



**12th UK and Ireland
Early Career
BBB Symposium**



**Regent House Trinity College Dublin
27th October 2022**

Registration 9:30-10:30

Session 1 The Neurovascular Unit; Cellular and Molecular Components, and implications for drug delivery

10:30	Welcome	Sarah Doyle
10:35	The evolution of BBB culture models and the latest trends <i>Institute of Biophysics, Biological Research Centre, Szeged, Hungary</i>	Maria Deli
11:15	Building Walls: Engineering a novel in vitro model of the Blood Brain Barrier <i>University of Glasgow, UK</i>	Christina Schofield
11:35	With a Little Help from my Friends: Intercellular Circadian Regulation of Blood Brain Barrier Tightness <i>University of Warwick, UK</i>	Robert Dallman
11:55	Comparative analyses of gold nanorod uptake in mice brain after intranasal administration <i>King's College London, UK</i>	Shunping Han
12:15	Data Blitz 1	Gergo Porkolab, Vito Kontrimas, Jessica Bates

Lunch 12:30-13:30

Session 2 The many barriers of the central nervous system

13:30	Astrocytes' grasp on blood vessels <i>Dublin City University, Ireland</i>	Janosch Heller
14:10	The characterisation of the structure and regulation of the blood nerve barrier <i>University College London, UK</i>	Giulia Cascal
14:30	Evaluating the retinal neurovascular unit in the murine model of experimental Cerebral Malaria. <i>Queens University Belfast, Northern Ireland</i>	Kevin Harkin
14:50	Characterisation of three novel animal models of geographic atrophy <i>Trinity College Dublin, Ireland</i>	Natalie Hudson
15:10	Data Blitz 2	Owen Harrison, Avril Reddy, Joe Forth, Kieva Byrne, Colin Doherty, Jeff Henderson, Dina Abdullah



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Coffee Break 15:45-16:15

Session 3 The Blood CNS Barriers in Disease

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| 16:15 | Dysfunction of the neurovascular unit underpins diabetes induced blood-brain-barrier damage in db/db mice.
<i>Queens University Belfast, Northern Ireland</i> | Karis Little |
| 16:35 | Pericyte and astrocyte activation may be key mechanisms involved in blood-spinal cord-barrier breakdown in a high-fat fed rodent diabetic neuropathy model. <i>University of Nottingham, UK</i> | Lydia Hardowar |
| 16:55 | Discovery of a novel pathogenic de novo CLDN5 mutation associated with alternating hemiplegia of childhood
<i>Trinity College Dublin, Ireland</i> | Yosuke Hashimoto |
| 17:15 | Data Blitz 3 | Mara-Luciana Floare,
Natalija Aleksejenko,
Audrey Chagnot |
| 17:30 | Therapeutic interventions to repair diseased BBBs
<i>I2O, pRED, Roche, Basel</i> | Peter Westenskow |
| 18:10 | Closing remarks | Sarah Doyle &
David Dickens |

Kennedy's 18:30

