



# SCIENTIFIC PROGRAM

2023  
**33<sup>RD</sup> BIENNIAL SYMPOSIUM**

**10-14 October 2023 Montréal, Canada**

## TUESDAY, 10 OCTOBER 2023

6:00 pm – 8:30 pm	Registration Open	Ruelle des Fortifications
6:30 pm – 8:30 pm	Welcome Reception	Les Voûtes

## WEDNESDAY, 11 OCTOBER 2023

7:00 am – 12:30 pm	Registration Open	Nordheimer Foyer
2:00 pm – 5:30 pm		
7:00 am – 8:00 am	Breakfast	Nordheimer Prefunction
8:00 am – 10:00 am	<b>Oral Abstract Session 1: Regulation of Allergic Inflammation</b> <i>Chair: R. Stokes Peebles, Jr., United States</i>	A & S Nordheimer
8:00 am – 8:20 am	<b>Identification of a Human Th2 Multipotent Progenitor (Oral Abstract 1)</b> <i>Patrick J. Brennan, United States</i>	
8:20 am – 8:40 am	<b>Epithelial-Intrinsic Defects In TGF<math>\beta</math>R Signaling Drive the Development of Eosinophilic Esophagitis (Oral Abstract 2)</b> <i>Pamela Guerrero, United States</i>	
8:40 am – 9:00 am	<b>Preventive but not Therapeutic Administration of a Bacterial Lysate Suppresses Experimental Allergic Asthma (Oral Abstract 3)</b> <i>Vadim Pivniouk, United States</i>	
9:00 am – 9:20 am	<b>Enhanced ST2 Expression is Associated with Pathogenicity in Treg Lacking PGI2 Signaling (Oral Abstract 4)</b> <i>Allison E. Norlander, United States</i>	
9:20 am – 9:40 am	<b>IL-4R<math>\alpha</math> Signaling Drives Mast Cell-Derived Oncostatin M and an Innate Inflammatory Response in AERD (Oral Abstract 5)</b> <i>Tanya M. Laidlaw, United States</i>	
9:40 am – 10:00 am	<b>Asthma-protective Agents in Dust from Traditional Farm Environments (Oral Abstract 6)</b> <i>Donata Vercelli, United States</i>	
10:00 am – 10:30 am	Break	Nordheimer Prefunction
10:30 am – 11:20 am	<b>Keynote Lecture: IgE, Fc<math>\epsilon</math>RI, and Numbers</b> <i>Chair: Bruce S. Bochner, United States</i> <i>Donald W. MacGlashan, Jr., United States</i>	A & S Nordheimer
11:30 am – 12:30 pm	<b>Oral Abstract Session 2: B Cells and Allergic Diseases</b> <i>Chair: Mübeccel Akdis, Switzerland</i>	A & S Nordheimer
11:30 am – 11:50 am	<b>A Distinct Phenotype of Polarized Memory B Cell Holds IgE Memory (Oral Abstract 7)</b> <i>Allyssa Phelps, Canada</i>	
11:50 am – 12:10 pm	<b>Pathogenic IgE-Fated B Cell Memory Retains Functional Plasticity (Oral Abstract 8)</b> <i>Atai Ariaz, Canada</i>	
12:10 pm – 12:30 pm	<b>Antibody Affinity Birth Through Somatic Hypermutation (Oral Abstract 9)</b> <i>Duane Wesemann, United States</i>	
12:30 pm – 2:00 pm	Lunch	Chez Plum
12:30 pm – 2:00 pm	<b>Satellite Symposium: A Focus on Type 2 Inflammation in Disease</b> <i>Leonard Bacharier, United States</i> <i>Sponsored by Sanofi &amp; Regeneron.</i> <i>Lunch provided</i>	Les Voûtes

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ABSTRACT BOOK HERE:



## WEDNESDAY, 11 OCTOBER 2023

<b>2:00 pm – 3:40 pm</b>	<b>Oral Abstract Session 3: Type 2 Inflammation Pathobiology</b> <i>Chair: Sven-Erik Dahlén, Sweden</i>	A & S Nordheimer
2:00 pm – 2:20 pm	<b>Platelet-Derived Cysteinyl Leukotrienes Drive Sexually Dimorphic Features of Type 2 Inflammation (Oral Abstract 10)</b> <i>Joshua A. Boyce, United States</i>	
2:20 pm – 2:40 pm	<b>House Dust Mite Allergen Induces PAR-1 Dependent Release of Calcitonin-Gene Related Peptide from Cultured Human Pulmonary Neuroendocrine Cells (Oral Abstract 11)</b> <i>Paul Forsythe, Canada</i>	
2:40 pm – 3:00 pm	<b>Oxidatively Driven Programmed Cell Death and Mitophagic Survival Converge to Alter Epithelial Cell Phenotypes and Function of Relevance to Asthma (Oral Abstract 12)</b> <i>Sally E. Wenzel, United States</i>	
3:00 pm – 3:20 pm	<b>Contribution of Oleoylethanolamide and CB2 receptor in Eosinophilic Airway Inflammation of Bronchial Asthma (Oral Abstract 13)</b> <i>Ga Young Ban, Korea</i>	
3:20 pm – 3:40 pm	<b>Mechanism of Innate Memory Formation in ILC2s and its Relevance for Asthma (Oral Abstract 14)</b> <i>Rafeul Alam, United States</i>	
<b>3:40 pm – 4:00 pm</b>	<b>Break</b>	Nordheimer Prefunction
<b>4:00 pm – 4:50 pm</b>	<b>Relaxing Lecture: Misinformation: The Battle Continues!</b> <i>Chair: Judah Denburg, Canada</i> <i>Timothy Caulfield, Canada</i>	A & S Nordheimer
<b>5:00 pm – 5:30 pm</b>	<b>Poster Lightning Round 1</b> <i>Chair: Jean Marshall, Canada</i>	A & S Nordheimer
5:00 pm – 5:03 pm	<b>Dysregulated Immune Landscape of Persistent COVID19 Olfactory Dysfunction (Poster 5)</b> <i>Lora Bankova, United States</i>	
5:03 pm – 5:06 pm	<b>Why African American Children with Food Allergy have Higher Risk of Asthma: Studying the Interrelated Links of Health Disparities, Environment and Microbiome (Poster 9)</b> <i>Mahboobeh Mahdavinia, United States</i>	
5:06 pm – 5:09 pm	<b>Characterization of a T follicular Helper Cell Subset in a Monogenic form of Food Allergy (Poster 11)</b> <i>Stephanie C. Eisenbarth, United States</i>	
5:09 pm – 5:12 pm	<b>Receptor-Ligand Interaction Between GPR15+ T Cells and GPR15L May Facilitate the Extravasation of T Cells Into the Esophageal Mucosa in Eosinophilic Esophagitis (EoE) (Poster 15)</b> <i>Moumita Bhowmik, United States</i>	
5:12 pm – 5:15 pm	<b>Drug-induced Anaphylaxis Uncommon Among 252 Patients with Mastocytosis (Poster 63)</b> <i>Theo Gülen, Sweden</i>	
5:15 pm – 5:18 pm	<b>Risk of Childhood Wheeze and Asthma Associated with Grandparental Asthma in a Three Generations Cohort (Poster 17)</b> <i>Syed H. Arshad, United Kingdom</i>	
5:18 pm – 5:21 pm	<b>Taurine and Sphingolipid Metabolites Identify Unique Response Signatures to Omalizumab and Mepolizumab in Asthma (Poster 19)</b> <i>Ayobami Akenroye, United States</i>	
5:21 pm – 5:24 pm	<b>Elucidation of the Underlying Mechanism of Itching in Atopic Dermatitis (Poster 35)</b> <i>Kenji Izuhara, Japan</i>	
5:24 pm – 5:27 pm	<b>Cytokine Stimulation of Airway Mucins (Poster 37)</b> <i>Kristina Johansson, Sweden</i>	
5:27 pm – 5:30 pm	<b>Maternal Atopic History is Associated with Decreased TLR2 and GM-CSFR Expression on Infant Hematopoietic Progenitor Cells (Poster 39)</b> <i>David M. Putman, Canada</i>	

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## WEDNESDAY, 11 OCTOBER 2023

5:30 pm – 7:30 pm	Poster Session 1	2nd Floor
	<b>COVID-19 and Allergic Disease</b>	C.S. Stratton / C. Sherwood S.
<b>Poster 1</b>	<b>SARS-CoV-2 Infection in Pregnancy Alters Maternal and Cord Blood Immune Cell Composition and Function at Delivery</b> <i>David M. Putman, Canada</i>	
<b>Poster 3</b>	<b>Characterizing the Release of the Proinflammatory Cytokine TSLP from Lung Epithelial Cells in Response to SARS-CoV-2 Infection</b> <i>Luke Gerla, Canada</i>	
<b>Poster 5</b>	<b>Dysregulated Immune Landscape of Persistent COVID19 Olfactory Dysfunction</b> <i>Lora Bankova, United States</i>	
<b>Poster 7</b>	<b>Effects of Age and Wildfire Smoke Exposure on Anti-SARS-CoV-2 Vaccine Immunity: Role of Natural Killer Cells</b> <i>Gursharan Kaur Sanghar, United States</i>	
	<b>Food and Drug Allergies and Gastrointestinal Disorders</b>	C.S. Stratton / C. Sherwood S.
<b>Poster 9</b>	<b>Why African American Children with Food Allergy have Higher Risk of Asthma: Studying the Interrelated Links of Health Disparities, Environment and Microbiome</b> <i>Mahboobeh Mahdavinia, United States</i>	
<b>Poster 11</b>	<b>Characterization of a T follicular Helper Cell Subset in a Monogenic form of Food Allergy</b> <i>Stephanie C. Eisenbarth, United States</i>	
<b>Poster 13</b>	<b>Dietary Intervention in LTP Allergic Patients: Safety and Clinical Response</b> <i>Maria J. Torres, Spain</i>	
<b>Poster 15</b>	<b>Receptor-Ligand Interaction Between GPR15+ T Cells and GPR15L May Facilitate the Extravasation of T Cells into the Esophageal Mucosa in Eosinophilic Esophagitis (EoE)</b> <i>Moumita Bhowmik, United States</i>	
	<b>Genomics, Environmental Factors and Precision Medicine</b>	S. Bernhardt
<b>Poster 17</b>	<b>Risk of Childhood Wheeze and Asthma Associated with Grandparental Asthma in a three generations cohort</b> <i>Syed H. Arshad, United Kingdom</i>	
<b>Poster 19</b>	<b>Taurine and Sphingolipid Metabolites Identify Unique Response Signatures to Omalizumab and Mepolizumab in Asthma</b> <i>Ayobami Akenroye, United States</i>	
<b>Poster 21</b>	<b>Transcriptional Gene Networks in the Lungs of Mice Exposed to Asthma-Protective Microbial Agents: A Comparative Analysis</b> <i>Sydney VanLinden, United States</i>	
<b>Poster 23</b>	<b>Epidemiological Transition of Wheezing-associated Viruses. The Role of New Viruses</b> <i>Alejandra Osorio Martínez, Mexico</i>	
	<b>Pathophysiology of Allergic Disorders and Inflammation</b>	S. Bernhardt
<b>Poster 27</b>	<b>Which is Important for the Pathogenesis of Allergic Bronchopulmonary Aspergillosis/Mycosis, IgE or Eosinophils?</b> <i>Koichiro Asano, Japan</i>	
<b>Poster 29</b>	<b>Trained Immunity and Macrophage Reprogramming in Allergic Asthma</b> <i>Jiu-Yao Wang, Taiwan</i>	
<b>Poster 31</b>	<b>Exploring the Therapeutic Potential of Probiotic-Derived Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) Protein as an Anti-Allergy Agent</b> <i>Pei-Chi Chen, Taiwan</i>	

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## WEDNESDAY, 11 OCTOBER 2023

- Poster 33** Impact of Circulating Angiotensin II and Angiostatin on Clinical Variables in Patients with Asthma  
*An Soo Jang, Korea*
- Poster 35** Elucidation of the Underlying Mechanism of Itching in Atopic Dermatitis  
*Kenji Izuhara, Japan*
- Poster 37** Cytokine Stimulation of Airway Mucins  
*Kristina Johansson, Sweden*
- Poster 39** Maternal Atopic History is Associated with Decreased TLR2 and GM-CSFR Expression on Infant Hematopoietic Progenitor Cells  
*David M. Putman, Canada*
- Poster 41** Growth Patterns and Asthma in Early Childhood: The CHILD Cohort Study  
*Padmaja Subbarao, Canada*
- Poster 43** Relevance of sIgE and sIgG4 to Cat and Dust Mite Allergens in relation to Asthma in the Project Viva Birth Cohort: The Modified Th2 Response Revisited  
*Thomas A.E. Platts-Mills, United States*
- Poster 45** Circulating MicroRNA in Different Courses of Atopic Dermatitis  
*Nadine Herrmann, Germany*
- Poster 47** Combined Metagenomic - and Culture-Based Approaches to Investigate Bacterial Strain-Level Associations with Medication-Controlled Mild-Moderate Atopic Dermatitis  
*Anne Marie Singh, United States*
- Poster 49** Overexpression of miR-29b in Bronchial Biopsies from Individuals with Asthma Coincides with Reduced Levels of Soluble ST2 in Bronchial Lavage Fluid  
*Madeleine Rådinger, Sweden*
- Poster 51** Demographic Encoded Phenotypes in Atopic Dermatitis and Related QoL- Cross Sectional Results from the ProRaD-study in 1011 patients  
*Laura Maintz, Germany*
- Poster 53** Characterization of Extracellular Vesicles in the Peripheral Blood Of Atopic Dermatitis Patients  
*Pierre-Yves Mantel, Switzerland*
- Poster 55** Oxidative-stress-induced Glucocorticoid Insensitivity in Human Airway Smooth Muscles In Vitro and Asthmatic Rhesus Macaques In Vivo  
*Angela Haczku, United States*
- Poster 57** CFTR Regulates Airway Epithelial IL-33 Release and IL-33 Dependent Inflammation  
*R. Stokes Peebles Jr., United States*

**Urticaria, Angioedema, Anaphylaxis, Mastocytosis and Mast Cell Activation Disorders**

S. Bernhardt

- Poster 59** Hereditary  $\alpha$ -tryptasemia is Associated with Increased Risk for Anaphylaxis to Antibiotics and Biological Agents  
*Peter Korosec, Slovenia*
- Poster 61** Minding the Gap Between Anaphylaxis Guidelines and Clinical Practice in Emergency Departments Across Age Groups  
*Tsung-Chieh Yao, Taiwan*
- Poster 63** Drug-induced Anaphylaxis Uncommon Among 252 Patients with Mastocytosis  
*Theo Gülen, Sweden*
- Poster 65** Differential Urinary Mast Cell Mediators in Mastocytosis, Hereditary Alpha Tryptasemia and Atopic Patients  
*Mariana C. Castells, United States*
- Poster 67** Treatment with the KIT Antibody Barzolvolimab Leads to a Profound Depletion of Skin Mast Cells and to Novel Insights into the Therapy of Mast Cell-driven Diseases  
*Diego Alvarado, United States*

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## THURSDAY, 12 OCTOBER 2023

7:00 am – 12:15 pm 5:00 pm – 5:30 pm	Registration Open	Nordheimer Foyer
7:00 am – 8:00 am	Breakfast	Nordheimer Prefunction
8:00 am – 9:20 am	<b>Oral Abstract Session 4: Mast Cells</b> <i>Chair: Stephen Galli, United States</i>	A & S Nordheimer
8:00 am – 8:20 am	<b>Defining the Expression and Function of Siglec-9 and its Ligands on Mast Cells (Oral Abstract 15)</b> <i>Adrian Piliponsky, United States</i>	
8:20 am – 8:40 am	<b>Human Intraepithelial Mast Cell Differentiation and Effector Function are Directed by TGF-<math>\beta</math> Signaling (Oral Abstract 16)</b> <i>Daniel F. Dwyer, United States</i>	
8:40 am – 9:00 am	<b>IgG:Fc<math>\gamma</math>R1b Signals Block Effector Programs of IgE:Fc<math>\epsilon</math>RI-activated Mast Cells (Oral Abstract 17)</b> <i>Cynthia Kanagaratham, United States</i>	
9:00 am – 9:20 am	<b>Activation of the Mas-Related G protein-Coupled Receptor MRGPRX2 with Substance P Analogs Demonstrates the Importance of Key Residues (Oral Abstract 18)</b> <i>Marianna Kulka, Canada</i>	
9:20 am – 10:00 am	Break	Nordheimer Prefunction
10:00 am – 10:50 am	<b>Carl Prausnitz Lecture: Insights into Atopic Dermatitis</b> <i>Chair: Donata Vercelli, United States</i> <i>Raif Geha, United States</i>	A & S Nordheimer
11:00 am – 12:15 pm	<b>Pro/Con Debate: Biologics have Solved the Problem of Type 2 Asthma</b> <i>Chair: Stephen T. Holgate, United Kingdom</i> <i>Pro: Parameswaran Nair, Canada</i> <i>Con: Sally E. Wenzel, United States</i> Lunch provided	A & S Nordheimer
12:30 pm – 4:30 pm	<b>Optional Boat Ride (extra fee)</b>	Board buses at the main entrance of the InterContinental Hotel
5:00 pm – 5:30 pm	<b>Poster Lightning Round 2</b> <i>Chair: Roma Sehmi, Canada</i>	A & S Nordheimer
5:00 pm – 5:03 pm	<b>Allergen-specific Type 2 Memory B Cells in Bee Venom Allergy are Modified Following Ultra-Rush Immunotherapy (Poster 2)</b> <i>Menno C. Van Zelm, Australia</i>	
5:03 pm – 5:06 pm	<b>Novel Variants of Epitope 1 of Ara h 2 have Enhanced IgE Binding that Varies Among Subjects (Poster 14)</b> <i>Stephen C. Dreskin, United States</i>	
5:06 pm – 5:09 pm	<b>Neuregulin-1 Partially Overcomes the Requirement for CD11c Expressing Cells to Survive a Respiratory Viral Infection (Poster 18)</b> <i>Mitchell H. Grayson, United States</i>	
5:09 pm – 5:12 pm	<b>The Dermal Fibroblast Phenotype Determines Skin Mast Cell Reactivity (Poster 28)</b> <i>Anna Di Nardo, United States</i>	
5:12 pm – 5:15 pm	<b>TSLP Trafficking in Allergen-Treated Airway Epithelial Cells: Colocalization with Rab11a Guanosine Triphosphatase (Poster 26)</b> <i>Marc Duchesne, Canada</i>	
5:15 pm – 5:18 pm	<b>Comprehensive Profiling of Lipid Mediator Metabolites in Human Lung Mast Cells Reveals Selective Production Following IgE-dependent Activation (Poster 30)</b> <i>Anna-Karin Johnsson, Sweden</i>	
5:18 pm – 5:21 pm	<b>Annexin A1 is a Cell-Intrinsic Regulator of Human Group 2 Innate Lymphoid Cells Via Zinc (Poster 38)</b> <i>Hiroki Kabata, Japan</i>	
5:21 pm – 5:24 pm	<b>Metabolomics of Circulating Human Memory CD4+T effector and T regulatory Cells Reveals that Phenylalanine is a Metabolic Checkpoint of Pathogenic Th2 Cells Development (Poster 42)</b> <i>Milena Sokolowska, Switzerland</i>	
5:24 pm – 5:27 pm	<b>Effective Delivery of miR-511-3p with Mannose-Decorated Exosomes with RNA Nanoparticles Confers Protection against Asthma (Poster 50)</b> <i>Peisong Gao, United States</i>	
5:27 pm – 5:30 pm	<b>A Surfactant Protein-A Peptide Modulates Responses to Interleukin-13 in Asthma and Offers a Novel Therapeutic Alternative (Poster 56)</b> <i>Monica Kraft, United States</i>	

## THURSDAY, 12 OCTOBER 2023

5:30 pm – 7:30 pm	Poster Session 2	2nd Floor
	<b>Allergen Specific Immunotherapy</b>	C.S. Stratton / C. Sherwood S.
<b>Poster 2</b>	<b>Allergen-specific Type 2 Memory B Cells in Bee Venom Allergy are Modified Following Ultra-Rush Immunotherapy</b> <i>Menno C. Van Zelm, Australia</i>	
<b>Poster 4</b>	<b>Modified Tree Nut Desensitization Protocol in Real-World Clinical Practice</b> <i>Adnan M. Al Ali, Canada</i>	
<b>Poster 6</b>	<b>Uniform Pulse of Th2 IL-6 Signaling and IL-10-Producing B Cells Marks the Initial Immune Switch in Insect Venom Allergen Immunotherapy</b> <i>Markus Ollert, Luxembourg</i>	
<b>Poster 8</b>	<b>Allergen-Neutralizing IgG Rapidly Rises In Dogs Vaccinated With Der f 2-Expressing Bioparticles</b> <i>Guy Tropper, Canada</i>	
	<b>Allergens and Diagnosis of Allergy</b>	C.S. Stratton / C. Sherwood S.
<b>Poster 10</b>	<b>In 12 Years Skin Prick Test Sensitization in Mexican Patients with Respiratory Allergy Increased and Differs Between Humid and Dry Zones</b> <i>Désirée E. Larenas Linnemann, Mexico</i>	
<b>Poster 12</b>	<b>Rapid Point-of-care Detection of EPX in Sputum</b> <i>Parameswaran Nair, Canada</i>	
<b>Poster 14</b>	<b>Novel Variants of Epitope 1 of Ara h 2 Have Enhanced IgE Binding That Varies Among Subjects</b> <i>Stephen C. Dreskin, United States</i>	
<b>Poster 16</b>	<b>Developing a Pipeline for the Characterization of Allergen Content and Adjuvant Activity of Allergen-Displaying Plant Bioparticles</b> <i>Lorenz Aglas, Austria</i>	
	<b>Dendritic Cells, Mast Cells, Monocytes/Macrophages, Neutrophils, Eosinophils, Basophils and Epithelial Cells</b>	S. Bernhardt
<b>Poster 18</b>	<b>Neuregulin-1 Partially Overcomes the Requirement for CD11c Expressing Cells to Survive a Respiratory Viral Infection</b> <i>Mitchell H. Grayson, United States</i>	
<b>Poster 20</b>	<b>Muscarinic M3 Receptor Involves in the Differentiation of M2 Macrophage in Allergic Airway Inflammation</b> <i>Shin Ohta, Japan</i>	
<b>Poster 22</b>	<b>Exosomal Let-7-mediated Regulation of Lipid Metabolism in Foamy Macrophage of Chronic Obstructive Pulmonary Disease (COPD)</b> <i>Miao-Hsi Hsieh, Taiwan</i>	
<b>Poster 24</b>	<b>Expression and Functions of Proteinase-Activated Receptor-2 in Human Intermediate Monocytes</b> <i>Harissios Vliagoftis, Canada</i>	
<b>Poster 26</b>	<b>TSLP Trafficking in Allergen-Treated Airway Epithelial Cells: Colocalization with Rab11a Guanosine Triphosphatase</b> <i>Marc Duchesne, Canada</i>	
<b>Poster 28</b>	<b>The Dermal Fibroblast Phenotype Determines Skin Mast Cell Reactivity</b> <i>Anna Di Nardo, United States</i>	
<b>Poster 30</b>	<b>Comprehensive Profiling of Lipid Mediator Metabolites in Human Lung Mast Cells Reveals Selective Production Following IgE-dependent Activation</b> <i>Anna-Karin Johnsson, Sweden</i>	
<b>Poster 32</b>	<b>A Novel Isoprenylation Inhibitor Suppresses Asthma-related Mast Cell Function</b> <i>John J. Ryan, United States</i>	
<b>Poster 34</b>	<b>How Flexible are Neutrophils to Opposing Signals?</b> <i>Paola Andrea Martinez Murillo, Switzerland</i>	
<b>Poster 36</b>	<b>Interleukin-5 Modifies The Expression Of Selected Interleukin-6 Family Members By Human Mast Cells And Enhances Mast Cell Interferon Responses</b> <i>Jean Marshall, Canada</i>	



## THURSDAY, 12 OCTOBER 2023

## Lymphocytes and Mediators of Immunoregulation

S. Bernhardt

- Poster 38** Annexin A1 is a Cell-Intrinsic Regulator of Human Group 2 Innate Lymphoid Cells Via Zinc  
*Hiroki Kabata, Japan*
- Poster 40** Neuromedin-U/ NMU-R1 Axis Mediates Rapid Activation of Group 2 Innate Lymphoid Cells in the Airways following inhaled Allergen Challenge in Subjects with Mild Asthma  
*Roma Sehmi, Canada*
- Poster 42** Metabolomics of Circulating Human Memory CD4+T effector and T regulatory Cells Reveals that Phenylalanine is a Metabolic Checkpoint of Pathogenic Th2 Cells Development  
*Milena Sokolowska, Switzerland*
- Poster 44** Differences In Th2 Population Sizes Between Atopic and Non-atopic Toddlers are not Established Until 36 Months of Age  
*Caitlin M. Burk, United States*
- Poster 46** Elevated CD27-IgD Double Negative B Cells in Eosinophilic Granulomatosis with Polyangiitis Patients Associated with Serum Anca Status  
*Nadia Suray Tan, Canada*
- Poster 48** Histidine Decarboxylase Expression in Human CD4 T cells  
*Binh Nguyen, Canada*

## Treatment of Non-Allergic Immune Disorders

S. Bernhardt

- Poster 50** Effective Delivery of miR-511-3p with Mannose-Decorated Exosomes with RNA Nanoparticles Confers Protection against Asthma  
*Peisong Gao, United States*
- Poster 52** New Outcomes on the Role of Histamine H<sub>2</sub>R and Gilz Anti-inflammatory Effects in Bleomycininduced Pulmonary Fibrosis Model  
*Laura Lucarini, Italy*
- Poster 54** High Prevalence of Airway Hyperresponsiveness Among Adults with Symptomatic Asthma and Comorbid Obesity  
*Katherine Cahill, United States*
- Poster 56** A Surfactant Protein-A Peptide Modulates Responses to Interleukin-13 in Asthma and Offers a Novel Therapeutic Alternative  
*Monica Kraft, United States*
- Poster 58** The Concept of Disease Modification in Atopic Dermatitis: Scientific and Regulatory Challenges for Drug Discovery and Development  
*Thomas Bieber, Germany*
- Poster 60** Characterization of Intrinsic Atopic Dermatitis Revisited using Multiplex Allergy Diagnostics  
*Thomas Bieber, Germany*
- Poster 62** The Severity of Allergic Rhinitis is Related to Sleep Disturbances in Korean Children and Adolescents  
*Yeong Ho Rha, Korea*

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## FRIDAY, 13 OCTOBER 2023

7:00 am – 12:30 pm 2:00 pm – 5:30 pm	Registration Open	Nordheimer Foyer
7:00 am – 8:00 am	Breakfast	Nordheimer Prefunction
8:00 am – 10:00 am	<b>Oral Abstract Session 5: Mechanisms of Asthma</b> <i>Chair: Sally E. Wenzel, United States</i>	A & S Nordheimer
8:00 am – 8:20 am	<b>A Novel Machine Learning Pipeline Reveals Pathogenic Determinants of Systemic Adaptive Responses to Rhinovirus in Patients with Asthma (Oral Abstract 19)</b> <i>Judith A. Woodfolk, United States</i>	
8:20 am – 8:40 am	<b>Non-Type 2 Inflammatory Markers Predict Post-Operative Nasal Polyp Recurrence in Aspirin-Exacerbated Respiratory Disease (Oral Abstract 20)</b> <i>Kathleen M. Buchheit, United States</i>	
8:40 am – 9:00 am	<b>Plasma Siglec-6 as a Potential New Biomarker in Systemic Mastocytosis (Oral Abstract 21)</b> <i>Gunnar Nilsson, Sweden</i>	
9:00 am – 9:20 am	<b>Nasal Gene Expression Patterns Predict Responsiveness to Mepolizumab Therapy in Urban Children with Exacerbation Prone Asthma (Oral Abstract 22)</b> <i>Daniel J. Jackson, United States</i>	
9:20 am – 9:40 am	<b>Direct Activation of Airway Sensory C-fibers by SARS-CoV-2 Spike Protein (Oral Abstract 23)</b> <i>Bradley J. Udem, United States</i>	
9:40 am – 10:00 am	<b>Non-T2 cytokines, IL-1<math>\beta</math> and IL-18 Drive Plasticity of Airway ILC2 to Intermediate ILC2/3 Phenotype in Severe Asthma with Neutrophilic or Mixed Granulocytic Bronchitis (Oral Abstract 24)</b> <i>Roma Sehmi, Canada</i>	
10:00 am – 10:30 am	Break	Nordheimer Prefunction
10:30 am – 11:30 am	<b>Oral Abstract Session 6: Precision Medicine in Allergy</b> <i>Chair: Thomas Bieber, Germany</i>	A & S Nordheimer
10:30 am – 10:50 am	<b>In Vivo Monitoring of Allergen-Specific Memory B-Cells: Tracking Development and Persistence (Oral Abstract 25)</b> <i>Willem Van de Veen, Switzerland</i>	
10:50 am – 11:10 am	<b>Tackling Allergy with Genome Engineering: Deleting Cat Allergen Fel d 1 Using CRISPR Editing (Oral Abstract 26)</b> <i>Nicole Brackett, United States</i>	
11:10 am – 11:30 am	<b>Janus Kinase Inhibitors Partly Restore the Toll-like Receptor 2 Responsiveness in Desensitized Human Langerhans Cells Via Down-regulation of Inhibitory Suppressor of Cytokine Signaling 1, but not Interleukin-1 Receptor Associated Kinase M (Oral Abstract 27)</b> <i>Nadine Herrmann, Germany</i>	
11:45 am – 12:30 pm	CIA Business Meeting	A & S Nordheimer
12:30 pm – 2:00 pm	Lunch	Chez Plum & Les Voûtes
2:00 pm – 2:50 pm	<b>Paul Kallos Memorial Lecture: Microbial Future-proofing - How Early Life Microbiomes Shape Immune Function and Childhood Allergy</b> <i>Chair: Joshua Boyce, United States</i> <i>Susan Lynch, United States</i>	A & S Nordheimer
2:50 pm – 3:15 pm	Break	Nordheimer Prefunction

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## FRIDAY, 13 OCTOBER 2023

3:15 pm – 5:15 pm	Oral Abstract Session 7: Environmental Factors and Pathophysiology	A & S Nordheimer
	<i>Chair: Thomas A.E. Platts-Mills, United States</i>	
3:15 pm – 3:35 pm	<b>Allergen Exposure in Early Life is Associated with Systemic Immune Development in Disadvantaged Urban Children (Oral Abstract 28)</b> <i>James E. Gern, United States</i>	
3:35 pm – 3:55 pm	<b>Milk-Responsive T cells in Eosinophilic Esophagitis Display Unique Disease-Associated Cytokine Profiles in Both Tissue and Peripheral Blood (Oral Abstract 29)</b> <i>Cecilia Berin, United States</i>	
3:55 pm – 4:15 pm	<b>Human Germline Heterozygous Gain-of-Function STAT6 Variants Cause Severe Allergic Disease (Oral Abstract 30)</b> <i>Stuart Turvey, Canada</i>	
4:15 pm – 4:35 pm	<b>Patients with Aspirin Exacerbated Respiratory Disease are More Likely to have a Mixed Endotype and the R Allele of the Q576R Polymorphism than Patients with Chronic Rhinosinusitis with Nasal Polyps (Oral Abstract 31)</b> <i>Whitney Stevens, United States</i>	
4:35 pm – 4:55 pm	<b>Specific B cell Responses in Allergen-specific Immunotherapy (Oral Abstract 32)</b> <i>Mubeccel Akdis, Switzerland</i>	
4:55 pm – 5:15 pm	<b>Human IgE Monoclonal Antibody Interactions with Mite Allergen Der p 2 Define the Structural Basis for Anaphylaxis In Vivo (Oral Abstract 33)</b> <i>Anna Pomés, United States</i>	
7:00 pm	<b>Gala Dinner</b>	Ruelle des Fortifications

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## SATURDAY, 14 OCTOBER 2023

7:00 am – 12:00 pm	Registration Open	Nordheimer Foyer
7:00 am – 8:00 am	Breakfast	Nordheimer Prefunction
8:00 am – 10:00 am	<b>Oral Abstract Session 8: Allergen Exposure and Immunotherapy</b> <i>Chair: Hans Oettgen, United States</i>	A & S Nordheimer
8:00 am – 8:20 am	<b>Plant-based Enveloped Ara h 2 Bioparticles Display Exceptional Hypo-allergenicity and Activate Human Dendritic Cells to Promote Th1 Cell Development (Oral Abstract 34)</b> <i>Charlotte Castenmiller, Netherlands</i>	
8:20 am – 8:40 am	<b>Oral Immunotherapy in Children Aged 1 to &lt;4 Years with Peanut Allergy: POSEIDON Trial Outcomes, Including Age Stratification (Oral Abstract 35)</b> <i>Andrea Vereda, Switzerland</i>	
8:40 am – 9:00 am	<b>The Effect of Treatment Duration on Efficacy During Oral Immunotherapy Using Heat-Modified Peanut: Results from the BOPI (Boiled Peanut Oral Immunotherapy) Study (Oral Abstract 36)</b> <i>Nandinee Patel, United Kingdom</i>	
9:00 am – 9:20 am	<b>KLRG1<sup>hi</sup>IL17Rb1<sup>+</sup> ILC2s Precede Eosinophil Recruitment into Remote Lungs Following Systemic Allergen Sensitization and Oral Allergen Challenge (Oral Abstract 37)</b> <i>Lisa A. Spencer, United States</i>	
9:20 am – 9:40 am	<b>IgA Exhibits Calcium- and Sialic Acid-dependent Binding to Mast Cells and Inhibits IgE-mediated Activation in an Antigen-Specific Fashion (Oral Abstract 38)</b> <i>Yasmeen S. El Ansari, United States</i>	
9:40 am – 10:00 am	<b>Characterizing Allergenicity and Immunogenicity of a Novel Peanut Allergen-Containing Enveloped Bioparticle (Oral Abstract 39)</b> <i>Karina E. Canziani, United States</i>	
10:00 am – 10:30 am	Break	Nordheimer Prefunction
10:30 am – 11:30 am	<b>Presidential Lecture: The Long and Winding Road to Siglec-based Therapeutic Strategies</b> <i>Chair: Thomas Bieber, Germany</i> <i>Bruce S. Bochner, United States</i>	A & S Nordheimer
11:30 am – 11:45 am	<b>Closing Remarks</b> <i>Thomas Bieber, Germany</i> <i>Judah Denburg, Canada</i>	A & S Nordheimer

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