

Investigating the blood-brain barrier - physiology, pathology and applications

The BioPark Hertfordshire, Welwyn Garden City , AL7 3AX

17 July 2007

- 09:00 – 09:45 **Registration - Tea/Coffee**
- 09:45 – 10:00 **Introduction by the Chair:**
Dr. Charlotte Lawson, Royal Veterinary College, UK
- 10:00 – 10:30 **Lymphocyte-mediated endothelial cell signalling pathways modulate blood-brain barrier function**
Professor John Greenwood, UCL, UK
- 10:30 – 11:00 **Rho GTPases as regulators of endothelial cell function**
Professor Anne Ridley, King's College London, UK
- 11:00 – 11:30 **Morning Tea/Coffee and Poster Viewing**
- 11:30 – 12:00 **Molecular mechanisms of T-lymphocyte migration across the blood-brain barrier – *in vitro* and *in vivo* studies**
Dr Ruth Lyck, University of Berne, Switzerland
- 12:00 – 12:30 **Monocytes alter blood-brain barrier integrity via reactive oxygen species; implications for neuro-inflammation**
Dr Elga De Vries, VU Medical Center, Netherlands
- 12:30 – 13:00 **Group and speakers photo and then*Tour of the BioPark**
- 13:00 – 14:00 **Lunch and Poster Viewing**
- 14:00 – 14:30 **Determination of the phenotype of human brain endothelium by transcription factors**
Professor David Male, The Open University, UK
- 14:30 – 15:00 **Persistent Endothelial Abnormality and Leak at the Blood-Brain Barrier in Multiple Sclerosis,**
Dr John Kirk, Queen's University Belfast, Ireland
- 15:00 – 15:30 **Afternoon Tea/Coffee and Last Poster Viewing**
- 15:30 – 16:00 **Investigating the utility of momentum-space descriptors for predicting blood-brain barrier penetration**
Dr David Cooper, University of Liverpool, UK
- 16:00 – 16:20 **Use of a parallel plate flow chamber to investigate sICAM-1 signalling in endothelial cells**
Sabine Wolf, Royal Veterinary College, UK
- 16:20- 16:40 **Chairman's summing up & close.**