# Seminars

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 7:00 to 8:00 am | **5001** Eosinophilic Esophagitis: Practical Aspects of Assessing Immediate and Delayed Food Hypersensitivity  
Mark Holbreich, MD FAAAAI  
Amir F. Kagalwalla, MD |
|            | **5002** Outpatient Evaluation of Patients with Multiple Drug Allergy Syndrome  
David A. Khan, MD FAAAAI  
Roland Solensky, MD FAAAAI |
|            | **5003** How to Safely Do Drug Challenges in the Office: A Practical Approach  
Eric M. Macy, MD FAAAAI  
Stephen A. Tilles, MD FAAAAI |
|            | **5004** Dermatology for the Allergist  
Vincent S. Beltrani, MD  
Peter Lio, MD |
|            | **5005** Food Protein-Induced Enterocolitis Syndrome (FPIES): Diagnosis and Management  
Jonathan M. Spergel, MD PhD FAAAAI  
Robert A. Wood, MD FAAAAI |
|            | **5006** Rush/Cluster Immunotherapy: Pearls and Protocols  
Linda Cox, MD FAAAAI  
Joseph T. Inglefield III, MD |
|            | **5007** Laryngoscopy for VCD and GERD  
Allen D. Adinoff, MD FAAAAI  
Corinna S. Bowser, MD FAAAAI |
|            | **5008** Hypereosinophilic Disorders: Diagnosis and Treatment of Difficult Cases  
Carla M. Davis, MD  
Amy D. Klon, MD |
|            | **5009** Advanced Coding for Allergists  
Noga Askenazi, MD FAAAAI  
Stephen A. Imbeau, MD FAAAAI |
|            | **5010** Perioperative Anaphylaxis: Anesthetics, Antibiotics, Latex and Others  
Gordon L. Sussman, MD FAAAAI  
Kristen K. Volkman, MD |

# Plenary

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 8:15 to 9:45 am | **5101** Immunology at the Epithelial Frontier  
Mark Holbreich, MD FAAAAI  
Amir F. Kagalwalla, MD |
| 8:15       | **5002** Allergen Interactions with Epithelial Surfaces  
Marsha A. Wills-Karp, PhD |
| 8:45       | **5003** Epithelial Cells Determine Balance Between Tolerance and Immunity  
David Artis, PhD |

# Posters

Authors present: 9:45 to 10:45 am  
Poster hours: 7:00 am to 5:00 pm  
Session titles and abstracts to be announced.

# Symposium

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 10:45 am to 12:00 pm | **5301** Updated Look at Asthma in Older Adults: From Basic Immunology to the Clinic  
Sameer K. Mathur, MD PhD |
| 10:45      | **5005** Immunologic Effects of Cockroach Sublingual Immunotherapy  
Robert A. Wood, MD FAAAAI |
| 11:05      | **5009** Insights into the Management of Asthma in Urban Children  
Stephen Teach, MD |
| 11:25      | **5010** Risk Factors for Early Wheezing  
James E. Gern, MD FAAAAI |
| 11:45      | Question & Answer |
Symposium ▼

5303 Silencing is Golden: microRNA Regulation of Immunity
10:45 am to 12:00 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Ivan K. Chinn, MD
10:45 Physiologic and Pathologic Roles for microRNA in Immune Development and Function
Luke O’Neill, PhD
11:05 The Biology of microRNA Accessory Proteins
Rachel Jane Senturia, PhD
11:25 Diagnostic and Therapeutic Potential of microRNA in Allergic Disease
Paul S. Foster, PhD
11:45 Question & Answer

Symposium ▼

5304 Biomarkers for Monitoring Allergen Immunotherapy Induced Tolerance
10:45 am to 12:00 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Mohamed H. Shamji, BSc MSc PhD
10:45 Serum and Local Biomarkers for Monitoring Allergen Immunotherapy
Stephen R. Durham, MA MD FRCP
11:05 Use of IgG4 Arrays in Monitoring Allergen Immunotherapy: Are They Any Good?
Robert G. Hamilton, PhD D.ABMLI FAAAAI
11:25 Cellular Assays for Monitoring Allergen Immunotherapy
Speaker to be announced.
11:45 Question & Answer

Symposium ▼

5305 Genetics of Food Allergy: Into the Future
10:45 am to 12:00 pm
Credit: 1.25 CME / 1.50 CE
Moderator: A. Wesley Burks, MD FAAAAI
10:45 Peanut Allergy and Loss-of-Function Variants in the Filaggrin Gene
Sara Brown, MBChB
11:05 Eosinophilic Esophagitis and Varients of TSLP/TSLP Receptor
Antonella Cianferoni, MD PhD
11:25 Mechanistic and Clinical Insights from a Novel Food Allergy-Related Syndrome
Pamela A. Guerrerio, MD PhD
11:45 Question & Answer

Symposium ▼

5306 Beyond Necrosis and Apoptosis: Spectrum of Cell Death
10:45 am to 12:00 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Hans-Uwe Simon, MD PhD FAAAAI
10:45 Interplay of Autophagy with Apoptosis and Necrosis in T Cell Homeostasis
Craig Walsh, PhD
11:05 Mechanisms and Effects of Necroptosis/Programmed Necrosis in T Cells
Speaker to be announced.
11:25 Mechanism of NETosis: Neutrophil Cell Death Following Extrusion of DNA Traps
Arturo Zychlinsky, PhD
11:45 Question & Answer

Pro/Con Debate ▼

5501 Skin Testing is Required in Choosing an Elimination Diet in Eosinophilic Esophagitis
12:30 to 1:30 pm
Credit: 1.00 CME / 1.20 CE
Moderator: Wayne G. Schreffler, MD PhD FAAAAI
Pro
Katrina J. Allen, MD PhD
Con
Mirna Chehade, MD

Pro/Con Debate ▼

5502 Immunotherapy Works via Regulatory T Cells
12:30 to 1:30 pm
Credit: 1.00 CME / 1.20 CE
Moderator: Dorothy S. Cheung, MD FAAAAI
Pro
Carsten B. Schmidt-Weber, PhD
Con
Thomas A.E. Platts-Mills, MD PhD FAAAAI
Tuesday, March 6

Pro/Con Debate ▼

5503 Subcutaneous Immunoglobulin is the Preferred Mode of Therapy for Primary Immunodeficiency
12:30 to 1:30 pm
Credit: 1.00 CME / 1.20 CE
Moderator: Christine M. Seroogy, MD FAAAAI
Pro
Ralph Shapiro, MD
Con
Erwin W. Gelfand, MD FAAAAI

Pro/Con Debate ▼

5504 Use of Probiotics Can Prevent and Treat Allergic Diseases
12:30 to 1:30 pm
Credit: 1.00 CME / 1.20 CE
Moderator: Anna H. Nowak-Wegrzyn, MD FAAAAI
Pro
Liam O’Mahony, MD
Con
Susan L. Prescott, MD PhD

Symposium ▼

5505 Evidence-Based Approach to Asthma Step Down: ICS or LABA
12:45 to 1:45 pm
Credit: 1.00 CME / 1.20 CE
Moderator: Christine A. Sorkness, PharmD
12:45 LABAs: The Good, Bad and Ugly
Thomas B. Casale, MD FAAAAI
1:05 Drop the LABA or Decrease the ICS? Evidence-Based Approach to Step-Down Care
Jan Brozek, MD
1:25 Balancing the FDA and EPR3 Recommendations on LABA Use
Monica Kraft, MD

Oral Abstracts

2:00 to 3:15 pm
Credit: 1.25 CME / 1.50 CE
Session titles, speakers and abstracts to be announced.

Problem-Based Learning Workshop ▼

5701 The Child with Chronic Cough
3:30 to 4:45 pm
Pre-registration and ticket required. Fee: $50.
Credit: 1.25 CME / 1.50 CE
Moderator: Bradley E. Chippes, MD FAAAAI
Alan B. Goldsobel, MD FAAAAI

Panel Discussion Workshop ▼

5702 Asthma and COPD: Similarities and Differences
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Sally E. Wenzel, MD FAAAAI
Monica Kraft, MD
Ian D. Povord, MD

Q & A Workshop ▼

5703 Diesel Exhaust Exposure and Children’s Health
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Andrew M. Smith, MD
3:30 New Insights from the Cincinnati Birth Cohort
David I. Bernstein, MD FAAAAI
3:45 Immunologic Mechanisms
Gurjit K. Khurana Hershey, MD PhD FAAAAI
4:00 Diesel Exhaust and Allergen Interactions
David Diaz Sanchez, PhD
4:15 Question & Answer

Q & A Workshop

5704 Innate Immunity and Allergic Disease: Evidence and Controversies
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Dale T. Umetsu, MD PhD FAAAAI
3:30 NK in Atopic Diseases: What is the Evidence?
Gunnur Deniz, MD
3:45 iNKT and Lipid Allergens: Their Role in Environmental and Food Allergies
Antonella Cianferoni, MD PhD
4:00 Macrophages: Which Role Do They Play in Asthma?
Mitchell H. Grayson, MD FAAAAI
4:15 Question & Answer

Q & A Workshop

5705 Mechanisms of Virus/Allergen Interactions
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Peter W. Heymann, MD
Patrick G. Holt, DSc
Daniel J. Jackson, MD
Nikolaos G. Papadopoulos, MD FAAAAI

Q & A Workshop

5706 Eosinophilic Esophagitis: Treatment Options
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Javed Sheikh, MD FAAAAI
3:30 Dietary Elimination in EE Patients
Mirna Chehade, MD
3:45 Food Reintroduction
Katrina J. Allen, MD PhD
4:00 When Dietary Elimination is Not Enough: Prognosis
Jonathan M. Spergel, MD PhD FAAAAI
4:15 Question & Answer
Tuesday, March 6

Q & A Workshop

5707 Alternate Models of Anaphylaxis
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Phillip L. Lieberman, MD FAAAAI
3:30 IgE and Non-IgE Mediated Models of Anaphylaxis
Fred D. Finkelstein, MD
3:45 Anaphylaxis to Parasites
Thomas B. Nutman, MD
4:00 Anaphylaxis to Mammalian Meat After Tick Bites
Thomas A.E. Platts-Mills, MD PhD FAAAAI
4:15 Question & Answer

5711 Experimental Models of Allergic Rhinitis: What is Their Clinical Relevance?
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Fuad M. Baroody, MD FAAAAI
3:30 Experimental Allergen Challenge Techniques in Allergic Rhinitis
Martin Wegemann, MD FAAAAI
3:45 Utility of Environmental Exposure Units in Allergic Rhinitis
Anne K. Ellis, MD
4:00 Clinical Relevance of Allergen Challenges in the Therapy of Allergic Rhinitis
Alkis Togias, MD FAAAAI
4:15 Question & Answer

Q & A Workshop

5708 Asthma Therapies and the FDA: Black Box Warning
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Stephen A. Tilles, MD FAAAAI
3:30 The LABAs
Malcolm R. Sears, MD FAAAAI
3:45 Leukotriene Modifiers
Jay M. Portnoy, MD FAAAAI
4:00 Omalizumab and the FDA
William W. Busse, MD FAAAAI
4:15 Question & Answer

Q & A Workshop

5712 Anaphylaxis and Mastocytosis: The Spectrum of Clonal and Non-Clonal Systemic Mast Cell Activation
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Luis Escribano, MD PhD FAAAAI
3:30 Mast Cell Activation and Signaling Pathways
Dean D. Metcalfe, MD FAAAAI
3:45 Immune Deficiency in Urticaria: New Molecular Understanding
Joshua D. Milner, MD
4:00 Mast Cell Mediators: Release and Systemic Consequences in Anaphylaxis and Mastocytosis
Melody C. Carter, MD
4:15 Question & Answer

Panel Discussion Workshop

5709 Fundamentals of Clinical Research Studies: Principles and Processes
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Mary M. Klote, MD
3:30 Principals of Good Clinical Practice in Conducting Clinical Research Studies
Mary M. Klote, MD
3:45 Understanding the Basics in Managing Clinical Research Studies
Mark H. Moss, MD
4:00 Investigator and Study Site Responsibilities and Liability in Clinical Trials
Christine A. Sarkness, PharmD
4:15 Question & Answer

Panel Discussion Workshop

5710 Is your Office Providing Optimal Allergen Immunotherapy?
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Richard F. Lockey, MD FAAAAI
Mark S. LaShell, MD
Bryan L. Martin, DO FAAAAI
Michael S. Tankersley, MD FAAAAI

BYOP Workshop

5713 Th2 Heterogeneity: Does Function Follow Form?
3:30 to 4:45 pm
Credit: 1.25 CME / 1.50 CE
Moderator: Mark Larche, PhD
3:30 CCR8+, IL-5+ Th2 Cells in Mouse Models of Atopic Dermatitis
Andrew D. Luster, MD PhD
3:45 Regulatory and Th2 Cell Contribution to Atopic Dermatitis
Judith A. Woodfolk, MBChB PhD FAAAAI
4:00 Th2+17 Cells in Asthma
Yui-Hsi Wang, PhD
4:15 Question & Answer

5714 Difficult Situations in Practice Management
3:30 to 4:45 pm
Pre-registration and ticket required. No fee.
Credit: 1.25 CME / 1.50 CE
Moderator: Weily Soong, MD
Contracts
David A. Brown, MD
Adhuna C. Mathuria, MD
Hiring and Firing
Marshall P. Grodofsky, MD FAAAAI
Vinay Mehta, MD
Marketing
Stanley M. Fineman, MD MBA FAAAAI
Paul M. Carter, MD MHCM FAAAAI