

Infection and Immunity annual meeting 2021

Thursday 9th December

9.50am Welcome and Introduction from Division of Infection and Immunity
Professor Donald Fraser
Director of Division of Infection and Immunity

Session 1: Inflammation

Chairs: Dr. Ruth Jones and Dr. Jason Twohig

10.00am **Keynote Speaker: Dr. Anne-Catherine Raby**
Modulation of TLR activity in kidney disease-related pathologies

Short talks from selected abstracts

10.45am Dr. Kathy Triantafilou
NLRP6 and Caspase 5 regulate non-canonical inflammasome activation triggered by the complement membrane attack complex in human osteoarthritis

11.00am Miss Gisela Jimenez Duran
Sublytic membrane attack complex drives glycolysis and mitochondrial dysfunction with inflammatory consequences in human monocyte-derived macrophages

11.15am Miss Morgane Mazzarino
Investigation of the role of endogenous TLRs in the increased risk of CVD in CKD patients

11.30am Dr. Rabaa Takala
Anti-inflammatory and Immuno-metabolic effects of Pinolenic Acid in Rheumatoid Arthritis

11.45am Dr. Magdalena Czubala
How to get animals and tissues for free – 3Rs blackboard

11.50am Lunch Break

12.15pm Poster P1 to P11 and sponsor stand viewing

Session 2: Infection

Chairs: Dr. Sandra Dimonte and Dr. Kirsten Bentley

Short talks from selected abstracts

1.15pm Dr. Mathew Clement
T-Bet acts during chronic cytomegalovirus infection to promote the development of IL-10-secreting CD4⁺ T-cells that facilitate virus persistence via co-expression of arginase-1

- 1.30pm Dr. Luned Badder
Delivery of suicide therapies using a precision virotherapy; novel approaches for pancreatic cancer
- 1.45pm Dr. Mark Toleman
E. coli sepsis rates in the UK are directly related to very high community carriage rates of a small number of highly pathogenic strains
- 2.00pm Dr. Brad Spiller
Environmental Surveillance of ESBL and Carbapenemase-Producing Gram-Negative Bacteria in a Ghanaian Tertiary Hospital
- 2.15pm **Keynote Speaker: Dr. James McLaren**
T cell receptor-driven immune modulation by bacterial superantigens
- 3.00pm End of the first day

Friday 10th December

Session 3: Immunology

Chairs: Dr. Magdalena Czubala and Dr. Bruce MacLachlan

10.00am **Keynote Speaker: Dr. Pierre Rizkallah**
Molecular Level Understanding of The Immune Response to COVID19 and the CHADOX Vaccine

Short talks from selected abstracts

10.45am Dr. Danijela Tatovic
Single cell gene expression and TCR repertoire analysis in human skin and skin draining lymph nodes following intradermal injection of GAD-alum reveals recruitment of antigen specific T cells

11.00am Miss Eleanor Pring
A novel NK cell expressed gene, Synaptotagmin-like 3, is responsible for optimal NK cell cytotoxic control of acute MCMV infection

11.15am Dr. Sarah Hulin-Curtis
Bespoke alteration of HA epitope in influenza virus reduces weight loss and mortality in mice after primary infection and heterotypic challenge

11.30am Dr. Van Dien Nguyen
Characterization of Complement C3 in Fatty Liver

11.45am Lunch Break

12.15pm Poster P12 to P22 and sponsor stand viewing

Session 4: COVID and respiratory viruses

Chairs: Dr. Zack Saud and Dr. Carly Bliss

Short talks from selected abstracts

1.15pm Miss Alicia Teijeira Crespo
AZD-122/ChAdOx1 structure provides mechanistic insights into potential interactions mediating Vaccine Induced Immune Thrombotic Thrombocytopenia (VITT)

1.30pm Dr. Roxanne Cooksey
Lower Incidence of COVID-19 but Higher Mortality in Patients with Inflammatory Arthritis Compared to Controls in Wales, United Kingdom: A Population Epidemiological Study

1.45pm Dr. Martha Triantafilou
STING is essential for Human rhinovirus replication by triggering biogenesis of PI4P lipid enriched replication platforms and facilitating viral transmission via autophagy

- 2.00pm Dr. Mark J Ponsford
A systematic review and meta-analysis of inpatient mortality associated with nosocomial and community COVID-19 exposes the vulnerability of immunosuppressed adults
- 2.15pm **Keynote Speaker: Dr. Richard Stanton**
The role of NK cells in natural and vaccine mediated control of SARS-CoV2
- 3.00pm Prof. Ian Humphreys
Award announcement and closure of the meeting
- 3.15pm End of the second day