



THE UNIVERSITY
of EDINBURGH



UK Dementia
Research Institute

10th UK & Ireland Early Career Blood-Brain Barrier Virtual Symposium
23rd November 2020

Organised by Early Career Researchers (ECRs) at the UK Dementia Research Institute – Edinburgh, the 2020 meeting of the UK & Ireland Early Career Blood-Brain Barrier (BBB) Society will take place on the 23rd of November.

Purpose: This symposium provides an opportunity for ECRs to present their research on the barriers of the CNS in the form of 10 on-line talks, in the hopes of fostering connections between BBB researchers.

Keynote Speaker: We are very excited to announce our keynote speaker for this year's meeting: Professor Britta Engelhardt (University of Bern).

Registration: Registration is free for all attendees! Register for on-line attendance [here](#).

Registration deadline: 22nd November 2020

Abstract submission: We welcome submissions for talk presentations.

If you would like to submit an abstract (word limit: 250 words) for consideration, please complete the abstract submission form [here](#).

Abstract submission deadline: 9 October 2020



Programme

9.30 – 9.40 am **Welcome and Introduction**
Dr Blanca Diaz-Castro and Dr Jill Fowler (University of Edinburgh)

Session 1: The BBB in health (Session Chair TBC)

9.40 – 10.00 am **Aikaterini Lalatsa (University of Portsmouth)**
“Preformulation studies of a stable PTEN-PDZ lipopeptide able to cross an in vitro blood-brain-barrier model as a potential therapy for Alzheimer’s disease”

10.00 – 10.20 am **Liza Malong (University College London)**
“Structure, function and regulation of the Blood Nerve Barrier”

10.20 – 10.40 am **Giulia Casal (University College London)**
“The regulation of the blood nerve barrier”

10.40 – 11.00 am **Frank Wessely (Cardiff University)**
“Enriching and studying endothelial cells of the human blood-brain barrier”

Break 20 min

Session 2: The BBB in disease (Session Chair TBC)

11.20 – 11.40 am **Maryam Obaid (University of Warwick)**
“Transferrin receptor as a target for drug delivery into the brain and the role of circadian clock”

11.40 – 12.00 pm **Leticia Rodrigues (Federal University of Rio Grande do Sul)**
“Methylglyoxal induces blood-brain barrier disruption and hippocampal Nfr2/HO-1 signaling impairment”

12.00 – 12.20 pm **Sevda Boyanova (King’s College London)**
“In silico, in vitro and in vivo approaches to study the interactions of amisulpride with transporters expressed at the blood-brain barrier. Relevance to Alzheimer’s disease”

Lunch 1 h

- 1.20 – 1.40 pm **Waseema Patel (University of Liverpool)**
“Probenecid increases the concentration of 7-chlorokynurenic acid derived from the prodrug 4-chlorokynurenine within the prefrontal cortex”
- 1.40 – 2.00 pm **Nivetha Krishna Moorthy (University of Stuttgart)**
“Low level endothelial TRAIL-receptor expression obstructs the CNS-delivery of Angiopep-2 functionalised TRAIL-receptor agonists for the treatment of Glioblastoma”
- 2.00 – 2.20 pm **Oliver Bracko (Cornell University)**
“Inhibition of peripheral VEGF signaling rapidly reduces leucocyte obstructions in brain capillaries and improves cortical blood flow in an Alzheimer’s disease mouse model”
- Break 30 min
- 2.50 – 3.50 pm **Keynote Speaker**
Professor Britta Engelhardt (University of Bern)
“The brain barriers maintain CNS immune privilege”
- 3.50 – 4.35 pm **Career panel discussion**
- 4.35 - 4.50 pm **Concluding remarks**