

Hybrid Conference Programme

| Start (BST) | Finish (BST) | Presenter details |
|------------------------------|--------------|--|
| 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 Wagar, 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 Lluís 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 | 17:35 | Sponsored talk by Pixelgen Technologies |
| | | Spatial distribution of surface proteins in single T cells by molecular pixelation Rikard Forlin, Pixelgen Technologies |
| 17:35 | 18:45 | Poster session 1 - odd number posters |
| 18:40 | 20:40 | Dinner |
| 18:40 | | Bar open (card payments only) |

| Thursday 23 May 2024 | | |
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| 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 Meys, 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

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| 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 <i>Chair: Evanna Mills, Dana-Farber Cancer Institute/Harvard Medical School, USA</i> |
| 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, Univerosty of Cambridge, UK |
| 10:30 | 10:45 | A multiomics atlas of fetal bone marrow to inform B-cell differentiation in vitro <i>Roser Vilarrasa-Blasi, Wellcome Sanger Institute, UK</i> |
| 10:45 | 11:00 | A vascular-associated fibroblastic cell controls pancreatic islet immunity <i>Luc Teyton, Scripps Research, USA</i> |
| 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 <i>Chair: David Thomas, University of Cambridge, UK</i> |
| 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 <i>Thomas Willis, MRC Biostatistics Unit, UK</i> |
| 12:45 | 13:00 | DEF6 promotes canonical CD56dim NK cell survival and function <i>Lars Gerullat, Karolinska Institute, Sweden</i> |
| 13:00 | 13:10 | Closing remarks and prize presentation 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 |
| 13:10 | 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 |