Thursday Feb 22

**Innate Immunocytes in Type 2 Inflammation**

### ILC2: From Development To Function

1:00 PM – 3:00 PM

- **Kelly Cautivo-Reyes PhD**, Gilead
  
  Decoding the Dance: How Type 2 Lymphocyte Localization Drives Disease Dynamics

- **Jorge Henao-Mejia MD PhD**, University of Pennsylvania
  
  RNA and Dynamic Nuclear Organization in Allergic Disease

- **Taylor Doherty MD**, University of California San Diego
  
  Regulation of ILC2s by RNA-binding Proteins in Lung Inflammation

- **Roberto Ricardo-Gonzalez MD PhD**, UC San Francisco
  
  Immune Control of Demodex Mites

- **Victor Cortez PhD**, University of California San Francisco
  
  Tracking the Origins of Small Intestinal Memory

- **Hiroyuki Nagashima PhD**, National Institutes of Health
  
  Discordant Regulation of Il4-I13-Il4 Loci in ILC2 and Th2 Cells: A new Insight from 3S Genome and Transcription Factor Coordinates

### Innately Important T2 Effectors

3:30 PM – 5:30 PM

- **Mark Siracusa PhD**, New Jersey Medical School
  
  Novel Strategies to Treat Mast Cell-Mediated Inflammation

- **Magda Gorska MD PhD**, National Jewish Health
  
  Maternal Environmental Programming of Offspring Immune System for Asthma

- **Adrian Pilaponsky PhD**, Seattle Children’s Research Institute
  
  What Can We Learn From Primary Immunodeficiency Disorders (PIDs) About Mast Cell Regulation and Allergic Disease Pathogenesis?

- **Dan Dwyer PhD**, Brigham and Women’s Hospital
  
  Human Intraepithelial Mast Cell Regulation and Effector Function

- **Alexander Eggel PhD**, University of Bern
  
  Importance of Type 2 Immunity in Restoring Adipose Tissue Homeostasis and Promoting Healthy Aging

- **Greg Seumois PhD**, La Jolla Institute for Immunology
  
  Unveiling Granulocyte Heterogeneity in Severe Asthma: Insights from Single-Cell Transcriptomics

Reception and Poster Session 1

5:30 PM – 7:00 PM
Environmental Sensing and Response

Microbial Regulation of Host Immunity
- Eran Elinav MD PhD, Weizmann Institute
  *Host Microbiome Interaction in Health and Disease*
- Susan Lynch PhD, University of California San Francisco
  *Microbial-Derived 2,13 diHOME Shapes Antigen Presenting Cell Phenotypes*
- Chyi Hsieh MD PhD, Washington University
  *Understanding Macro-Immunologic Intestinal CD4 T Cell Responses to Diet and Microbes Using Hierarchical TCR Classification*
- Karen Agaronyan PhD, Yale University
  *Tissue Adaptation to Toxin-Producing Bacteria*
- Lina Yao PhD, Genentech
  *Bile Acid Metabolism by Gut Microbes Alters Host Immune Responses*
- Mohammad Arifuzzaman PhD, Cornell University
  *Inulin Fiber and Microbiota-Derived Bile Acids Promote Type 2 Inflammation*

Epithelial Sensing and Adaptation
- Shruti Naik PhD, New York University Langone
  *Mechanisms of Early Life Inflammation*
- De’Broski R. Herbert PhD, University of Pennsylvania
  *Neuro-Immune Interactions Control Barrier Immunity Through Myeloid IL-33*
- Erin Gordon MD, University of California San Francisco
  *Non-Canonical Inflammasome Regulates IL-33 Secretion and Type 2 Immunity*
- Jakob von Moltke PhD, University of Washington
  *Epithelial Tuft Cells: Central Regulators of Intestinal Type 2 Immunity*
- Anukul Shenoy PhD, University of Michigan
  *Lung Epithelial Cells as Key Signal Conditioning Systems Governing Pulmonary Health*
- Alexander Perniss PhD, Brigham and Women’s Hospital
  *Allergen Recognition by Airway Tuft Cells*
Friday Feb 23

Environmental Sensing and Response

with AAAAI registration

AAAAI Plenary Neuroimmunology: Cross Talk Between Allergy and Other Specialties

2:15 PM - 3:45 PM

- **Stuart Mazzone PhD**, University of Melbourne
  *The Role of the Nervous System in Mediating Inflammation and Host Defense*

- **Peter Hellings MD PhD**, Catholic University of Leuven
  *Neuroimmune Mechanisms in Allergic and Non-allergic Airways Disease*

- **Brian Kim MD PhD**, Mount Sinai School of Medicine
  *Neurogenic Itch and Recent Advances in Treatment*

Neuroimmunology of the Barrier

4:00 PM - 6:00 PM

- **David Artis PhD**, Cornell University
  *Neuro-immune Regulation of Barrier Immunity*

- **Xingbin Ai PhD**, Massachusetts General Hospital
  *Neural Regulation of the Development of Persistent Allergic Asthma*

- **Brian Kim MD PhD**, Mount Sinai School of Medicine
  *Sensing Inflammation in the Skin and Beyond*

- **Lora Bankova MD**, Brigham and Women’s Hospital
  *The Smell of Allergens: Nasal Microvillous Tuft Cells Direct Olfactory Neuroepithelial Remodeling*

- **Carrie Sokol MD PhD**, Massachusetts General Hospital
  *Neuroimmune Impressions of Allergen Exposure*

- **Esther Forsheim PhD**, Arizona State University
  *The Immunological Doors of Allergen Perception*

Reception and Poster Session 2

6:00 PM - 7:30 PM
AAAAl Plenary: Microbial Influence on Allergic Disease

8:15 AM - 9:45 AM

- **Susan Lynch PhD**, University of California San Francisco
  Gut microbiome, industrialization and the rise of chronic inflammatory disease

- **Raif Geha MD PhD**, Boston Children's Hospital
  Skin to Gut cross talk: *S. aureus* and Food Allergy in Atopic Dermatitis

- **Francisco Martinez MD PhD**, University of Arizona
  Bacterial and antibacterial interventions in asthma prevention and management

**Metabolic Control of Immune Function**

10:00 AM - 12:00 PM

- **Edward Pearce PhD**, Johns Hopkins University
  Identifying Metabolic Vulnerabilities of Type 2 Immunity

- **Christoph Wilhelm PhD**, University Hospital Bonn
  Steroid-Insensitive Th1high Immune Response, ROS and Altered Mitochondrial Features in Severe Asthma

- **Anuradha Ray PhD**, University of Pittsburgh
  Regulation of Mast Cell Regranulation

- **Amanda Poholek PhD**, University of Pittsburgh
  Tissue-Specific Control of Th2 Differentiation Driving Allergic Asthma

- **Dawn C Newcomb PhD**, Vanderbilt University
  Mechanisms by Which Androgens Attenuate Immune Responses in Asthma

- **Christian Schwartz PhD**, University Hospital Erlangen
  PD-L1 Mediated Regulation of Adipose Tissue Inflammation

**T Cell Diversity and Effector Function**

1:30 PM - 3:30 PM

- **Pandurangan Vijayanand MD PhD**, LJI Institute
  Unraveling Novel Features of Th2 Cells Using Single Cell RNA-Sequencing Approaches

- **Jonathan Coquet PhD**, Karolinska Institute
  Immune Regulation in Allergic Diseases

- **Talal Chatila MD**, Boston Children’s Hospital
  A Progenitor-Like Cell (Th2-MPP Sustains the Human Chronic Th2 Response

- **Ricardo daSilva Antunes PhD**, La Jolla Immunology Institute
  Detection and Characterization of Allergen-Specific T Cells and Immunotherapeutic Applications

- **Alyssa Mitson-Salazar**, Yale University
  Regulatory T Cells in Intestinal Homeostasis and Allergy