



DAY 1 – SUNDAY 17 OCTOBER 2021

13:30 - 15:00

Grand opening of the virtual exhibition, virtual meeting platform and iPosters.
Sponsors & Exhibitors Breaking News broadcast through the Virtual Meeting Platform.

15:00 - 17:30

Opening Session

- 15:00 Welcome and opening remarks / *Simon Jones (University of Cardiff, UK)*
- 15:05 President's address and presentation of ICIS Awards / *Kate Fitzgerald (University of Massachusetts Medical School, US)*
- 15:10 Award Ceremony – Presentations & Ceremony ICIS Senior & Mid-Career and Young Investigator Awards
ICIS-Mentorship Award / *Howard A. Young (NIH, US)*
ICIS-Distinguished Services Award / *Nancy C. Reich Marshall (Stony Brook University, US)*
ICIS-Honorary Lifetime Membership Award / *Carl F. Ware (Sanford Burnham Prebys Medical Discovery Institute, US)*
Regeneron New Investigator Awards for Excellence in Cytokine & Interferon Research (formerly the Milstein Young Investigator Awards) / *TBD*
Christina Fleischmann Award to Young Women Investigators / *TBD*
Sidney & Joan Pestka Graduate and Post-Graduate Awards / *TBD*
ICIS Amanda Proudfoot Tribute Award for Excellence in Chemokine Biology / *TBD*
- 15:30 Award Presentation Lecture 1: ICIS Pfizer Award for Excellence in Interferon and Cytokine Research (formerly the Seymour & Vivian Milstein Award from 1988 – 2020) / *Jenny Pan-Yun Ting (University of North Carolina, US)*
- 15:55 Award Presentation Lecture 2: ICIS-BioLegend William E. Paul Award for Excellence in Cytokine Research: "An emerging field of cytokine pharmacology" / *K. Christopher Garcia (Stanford University, US)*
- 16:20 Award Presentation Lecture 3: ICIS-Luminex John R. Kettman Award for Excellence in Interferon & Cytokine Research Mid-Career: "It's all about the cytokines" / *Marion Pepper (University of Washington, US)*
- 16:45 Keynote Lecture: Human immunity one cell at a time / *Sarah Teichmann (Wellcome Sanger Institute, UK)*

17:30 - 19:30

Welcome reception and visit of the exhibition
All attendees, virtual and live, are encouraged to visit the tabletop exhibits and/or virtual booths.

19:30 - 20:30

Sponsored Session A: CSF - JAK inhibitor in pain (organised via the CSF)

19:30 - 20:30

Sponsored Session B: The Learned Society of Wales - Considering alter career paths in research

DAY 2 – MONDAY 18 OCTOBER 2021

08:30 - 10:15

Plenary 1: Mechanisms of cytokine and cytokine receptor systems (Sponsored by an unrestricted educational grant from Lilly)

08:33 Keynote Lecture: Mechanisms of cytokine and cytokine receptor systems / *David Artis (Weill Cornell Medicine, USA)*

08:58 Initiation and resolution of inflammatory responses / *Kate Fitzgerald (University of Massachusetts Medical School, USA)*

09:18 Cysteine modification as a strategy to limit inflammation / *Luke O'Neill (Trinity College Dublin, IE)*

09:38 PTPs in JAK/STAT Signalling and anti-tumour immunity / *Tony Tiganis (Monash University, AU)*

09:28 Q&A

10:15 - 10:45

Coffee break and visit of the exhibition

10:45 - 12:25

Symposium 1: Designer cytokines and cytokine immunotherapy

10:50 Designer cytokines and treatment of metabolic disease / *Mark Febbraio (Garvan Institute of Medical Research, AU)*

11:05 Manipulating cytokine activities in different extracellular micro-environments / *Ignacio Moraga Gonzalez (University of Dundee, UK)*

11:20 Synthetic cytokine signaling / *Jürgen Scheller (University of Dusseldorf, DE)*

11:35 Abstract / *TBD*

11:45 Abstract / *TBD*

11:55 Q&A

10:45 - 12:25

Symposium 2: Tissue homeostasis and barrier immunity

10:50 TBD / *Stacey Harbour (University of Alabama, US)*

11:05 Chemokines and the orchestration of the inflammatory response / *Gerard Graham (University of Glasgow, UK)*

11:20 ILC2 and Th2 cell kinetic regulation of functional helminth type 2 immunity / *Padraic Fallon (Trinity College Dublin, IE)*

11:35 Abstract / *TBD*

11:45 Abstract / *TBD*

11:55 Q&A

12:25 - 12:45

Break

12:45 - 13:45

Sponsored Session C: The Royal Society of Biology - Visualisation of big data

12:45 - 13:45

Sponsored Session D: Korean Association of Immunologists - Cytokines and bystander T cell activation

- 12:45 IL-15-induced bystander T cell activation and immunopathology / *Eui-Cheol Shin (Korea Advanced Institute of Science and Technology, KR)*
- 13:00 IL-1 family and STAT activators for Bystander T cell activation contributing autoimmune diseases / *Je-Min Choi (Hanyang University, KR)*
- 13:15 Extricating human tumor-unique immune alterations from non-malignant tissue inflammation / *Martin Prlic (Fred Hutchinson Cancer Research Center, USA)*

13:45 - 15:15

Symposium 3: Cytokines in anti-viral immunity

- 13:50 The role of IL-2 signalling in attenuated virus specific antibody responses in early life / *James Harker (Imperial College London, UK)*
- 14:05 New insights into the regulation of virus-induced inflammatory cytokine production / *Ian Humphreys (Cardiff University, UK)*
- 14:20 IL-2, inflammation, and Influenza A virus infection / *Tara M. Strutt (University of Central Florida, USA)*
- 14:35 Abstract / *TBD*
- 14:45 Abstract / *TBD*
- 14:55 Q&A

13:45 - 15:15

Symposium 4: Epigenetic control of cytokine-mediated outcomes

- 13:50 Mir-221/222 suppress IL-23 driven Th17 inflammation / *Yuka Kanno (NIH, USA)*
- 14:05 TBD / *Holm Uhlig (University of Oxford, UK)*
- 14:20 TBD / *TBD*
- 14:35 Abstract / *TBD*
- 14:45 Abstract / *TBD*
- 14:55 Q&A

15:15 - 16:45

E-poster networking session 1

16:45 - 18:15

Symposium 5: Mechanisms of cytokine release syndromes

- 16:50 Antiviral and inflammatory cytokine crosstalk / *Michael Gale Jr. (University of Washington, USA)*
- 17:05 Role of PYHIN proteins in cytokine secretion / *Andrew Bowie (Trinity College Dublin, IE)*
- 17:20 Targeting PANoptosis for the treatment of inflammatory and infectious diseases / *Thirumala-Devi Kanneganti (St Judes, USA)*
- 17:35 Abstract / *TBD*
- 17:45 Abstract / *TBD*
- 17:55 Q&A

16:45 - 18:15

Symposium 6: Single cell analysis of inflammatory outcomes

16:50 TBD / *Clare Bryant (The University of Cambridge, UK)*

17:05 Single cell RNA-sequencing and spatial analysis of fat-associated lymphoid clusters of the omentum reveals novel facets of the stromal-immune axis within the peritoneal cavity / *Lucy H. Jackson-Jones (Lancaster University, UK)*

17:20 Deciphering virus-specific killer T cell trajectories upon infection / *Stephen Turner (Monash University, AU)*

17:35 Abstract / *TBD*

17:45 Abstract / *TBD*

17:55 Q&A

DAY 3 – TUESDAY 19 OCTOBER 2021

08:30 - 10:00

Symposium 7: Japanese Society of Interferon & Cytokine Research Symposium: Type I interferon and disease pathogenesis

08:35 The Histidine Transporter SLC15A4 Coordinates mTOR-Dependent Inflammatory Responses and Pathogenic Antibody Production / *N. Toyama-Sorimachi (National Center for Global Health and Medicine, Japan)*

08:50 Lyn Kinase Suppresses the Transcriptional Activity of IRF5 in the TLR-MyD88 Pathway to Restrain the Development of Autoimmunity / *Tomohiko Tamura (Yokohama City University Graduate School of Medicine, Japan)*

09:05 C9orf72 in myeloid cells suppresses STING-induced inflammation / *Madelyn E. McCauley (Cedars-Sinai Medical Center, USA)*

09:20 Abstract / *TBD*

09:30 Abstract / *TBD*

09:40 Q&A

08:30 - 10:00

Symposium 8: Cytokines in pain and psychoneuroimmunology

08:35 Importance of Interleukin-6 and IL-6s/gp130 in neuropathic pain disorders / *Michaela Kress (Medical University Innsbruck, AT)*

08:50 The IL-6/IL-6R pathway as a potential treatment target for depression / *Golam Khandaker (University of Cambridge, UK)*

09:05 Neuro-immune interactions in pain - where do all the cytokines come from? / *Franziska Denk (King's College London, UK)*

09:20 Abstract / *TBD*

09:30 Abstract / *TBD*

09:40 Q&A

10:00 - 11:45

E-poster networking session 2

11:45 - 12:45

Sponsored Session E: The Royal Society - Building academic-industry partnerships

11:45 - 12:45

Sponsored Session F: Targeting cytokines in COVID-19 (Sponsored by an unrestricted educational grant from Humanigen)

11:45 Cytokines in respiratory viral infections / *Peter Openshaw (Imperial College London, UK)*

12:00 TBD / *TBD*

12:15 Inhaled Interferon beta - a therapeutic for COVID-19? / *Tom Wilkinson (University of Southampton, UK)*

12:45 - 13:00

Coffee break and visit of the exhibition

13:00 - 14:45

Plenary 2: Understanding complexities of immune mediated diseases (Sponsored by an unrestricted educational grant from Pfizer)

13:03 Keynote Lecture: Fibroblasts as cytokine factories / *Chris Buckley (Universities of Birmingham and Oxford, UK)*

13:28 A little knowledge: What have patients with monogenic diseases taught us? / *Helen Lachmann (UK National Amyloidosis Centre, UK)*

13:48 Specific blockade of IL-6 trans-signaling in patients with inflammatory bowel disease / *Stefan Rose-John (University of Kiel, DE)*

14:08 The role of interferons in autoinflammatory diseases / *Raphaela T. Goldbach-Mansky (NIH, USA)*

14:28 Q&A

14:45 - 15:15

Coffee break and visit of the exhibition

15:15 - 16:45

Symposium 9: Determinants of disease heterogeneity

15:20 Differential cytokine targeting and precision medicine / *Douglas Veale (University of Dublin, IE)*

15:35 Investigating control of ectopic lymphoid-like structure development through gp130-signalling cytokines / *Gareth Jones (University of Bristol, UK)*

15:50 TBD / *Partha Biswas (University of Pittsburgh, USA)*

16:05 Abstract / *TBD*

16:15 Abstract / *TBD*

16:25 Q&A

15:15 - 16:45

Symposium 10: Cytokines in allergic reactions (Sponsored by an unrestricted educational grant from Regeneron)

15:20 TBD / *Jamie Orengo (Regeneron, USA)*

15:35 Dendritic cells and macrophages: central players in orchestration of fungal allergic airway inflammation / *Andrew MacDonald (University of Manchester, UK)*

15:50 Cytokine regulation of immunity in the allergic lung / *Clare M. Lloyd (Imperial College London, UK)*

16:05 Abstract / *TBD*

16:15 Abstract / *TBD*

16:25 Q&A

16:45 - 18:15

Symposium 11: Cancer and immunology, happy neighbours?

16:50 TBD / *Brendan Jenkins (Hudson Institute of Medical Research, AU)*

17:05 TBD / *Hua Yu (City of Hope, USA)*

17:20 TBD / *Ethel Cesarman (Weill Cornell Medicine, USA)*

17:35 Abstract / *TBD*

17:45 Abstract / *TBD*

17:55 Q&A

16:45 - 18:15

Philip I. Marcus Symposium 12: Mechanisms of interferonopathies (Sponsored by Journal of Interferon & Cytokine Research / Mary Ann Liebert, Inc. Publishers)

16:50 Anti-cytokine autoantibodies / *Anne Puel (Inserm, FR)*

17:05 **Philip I. Marcus Memorial Lecture:** Human type I interferonopathies / *Yanick Crow (The University of Edinburgh, UK)*

17:20 Inborn errors of type I IFN immunity in patients with life-threatening COVID-19 / *Qian Zhang (The Rockefeller University, USA)*

17:35 Abstract / *TBD*

17:45 Abstract / *TBD*

17:55 Q&A

19:30

Networking Dinner Event - Luke O'Neill's band, the Metabollix with special guests, event (live streamed from the historic Coal Exchange Hotel on Cardiff Bay)

DAY 4 – WEDNESDAY 20 OCTOBER 2021

08:30 - 10:00

Symposium 13: Stromal tissue as orchestrators of disease outcome

08:35 Molecular checkpoints controlling the transition from autoimmunity to inflammation / *Gerhard Krönke (University of Erlangen–Nuremberg, DE)*

08:50 TBD / *TBD*

09:05 Phenotype determination in fibrosis is under the control of a TGFb1/c-Rel/PFKFB3 pathway / *Derek Mann (Newcastle, UK)*

09:20 Abstract / *TBD*

09:30 Abstract / *TBD*

09:40 Q&A

08:30 - 10:00

Symposium 14: Combinatorial drug targeting in immune disease

08:35 Combinatorial drug targeting in immune disease / *Iain McInnes (University of Glasgow, UK)*

08:50 TBD / *TBD*

09:05 TBD / *Dane Wittrup (MIT, US)*

09:20 Abstract / *TBD*

09:30 Abstract / *TBD*

09:40 Q&A

10:00 - 10:15

Coffee break and visit of the exhibition

10:15 - 12:00

Plenary 3: Systems approaches in precision medicine

10:18 Keynote Lecture: Translating immunology into new therapies for Inflammatory Bowel Disease / *Fiona Powrie (Kennedy Institute, UK)*

10:43 Tissue-specific adaptations for human immunity / *Donna Farber (Columbia University, USA)*

11:03 Cytokines in induction and regulation of tissue inflammation / *Vijay Kuchroo (Harvard Medical School, USA)*

11:23 TBD / *Aaron Ring (Yale University, USA)*

11:43 Q&A

12:00 - 12:15

Coffee break and visit of the exhibition

12:15 - 13:45

Symposium 15: Disease stratification and biological therapies

12:20 A new pathway in inflammation and pain / *John Hamilton (University of Melbourne, AU)*

12:35 Conditionally active split cytokines as targeted immunotherapeutics / *Jamie Spangler (Johns Hopkins University, USA)*

12:50 TBD / *Costantino Pitzalis (Queen Mary University of London, UK)*

13:05 TBD / *Francesca Barone (University of Birmingham, UK)*

13:20 Q&A

12:15 - 13:45

Symposium 16: Determinants of cell fate

12:20 Adaptive immunity and immune memory to SARS-CoV2 and COVID-19 / *Shane Crotty (La Jolla Institute of Allergy and Immunology, USA)*

12:35 IL-1 family members and resistance to infection / *Chris Hunter (University of Pennsylvania, USA)*

12:50 TBD / *Laurie Glimcher (Harvard Medical School, USA)*

13:05 Jakinibs and beyond / *John O'Shea (NIH, USA)*

13:20 Q&A

13:45 - 14:00
Closing Session

13:45 Closing remarks

13:55 Invitation to Cytokines 2022