

Every cell is an immune cell: early drivers of immune responses

14 June 2024

Holywell Park Conference Centre
Loughborough, UK

10:00 Welcome

Session 1: Epithelial and endothelial immunity in health and cancer

Chairs: Professor Lucy Fairclough, University of Nottingham, UK and Dr Scott Davies,
University of Birmingham, UK

10:05 **Salmonella camping out: is intracellular invasion necessary for bacterial cancer therapy?**

Invited speaker: Dr Kendle Maslowski, CRUK Scotland, UK

10:35 **Activated hepatic fibroblasts promote the retention and functional impairment of tissue-resident CD8+T-cells in the human liver**

Selected short talk: Dr George Finney, University College London, UK

10:45 **Pulsatile activation of CAR-T cells enhances IL-9 release independent of exposure to Th9 polarizing cytokines**

Selected short talk: George Smith, University of Warwick, UK

10:55 **Exploring the role of liver endothelium in regulating the immune microenvironment of hepatic senescence**

Invited speaker: Professor Shishir Shetty, University of Birmingham, UK

11:15 Refreshment break

Session 2: Mucosal and barrier immunity

Chairs: Dr Adam Wright, University of Leicester, UK and Dr Naomi Martin,
University of Nottingham, UK

11:50 **Enteric glial cells: from neurogenic past to immunoregulatory present**

Invited speaker: Dr Vassilis Pachnis, Francis Crick Institute, UK

12:20 **Intestinal helminth and latent tuberculosis co-infection drives cytotoxic effector V δ 1+ T cells with shared T cell receptor repertoires**
Selected short talk: Dr Daniel Arsovski, University of Warwick, UK

12:30 **Spatio-temporal analysis of Trypanosoma cruzi infection and host response dynamics in experimental models of digestive Chagas disease treatment**
Selected short talk: Dr Michael Lewis, University of Warwick, UK

12:40 **A 3D in vitro human airway epithelium model: the influence of real-life exposure levels of enzymes on the epithelial barrier**
Invited speaker: Dr Georgina Hopkins, University of Nottingham, UK

13:00 **BD FACSDiscover™ S8 Cell Sorter - See what you sort, sort what you see**
Sponsor talk: Morgan Blaylock, BD Biosciences, UK

13:15 Lunch, posters and meet the exhibitors

Session 3: Microbial interactions with unconventional immune cells

Chairs: Dr Ewan Ross, Aston University, UK and Dr Martin Davey, University of Warwick, UK

14:30 **Activation of oral immune responses by the fungal peptide toxin candidalysin**
Invited speaker: Professor Julian Naglik, King's College London, UK

15:00 **Don't forget about platelets! How antibodies can drive platelet responses to Salmonella**
Selected short talk: Dr Rachel Lamerton, University of Birmingham, UK

15:10 **Alveolar epithelial cells internalise and clear Aspergillus fumigatus via Surfactant Protein D opsonisation**
Selected short talk: Margherita Bertuzzi, University of Manchester, UK

15:20 **Platelets beyond haemostasis: immunomodulatory functions in sterile inflammation and infection**
Invited speaker: Dr Julie Rayes, University of Birmingham, UK

15:45 Closing remarks and prizes

16:00 Networking reception

17:00 Close

Poster presentations

P.01 Effect of GM-CSF on the immune response of human monocytes against *C. albicans*

Khawalah Abid Munshi, The University of Nottingham, UK

P.02 A novel *Aspergillus fumigatus* dual-reporter strain to investigate the transcriptional signatures driving effective fungal clearance by alveolar epithelial cells

Patrick J Dancer, University of Manchester, UK

P.03 Lag3 and PD-L1 cumulatively govern CD4+ T cell activation during checkpoint immunotherapy

Lozan Sheriff, University of Birmingham, UK

P.04 Characterizing the expression of chemokine receptors in CD4+CD28null T cells from patients with inflammatory bowel disease

DR Lezama, University of Birmingham, UK

P.05 Does GDF11 affect the immunomodulatory properties of older and younger donor human bone marrow mesenchymal stromal cells?

Jaspreet Kaur Bansal, Aston University, UK

P.06 Contribution of CPA-LPS to the recognition of *Pseudomonas aeruginosa* (PA) by human dendritic cells

Nusrat Abedin, University of Nottingham, UK

P.07 Optimising the Use of Degradable Microcarriers in Stirred Tank Bioreactors for the Production of Immunomodulatory hMSCs

Jennifer Willis, Aston University, UK

P.08 Regulation of CD4+ T cell IL10 transcription and TCR signal strength in tolerance and cancer

David A.J. Lecky, University of Birmingham, UK

P.09 Inflammatory bowel disease remodels circulating and tissue-resident populations of $\gamma\delta$ T cells

Priyanka Chevour, The University of Warwick, UK

P.10 Nicotinamide Riboside Kinase 1 augments cytoplasmic NAD/H upon CD4+ T cell activation, controlling NADP/H synthesis, reactive oxygen species abundance, inflammatory function and survival

Victoria Stavrou, University of Birmingham, UK

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