

Stromal-immune cell interactions in health and disease

16 May 2024

Southampton General Hospital, Southampton

10:00 Registration and refreshments

10:30 Welcome address

MORNING SESSION

Chair: Dr Chris Hanley (University of Southampton, UK)

10:35 **Peripheral-brain immune interactions in the pathophysiology of depression**
Invited speaker: Professor Jonathan Cavanagh (University of Glasgow, UK)

11:05 **A role for complement receptors 1 and 2 in follicular dendritic cell organization in germinal centres**
Selected short talk: Dr Jessica Anania (University of Southampton, UK)

11:20 **Generation of CD33 chimeric antigen receptor (CAR) invariant natural killer T (iNKT) cells for acute myeloid leukaemia (AML) immunotherapy**
Selected short talk: Weronika Biala (University of Southampton, UK)

11:35 **Targeting cancer-associated fibroblasts in head and neck cancer through MAGED4B vaccination**
Selected short talk: Josephine Buckingham (University of Southampton, UK)

11:50 **Understanding the stromal-immune cell axis in vaccine responses**
Invited speaker: Dr Alice Denton (Imperial College London, UK)

12:20 **Revolutionizing flow cytometry research**
Sponsored talk: Liz van der Merwe (Thermo Fisher Scientific, UK)

12:30 Lunch, posters and meet the exhibitors

AFTERNOON SESSION

Chair: Professor Salim Khakoo (University of Southampton, UK)

14:00 **Single cell analysis reveals distinct inflammatory fibroblasts and immune hubs in tumours**

Invited speaker: Ben Jenkins (University of Southampton, UK)

14:30 **Streamlining data exploration: HTML and Java Integration for interactive TB gene expression data analysis**

Selected short talk: Dr Victor Barozi (University of Southampton, UK)

14:45 **Immune modulation of the pre-metastatic niche in high-grade serous ovarian cancer via a stroma-Treg axis**

Selected short talk: Dr Julia Moreno-Vicente (CRUK Cambridge Institute, UK)

15:00 **Development of a 3D in vitro breast cancer organotypic model of obesity associated adipose inflammation**

Selected short talk: Rhianna Blyth (University of Southampton, UK)

15:15 **Life in the liver: A T cell perspective**

Invited speaker: Dr Laura Pallett (University College London, UK)

15:45 Closing remarks and prizes

16:00 Networking reception

17:00 Close

Poster presentations

P.01 Bioactive lipids mediating the resolution of skin inflammation

Anna Hains, University of Manchester, UK

P.02 Investigating Neutrophil-T cell interactions in the Lymph node

Angus Moffat, University of Southampton, UK

P.03 Fish immunity in a warming world

Sarah Buchan, Bournemouth University, UK

P.04 Detecting and defining immunity to human cytomegalovirus

Sarah Buchan, Bournemouth University, UK

P.05 Interrogating metabolic effects of the antimicrobial peptide cathelicidin on CD4+ T cells

Zachary Lim, University of Southampton, UK

P.06 Cancer-associated fibroblasts drive CXCL13 production in activated T cells via TGF-beta

Begoña Roman Martinez, University of Edinburgh/University of Southampton, UK

P.07 CAR-iNKT cell migration to tumor sites in multiple myeloma and primary CNS lymphoma.

Iliia Leontari, Imperial College London, UK

P.08 CD1c-autoreactive T-cells exhibit potent responses to Mycobacterium tuberculosis infection

Matthew Milton, University of Southampton, UK

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