Trauma and Blast Inflammation

27 March 2014

Postgraduate Centre
Queen Elizabeth Hospital Birmingham
Birmingham, UK

09:30 – 10:00 Registration and Coffee

10:00 – 11:40 Platelets and Inflammation
Chair: Dr Paul Harrison

10:00: Platelets as central mediators of systemic inflammatory responses
Dr Alex Brill, University of Birmingham (UoB), UK

10:30: Effect of tranexamic acid on mortality in patients with traumatic bleeding
Professor (Prof.) Ian Roberts, London School of Hygiene & Tropical Medicine, UK

11:00: Platelets and microvesicles in trauma/burns
Dr Paul Harrison, UoB, UK

11:30: Histones activate platelets through a Src and Syk dependent mechanism
Samantha Montague, NIHR Surgical Reconstruction and Microbiology Research Centre, UoB, UK

11:45 – 12:00 Coffee

12:00 – 13:00 Sterile Inflammation
Chair: Prof. Janet Lord

12:00: Trauma alarmins as activators of damage-induced inflammation
Prof. Karim Brohi, Blizard Institute, Barts & the London School of Medicine & Dentistry, London, UK

12:30: Circulating mitochondrial DAMPs cause infection after injury
Prof. Carl Hauser, Beth Israel Deaconess Medical Center, Boston, USA
13:00 – 14:00: **Lunch and Posters**

14:00 – 15:15: **Brain Trauma Inflammation**
Chair: Mr Tony Belli

14:00: **Inflammation and neurodegeneration after traumatic brain injury**
Prof. David Sharp, Imperial College, London, UK

14:30: **CNS sterile injury: just another wound healing?**
Prof. Michal Schwartz, Weizmann Institute of Science, Israel

15:00: **Fighting inflammation in the brain - transplantation of mesenchymal stem cells**
Dr Alexandra Stolzing, Loughborough University, UK

15:15 – 15:30: **Tea**

15:30 – 17:30: **Blast Lung Injury**
Chair: Prof. Sara Rankin

15:30: **Blast injury: clinical issues and research questions**
Col Peter Mahoney, Royal Centre for Defence Medicine, UK

16:00: **Models of blast injury**
Dr Emrys Kirkman, Defence Sciences & Technology Laboratory, UK

16:30: **Experimental platforms for studying blast damage in respiratory tissues**
Dr Katherine Brown, University of Cambridge, UK

16:45: **Establishing an experimental system to investigate indirect mechanisms of pulmonary inflammation in blast trauma: a rat hindlimb model of primary blast injury**
Ashton Barnett-Vanes, Royal British Legion Centre for Blast Injury Studies / National Heart and Lung Institute Imperial College London, UK

17:00: **Acute systemic inflammation initiated by trauma or blast injury is accompanied by occurrence of different neutrophil phenotypes in peripheral blood**
Professor Leo Koenderman, University Medical Centre Utrecht, Holland

17:30 – 17:45: **Closing Remarks**

http://www.srmrc.nihr.ac.uk

http://www3.imperial.ac.uk/blastinjurystudies