

From the Laboratory to the Clinic 2026: Complex pathogenesis of disease

1st- 4th September 2026, Trinity College, Oxford

Organising Committee: Prof. Sir M. Feldmann, Prof. Sir R.N. Maini, Prof. Sir A. McMichael, Dr T. Daniel, Prof. M. Maini, Prof. Dame F. Powrie, Dr L. Steinman, Dr R. Vessey, Dr J. Woody, Prof. G. Ogg, Dr M. Merad, Prof. V. Malmström

Immunology and Metabolism – Tue 1st September - 14:00

- Craig Thompson - Memorial Sloan Kettering Cancer Center
 - *Microbial metabolites can induce T cell effector function*
- Erika Pearce - John Hopkins
 - *Delineating the metabolic events that regulate immune cell differentiation and function*
- Luke O'Neill – Trinity College, Dublin
 - *How immunometabolism is providing therapeutic targets for inflammatory diseases*

Refreshment Break

- Mike Dustin – University of Oxford
 - *Supramolecular attack particles in cell mediated killing*
- Paul Klenerman – University of Oxford
 - *Unconventional and Conventional responses – tag team tactics for T cells*
- Katja Simon - Max Delbrück Center, Berlin
 - *Autophagy in metabolism, differentiation and aging of immune cells*
- Mark Davis – Stanford University
 - *Kir+CD8+ regulatory T cells as a biomarker of autoimmunity in human diseases*

Microbial Effects on Disease - Wed 2nd September – 09:00

- Eran Elinav - Weizmann Institute of Science
 - *Decoding dietary-host-microbiome Interactions in Health and Disease*
- Nebosja Janjic - Crestone Pharma
 - *Precision medicine for gut microbiome*
- Dan Littman - NYU Langone Health
 - *Shaping of immune response by the gut microbiota*

Refreshment Break

- Kathy McCoy – University of Calgary
 - *Microbiota-driven Immune Modulation: Mechanisms and Therapeutic Paths*

- Yasmin Belkaid - Pasteur Institute
 - *Microbiota control of host immunity*
- Bill Robinson – Stanford
 - *EBV in Autoimmunity*

Repair – Wed 2nd September – 14:00

- Jagdeep Nanchahal - University of Oxford
 - *Targeting endogenous pathways to enhance physiological tissue repair*
- Ann Tsukamoto Weissman – Bitterroot Foundation
 - *Act II: Clinical translation of Human Neural Stem Cells to regenerate function*
- Tonia Vincent - University of Oxford
 - *Targeting mechanoflammation in osteoarthritis*

Refreshment Break

- Molly Stevens - University of Oxford
 - *Designing and translating new bioengineering strategies for applications in advanced therapeutics and ultrasensitive biosensing*
- Irv Weissman – Stanford University
 - *Biology, transplantation and disease pathogenesis of blood forming stem cells*
- Christopher Buckley - University of Oxford
 - *Inflammation and Repair across tissues*

Conference Dinner 7.00pm onwards

Metabolism – Thurs 3rd September – 09:00

- Svetlana Mosjov - The Rockefeller University
 - *GLP-1: From a Putative Peptide to Effective Medicines for Diabetes and Obesity*
- Lotte Bjerre Knudsen - Novo Nordisk A/S
 - *The science behind the GLP-1 medicines: a historic view and future outlook*
- **Speaker TBC**

Refreshment Break

- David Hodson – University of Oxford
 - *Visualizing diabetes and obesity drug targets from the single molecule to the whole animal*
- Matthias H. Tschöp, LMU Munich
 - **TBC**
- Stephen O'Rahilly – University of Cambridge
 - **TBC**

Neurodegeneration – Thurs 3rd September – 14:00

- Alexander (Sasha) Tarakhovskiy - The Rockefeller University
 - *The 30 year-old puzzle of RING3*
- Isaac Chiu – Harvard University
 - *Role of the innate pore-forming molecule Gasdermin E in Neurodegeneration*
- Mone Zaidi - Icahn School of Medicine at Mount Sinai
 - *Concept to Candidate Drug: Can we treat osteoporosis, obesity & Alzheimer's with a single drug*

Refreshment Break

- Marco Colonna - St Louis Washington
 - *Innate Immune Programs Shaping Neurodegeneration*
- Kate Attfield – University of Oxford
 - *Genome-wide Analysis of Aquaporin-4-positive Neuromyelitis Optica Spectrum Disorder: Insights into Comorbidities and Future Therapeutic Approaches*
- Speaker TBC

Neurodegeneration continued – Fri 4th September – 09:00

- Laura Dugan - Vanderbilt University Brain Institute & Ethers Pharmaceuticals
 - *Developing high-potency small molecule synthetic enzymes as therapeutic agents for brain aging and disease*
- Anne Schaefer - Icahn School of Medicine at Mount Sinai
 - *“Adaptive” immunity by microglia*
- Larry Steinman – Stanford Medicine
 - *How EBV Drives Multiple Sclerosis and How This Knowledge Informs New Therapies*

Refreshment Break

- Tom Daniel – Aspen Neuroscience
 - TBC
- Jeffrey Ravetch – IVIG revolutionised
- Speaker TBC