17	Others (Other)	Yu Nomura
angiography	18	Others (Blood flow and metabolic regulation)	Mikołaj Sługocki
Hippocampi	19	Others (Biomarkers/omics)	Jacob Bunyamin
Methylenetetrahydrofolate reductase (MTHFR) knockout mice display immune compartment changes consistent with risk of severe SARS-CoV-2 infection	20	Others (CNS and peripheral immunity/infection)	Gregory Bix
Establishing feasibility for bedside neuromonitoring of pediatric patients on ECMO using high-density diffuse optical tomography	21	Others (Blood flow and metabolic regulation)	Sophia McMorrow
Brain pericytes in culture display diverse morphological and functional phenotypes	22	Others (Blood flow and metabolic regulation)	Lachlan Brown
Neuronal activation of NLRP3 inflammasome and downstream components persists 24 hours after multiple cortical spreading depolarizations	23	Others (Other)	Hulya Karatas
STING protein exists in cerebral and retinal microvessels	24	Others (Neurovascular unit/coupling/BBB)	Dilan Bozanoglu
Alterations of metabolic parameters and antioxidant enzymes in diabetic aging female rat brain: Neuroprotective role of Metformin	25	Others (Other)	Pardeep Kumar
Development of a 3D sheep neurosphere culture for the study of neurodevelopmental effects of prenatal blood flow alterations: a preliminary	26	Others (Tissue engineering/organoids)	Mercede Fuentes Amell
Quantitative characterization of the microglial response to chronic hypoxia in the mouse cortex	27	Others (CNS and peripheral immunity/infection)	Yuya Kudo
Optogenetic stimulation of potassium channels expressed on cortical neurons increases local blood flow in conscious mice	28	Others (Neurovascular unit/coupling/BBB)	Benjamin Holloway
Long COVID Unmasks Underlying Hypermobility Spectrum Disorders and Reveals A Path to Recovery	29	Others (CNS and peripheral immunity/infection)	Mei Yang
Dysfunction of vascular endothelial cells in cerebral amyloid angiopathy (CAA) exacerbates β amyloid protein ($A\beta$) deposition	30	Vascular dementia/small vessel disease (Neurovascular unit/coupling/BBB)	Tiemei Li
Novel miRNA targets and characterisation of optic nerve function in a mouse model of hypoperfusion.	31	Vascular dementia/small vessel disease (Biomarkers/omics)	Matthew Padgett
INTRANASAL TREATMENT OF TISSUE PLASMINOGEN ACTIVATOR IMPROVES NEUROVASCULAR AND COGNITIVE DYSFUNCTION IN AGED TG2576 MICE	32	Vascular dementia/small vessel disease (Blood flow and metabolic regulation)	Laibaik Park
Notch3 Cys456Arg knock-in mice display histopathologic features of the small vessel disease CADASIL	33	Vascular dementia/small vessel disease (Neurovascular unit/coupling/BBB)	SANG-HO CHOI
Assessment of BIANCA WMH quantification performance before and after lesion removal	34	Vascular dementia/small vessel disease (Other)	Kersten Villringer
OPTOMIST: Novel Optical Method to Induce Single Capillary Microstrokes	35	Vascular dementia/small vessel disease (Blood flow and metabolic regulation)	Jacqueline Condrau
Endothelial nitric oxide synthase deficiency elevates alpha5 integrin expression and neuroinflammation in a mouse model of Vascular Dementia.	36	Vascular dementia/small vessel disease (Cell death signaling/neurodegeneration)	Gregory Bix
Effect of Intermittent Fasting on Synaptic Dysfunction and Synaptic Loss in a Mouse Model of Vascular Dementia	37	Vascular dementia/small vessel disease (Other)	Nishat Tabassum
Meta-analysis of cognitive assessments used to detect deficits in the bilateral carotid artery stenosis mouse model of vascular cognitive impairment.	38	Vascular dementia/small vessel disease (Other)	Matthew Padgett
Cerebral oxygen metabolism in vascular dementia rat model assessed by magnetic resonance imaging	39	Vascular dementia/small vessel disease (Blood flow and metabolic regulation)	wei li
GABAergic system is vulnerable to amyloid pathology in aged Alzheimer's diseases model; neuroPET studies in APPswe/PS2	40	Neurodegenerative diseases (AD/PD/HD/MS) (BrainPET: Neuroreceptors)	Jae Yong Choi
Assessing the efficacy of sodium selenate as a disease-modifying treatment for Progressive Supranuclear Palsy	41	Neurodegenerative diseases (AD/PD/HD/MS) (Other)	Cassandra Marotta
The Impact of Multiple Sclerosis on Motor Speech-Related Functional Activation	42	Neurodegenerative diseases (AD/PD/HD/MS) (Other)	Katherine Kenyon
The B of the Neurovascular Bang: early, remote changes in large cerebral veins in response to spontaneous locomotion	43	Neurodegenerative diseases (AD/PD/HD/MS) (Neurovascular unit/coupling/BBB)	Beth Eyre



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NX210c drug candidate peptide strengthens the blood-brain barrier	44	Neurodegenerative diseases (AD/PD/HD/MS) (Neurovascular unit/coupling/BBB)	Sighild Lemarchant
Deep Learning-Based Model for Predicting Conversion of Mild Cognitive Impairment to Alzheimer's Disease	45	Neurodegenerative diseases (AD/PD/HD/MS) (BrainPET: Advanced methods and kinetic modeling)	Doo-Young Kim
NX210c: a promising drug candidate for neuroprotection in Parkinson's Disease	46	(Neuroprotection)	Sighild Lemarchant
Early changes in brain pericytes and blood flow in 5xFAD Alzheimer's Disease mice	47	Neurodegenerative diseases (AD/PD/HD/MS) (Neurovascular unit/coupling/BBB)	Shahin Shabanipour
Perivascular spaces in the cerebral white matter change dynamically with cognitive decline in Parkinson's disease	48	Neurodegenerative diseases (AD/PD/HD/MS) (Neurovascular unit/coupling/BBB)	Ashley Deane
The effect of pharmacological modulation of AQP4 on glymphatic transport and brain microstructure in normal rats	49	Neurodegenerative diseases (AD/PD/HD/MS) (Neuroprotection)	Alaa Alghanimy
Brain insulin signalling and Glut4 expression are altered in the chronic stage of the mouse pilocarpine model of epilepsy	50	Neurodegenerative diseases (AD/PD/HD/MS) (Other)	Weizhi Xu
Assessment of the impact for reduction of scan time of brain amyloid PET	51	Neurodegenerative diseases (AD/PD/HD/MS) (Other)	Phuong Trinh Thi Hong
Deep Brain Imaging of Vascular Dysfunction in Alzheimer's Disease	52	Neurodegenerative diseases (AD/PD/HD/MS) (Neurovascular unit/coupling/BBB)	Garrett Clemons
Macrophage Extracellular Traps Impair Blood Brain Barrier to Accelerate Inflammatory Demyelination in Multiple Sclerosis	53	Neurodegenerative diseases (AD/PD/HD/MS) (CNS and peripheral immunity/infection)	shishi shen
Role of wearable technology and Geo-fencing device for Huntington's disease patients in Jaipur city, India	54	Neurodegenerative diseases (AD/PD/HD/MS) (Biomarkers/omics)	Vikas Kumar
Exploring potential inflammation-related biomarkers in relation to TSPO PET in Alzheimer	55	Neurodegenerative diseases (AD/PD/HD/MS) (Biomarkers/omics)	Andrea L. Benedet
Alterations of brain neurotransmitters and metabolites in a rat model of Huntington's disease	56	Neurodegenerative diseases (AD/PD/HD/MS) (Regeneration/plasticity/repair/functional recovery)	Ankush Kumar



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Paper Title	Display number #	Theme/Subtheme	Primary Presenter Full Name
Impact of aging on systemic and cerebral vascular systems during head-up tilt test	1	Brain Development/Aging (Age/comorbidities/sex)	Da Young Kim
The brain function and structure of female 3xTg-AD mice changes as age increases	2	Brain Development/Aging (Age/comorbidities/sex)	Ziyi Wang
Dynamic change of hierarchical core voxels of functional brain network in aging	3	Brain Development/Aging (Age/comorbidities/sex)	Hyun Joo Kim
Metabolic brain networks and cognition: A study of older versus younger adults using continuous infusion functional Positron Emission Tomography	4	Brain Development/Aging (Age/comorbidities/sex)	Hamish Deery
Metabolomics and dried blood spots: A novel strategy for early autism diagnosis	5	Brain Development/Aging (Biomarkers/omics)	Bingbing Li
Osteopontin Isoforms as Novel Regulators of Myelination and Axonal Integrity	6	Brain Development/Aging (Other)	Xiaoyang Wang
Bayesian Workflow for Evaluation of Tau, Cortical Thickness, and Large-Scale Brain Networks Across the Alzheimer's Disease Spectrum	7	Brain Development/Aging (Other)	Jean-Paul Soucy
Tamoxifen improves the long term functional and neuropathological deficits after hippocampal silent infarct in male rats	8	Brain Development/Aging (Regeneration/plasticity/repair/functional recovery)	Nicole Jones
NX210c drug candidate peptide modulates brain metabolic activity in old rats	9	Brain PET and imaging (Age/comorbidities/sex)	Sighild Lemarchant
Combining TSPO PET and Magnetic Resonance Spectroscopy to measure neuroinflammation in a rat model of traumatic brain injury	10	Brain PET and imaging (Biomarkers/omics)	Mohit Javalgekar
Early-phase amyloid PET as a cerebral perfusion surrogate in cognitively impaired Parkinson's disease	11	Brain PET and imaging (Blood flow and metabolic regulation)	William Aye
Quantitative perfusion mapping by hypoxia-induced BOLD-MRI in mouse under volatile anesthetics	12	Brain PET and imaging (Blood flow and metabolic regulation)	THI THUY LE
Differences in cerebral oxidative stress between early Alzheimer's disease and healthy controls analyzed using multimodality images from PET/MRI	13	Brain PET and imaging (BrainPET: Advanced methods and kinetic modeling)	Hidehiko Okazawa
Metabolic connectivity changes following theta burst stimulation (TBS): a PET-FDG pilot study in healthy non human primates (NHPs)	14	Brain PET and imaging (BrainPET: Advanced methods and kinetic modeling)	Doris Doudet
Differential Effect of Global Signal Regression Between Awake and Anesthetized Conditions in Mice	15	Brain PET and imaging (BrainPET: Advanced methods and kinetic modeling)	Da Wang
Mapping 18F-MK-6420 tracer transport in tau PET using quantitative transport mapping network (QTMnet)	16	Brain PET and imaging (BrainPET: Advanced methods and kinetic modeling)	Qihao Zhang
Volume-of-interest analysis for FDG uptake in small brain nuclei using high-resolution digital PET	17	Brain PET and imaging (BrainPET: Advanced methods and kinetic modeling)	Masanobu Ibaraki
Increased cerebral blood flow and neuroinflammation post COVID-19	18	Brain PET and imaging (BrainPET: Advanced methods and kinetic modeling)	My Jonasson
Performance of two alternative implementations of the linear lp-ntPET model for classifying subtle neurotransmitter release	19	Brain PET and imaging (BrainPET: Advanced methods and kinetic modeling)	Gaëlle Emvalomenos
The effects of early life stress on neurotransmitter system related to excitation-inhibition balance and mood; a sex-specific evaluation	20	Brain PET and imaging (BrainPET: Neuroreceptors)	Se Jong Oh
Reduction in serotonin 1B receptor binding in the dorsal brain stem is related to response to SSRI for depression	21	Brain PET and imaging (BrainPET: Neuroreceptors)	Martin Gärde
Autoradiographic characterization of [18F]PSMA-1007 binding in rat brain sections	22	Brain PET and imaging (BrainPET: Neuroreceptors)	Majken Thomsen
PET-based illustration of longitudinal changes of neuroinflammation under medical challenges: zonisamide	23	Brain PET and imaging (BrainPET: Neuroreceptors)	Yasuomi Ouchi
First-in-human PET imaging biodistribution studies of methyl N4-(7-[18F]fluoro-9H-fluoren-2-yl)asparaginate tracer RP-115 in healthy volunteers.	24	Brain PET and imaging (BrainPET: New tracers and targets)	John Gerdes
Correlation of clinical profile of parkinsonism with molecular imaging (TRODAT and PET-CT Brain)	25	Brain PET and imaging (BrainPET: New tracers and targets)	sagar Iavania
PET imaging of astrogliosis following traumatic brain injury	26	Brain PET and imaging (BrainPET: New tracers and targets)	Janet Leung
Imaging in vivo histone deacetylase activity in rodent brain	27	Brain PET and imaging (BrainPET: New tracers and targets)	Majken Thomsen
Test-retest reliability of 11C-ER176 and investigation of diurnal effects across low-, mixed- and high-affinity binders	28	Brain PET and imaging (BrainPET: New tracers and targets)	Belen Pascual
A novel PET radiotracer for imaging reparative microglia	29	Brain PET and imaging (BrainPET: New tracers and targets)	Lucy Vivash
A widefield in vivo imaging system for two fluorescent probes and quantitative hemodynamics using a single CMOS detector	30	Brain PET and imaging (Neurovascular unit/coupling/BBB)	Patrick Doran
brain	31	Brain PET and imaging (Neurovascular unit/coupling/BBB)	Catherine Foster
A novel paramagnetic probe for in-vivo MRI imaging of cannabinoid-1 receptor in the mouse brain	32	Brain PET and imaging (Other)	琦 欧阳
Estimating cerebral mechanical properties non-invasively through the use of tissue pulsations in the human brain	33	Brain PET and imaging (Other)	Stephen Payne
Platform development of 3D-printed high resolution brain phantoms modeling gray matter with a safe and robust filling process	34	Brain PET and imaging (Other)	Takuya Toyonaga
¹⁸ F-FDG-PET hypometabolism as a predictor of favourable outcome in epilepsy surgery: systematic review and meta-analysis.	35	Brain PET and imaging (Other)	Merran Courtney
Initial study of an algorithm for estimating the presence of amyloid accumulation from ¹⁸ F-FDG PET images using machine learning.	36	Brain PET and imaging (Other)	Takahiro Yamada
Peripheral Blood Hub Gene Expression Shows Sex Differences in Human Primary Intracerebral Hemorrhage	37	Cerebral Hemorrhage (Biomarkers/omics)	Boryana Stamova
Usefulness of early CT perfusion status to predict prognosis in non-traumatic intracranial haemorrhage	38	Cerebral Hemorrhage (Blood flow and metabolic regulation)	Min Kim
Nimodipine reduces microvasospasms of pial and penetrating arterioles in the subacute phase after experimental subarachnoid hemorrhage	39	Cerebral Hemorrhage (Blood flow and metabolic regulation)	Julian Schwarting
Bacterial translocation after hemorrhagic stroke. Detection by MRI, effect of hematoma size and its inflammatory consequences.	40	Cerebral Hemorrhage (Brain-gut axis/microbiome)	IGNACIO LIZASOAIN
The effectiveness of multilineage-differentiating stress enduring cells for recovery of improving neurological deficits after intracerebral hemorrhage	41	Cerebral Hemorrhage (Cell Therapy)	Ryota Watanabe
Night photo-therapy of cerebral hemorrhages	42	Cerebral Hemorrhage (Neuroprotection)	Oxana Semyachkina-Glushkovskaya
Early and long-lasting white matter damage in the perforant pathway following subarachnoid hemorrhage in mice.	43	Cerebral Hemorrhage (Other)	Angelique Regnier-Golanov



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Microcirculation Biomarkers of Posttraumatic Cerebral Vasospasm and Cerebral Ischemia	44	CNS Trauma (TBI/SCI) (Biomarkers/omics)	Denis Bragin
Endocannabinoid System Potentiation Attenuates Cerebral Ischemia Early after Traumatic Brain Injury	45	CNS Trauma (TBI/SCI) (Blood flow and metabolic regulation)	Denis Bragin
Sildenafil aggravates traumatic brain injury-induced neuronal death through nitric oxide and zinc pathways	46	CNS Trauma (TBI/SCI) (Cell death signaling/neurodegeneration)	Bo Young Choi
Investigation of the effects of mesenchymal stem cell transplantation in a brain injury rat model using longitudinal electrophysiological evaluation	47	CNS Trauma (TBI/SCI) (Cell Therapy)	Yuyo Maeda
Development of novel mouse models of olfactory nerve injury for neuro-regeneration therapy with multilineage-differentiating stress enduring cells	48	CNS Trauma (TBI/SCI) (Cell Therapy)	Kota Ueno
Regulatory T cells are essential for functional recovery after Traumatic Brain Injury by regulating microglia/macrophage responses	49	CNS Trauma (TBI/SCI) (CNS and peripheral immunity/infection)	Fei Xu
L-theanine, an AMPA receptor inhibitor, ameliorates traumatic brain injury-induced hippocampal neuronal death in rats	50	CNS Trauma (TBI/SCI) (Neuroprotection)	Sang Won Suh
Elovanoids, novel lipid mediators, is neuroprotective in experimental traumatic brain injury	51	CNS Trauma (TBI/SCI) (Neuroprotection)	Ludmila Belayev
Primed astrocytes after systemic perinatal inflammation are associated with cerebral blood vessel protection after juvenile mouse model of concussion	52	CNS Trauma (TBI/SCI) (Neurovascular unit/coupling/BBB)	Jerome Badaut
"Penumbra"	53	CNS Trauma (TBI/SCI) (Other)	Denis Bragin
NX210c peptide promotes functional recovery and repair in a rat cervical clip-compression model of spinal cord injury	54	CNS Trauma (TBI/SCI) (Regeneration/plasticity/repair/functional recovery)	Sighild Lemarchant
Endocannabinoid-mediated rescue of somatosensory cortex activity, plasticity and related behaviors following an early life brain trauma.	55	CNS Trauma (TBI/SCI) (Regeneration/plasticity/repair/functional recovery)	Jerome Badaut