

Hybrid Conference Programme

Start (BST)	Finish (BST)	Presenter details
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Wednesday 22 May 2024

12:00 13:00 Registration, lunch and networking

12:40 13:00 Briefing for Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium

13:00 13:15 Welcome

Scientific Programme Committee:

[Petter Brodin, Imperial College, UK/Karolinska Institutet, Sweden](#)

[Evanna Mills, Dana-Farber Cancer Institute/Harvard Medical School, USA](#)

[Vanessa Sancho-Shimizu, Imperial College, UK](#)

[David Thomas, University of Cambridge, UK](#)

13:15 14:45 Session 1: Genes to function

Chair: David Thomas, University of Cambridge, UK

13:15 13:45 Genetic Architecture of Inborn Errors of Immunity

[Dusan Bogunovic, Icahn School of Medicine at Mount Sinai, USA](#)

13:45 14:15 Predicting immunogenicity using human tonsil organoids

[Lisa Waqar, University of California, Irvine, USA](#)

14:15 14:30 Gain-of-function human UNC93B1 variants cause systemic lupus erythematosus and chilblain lupus

[Yanick Crow, University of Edinburgh, UK](#)

14:30 14:45 ETS2 is a central regulator of inflammatory responses in primary human macrophages

[Christina Stankey, The Francis Crick Institute, UK](#)

14:45 15:30 Refreshment break and networking

15:15 15:30 Briefing for Session 2 speakers, chair & moderator - Auditorium

15:30 17:00 Session 2: Human immune variation

Chair: Vanessa Sancho-Shimizu, Imperial College, UK

15:30 16:00 Genetic and environmental drivers of human immune responses to viruses

[Luis Quintana-Murci, Institut Pasteur/College de France, France](#)

16:00 16:30 Epigenetic regulation: at the apex of innate immune memory

[Musa Mhlanga, Radboud University, The Netherlands](#)

16:30 16:45 A single cell functional genomics dataset from a multi-ancestry cohort of systemic lupus erythematosus patients

[Catherine Sutherland, Wellcome Sanger Institute, UK](#)

16:45 17:00 Linking innate-immune variation in health and sepsis through gene expression and epigenetics

[Justin Whalley, Rosalind Franklin University of Medicine and Science, USA](#)

17:00 17:20 Poster pitch talks for odd number posters

17:20 17:30 Sponsored talk by Pixelgen Technologies

Spatial distribution of surface proteins in single T cells by molecular pixelation

[Rikard Forlin, Pixelgen Technologies](#)

17:30 18:40 Poster session 1 - odd number posters

18:40 20:40 Dinner

18:40 Bar open (card payments only)

Thursday 23 May 2024

07:30	09:00	Breakfast
09:15	09:30	Briefing for Session 3 speakers, chair & moderator - Auditorium
09:30	11:00	Session 3: Human immune responses to infection
		<i>Chair: Petter Brodin, Imperial College, UK/Karolinska Institutet, Sweden</i>
09:30	10:00	Genetic and immunological determinants of life-threatening infection at the extremes of life Alessandro Borghesi, Policlinico San Matteo, Italy
10:00	10:30	Human STAT2 deficiency underlies inflammation and viral infection Isabelle Meyts, KU Leuven, Belgium
10:30	10:45	Rhinovirus infection of airway epithelial cells uncovers the non-ciliated subset as a likely driver of genetic susceptibility to childhood-onset asthma <i>Maria Gutierrez-Arcelus, Boston Children's Hospital, USA</i>
10:45	11:00	Spatially resolved single-cell atlas of the lung in fatal Covid-19 in an African population reveals a distinct cellular signature and an interferon gamma dominated response <i>Christopher Moxon, University of Glasgow, UK</i>
11:00	11:45	Refreshment break and networking
11:30	11:45	Briefing for Session 4 speakers, chair & moderator - Auditorium
11:45	13:15	Session 4: Immunometabolism
		<i>Chair: Vanessa Sancho-Shimizu, Imperial College, UK</i>
11:45	12:15	Metabolite signaling in macrophages during health and disease Evanna Mills, Dana-Farber Cancer Institute/Harvard Medical School, USA
12:15	12:45	A break in mitochondrial endosymbiosis as a basis for inflammatory diseases Luke O'Neill, Trinity College Dublin, Ireland
12:45	13:00	Mothers' own milk normalize immune system development in extremely preterm babies <i>Ziyang Tan, Karolinska Institutet, Sweden</i>
13:00	14:30	Lunch and networking
14:15	14:30	Briefing for Session 5 speakers, chair & moderator - Auditorium
14:30	16:00	Session 5: Age and sex-differences in human immunity
		<i>Chair: Vanessa Sancho-Shimizu, Imperial College, UK</i>
14:30	15:00	Sex differences in human immunity Petter Brodin, Imperial College, UK/Karolinska Institutet, Sweden
15:00	15:30	Searching for Innate Immune Mechanisms that Mediate Resistance to Viral Infection in Humans Cliona O'Farrelly, Trinity College Dublin, Ireland
15:30	15:45	A single-cell perspective on age and sex effects on immune response to viral infection <i>Marwan Sharawy, Pasteur institute, France</i>
15:45	16:00	Biological sex impacts immune cell proportions and epigenetic profiles in the developing pediatric immune system <i>Karlie Edwards, University of British Columbia (BCCHR), Canada</i>
16:00	16:45	Refreshment break and networking
16:45	17:15	Editors panel
		<i>Chair: Petter Brodin, Imperial College, UK/Karolinska Institutet, Sweden</i>
		<i>Confirmed Panel Members</i>
		<i>Sri Narasimhan, Cell Press, USA</i>
		<i>Kirsty Minton, Springer Nature, UK</i>
17:15	17:35	Poster pitch talks for even number posters
17:35	18:35	Poster session 2 - even number posters
18:35	20:00	Dinner
18:35		Bar open (card payments only)

Friday 24 May 2024

07:30 09:00 Breakfast

09:15 09:30 Briefing for Session 6 speakers, chair & moderator - Auditorium

09:30 11:00 Session 6: Immune system and physiology

Chair: Evanna Mills, Dana-Farber Cancer Institute/Harvard Medical School, USA

09:30 10:00 Why is exercise medicine? Role of exercise extracellular vesicles in prevention of disease
[Mark Febbraio, Monash University, Australia](#)

10:00 10:30 Innate and adaptive cellular immunology in psychiatry: insights from genetic association studies
[Mary-Ellen Lynam, University of Cambridge, UK](#)

10:30 10:45 A multiomics atlas of fetal bone marrow to inform B-cell differentiation in vitro
Roser Vilarrasa-Blasi, Wellcome Sanger Institute, UK

10:45 11:00 A vascular-associated fibroblastic cell controls pancreatic islet immunity
Luc Teyton, Scripps Research, USA

11:00 11:30 Refreshment break and networking

11:15 11:30 Briefing for session 7, chair, moderator & committee - Auditorium

11:30 13:00 Session 7: Inborn errors of immunity

Chair: David Thomas, University of Cambridge, UK

11:30 12:00 Genetic studies of inborn errors of immunity in a highly consanguineous population
[Imen Ben-Mustapha, Institut Pasteur in Tunis, Tunisia](#)

12:00 12:30 Rare coding variants unravel the pathogenesis of human lupus
[Carola Vinuesa, Francis Crick Institute, UK](#)

12:30 12:45 Leveraging pleiotropy to interrogate the common variant architecture of the most common inborn error of immunity
Thomas Willis, MRC Biostatistics Unit, UK

12:45 13:00 DEF6 promotes canonical CD56dim NK cell survival and function
Lars Gerullat, Karolinska Institute, Sweden

13:00 13:10 Closing remarks and prize presentation

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[David Thomas, University of Cambridge, UK](#)

13:10 14:00 Lunch and departures

14:00 Coach departures for Stansted and Heathrow airports

14:10 Coach departures for Cambridge train station and city centre