DAY 1 – SUNDAY 17 OCTOBER 2021

13:15 - 14:45
Grand opening of the virtual exhibition
Exhibitor Breaking News Sessions on the Virtual Meeting Platform

13:15 BioLegend: What’s new from BioLegend for ICIS/Cytokines 2021?

13:30
- Humanigen - Lenzilumab authorization for use in hospitalized, hypoxic COVID-19 patients
- ICIS - Learn about opportunities for Cytokines 2022 in Hawaii!
- IVICT - PeptiGrowth - Growth factor alternative peptides

13:45
- Cytokine Signalling Forum - An overview of the Cytokine Signalling Forum
- Olink - Next generation proteomics
- Quanterix - High-definition multiplex measurement of cytokines & interferons with Simoa®

14:00
- 10X Genomics - High resolution characterisation of the immune system
- GSK - Live discussion with immunology network postdoc
- PBL - Human interleukin products providing accurate endogenous quantitation

14:15
- Humanigen - LIVE-AIR data presentation
- Pfizer Post-doctoral program
- Xilio - Learn more about Xilio Therapeutics

14:30
- Boehringer Ingelheim Pharmaceuticals opnMe.com: The open Innovation portal of Boehringer Ingelheim
- Korean Association of Immunologists (KAI) supports Young Investigators!
- Luminex - The new xMAP® INTELLIFLEX: Technology you trust. Versatility you want.

15:00 - 17:30
Opening Session (Sponsored by an unrestricted educational grant from Bristol Myers Squibb)

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)

All sessions are in Cardiff, UK, Local Time (GMT+1)
• 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)
  o Rebecca C. Coll (Queen’s University Belfast, UK)
  o Keke Celeste Fairfax (University of Utah, US)
  o Fiachra Humphries (UMASS Medical School, US)
  o Shruti Naik (NYU School of Medicine, US)
  o Jakob von Moltke (University of Washington, US)
• Christina Fleischmann Award to Young Women Investigators / Snehlata Kumari (The University of Queensland Diamantina Institute, AU)
• Sidney & Joan Pestka Graduate Award / Brigette Duckworth (Walter and Eliza Hall Institute of Medical Research, AU)
• Sidney & Joan Pestka Post-Graduate Award / Ai Ing Lim (National Institute of Allergy and Infectious Diseases, US)
• ICIS Amanda Proudfoot Tribute Award for Excellence in Chemokine Biology / Douglas Philip Dyer (Wellcome Centre for Cell-Matrix Research, University of Manchester, UK)

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): “The all-encompassing importance of innate immune receptors” / 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 & Networking: Visit the Exhibit Hall & iPoster Hall

19:30 - 20:30
Sponsored Session A: CSF - JAK inhibitor in pain (organised via the CSF)

19:30  Welcome and introduction / Daniel Clauw (University of Michigan, US)

19:40  The effects of JAKinibs on pain outcomes in clinical trials / Peter Taylor (University of Oxford, UK)

19:55  Understanding the central mechanisms of cytokines and pain / Neil Basu (University of Glasgow, UK)

20:10  Peripheral mechanisms of pain / Camilla Svensson (Karolinska Institutet, SE)

20:25  Summary and close / John O’Shea (NIAMS-NIH, US)

19:30 - 20:30
Sponsored Session B: Luminex

19:30  Mucosal responses to HIV and prevention strategies / Carolina Herrera (Imperial College London, UK)
DAY 2 — MONDAY 18 OCTOBER 2021

08:30 - 10:15
Plenary 1: Cytokines in cellular metabolism and immune homeostasis
(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  TBC

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  O01 - Engineering a Cytokine/Antibody Fusion Protein for Targeted Expansion of Regulatory T Cells / Derek VanDyke (Johns Hopkins University, US)

11:45  O02 - Cytokine antagonists from a helminth parasite / Henry J McSorley (University of Dundee, UK)

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  O03 - IL-36 cytokines alert epithelial tissue to destructive infection by sensing pathogen-derived proteases / Tom Macleod (University of Leeds, UK)

11:45  O04 - Young Investigator Awardee - Tuft cell effector molecules regulating anti-helminth immunity / Jakob Von Moltke (University of Washington, US)

All sessions are in Cardiff, UK, Local Time (GMT+1)
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 Pfizer Junior Investigator Award Winner: O05 - ISG15-dependent Activation of the RNA Sensor MDA5 and its Antagonism by SARS-CoV-2 / Guanqun Liu (Cleveland Clinic Florida Research and Innovation Center, US)

14:45 O06 - Interferon-induced transmembrane protein 3 (IFITM3) limits lethality of SARS-CoV-2 in mice / Jacob Yount (The Ohio State University, US)

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 Transcriptional control of neutrophil responses in inflammation / Irina Udalova (Kennedy Institute of Rheumatology, UK)

All sessions are in Cardiff, UK, Local Time (GMT+1)
14:35  O07 - Young Investigator Award - Effector and Stem-Like Memory Cell Fates are Imprinted in Distinct Lymph Node Niches Directed by CXCR3 Ligands / Brigette C Duckworth (Walter and Eliza Hall Institute of Medical Research, AU)

14:45  O08 - Young Investigator Award - Z-DNA-binding protein-1 regulates necroptosis-mediated skin inflammation / Snehlata Kumari (The University of Queensland Diamantina Institute, AU)

14:55  Q&A

15:15 - 16:45  

1-Poster Networking Session 1

01. Tissue homeostasis and mucosal immunity

P001 - IL-1R1-Mediated GM-CSF Production by Lung Structural Cells is Required for Murine Survival and Fungal Killing During Pulmonary Aspergillus fumigatus Infection / Kathleen Mills (Weill Cornell Medicine, US)

P002 - ISG-Tregs in Viral Infection / Louisa E Sjaastad (University of Minnesota, US)

P003 - Dysregulation of IL-17 and Calprotectin in the female reproductive tract affects pregnancy outcome following assisted reproductive therapy / Federica Giangrazi (Trinity College Dublin, IE)

P004 - Type I interferons shape the tissue macrophage niche with age / Shruti Sharma (Tufts University, US)

P005 - Retinoic acid receptor alpha regulates the phagocytic ability of gut macrophages through Tim4 in the small intestine / Chaitanya Dende (University of Texas Southwestern Medical Center, US)

P006 - Type I, II, and III Interferon Responses of Human Intestinal Organoids in Health and Disease / David A Constant (Oregon Health & Science University, US)

P007 - Dynamic properties of endometrial macrophages regulate tissue homeostasis in the uterus / Elizabeth Mann (University of Manchester, UK)

P008 - From antiviral to antiproliferative: the pathogenic potential of type I and III interferons during lung repair / Jack Major (Francis Crick Institute, UK)

P009 - Chemokines Act as Phosphatidylserine-bound Find-me Signals in Apoptotic Cell Clearance / Sergio M Pontejo (National Institute of Allergy and Infectious Diseases, US)

P010 - Alveolar macrophages strictly rely on GM-CSF from alveolar epithelial type 2 cells before and after birth. / Julia Gschwend (University of Zurich, CH)

P011 - Type 2 innate immunity regulates hair follicle homeostasis to control Demodex pathosymbionts / Roberto Ricardo-Gonzalez (University of California San Francisco, US)

P012 - Chronic parasite infection reshapes systemic viral infection by altering tissue resident macrophages / Christina Zarek (UT Southwestern Medical Center, US)
P013 - Association of cytokine levels, monocyte subsets and short-term survival of septic shock patients. / Jan Frič (FNUSA-ICRC, CZ)

P014 - Inflammatory response of the peripheral neuroendocrine system following downhill running. / Andre Luis Araujo Minari (UNESP, BR)

P015 - Sertoli Cells — Future In Cell Therapy? Modulation Of Cytokine Environment Towards Anti-Inflammatory In Vitro And In Vivo / Bianka Porubská (Faculty of Science, Charles University, US)

Junior Investigator Award Winner:

P017 - Elevated Cytokine Signalling in Monocyte-Derived Alveolar Macrophages After Influenza Challenge / Justina Kulikauskaite (Francis Crick Institute, UK)

P018 - Group 3 innate lymphoid cells produce HB-EGF to protect the intestine from TNF / Lei Zhou (Weill Cornell Medicine, US)

P019 - Identification of microbial factors that govern induction of microbiome-dependent IL-17 at the ocular surface. / Anthony St. Leger (University of Pittsburgh, US)

P020 - IL-17-producing CD4 tissue-resident memory T cells mediate protective immunity against Bordetella pertussis infection in the nasal mucosae / Lucy Curham (Trinity College Dublin, IE)

P021 - Staphylococcus aureus-induced immunosuppression during nasal colonisation enables bacterial persistence / Alanna Kelly (Trinity College Dublin, IE)

P022 - Microbial products promote ubiquitination and accumulation of the innate immune adaptor STING to exacerbate colitis / Liraz Galia (UMASS medical school, US)

P023 - Type I and III interferon signalling restricts Shigella infection of epithelial cells / Noemie Alphonse (King’s College London, UK)

P024 - Inhibition of Salmonella enterica invasion and intracellular replication by interferon-stimulated genes. / Ruth Dickenson (King’s College London, UK)

P025 - Enhanced IL-36R signaling promotes barrier impairment and inflammation in skin and intestine / Zaruhi Hovhannisyan (Regeneron Pharmaceuticals, Inc., US)

P026 - Microbiota Regulation of Intestinal Eosinophils / Y. Grace Cao (Harvard School of Public Health, US)

P027 - Reg3 induction subverts intestinal healing in Antibiotic treatments and Crohn’s disease by Debaryomyces hansenii / Rahul Gupta (, US)

P028 - Divergent role of interleukin-20 family of cytokines in regulation of intestinal epithelial inflammation / M Arifur Rahman (The University of Queensland, AU)

P029 - Basophils support Th2 cell responses during gastrointestinal helminth infection / Lauren Webb (University of Washington, US)

P030 - The role of Interleukin-1beta in colon inflammation / Elena Voronov (Ben Gurion University of the Negev, IL)

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P032 - Estrogen-induced Type I interferon, IFN-epsilon, is exploited by Neisseria gonorrhoeae to evade innate immune killing / Evelyn Kurt-Jones (University of Massachusetts Medical School, US)

P033 - Exosome mediated cytokine secretion and signaling in respiratory disease / Jennifer Alexander-Brett (Washington University, US)

P034 - IL-36 cytokines enhance endothelial cell barrier integrity and prevent microvascular permeability / Erin Fahey (Trinity College Dublin, IE)

P035 - Differential expression of the cytokine receptors IL-1R1 and IL-6R in human vocal fold fibroblasts from Reinke’s edema patients, and differential regulation of IL-1R1 upon cytokine treatment / Magdalena Grill (Medical University of Graz, AT)

P036 - Interleukin-11-producing fibroblasts promotes the development of colorectal cancer / Takashi Nishina (Toho University, JP)

02. Cytokines in anti-viral immunity

P037 - Regulation of Viral Nucleic Acid Sensing by LUBAC / Brian Ferguson (University of Cambridge, UK)

P038 - T-bet acts during chronic cytomegalovirus infection to promote immune-suppressive T cells that exhibit novel immune-regulatory functionality / Mathew Clement (Cardiff University, UK)

P039 - Murine astrovirus tropism for goblet cells and enterocytes facilitates an IFN-λ response in vivo and in enteroid cultures / Harshad Ingle (Washington University School of Medicine, US)

P040 - Single Cell RNA Sequencing of Zika Virus-Infected Neural Tissues Reveals an Astrocyte-Driven Innate Immune Response Governed by Interferon Beta / Caleb Stokes (University of Washington, US)

P041 - Two cGAS-like receptors induce Sting-dependent antiviral immunity in Drosophila melanogaster / Hans Henrik Gad (Aarhus University, DK)

P042 - Cellular nucleic acid-binding protein is essential for type I interferon-mediated immunity to RNA virus infection / Yongzhi Chen (University of Massachusetts Medical School, US)

P043 - dsRNA recognition induces IL-1 and IL-18 secretion and cell death and GSDME cleavage in respiratory epithelial cells / Coralie Guy (Trinity Biomedical Sciences Institute, IE)

P044 - Signaling from the RNA Sensor RIG-I is Regulated by Ufmylation / Daltry Snider (Duke University, US)

P045 - Tumor Progression Locus 2 (Tpl2) restricts excessive monocyte and neutrophil influx during late stage Influenza infection / Krishna Latha (University of Georgia, US)

P046 - The RNA Helicase DHX16 Recognizes Specific Viral RNA to Trigger RIG-I-dependent Innate Antiviral Immunity / Adam Hage (The University of Texas Medical Branch at Galveston, US)

P047 - The role of ncBAF complex members in IFN-stimulated antiviral activity / Nina Mair (University of Zurich, CH)

P048 - Cytokine-driven Activation of Innate-like T Cell Populations by Adenovirus Vaccine Vectors / Nicholas M Provine (University of Oxford, UK)
P049 - A subset of CD4+ effector memory T cells suppress T cell-mediated immunity to pulmonary viral infection via integrin αvβ8-dependent activation of latent TGFβ / Mark Travis (University of Manchester, UK)

P050 - Nuclear soluble cGAS senses DNA virus infection / Shitao Li (Tulane University, US)

P051 - Evaluation of Ly6e in Distinct Cellular Compartments for Resistance to Coronavirus Infection / Katrina B Mar (UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER, US)

P052 - Conserved induction of distinct antiviral signalling kinetics by primate interferon lambda 4 proteins / Connor Gavin George Bamford (Queen’s University Belfast, UK)

P053 - Kinetic Characterization of the RIG-I Signal Transduction Pathway / Sandy Stephanie Burkart (DKFZ Heidelberg, DE)

P054 - Loss of Adar1 Increases T Cell Migration and Prolongs Survival in Ovarian Cancer / Stephanie Gomez (The George Washington University, US)

P055 - Role of Type I IFNs in the Development of an Immunoregulative Myeloid Cell Population Following Respiratory Viral Infection / Kimberly Oliva (University of GA, US)

P056 - Systemic IL-15, IFN-gamma and IP-10/CXCL10 Signature Associated with Effective Immune Response in BNT162b2 mRNA Vaccine Recipients / Cristina Bergamaschi (National Cancer Institute at Frederick, US)

P057 - The Impact of Type I Interferon Signaling on the Plasmablast Response to Viral Pathogens / Tara L Steffen (Saint Louis University, US)

P058 - The Role of CD8+ Cell-Associated Cytokines in Natural Immunity of Baboons against Immunodeficiency Virus Infection / Amanda Rae Mannino (UT Health San Antonio, US)

P059 - Investigation of the mechanisms behind anti-viral effect of Nrf2 activation with 4-octyl-itaconate (4OI) / Angela Anna Paula Victoria Herengt (Aarhus University, DK)

P060 - Defining the maternal decidua response to acute and persistent Zika virus infection during first-trimester pregnancy / Julie Eggenberger (University of Washington, US)

P061 - A TLR7 antagonist controls interferon-dependent and -independent immunopathology in severe influenza / Katja Finsterbusch (The Francis Crick Institute, UK)

P062 - RNA structure modulates sensing of Alphavirus RNA by the intracellular innate immune system / Sarah Hickson (University of Washington, US)

P063 - CRISPR Screening Reveals a Limited Set of Genes with Antiviral Activity Against Venezuelan Equine Encephalitis Virus / Matthew B McDougal (UT Southwestern Medical Center, US)

P064 - Genetic variation in the RSV fusion protein controls strain-dependent increases in pro-inflammatory cytokine production driving the development of a pathogenic Th17 response and severe disease / Kody Waldstein (University of Iowa, US)

P065 - Influenza virus replication in cardiomyocytes directly drives cardiac dysfunction and fibrosis / Jacob Yount (The Ohio State University, US)
P066 - Influenza A virus induces LDHA expression and Lactate formation to inhibit type I IFN and promote replication in primary human airway epithelium / Jacob Thyrsted (Aarhus University, DK)

P067 - The glutamate-cystine antiporter SLC7A11 plays a role in anti-viral immunity / Julia Blay Cadanet (Aarhus University, DK)

P068 - Characterization of chemically dissimilar agonists of the STING protein as vaccine adjuvants / Dylan T Boehm (Oregon Health and Science University, US)

P069 - Type I IFN and plasmacytoid DC at the crossroad of antiviral and humoral response directed against tick-borne encephalitis virus / Daniela Ricci (Istituto Superiore di Sanità, IT)

P070 - Cooperative Effects of RIG-I-Like Receptor Signaling and IRF1 on DNA Damage-Induced Cell Death / David Yves Zander (German Cancer Research Center (DKFZ), DE)

P071 - Human STING Knockin Mice: A Model for Characterization of Clinically Relevant STING Ligands / Victor DeFilippis (Oregon Health and Science University, US)

P072 - Establishing NSP15 as an immune regulator across Coronavirus genera / Neel Salukhe (University of Washington, US)

P073 - Transcriptional reprograming by viral infection defines unique Interferon-dependent roles for infected and bystander inflammatory monocytes in orchestrating the innate immune response / Carolina R Melo-Silva (Thomas Jefferson University, US)

P074 - The Elongator complex regulates TLR4 and type I interferon gene induction responses / Jamie Murphy (Trinity College Dublin, IE)

P075 - Identifying enhancers of innate immune signaling as potential antivirals active against emerging viruses / Ghizlane Maarifi (CNRS, FR)

P076 - New Mechanism to Balance the Production of Type I Interferon and Proinflammatory Cytokines in Response to Viral Infections / Hector Huerga Encabo (The Francis Crick Institute, UK)

P077 - Differential Effects of Conventional Dendritic Cell Subsets on enhancing T-independent B cell Response / Ya-Ru Yu (National Taiwan University College of Medicine Graduate Institute of Immunology, TW)

P078 - The Effect of Probiotic Bifidobacterium lactis BI-04 on Host Antiviral Responses in vitro / Sanna M Mäkelä (IFF, FI)

P079 - Inhibition of Sting Signalling with Flavonoid Compounds / Tomalika Rahmat Ullah (Hudson Institute of Medical Research, AU)


P081 - Immune Modulation of HCMV Infected moDC by Birch Pollen Extract Treatment / Zeinab Fneish (Twincore, DE)

P082 - Proximity labelling to uncover novel factors in antiviral type I interferon signalling / Samira Nadine Schiefer (University of Zurich, CH)

P083 - Inhibition of early stage HCMV infection by designing small molecule inhibitors targeting the HCMV UL35-UL82 complex / Ramya Ramani (Helmholtz Centre for Infection Research, DE)
P084 - Cytokine response to rubella virus (RV) in 10 healthy university aged volunteers with RV-IgG titers >10 IU/mL in Alberta, Canada / Amy Boucher (University of Alberta, CA)

P085 - The NRF2 driven gene responsible for decreasing the type I interferon response / Jacob Storgaard (Aarhus university, DK)

03. Systems approaches in cytokine control

P086 - Unravelling the InterferonScape: Insight into STAT and IRF Regulated IFN Stimulated Genes, Pathways and Networks / Shamith Samarajiwa (University of Cambridge, UK)

P087 - Abnormal cytokine levels in obese mice induce dysfunctional virus-specific immune responses / Elizabeth Geerling (Saint Louis University, US)

P088 - Regulation of Inflammatory NF-kB Target Gene Activation by Jak-STAT Signaling / Bikash Mishra (Weill Cornell Medicine, US)

P089 - The chromatin reader SP140 regulates intestinal innate immune responses to microbes / Isabella Fraschilla (Massachusetts General Hospital, US)

P090 - Next Generation Sequencing Methods Open New Insights into Disease Heterogeneity in Synovitis / Stuart Taliesin Owain Hughes (Cardiff University, UK)

P091 - Higher-order chromatin architecture in control of cytokine production / Han-Yu Shih (NIAMS, NIH, US)

P092 - A knowledge-driven approach towards a deeper understanding of HBV vaccination non-respondiveness / Annett Ziegler (Twincore Gmbh, DE)

P093 - Smoking affects innate and adaptive induced cytokine responses with persistent effects on adaptive immunity / Darragh Duffy (Institut Pasteur, FR)

P094 - Machine Learning and Statistical Methods for Classification of Risk and Gender specific Pattern Identification of Plasma Cytokines for Coronary Artery Disease / Seema Singh Saharan (UC Berkeley Extension, US)

04. Cytokine release syndromes & interferonopathies

P095 - CALHM6: A novel synaptic protein important for the innate instruction of natural killer cell activation during infection / Sara Danielli (Kennedy Institute of Rheumatology, UK)

P096 - New Mechanisms of Gasdermin D Pore Formation And Interleukin-1 Release / Shiyu Xia (Harvard Medical School and Boston Children’s Hospital, US)

P097 - Determining Long Noncoding RNA GAPLINC’s role in inflammation and Modulating Endotoxic Shock / Diana Escalona (UC Santa Cruz, US)

P098 - The superantigens SpeC and TSST-1 specifically activate TRBV12-3/12-4+ memory T cells / James E McLaren (Cardiff University, UK)

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P099 - Deciphering a role for IL-6-trans-signalling in a syngeneic mouse model of cytokine release syndrome induced by CD19-CAR T cells / Lise Nouveau (Light Chain Bioscience - Novimmune SA, CH)

P100 - Hypoxia, expression and correlation of HIF-a and cytokine MIF and their probable role in mechanism of Cytokine Release Syndrome in virus infection (Covid19) / Paraskevi Rapti (Endocrinologist, GR)

P101 - Endothelial cells mediate the pathogenesis of cerebral interferonopathies / Barney Viengkhou (The University of Sydney, AU)

P102 - Widespread protein phosphorylation is a novel mechanism for type I interferons to mediate cellular responses / Markus Johannes Hofer (University of Sydney, AU)

P103 - Partial recessive USP18 deficiency underlies infection and inflammation / Marta Martin-Fernandez (Icahn School of Medicine At Mount Sinai, US)

P104 - Cancer cells produce interferon-β for survival through the cGAS-STING pathway / Hyeon Joo Cheon (Cleveland Clinic, US)

05. Determinants of cell fate

P106 - Follicular helper T cells are critically regulated by ferroptosis / Di Yu (The University of Queensland, AU)

P107 - Temporal dissection of the T cell-intrinsic factors that maintain T follicular helper cell identity and germinal centers / Dirk Baumjohann (University Hospital Bonn, DE)

P108 - Lipid nanoparticles are key immunostimulatory components of messenger RNA vaccines eliciting potent germinal center responses via induction of IL-6 / Michela Locci (University of Pennsylvania, US)

P109 - Metabolic control of inflammatory cell death / Charles Lee Evavold (Boston Children’s Hospital, US)

P110 - The fate of Th17 cells in periodontitis / Flora Ann Mcclure (University of Manchester, UK)

P112 - Genetic programming M2-polarization locked repair macrophages / Shyam Sushama Jose (University of Edinburgh, UK)

P113 - Priming is a Fundamental Mechanism of Inflammasome Regulation in Myeloid Cells / Chloe M. McKee (Wellcome-Wolfson Institute for Experimental Medicine, UK)

06. Targeted cytokine therapies

P114 - AXL inhibition enhances Type 1 interferon (IFN) response and potentiates chemo-immunotherapy / Sushil Dhakal (University of Bergen, NO)

P115 - Histamine analogue Clobenpropit inhibits inflammatory cytokine production by monocytes from arthritic patients and controls disease progression in collagen-induced arthritis mouse model / Nassima Bekaddour (Université de Paris, FR)

Pfizer Junior Investigator Award Winner:

P116 - FANCC in control of LPS induced septic shock and bone marrow failure / Swarna Beesetti (St Jude Childrens Research Hospital, US)

All sessions are in Cardiff, UK, Local Time (GMT+1)
P117 - Antiviral Potential of the Antimicrobial Drug Atovaquone against SARS-CoV-2 and Emerging Variants of Concern / Madalina Elena Carter-Timotie (Aarhus University, DK)

P118 - Distinct Interferon Signature and Novel Biomarkers of Secondary Progressive Multiple Sclerosis / Anthony T Reder (Univ of Chicago, US)

P119 - IRF5 Inhibition Potentially Alleviates Osteoarthritis (OA) Severity / Su Song (Feinstein Institute for Medical Research, US)

P120 - Optimizing biological therapy for bone and cartilage repair / Dan Li (The Feinstein Institute for Medical Research, US)

P121 - Prolonged IFN signatures by Plegridy compared to Avonex in Multiple Sclerosis (MS) / Xuan Feng (Univ of Chicago, US)

P122 - Reporter nanoplatform for real-time monitoring of inflammasome activity / Dipika Nandi (University of Massachusetts, Amherst, US)


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 / Thirmula-Devi Kanneganti (St Judes, US)

17:35 O09 - Innate immunomodulation by virally-encoded cytokine response modifiers as a strategy to mitigate virus-induced cytokine release syndrome / E. Taylor Stone (Saint Louis University, US)

17:45 O10 - hMDA5 R822Q transgenic mice with systemic inflammation and lethal cytokine response / Francine Lianne Castañeda Emralino (Kyoto University, JP)

17:55 Q&A

16:45 - 18:15
Symposium 6: Single cell analysis of inflammatory outcomes

16:50 Visualising single cell responses to infection and inflammation / 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 O11 - Genotype and Th2 cytokines control pleural cavity myeloid cell differentiation during helminth infection/ Conor M Finlay (Trinity College Dublin, IE)

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17:45  O12 - Multiomics analysis identifies an autoimmune profile and superantigen-like T cell expansion in multisystem inflammatory syndrome in children / Rebecca A Porritt (Cedars Sinai Medical Center, US)

17:55  Q&A

18:30 - 19:30  
**Sponsored Session E: BioLegend Industry Symposium**

18:30  Differential interferon-α subtype immune signatures suppress SARS-CoV-2 infection / Kathrin Sutter (University Hospital Essen, DE)

18:30 - 19:30  
**Sponsored Session F: UCB**

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**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 / Noriko Toyama-Sorimachi (National Center for Global Health and Medicine, JP)

08:50  IRF5 as a target of treatment for systemic lupus erythematosus / Tomohiko Tamura (Yokohama City University Graduate School of Medicine, Japan)

09:05  Type I IFN in the pathogenesis of ALS, due to release of mtDNA activating cGAS/STING / Seth L. Masters (The Walter and Eliza Hall Institute of Medical Research, AU)

09:20  O13 - Young Investigator Award - A diamidobenzimidazole STING agonist protects against SARS-CoV-2 infection / Fiachra Humphries (Umass Medical School, US)

09:30  O13b - Interferon-lambda Protection in a Murine Model of SARS-CoV-2 Infection / Nancy C Reich (Stony Brook University, US)

09:40  Q&A

08:30 - 10:00  
**Symposium 8: Cytokines in pain and psychoneuroimmunology**

08:35  Importance of Interleukin-6 and Il-6st/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  O14 - Type I interferon propels memory impairment associated with Alzheimer’s disease / Wei Cao (Baylor College of Medicine, US)

09:30  O15 - IL-23 in arthritic and inflammatory pain development / Kevin Ming-Chin Lee (The University of Melbourne, AU)

09:40  Q&A

10:00 - 11:45  
**i-Poster Networking Session 2**

**07. Cytokines in cellular metabolism and immune homeostasis**

P124 - Metformin inhibition of ATP-dependent mtDNA synthesis abrogates NLRP3 inflammasome activation and pulmonary inflammation / Elsa Sanchez-Lopez (University of California San Diego, US)

P125 - Interferon-gamma (IFNγ) Activates Robust Cell-Intrinsic Defense Against Lysosome-Adapted Pathogens: Lessons from Coxiella burnetii / Sandhya Ganesan (Yale University School of Medicine, US)

P126 - Citraconate inhibits ACOD1 (IRG1) catalysis, reduces interferon responses and oxidative stress, and modulates inflammation and cell metabolism / Fangfang Chen (TWINCORE Centre for Experimental and Clinical Infection Research, DE)

P128 - Regulation of Type I Interferon Responses in Human Phagocytes by the Long Non-coding RNA LUCAT1 / Tim Vierbuchen (UMass Medical School, US)

P129 - 14-3-3zeta- A Novel Regulator of IL-17A Signaling / Ritu Chakravarti (University of Toledo, US)

P130 - Interferon Gamma Regulates NAD+ Metabolism / Katelyn Mccann (NIH/NIAID, US)

P131 - Engineering Synthetic Interferon Receptors to Understand How Type I and III Interferon Signaling Differences are Encoded / Emily V Mesev (Princeton University, US)

P132 - An IFNbeta-specific tolerogenic signal controls lung mucosal tolerance / Lei Jin (University of Florida, US)

P133 - TBK1 and IKKe Act Like an OFF Switch to Limit NLRP3 Inflammasome Pathway Activation / Fabian Alexander Fischer (Kennedy Institute of Rheumatology, University of Oxford, UK)

P134 - TCF-4 negatively regulates IL-17C in human keratinocytes and in a mouse model of psoriasis / Nicole L. Ward (Case Western Reserve University, US)

P135 - Novel mechanisms of TLR/IL-1R-dependent metabolic pathways in obesity / Xiaoxia Li (Cleveland Clinic, US)

P136 - IκB-ζ dependent fibroblastic reticular cell expansion shapes lymph node angiogenesis and immune response / Dongwen Wu (University of Pittsburgh, US)

P137 - Regulation of IL-36 receptor driven skin inflammation in psoriasis / Yasmina Esther Hernandez-Santana (Trinity College Dublin, IE)

P138 - TNF-a induces glycolytic shift in Fibroblast like Synoviocytes / Nadine Biesemann (Sanofi, DE)
P139 - Heparan sulfate modulates the signal strength of IL-21 to regulate germinal centre selection / Zhian Chen (University of Queensland Diamantina Institute, AU)

P140 - Interleukin-32: Towards the structural and molecular characterization of a multifunctional cytokine. / Delaney Amati Smith (Ghent University, BE)

P141 - Unphosphorylated STAT1 impacts cellular compartmentalization of phospho-STAT1 upon cytokine stimulation / Priyanka Rajeev Menon (Georg-August-Universität Göttingen, DE)

P142 - Crucial role of IL-6 in thrombus resolution in DVT model mouse via induction of proteolytic enzymes / Mizuho Nosaka (Wakayama Medical University, JP)

P143 - The role of cytokines in thermogenic adaptation / Daniel Vašek (Faculty of Science, Charles University, CZ)

P144 - Interleukin-2 Signaling Is Controlled by Adam10- And Adam17-Mediated Cleavage of The Interleukin-2 Receptor Alpha / Sophia Kirschke (Otto-von-Guericke-University Magdeburg, DE)

P145 - Impaired IL-6 production upon LPS stimulation in Fatty Acid Oxidation Disorders / Krishna Sundar Twayana (Aarhus University, DK)

P146 - Structure and mechanism of cytokine-mediated activation of ALK and LTK receptor tyrosine kinases / Savvas Nicos Savvides (Ghent University, BE)

P147 - Salt generates anti-inflammatory Th17 cells but amplifies their pathogenicity in pro-inflammatory cytokine microenvironments / Julia Matthias (Infection Immunology, DE)

P148 - Deficiency of IL-38 leads to impairment of regulatory T cell homeostasis / Arnaud Huard (Université de Genève, CH)

P149 - Proteolytic Generation of the Soluble Interleukin-6 Receptor by Rhomboid Proteases / Tim Schumertl (Otto-von-Guericke-University Magdeburg, DE)

P150 - Intracytoplasmic expression of IL-6 and IL-17A in circulating CD4+ T cells are strongly associated with and predict disease activity in rheumatoid arthritis: A case-control study in GH / Benjamin Amoani (University of Cape Coast, GH)

P151 - Poly(dA:dT) activates the NLRP1 inflammasome in unprimed human keratinocytes / Jeffrey Zhou (University Of Massachusetts Medical School, US)

P152 - Decreased the colony stimulating factor 1 production causes loss of hepatic macrophage pool in chronic liver disease patients / Dhananjay Kumar (Institute of Liver and Biliary sciences (ILBS), IN)

P154 - Evolution of IL-17 family of cytokines and receptors: possible role in development of eutherian pregnancy / Federica Giangrazi (Trinity College Dublin, IE)

P155 - Systematic Investigation of Cytokine Signaling Activity at the Tissue and Single-Cell Level / Peng Jiang (National Cancer Institute, US)

08. Designer cytokines and cytokine immunotherapy
P156 - Cellular and Molecular Determinants of Cancer Immune Equilibrium Induced by IL-12 Virotherapy / Michael Walsh (Harvard Medical School, US)

P157 - The parasite cytokine mimic Hp-TGM fully replicates the regulatory effects of TGF-β on murine T cells / Madeleine White (University of Glasgow, UK)

P158 - Multivalency enhances the specificity of Fc-cytokine fusions / Aaron S Meyer (University of California, US)

P159 - Elevated IFN-γ in Vitiligo Patient Skin Blisters: Potential Utility of Targeting IFN-γ for Therapy / Chau Yee Ng (Chang Gung Memorial Hospital, TW)

P160 - Low-dose IL-2 ameliorates osteoporosis by promoting ILC2-mediated inhibition of osteoclastogenesis / Pengcheng Zhou (The Australian National University, AU)

P161 - A Single Aromatic Residue in sgp130Fc Allows the Discrimination between Interleukin-6 (IL-6) and IL-11 trans-signaling / Christoph Garbers (Otto-von-Guericke University Magdeburg, DE)

P162 - Spatiotemporal Dynamics of Class I/II Cytokine Receptors Assembly and Signaling / Junel Sotolongo Bellon (University of Osnabrück, DE)

P164 - Why bat itch: structural elucidation of bat Interleukin-31 / Yehudi C.M. Bloch (Ghent University, BE)

P165 - Prevention of CaCl2-induced aortic inflammation and subsequent aneurysm formation by CCL3 / Yuko Ishida (Wakayama Med Univ, JP)

P167 - Targeting CXCR3 chemokines as a novel therapeutic strategy to suppress pancreatic tumor progression through subset T cells / Xiaobao Yang (Ruijin Hospital, CN)

P168 - Selectivity and stability engineering of IL2 muteins for induction of selective Treg responses / Gamze Camdere (Amgen, US)

P169 - Family of helminth-derived TGF-β mimics provide key insights to Treg and innate immune cell activation / Kyle Thomas Cunningham (University of Glasgow, UK)

P170 - Engineering Geographically Precise Activation of Cytokines to Achieve Improved Therapeutic Benefit in Oncology and Beyond / Rónán O’Hagan (Xilio Therapeutics Inc., US)

P171 - Antibodies engineered to bias delivery of IL-2 to pro-inflammatory cells and promote anti-tumor activity / Elissa Kathleen Leonard (Johns Hopkins University, US)

09. Understanding complexities of immune mediated diseases

P172 - Loss of IL-17A/F-mediated control of gut microbiota confers resistance to CNS autoimmunity / Tommy Regen (Univ Med Center Mainz, DE)

P173 - IRF5 plays an important role in the generation of antibody secreting cells in a cell type- and stimuli-dependent manner / Bharati Matta (The Feinstein Institutes for Medical Research, US)
P174 - Virus-induced IFN signaling activation and ISG expression in pancreatic beta cells is regulated by a lncRNA associated with type 1 diabetes / Izortze Santin (University of the Basque Country, ES)

P175 - Inflammatory IL-17A-secreting γδ T cell are pathogenic in central nervous system autoimmunity by resisting the regulatory mechanisms that control Th17 cells / Charlotte M Leane (Trinity College Dublin, IE)

P176 - Type I Interferon signaling complex is required for Oncostatin-M driven inflammatory responses / Carl D Richards (McMaster University, CA)

P177 - Gasdermin D blockers: Managing Coagulation and Sepsis / Rahul Gupta (, US)

P178 - IL-4/IL-13 blockade is associated with psoriatic disease- evidence from the clinic and in vitro / Charlie Bridgewood (University of Leeds, UK)

P179 - Renal autoimmune glomerulonephritis (AGN) is driven by interconnected post-transcriptional circuits activated by IL-17-induced signal transduction / Sarah Gaffen (University of Pittsburgh, US)

P180 - Antigen presenting group 3 innate lymphoid cells orchestrate neuroinflammation / John Benji Grigg (Weill Cornell Graduate School of Medical Sciences, US)

P181 - Anakinra: for treating DOCK8-/-,WAS and allergic patients / Rahul Gupta (, US)

P182 - Protection against severe lower respiratory infections in infants by Innate Immune Training: Mechanism-of-action studies / Niamh Troy (Telethon Kids Institute, AU)

P183 - IL-1β mediates Th17 steroid resistance in inflammatory CNS demyelinating disease / William Miller-Little (Cleveland Clinic Foundation Lerner Research Institute, US)

P184 - Maternal Immune Activation and Schizophrenia-like Behavior: Role of Toll-Like Receptor and Inflammasome Pathways / Pinku Mani Talukdar (National Institute of Mental Health and Neurosciences (NIMHANS), IN)

P185 - Determining HnRNP-A2/B1’s role in inflammation and Rheumatoid Arthritis pathology / Mays Mohammed Salih (UC Santa Cruz, US)

P186 - Anti-Interleukin-23 Autoantibodies: The Magician’s Twin / Aristine Cheng (National Institutes of Health, US)

P187 - Type I Interferon Potentiates Seeded Aggregation of Tau / Sophie Sanford (University of Cambridge, UK)

P188 - Cytokine storm susceptibility factors IL-18 and cytotoxic impairment converge on pathologic CD8 T-cell hyperactivation / Emily Landy (University of Pittsburgh, US)

P189 - Plectin activation: the cue to NINJ1 mediated plasma membrane rupture? / Rahul Gupta (, US)

P190 - Interleukin-20 Exacerbates Acute Hepatitis and Bacterial Infection By Downregulating Iκbζ, Target Genes In Hepatocytes / Yong He (National Institutes of Health, US)

P191 - Mechanisms of late Germinal Center Formation and Th1/Tfh hybrid (Ifng+II21+) T Cell function in Plasmodium chabaudi Infection / Lucinda Puebla (University of Texas Medical Branch, US)
P192 - Regulation of cytokine release by myeloid cell autophagy in chronic and acute models of inflammation / James Harris (Monash University, AU)

P193 - Inflammatory Cytokines and Neurocognitive Function in Bipolar Patients across Mood Episodes / Sandra Ivette Ralat (University Of Puerto Rico, PR)

P194 - Interleukin-11 is a Novel Player in Osteoarthritis / Juliane Lokau (Otto-von-Guericke University Magdeburg, DE)

P195 - Vascularized ‘Synovium-on-a-Chip’ - a Novel and Adaptable Model for Dissecting Inflammatory Biology Underlying Rheumatoid Arthritis / Theresa Wampler Muskardin (NYU Grossman School of Medicine, US)

P196 - Blocking common gamma chain cytokine signaling ameliorates T cell-mediated disease / Audrey Le Floc’h (Regeneron, US)

P197 - Characterizing COVID-19, Castleman’s Disease and Rheumatoid Arthritis Based on Patients’ Serum Cytokine and Chemokine Patterns Before and After Tocilizumab Treatment Using Partial Least Squares Regression 2 Analysis / Kazuko Uno (Louis Pasteur Center for Medical Research, JP)

P198 - Detection of CLCF1 in immune cells by flow cytometry / Veronique Laplante (Université de Montréal, CA)

P199 - Non-coding RNA variants in the development of inflammation / Aínara Castellanos-Rubio (University of the Basque Country, ES)

P200 - Blocking NETosis and restoring Treg function: a better life with lupus? / Rahul Gupta (, US)

P201 - TREML4: a druggable target for Sepsis and Lupus / Rahul Gupta (, US)

P202 - Concentration changes of serum cytokines in the pathogenesis of rheumatoid arthritis / Nino Kikodze (Tbilisi State Medical University, GE)

P203 - Synergy Between TSLP and IL-13 Enhances Type 2 Inflammation / Sarah Martinez Roth (Sanofi, US)

10. Determinants of disease heterogeneity

P204 - Analysis of Mutations Within the Interleukin-11 Receptor Associated with Craniosynostosis / Birte Kespo (University of Magdeburg, DE)

P205 - Off-target effects of BCG vaccination on cytokine responses to unrelated pathogens. / Nicole L Messina (Murdoch Children’s Research Institute, AU)

P206 - Interleukin-6 Trans-Signaling Is Associated in Neurological Involvement During Behçet’s Disease / Houda Belguendouz (LBCM, FSB, USTHB, DZ)

P207 - Low affinity CD8+ T cells produce interferon gamma and IL-10 during experimental cerebral malaria / Elizabeth Motunrayo Kolawole (University of Utah, US)

P208 - Inhibition of Calmodulin-dependent immune signalling by Shigella sonnei / Joe Wanford (Kings College London, UK)
P209 - Cytokine profiles in patients with liver diseases: effects of disease stage and the PNPLA3I148M variant allele on circulating cytokines in NAFLD and HCC patients / Mélanie Kirchmeyer (University of Luxembourg, LU)

P210 - IL-22 as a Pathogenic Driver of Anemia in Myelodysplastic Syndromes (MDS) / Mahesh Raundhal (Dana-Farber Cancer Institute, US)

P211 - Hepatic Necroinflammation Identifies Murine Interleukin-22 as Sex-related Cytokine / Hendrik Stülb (University Hospital Goethe University Frankfurt, DE)

11. Cancer and immunology, happy neighbours?

P212 - STAT2 inhibits STING-dependent signaling and hinders the DNA-damage response in lung cancer cells / Yuxin Wang (Cleveland Clinic Foundation, US)

P213 - The role of tumor-derived and microenvironment IL-1 alpha in breast cancer progression / Mathumathi Krishnamohan (Ben Gurion University of the Negev, IL)

P214 - Mutagenicity of an in vitro chemotherapy-induced cytokine storm / Harshini Shanika Hewagama Asurappulige (University of the West of England, Bristol, UK)

P215 - The IL-7 pathway and its partners in T-ALL / Scott Durum (National Institutes of Health, US)

P216 - A Unique Signaling Feedback Circuit Defines Interferon Responses in Myeloproliferative Neoplasms / Diana Saleiro (Northwestern University, US)

P217 - An investigation into the anti-parallel dimer of STAT3 and its role in cytokine signal transduction / Priyanka Rajeev Menon (Georg-August-Universität Göttingen, DE)

P219 - Steady IFNα therapy prevents the development of colorectal cancer liver metastases through the activation of liver sinusoidal endothelial cells / Lorena Maria Ferreira (IRCCS San Raffaele Scientific Institute, IT)

P220 - Dual Targeting of Multiple Myeloma and its Malignant Niche via Selective Antisense Oligonucleotide Inhibition of Interferon Regulatory Factor-4 / Leslie Crews (University of California, US)

P221 - Overcoming resistance to IFNα therapy in the liver: IFNAR1 stabilization in the hepatic metastases microenvironment / Andrea Monestiroli (IRCCS San Raffaele Scientific Institute, IT)

P222 - The Innate Immune Response during Initiation of Mesothelioma-like Inflammation in the Pleural Space / Nadia Iqbal (Lancaster University, UK)

P223 - Understanding OSM in estrogen receptor-positive (ER+) versus ER- breast cancer / Cheryl L Jorcyk (Boise State University, US)

P224 - Anti-CD123 Chimeric Antigen Receptor Natural Killer Cell Therapy to Treat Acute Myeloid Leukemia / Monika Kizerwetter (Johns Hopkins University, US)

P225 - EGFR signaling induces autocrine IL-6 trans-signaling via iRhom2-enhanced ADAM17 activity / Neele Schumacher (Kiel University, DE)

All sessions are in Cardiff, UK, Local Time (GMT+1)
P226 - Interleukin-8 and Interferon-gamma predict early response to azacytidine in patients with high-risk myelodysplastic syndrome / Tomas Kupsa (University Hospital and Charles University, CZ)

P229 - Serum Levels of Soluble Cytokine Receptors in Adult Acute Lymphoblastic Leukemia and Their Association with Prognostic Factors and Survival / Tomas Kupsa (University of Defence, Faculty of Military Health Sciences, CZ)

P229b - Tim-3 restrains anti-tumour immunity by regulating Inflammasome activation in DCs / Karen Dixon (Harvard Medical School, US)

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12. Cytokine involvement in COVID-19

P231 - Temporal Dynamics of Anti-Type 1 Interferon Autoantibodies in Acute COVID-19 Patients / Elana Shaw (NIAID, US)

P232 - A primed pattern recognition system in airway epithelial cells generates robust innate immune responses to SARS-CoV2 infection in vitro and in vivo / Marco Binder (German Cancer Research Center (DKFZ), DE)

P233 - Differential Activation of the Inflammasome by Circulating Variants of SARS-CoV-2 / Kimberly Rousseau (Johns Hopkins University School of Medicine, US)

P234 - Differential plasmacytoid dendritic cell phenotype and type I Interferon response: towards a more nuanced understanding of asymptomatic and severe COVID-19 infection / Eliana Marina Coccia (Istituto Superiore di Sanità, IT)

P235 - SARS-CoV2 is efficiently recognized by pattern recognition receptors in IFN primed epithelial cells / Vladimir Goncalves Magalhaes (German Cancer Research Center - DKFZ, DE)

P236 - Effects of Pegylated Interferon-lambda treatment on SARS-CoV-2-specific adaptive immune responses in mild COVID-19 / Deanna M Santer (University of Manitoba, CA)

P237 - NRF2 and resistance to SARS-CoV2 infection / Christian Kanstrup Holm (Aarhus University, DK)

P238 - Sensing of SARS-CoV-2 infected cells by plasmacytoid dendritic cells promotes a local antiviral response / Margarida Ribeiro (CIRI - ENS de Lyon, FR)

P239 - SARS-CoV2-related changes of circulating cytokines in Luxemburgish patients of the Predi-COVID cohort / Mélanie Kirchmeyer (University of Luxembourg, LU)

P240 - Differential interferon-α subtype immune signatures suppress SARS-CoV-2 infection / Stephanie Pfänder (Ruhr University Bochum, DE)

P241 - Defects in interferon signaling cause increased and prolonged SARS-CoV-2 replication in adult and enhanced disease progression in aged mice / Daniel Schnepf (Medical Center University of Freiburg, DE)

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11:45 - 12:45

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

11:45 Industry/Academic collaborations - Busting some myths / Caroline Barelle (University of Aberdeen, UK)

12:00 TBD / Nessa Carey (Independent Scientist, UK)

12:15 TBD / William Kilgallon (Danube University Krems, AT)

All sessions are in Cardiff, UK, Local Time (GMT+1)
11:45 - 12:45
Sponsored Session H: 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  Biochemical and molecular characteristics of antibodies in vaccine-induced immune thrombotic thrombocytopenia / Ishac Nazy (McMaster Centre for Transfusion Research, CA)

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  Regulators of IL-17 signaling: Determinants of pathology and heterogeneity in chronic kidney diseases / Partha Biswas (University of Pittsburgh, USA)

16:05  O16 - microRNA regulation of disease heterogeneity in inflammatory arthritis / Robert Hywel Jenkins (Cardiff University, UK)

16:15  O17 - Young Investigator Award - Maternal IL-6 Promotes Pre-birth Tissue-Specific Immune Education / Ai Ing Lim (NIAHD/NIH, US)

All sessions are in Cardiff, UK, Local Time (GMT+1)
16:25 Q&A

15:15 - 16:45
Symposium 10: Cytokines in allergic reactions (Sponsored by an unrestricted educational grant from Regeneron)

15:20 Cytokines in Type 2 inflammation / 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 O18 - Molecular regulation of the itch cytokine, IL-31, and its contribution to allergic inflammation / Priscila Muñoz Sandoval (University of California, US)

16:15 O19 - Young Investigator Award - IL-4 Signaling Regulates the Fate of B Cell Differentiation Via Germinal Center Positioning / Keke C Fairfax (University of Utah, US)

16:25 Q&A

16:45 - 18:15
Symposium 11: Cancer and immunology, happy neighbours?

16:50 Unveiling the pro-tumourigenic role of pattern recognition receptors in gastrointestinal cancers / Brendan Jenkins (Hudson Institute of Medical Research, AU)

17:05 STAT3: From fundamental discoveries to clinical translation / Hua Yu (City of Hope, USA)

17:20 AIDS and cancer: Direct and indirect effects of viral proteins affecting the kaposi sarcoma immune environment / Ethel Cesarman (Weill Cornell Medicine, USA)

17:35 O20 - Extracellular vesicles purified from a specific Lactobacillus strain induce dendritic cell-mediated IL-12 production and enhance anticancer immune responses / Jihong Bae (Korea Advanced Institute of Science and Technology, KR)

17:45 O21 - A negative feedback loop driven by IFNγ signalling in cytotoxic T cells restricts anti-tumour responses by inhibiting de novo priming / Audrey Gerard (University of Oxford, UK)

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 O22 - Characterization of 2’-O-methyl oligonucleotides that potently inhibit cGAS and TLR9 DNA sensing / Michael Paul Gantier (Hudson Institute of Medical Research, AU)

17:45 O23 - Treatment of the cellular phenotype of ISG15 deficiency with itaconic acid and derivatives / Fakhar Waqas (Medizinische Hochschule Hannover, DE)

17:55 Q&A


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 Tissue immunity in the urinary tract / Menna Clatworthy (University of Cambridge, UK)

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

09:20 O24 - Young Investigator Award - Extracellular matrix components directly facilitate chemokine (CXCL4/PF4) mediated leukocyte recruitment, independent of chemokine receptors / Douglas Philip Dyer (University of Manchester, UK)

09:30 O25 - Young Investigator Award - Interleukin-17 governs hypoxic adaptation of injured epithelium / Shruti Naik (NYU, US)

09:40 Q&A

08:30 - 10:00
Symposium 14: Combinatorial drug targeting in immune disease

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

08:50 Antibody-cytokine fusions: From the bench to Phase III clinical trials / Dario Neri (Philogen, CH)

09:05 Intratumoral administration and retention of immune agonists to maximize therapeutic index / Dane Wittrup (MIT, US)

09:20 O26 - Engineering Bispecific Antibodies to Synergistically Inhibit Tumor Metastasis / Huilin Yang (Johns Hopkins University, US)

09:30 O27 - Young Investigator Award - Harnessing the power of NLRP3 – pharmacological strategies for inhibition and activation of the inflammasome / Rebecca C Coll (Queen’s University Belfast, UK)

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  Identifying functional autoantibodies that target the human exoproteome / Aaron Ring (Yale University, USA)

11:43  Q&A

12:00 - 12:15
Coffee break and visit of the exhibition

12:15 - 13:15
Sponsored Session I: 10X Genomics

12:45  High resolution characterization of the immune system with single cell immune profiling / Rae Dabelic (10XGenomics, NL)

12:15 - 13:15
Sponsored Session J: The Learned Society of Wales - Considering alter career paths in research

12:15  Careers in scientific publishing / Yvonne Bordon (Nature Reviews Immunology, UK)

12:30  Patent attorney - Career path / Helen Henderson (Withers and Rogers Patent Law, UK)

12:45  Discovering and developing novel therapeutics - reflections on building a career in industry / Edith Hessel (Eligo Bioscience, FR)

13:00  Finding your niche (outside the lab) / Anna Kinsey (Medical Research Council, UK)

13:15 - 14:45
Symposium 15: Disease stratification and biological therapies

13:20  A new pathway in inflammation and pain / John Hamilton (University of Melbourne, AU)

13:35  Reprogramming interleukin-2 as a targeted immunotherapeutic / Jamie Spangler (Johns Hopkins University, USA)

13:50  Defining clinical and treatment response endotypes in RA: Towards precision medicine / Costantino Pitzalis (Queen Mary University of London, UK)

14:05  Cellular and immunological profiling of salivary gland tertiary lymphoid structures / Francesca Barone (University of Birmingham, UK)

14:20  Q&A

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<td><strong>Symposium 16: Determinants of cell fate</strong></td>
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<td>13:20</td>
<td>Adaptive immunity and immune memory to SARS-CoV2 and COVID-19 / Shane Crotty (<em>La Jolla Institute of Allergy and Immunology, USA</em>)</td>
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<td>13:35</td>
<td>IL-1 family members and resistance to infection / Chris Hunter (<em>University of Pennsylvania, USA</em>)</td>
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<td>13:50</td>
<td>IL-22 blockade as a therapeutic modality for anemias / Laurie Glimcher (<em>Harvard Medical School, USA</em>)</td>
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<td>14:05</td>
<td>Jakinibs and beyond / John O’Shea (<em>NIH, USA</em>)</td>
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