

DISCOVERY PROGRAM 2024

Type 2 Immunity in Health and Disease

Abstract Deadline
Thursday August 24th, 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

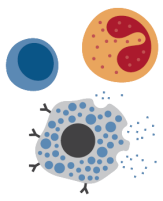
Novel Strategies to Treat Mast Cell-Mediated Inflammation

- **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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Friday Feb 23

Environmental Sensing and Response

Microbial Regulation of Host Immunity

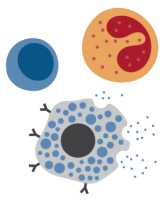
8:00 AM
—
10:00 AM

- **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

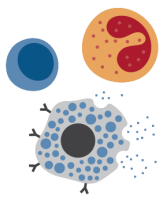
- 2:15 PM** • **Stuart Mazzone PhD**, University of Melbourne
3:45 PM *The Role of the Nervous System in Mediating Inflammation and Host Defense*
- **Peter Hellings MD PhD**, Catholic University of Leuven
Neuroimmune Mechanisms in Allergic and Non-allergic Airways Disease
- **Brian Kim MD PhD**, Mount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

Neuroimmunology of the Barrier

- 4:00 PM** • **David Artis PhD**, Cornell University
6:00 PM *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



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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 T1high 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 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** • **Pandurangan Vijayanand MD PhD**, LJI Institute
- 3:30 PM** • **Jonathan Coquet PhD**, Karolinska Institute
Unraveling Novel Features of Th2 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 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