

## Conference Programme The Edge, University of Sheffield

### Wednesday 27 July 2016

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10.00-11.30 Registration  
11.30-11.40 Introduction

#### Session 1

11.40-12.15 **Jay Kolls** (University of Pittsburgh)  
IL21R and fungal infection  
12.15-12.30 **Sara Gago** (University of Manchester)  
Understanding genetic susceptibility to allergic bronchopulmonary aspergillosis (ABPA)  
12.30-13.05 **Henk Haagsman** (Utrecht University)  
First encounters of pathogens with the host: recognition and killing  
13.05-14.00 Lunch & poster viewing

#### Session 2

14.00-14.35 **Ralph Tripp** (University of Georgia)  
Antiviral Host Genes and MicroRNAs  
14.35-14.50 **Grace Cooper** (University of Southampton)  
Viral infection of macrophages: interactions with natural killer (NK) cells  
15.25-15.50. Tea Break

#### Session 3

15.50-16.25 **Andres Floto** (University of Cambridge)  
Genetic and genomic analysis of non-tuberculosis mycobacteria  
16.25-16.40 **Stephen Taylor** (Public Health England, Porton Down)  
Complement activation by *Mycobacterium tuberculosis* is phenotype dependent  
16.40-17.15 **Jua Iwasaki** (Imperial College London)  
The infection and immunity immunophenotyping (3I) consortium  
17.15-19.00 Poster session  
19.00 BBQ

### Thursday 28 July 2016

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#### Session 4

09.00-09.35 **Beckie Ingram** (Queen's University Belfast)  
Innate immunological memory that protects against bacterial infection.  
09.35-09.50 **Jonathan Baker (Imperial College London)**  
Oxidative stress dependent microrna-34a activation via pi3k $\alpha$  reduces the expression of sirtuin-1 and sirtuin-6 in airway epithelial cells  
09.50-10.05 **Kylie Belchamber (Imperial College London)**  
COPD macrophages display altered scavenger receptor expression after bacterial phagocytosis  
10.05-10.40 **Tracy Hussell** (University of Manchester)  
Pathogenic airway macrophage adaptation in the inflammation trained lung  
10-40 -11.10 Coffee

#### Session 5

11.10-11.45 **Jerry Brown** (University College London)  
Immune interactions with *Streptococcus pneumoniae*  
11.45-12.00 **Emma Connolly** (University of Manchester)  
GFR $\alpha$ 2 expressing airway macrophages: a novel role for neurotrophic factors?  
12.00-12.35 **Anne Tunbridge** (Sheffield Teaching Hospitals)  
Outbreak! What's next?  
12.35-14.00 Lunch & poster viewing session

## Session 6

- 14.00-14.35 **Stephen Holgate** (University of Southampton)  
The role of the epithelium in orchestrating the pathobiology of inflammation and remodelling in asthma
- 14.35-14.50 **Angela Essex-Lopresti (DSTL, Porton Down)**  
Identifying common pulmonary murine host responses to highly virulent gram-negative bacteria
- 14.50-15.25 **Simon Foster** (University of Sheffield)  
*Staphylococcus aureus* infection dynamics
- 15.35-16.00 Tea

## Student Investigator Award Presentations

- 16.00-16.15 **Shameem Ladak** (University of Newcastle)  
miRNA-200b/c inhibits epithelial-mesenchymal transition in TGF- $\beta$ 1 induced human bronchial epithelial cells
- 16.15-16.30 **Grace Manley** (University of Sheffield)  
The role of phosphatases in respiratory viral infection
- 16.30-16.45 **Liza Selley** (Imperial College London)  
Brake dust toxicity in human macrophages: evidence of phenotypic and functional dysregulation
- 16.45-17.00 **Jessica Tilman** (Imperial College London)  
Defective phagocytosis in COPD human lung tissue macrophages cannot be manipulated by growth factors
- 17.00-17.15 **Jake Mills** (University of Sheffield)  
Investigating the role of tenascin-c in rhinovirus-induced exacerbations of asthma
- 17.15-17.30 **Joshua Wallington** (University of Southampton)  
Cytotoxic responses of mucosal-associated invariant T cells to NTHi infection: implications for COPD
- 17.30-18.30 AGM
- 19:30 Conference dinner – Cutlers' Hall

## Friday 28 July 2016

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### Session 7

- 09.30-10.05 **Robert Snelgrove** (Imperial College London)  
The Janus enzyme leukotriene A4 hydrolase displays opposing roles in regulating neutrophilic inflammation in the lung
- 10.05-10.20 **Bettina C Schock** (Queen's University Belfast)  
Dreaming about inflammation
- 10.20-10.35 **James Stewart** (University of Liverpool)  
BPIFA1/SPLUNC1 restricts influenza a virus infection in the by influencing the adaptive immune response
- 10.35-11.10 **Wendy Barclay** (Imperial College London)  
Why do some influenza viruses cause more severe disease than others?
- 11.10 -11.30 Coffee

### Session 8

- 11.30-11.45 **Simon Carlile** (Queen's University Belfast)  
Investigating the protective effect OF Hc-CATH in a model of acute-lung inflammation
- 11.45-12.00 **Elizabeth Marsh** (University of Sheffield)  
The role of pellino-1 in the host response to viral stimuli in airway epithelial cells
- 12.00-12.35 **Gary McLean** (London Metropolitan University)  
Developing a vaccine for human rhinoviruses
- 12.35-13.30 Lunch

### Funding Workshop

- 13.45-13.50 **Noel Snell** - Introduction
- 13.50-14.05 **Stephen Holgate** (Southampton University)  
The outlook for funding - The Presidents' perspective,
- 14.04-14.20 **Stephen Meader** (MRC)  
MRC funding pathways
- 14.20-14.35 **Ian Jarrold** (British Lung Foundation),  
BLF funding mechanisms
- 14.35-14.50 **Graham Hughes** (University of Sheffield)  
EU funding pathways (post-Brexit)
- 14.50-15.05 **Chris Scotton** (University of Exeter)  
A Fellows' perspective on funding pathways
- 15.05-15.45 Informal panel discussion
- 15.45 Summary and departure