

# DISCOVERY PROGRAM 2024

Type 2 Immunity in Health and Disease

Abstract Deadline  
Thursday August 24<sup>th</sup>, 2024

Travel Awards Available

February 22-24, 2024 Washington DC

Thursday Feb 22

## Innate Immunocytes in Type 2 Inflammation

### ILC2: From Development To Function

1:00 PM

- **Kelly Cautivo-Reyes PhD**, Gilead

3:00 PM

*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-Il13-Il4 Loci in ILC2 and Th2 Cells: A new Insight from 3S Genome and Transcription Factor Coordinates*

### Innately Important T2 Effectors

3:30 PM

- **Mark Siracusa PhD**, New Jersey Medical School

5:30 PM

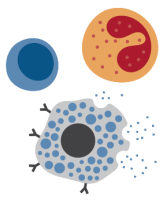
*Novel Strategies to Treat Mast Cell-Mediated Inflammation*

- **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



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## Environmental Sensing and Response

### Microbial Regulation of Host Immunity

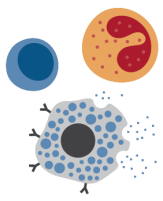
8:00 AM  
—  
10:00 AM

- **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

10:30 PM  
—  
12:40 PM

- **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*



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## Environmental Sensing and Response

with AAAAI registration

### AAAAI Plenary Neuroimmunology: Cross Talk Between Allergy and Other Specialties

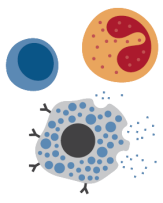
- 2:15 PM** • **Stuart Mazzone PhD**, University of Melbourne  
**3:45 PM** *The Role of the Nervous System in Mediating Inflammation and Host Defense*
- **Peter Hellings MD PhD**, Catholic University of Leuven  
*Neuroimmune Mechanisms in Allergic and Non-allergic Airways Disease*
- **Brian Kim MD PhD**, Mount Sinai School of Medicine  
*Neurogenic Itch and Recent Advances in Treatment*

### Neuroimmunology of the Barrier

- 4:00 PM** • **David Artis PhD**, Cornell University  
*Neuro-immune Regulation of Barrier Immunity*  
**6:00 PM**
- **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**



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Saturday Feb 24

## Programs That Sustain Type 2 Inflammation

with AAAAI registration

### AAAAI Plenary: Microbial Influence on Allergic Disease

- 8:15 AM** • **Susan Lynch PhD**, University of California San Francisco
- 9:45 AM** *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 PM** • **Edward Pearce PhD**, Johns Hopkins University
- 12:00 PM** • **Christoph Wilhelm PhD**, University Hospital Bonn  
*Identifying Metabolic Vulnerabilities of Type 2 Immunity*
- **Anuradha Ray PhD**, University of Pittsburgh  
*Steroid-Insensitive T<sub>H</sub>1<sup>high</sup> Immune Response, ROS and Altered Mitochondrial Features in Severe Asthma*
- **Soman Abraham PhD**, Duke University  
*Regulation of Mast Cell Regranulation*
- **Amanda Poholek PhD**, University of Pittsburgh  
*Tissue-Specific Control of Th<sub>2</sub> 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** • **Pandurangan Vijayanand MD PhD**, LJI Institute
- 3:30 PM** • **Jonathan Coquet PhD**, Karolinska Institute  
*Unraveling Novel Features of Th<sub>2</sub> Cells Using Single Cell RNA-Sequencing Approaches*
- **Talal Chatila MD**, Boston Children's Hospital  
*Immune Regulation in Allergic Diseases*
- **Radomir Kratchmarov MD PhD**, Brigham and Women's  
*A Progenitor- Like Cell (Th<sub>2</sub>-MPP Sustains the Human Chronic Th<sub>2</sub> 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*