

12:40-12:55 David Roig-Carles (The Open University)

12:55-13:10

13:10-14:00

Lunch break

## 8<sup>TH</sup> ANNUAL UK & IRELAND EARLY CAREER BBB SYMPOSIUM

Establishing a lentiviral haematopoietic stem cell gene therapy for brain tumours using myeloid Cdc42-targets IQGAP1 and NWASP regulate cancer cell: brain endothelial cell interaction via B1 Junctional adhesion molecular C (JAM-C) bridles breast cancer cell adhesion to and transmigration across hCMEC/D3 cells mediate by silencing transcriptional regulation of integrin beta 3 via C-myc Development of new TNFR1-selective agonist TNF mutants to induce BBB permeabilisation at sites of brain metastases Session 2 12:00-12:05 Dr Joanna Pyczek (University of Exeter) *In vitro* model of the blood-brain barrier for studying brain tumour metastasis 12:05-12:20 Dr Chris Greene (Trinity College Dublin) Dynamic tight junction remodelling in epilepsy; the role of claudin-5 12:20-12:35 Anjana Ajikumar (University of Sheffield) Neutrophil-derived microvesicle- induced blood brain barrier dysfunction in the ageing brain 12:35-12:40 Chantelle Bowers (University College London) The neuroprotective potential of Simvastatin

James Howes The Revolve Microscope - Change the Way You View Science

Brain endothelial-derived exosomes induce blood-brain barrier dysfunction during neuroinflammation

**ECHO** 



14:00-14:30

14:30-15:30

15:30-16:00 16:00-16:30

16:30-17:00

17:00-18:30

18:30-18:40

18:40-20:00

Session 4

Session 3

SCIENTIFIC AGENDA

8<sup>TH</sup> ANNUAL UK & IRELAND EARLY CAREER BBB SYMPOSIUM Poster session/ Exhibition

Keynote speaker Prof. Elga de Vries, VU University Medical Center (VUmc) Amsterdam,

Molecular and ultrastructural characterization of the ageing blood-brain barrier in female mice

Developing an hiPSC-derived 3D in vitro model of the blood-brain barrier to study COL4A1/2

Proteomic Quantification of Human Blood-Brain Barrier Drug Transporters and Solute Carriers in

A role for Colony Stimulating Factor 1 Receptor Signalling in the generation of cerebrovascular and

Keynote speaker Dr. Eduard Urich, Roche Pharmaceutical Research and Early Development,

How does loss of cholinergic innervation affect the structure and function of the neurovascular unit?

Both Paracellular and Transcellular Leakage Pathways Are Operational at the Blood-Neural Barriers

Biphasic Blood Brain Barrier Permeability in a Mouse Model of Intracerebral Haemorrhage Offers a

A new model for progressive multiple sclerosis - treating B cell rich meningeal tertiary lymphoid

17:00-17:20 Dr Reiner Haseloff (Leibniz Research Institute of Molecular Pharmacology)

Modelling the Blood-Brain Barrier in vitro using four primary human cells types

Modifying Pentamidine Blood-Brain Barrier transport through Ion-Pair Formation

Novel Route for the Transport of Advanced Therapeutics into the Lesioned Brain

Dr Verena Heise Open and Reproducible Science for early career researchers

President of IBBS (International Brain Barriers Society)

14:30-14:45 Ester Pascual-Baixauli (The Open University)

14:50-15:05 Eduardo Frias-Anaya (The Open University)

15:05-15:10 Mary Goodwin (University of Cambridge)

15:10-15:25 Dr Zubida Al-Majdoub (University of Manchester)

Brain Shuttle Module Delivers Biologics Efficiently to the Brain

Crossing cellular barriers by a tricellulin-derived peptide

17:40-17:45 Jui-Hsien Chang (University College London)

18:00-18:15 Dr Zahraa Al-Ahmady (Nottingham Trent University)

17:20-17:25 Nicole Stone (University of Nottingham)

17:25-17:40 Shereen Nizari (The Open University)

17:45-18:00 Hao Wang (King's College London)

18:15-18:30 Jay Roodselaar (University of Oxford)

Prof. Daniel Anthony, Prof. Nacho Romero Closing remarks

structures with anti-CD20

Drinks reception/ Poster session

Effect of high fat diet on cerebrospinal fluid secretion in the rat 14:45-14:50 Madeeha H Sheikh (Queen Mary University of London) Impact of metabolic overload on the structural integrity of the

The neurovascular unit in health and disease

blood-brain-barrier

BBB pathology

cerebral small vessel disease

Tea & coffee break/ Exhibition

Healthy Individuals and Dementia Patients

Roche Innovation Center Basel, Switzerland

15:25-15:30 Conor Delaney (Trinity College Dublin)

13:30-14:00