**B Cells and Autoimmunity**

**THURSDAY, FEBRUARY 8**

**Arrival and Registration**

**FRIDAY, FEBRUARY 9**

**Welcome and Keynote Address**

*Kate A. Fitzgerald*, University of Massachusetts Medical School, USA

*Nucleic Acid Sensors and Autoimmunity Development*

**Autoinflammatory Diseases**

*Ivona Aksentijevich*, NHGRI, National Institutes of Health, USA

*Disorders of Ubiquitination and Autoinflammation*

*Peter Grayson*, NIAMS, National Institutes of Health, USA

*Somatic Mutations and Autoimmunity/Autoinflammation: VEXAS Syndrome*

*Seth L. Masters*, Walter and Eliza Hall Institute, Australia

*Disruptions of Organellar Homeostasis and Autoinflammation*

*David B. Beck*, NYU, USA

*Short Talk: UBA1-dependent Inflammation is Mediated by Proteotoxic Stress*

**Career Roundtable**

**Innate Immune Dysregulation and Autoimmunity**

*Mariana J. Kaplan*, NIAMS, National Institutes of Health, USA

*Neutrophils in the Initiation and Perpetuation of Systemic Autoimmunity*

*V. Michael Holers*, University of Colorado, Denver, USA

*Preclinical Pathogenesis and Prevention of Rheumatoid Arthritis*

*Chrysothemis Brown*, Sloan Kettering Institute, USA

*Regulation of Immune Tolerance by RORγt+ Antigen-Presenting Cells*

*Carlos Donado*, Harvard Medical School, USA

*Short Talk: Granzyme K Activates a New Complement Pathway*

*Marcel F. Nold†*, Monash University, Australia

*Short Talk: Monomeric IL-38 is a Checkpoint Inhibitor of the Pattern Recognition Receptor-interferon Axis*

**Poster Session 1**

**SATURDAY, FEBRUARY 10**

**B Cells and Autoimmunity**

*Nan Shen*, Renji Hospital, Shanghai JiaoTong University School of Medicine, China

*Transcriptional Regulation of ABCs and Autoimmunity*

*Ignacio Sanz*, Emory University, School of Medicine, USA

*Autoantibody Responses in Autoimmunity and COVID-19*

*Claudia Mauri*, University College London, UK

*Regulatory B Cells and Systemic Autoimmunity*

*Carola G. Vinuesa*, Francis Crick Institute, UK

*Genetic Determinants of B Cell-Mediated Autoimmunity*

*Nida Pellett*, University of Rochester, USA

*Short Talk: Insights Into RA Synovial Autoimmunity via Combined Single-cell Profiling of B cell Repertoire and Gene Expression*

*Amalie Grenov*, Francis Crick Institute, UK

*Short Talk: Exploring autoantibody formation and longevity*

**Workshop**

*Mariasilvia Colantuoni*, Boston Children's Hospital, USA

*Immune-Mediated IL-1RA Gene Therapy: A Breakthrough Treatment For A Spectrum Of Inflammatory Diseases*

*Jessica A. Hamerman*, Benaroya Research Institute, USA

*Lupus IgA1 autoantibodies synergize with IgG to enhance pDC responses to RNA-containing immune complexes*

*Danni Zhu*, Harvard Medical School, USA

*CD21 launches follicular B cell differentiation toward extrafollicular autoantibody-secreting cells*

*Evaristus C. Mbanefo†*, NEI/NIH, USA

*Interleukin-35-producing Regulatory B-cells secrete IL-35-containing exosomes and suppress autoinflammation and GVHD by upregulating inhibitory receptors*

*Jun Inamo*, University of Colorado, USA

*Deciphering pathogenic phenotypes by deep single-cell blood immunophenotyping in individuals at-risk for rheumatoid arthritis*

*Eduardo Patino Martinez†*, NIH, USA

*Aconitate decarboxylase 1 modulates murine lupus and associates with markers of cardiometabolic function in systemic lupus erythematosus*

*Atika Dhar†*, National Institutes of Health, USA

*BlaL syndrome NOD2 mutations result in loss of NOD2 cross-regulatory function*

*Anna Helena Jonsson*, University of Colorado, USA

*Cell-type abundance phenotypes (CTAPs) classify rheumatoid arthritis synovial tissue into clinically relevant inflammatory subtypes*

**Infections and Autoimmunity**

*Jose U. Scher*, NYU Langone Health, USA

*The Microbiome in Chronic Inflammatory Arthritis*

*William H. Robinson*, Stanford University School of Medicine, USA

*EBV and Systemic Autoimmunity*

*Maureen McGargill*, St Jude Children's Research Hospital, USA

*The Intersection of Viral Immunity and Autoimmunity*

*Stefan Uderhardt*, University Erlangen, Germany

*Short Talk: Tissue homeostats determine inflammation thresholds in vivo through dynamic network communication*

**Poster Session 2**

**SUNDAY, FEBRUARY 11**

**T Cells and Systemic Autoimmunity**

*Avery August*, Cornell University, USA

*Tec Kinases and Autoimmunity*

*Cornelia M. Weyand*, Stanford University, USA

*T Cell Senescence and Autoimmunity*

*Diane Mathis*, Harvard Medical School, USA

*Thymic Mimetics and Systemic Autoimmunity*

*Jose U. Scher*, Immunocore, UK

*Soluble-TCR Therapies in Autoimmunity and Cancer*

*Hussein Al-Mossawi*, Immunocore, UK

*Disruptions of Organellar Homeostasis and Autoinflammation*

*William H. Robinson*, Stanford University School of Medicine, USA

*EBV and Systemic Autoimmunity*

*Jose U. Scher*, NYU Langone Health, USA

*The Microbiome in Chronic Inflammatory Arthritis*

*William H. Robinson*, Stanford University School of Medicine, USA

*EBV and Systemic Autoimmunity*

*Maureen McGargill*, St Jude Children's Research Hospital, USA

*The Intersection of Viral Immunity and Autoimmunity*

*Stefan Uderhardt*, University Erlangen, Germany

*Short Talk: Tissue homeostats determine inflammation thresholds in vivo through dynamic network communication*
Kenji Ichiyama, Osaka University, Japan
Short Talk: Ikzf1 association with Foxp3 for Foxp3-dependent gene repression in Treg cells: induction of autoimmunity by disrupting the association

Catherine Lu, New York University, USA
Short Talk: Immune-mesenchymal TNFa-CXCL13 feedback initiates the formation of the tertiary lymphoid structures in human skin autoimmune pathogenesis

Novel Therapies in Autoimmunity and Autoinflammation

Frank Oliver Nestle, Sanofi, USA
Novel Therapeutics Approaches for Chronic Inflammatory Disease

Georg Schett, Universitätsklinikum Erlangen, Germany
CART Cells and the Treatment of Systemic Autoimmunity

Aimee S. Payne, University of Pennsylvania, USA
Chimeric Autoantibody Receptor T Cells: a Precision Cellular Immunotherapy for Antigen-Specific B Cell Depletion

Maximilian Konig†, Johns Hopkins University School of Medicine, USA
Short Talk: Chimeric Autoantigen-T Cell Receptor (CATCR)-T Cell Therapies to Selectively Target Autoreactive B Cells

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

MONDAY, FEBRUARY 12

Departure