



AAAII American Academy of
Allergy Asthma & Immunology
ANNUAL MEETING
SAN FRANCISCO, CA · FEBRUARY 22-25, 2019

Food Allergy: Advances in Prevention and Treatment


[Online Program Home](#)
[Browse by Day](#)
[Keyword Index](#)
[Faculty Index](#)
[Session Type Index](#)
[Personal Planner](#)

2019 AAAAI Annual Meeting

[Hide/Show Session Details](#)

Thursday, February 21, 2019

[Thursday](#) | [Friday](#) | [Saturday](#) | [Sunday](#) | [Monday](#) | [top](#)

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7:20 AM-3:15 PM

0001

33rd Annual Harold S. Nelson Military Allergy/Immunology Symposium **TICKETED**

Rhinosinusitis/Ocular Allergy

Session Details

Thursday, February 21, 2019: 7:20 AM-3:15 PM

Moscone Center South, Exhibition Level, Hall D7

6.50 CME/CE

Symposium

Moderator:

Camellia Hernandez, MD

Learning Objectives:

1. Discuss what is currently known about sinus disease with nasal polyps and medical conditions associated with nasal polyps like AERD
2. Discuss the classic presentations of VCD and be able to distinguish it from asthma
3. Discuss the methods to accurately diagnose VCD and understand the basic principles for the treatment of VCD

7:20 AM	Registration and Breakfast
7:50 AM	Welcome and Overview <i>Camellia Hernandez, MD</i>
8:00 AM	Morning Address: Biologics in the Treatment of Asthma <i>William W Busse, MD FAAAAI</i>
9:00 AM	Break
9:15 AM	Case Reports (Has space for five abstracts at 15 minutes each)
10:30 AM	Original Research (Has space for three abstracts at 15 minutes each)
11:20 AM	Defense Health Agency: Immunization Healthcare Branch Update <i>Limone C. Collins Jr., MD</i>
11:35 AM	Military Aeroallergen Extract Laboratory Updates <i>Brian D Robertson, MD</i>
11:45 AM	Lunch
12:10 PM	Bruton Lecture: Exercise-Induced Vocal Cord Dysfunction in Adolescents <i>Stephen A. Tilles, MD FAAAAI</i>
1:15 PM	Consultants to the Surgeons General Updates
1:20 PM	VHA Allergy Committee <i>Joseph S. Yusin, MD FAAAAI</i>
1:35 PM	Air Force <i>John F. Freiler, MD FAAAAI</i>
1:50 PM	Army <i>Kirk H. Waibel, MD FAAAAI</i>
2:05 PM	Navy <i>Rachel Umi Lee, MD FAAAAI</i>
2:20 PM	Interactive Small Group Discussion
2:25 PM	VHA Allergy Committee Panel Discussion Speaker <i>Joseph S. Yusin, MD FAAAAI</i>
2:30 PM	Air Force Panel Discussion Speaker <i>Hans F. Otto, MD, MBA FAAAAI</i>
2:35 PM	Army Panel Discussion Speaker

Kirk H. Waibel, MD FAAAAI

- 2:40 PM** **Navy Panel Discussion Speaker**
Rachel Umi Lee, MD FAAAAI
- 2:45 PM** **Life after Service**
Hans F. Otto, MD, MBA FAAAAI
- 2:50 PM** **Business Meeting and Award Selection**

9:00 AM-5:00 PM

0201 **Basic Aeroallergen Course TICKETED**

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Thursday, February 21, 2019: 9:00 AM-5:00 PM

Moscone Center South, Exhibition Level, Hall D8

7.00 CME/CE

Course

Moderator:

Estelle Levetin, PhD FAAAAI

Learning Objectives:

1. Describe the basics of setting up a sampling station and the value of air sampling in a clinical practice and also the value for the AAAAI
2. Describe the fundamentals of fungal and plant reproductive biology as it relates to aeroallergens
3. Describe the basic features of pollen and fungal spore morphology and identify the most common pollen and spore types

- 9:00 AM** **Welcome and Introduction to Course**
- 9:05 AM** **Introduction to Fungal Aerobiology**
W. Elliott Horner, PhD LEED AP FAAAAI
- 9:45 AM** **Fungal Spore Morphology**
Estelle Levetin, PhD FAAAAI
- 10:25 AM** **Hands-On Instruction; Question and Answer**
- 12:00 PM** **Lunch Break**
- 1:00 PM** **Value of Air Sampling for Your Practice and for the AAAAI**
Kraig W. Jacobson, MD
- 1:15 PM** **Setting up a Sampling Station/ Hands-On Sampler Demonstration**
Estelle Levetin, PhD FAAAAI
- 2:00 PM** **Introduction to Pollen Aerobiology**
Peter K. Van De Water, PhD
- 2:30 PM** **Pollen Morphology**
Richard W. Weber, MD FAAAAI
- 3:10 PM** **Hands-On Instruction; Question and Answer**

2:00 PM-4:30 PM

0601 **2019 Literature Review: ABAI Continuous Assessment Study Course TICKETED**

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Thursday, February 21, 2019: 2:00 PM-4:30 PM

Moscone Center South, Level 2, Room 203

2.50 CME/CE

Course

Moderator:

Denise A. DiPrimio-Kalman, DO FAAAAI

Learning Objectives:

1. Discuss recently published research relevant to the practice of allergy/immunology

- 2:00 PM** **Immune Deficiency/Autoimmunity/Immune-Based Disorders**
John M. Routes, MD FAAAAI
- 2:30 PM** **Question & Answer**
- 2:35 PM** **Mast Cell Disorders/Eosinophilic Disorders/Anaphylaxis/Drug-Insect-Vaccine Allergy**
Princess U. Ogbogu, MD FAAAAI
- 3:05 PM** **Question & Answer**
- 3:10 PM** **Asthma & Other Lung Diseases/Allergy Testing & Therapeutics/Rhinosinusitis/Ocular Allergy**
Bradley E. Chipps, MD
- 3:40 PM** **Question & Answer**
- 3:45 PM** **Food Allergy/Allergic & Immunologic Skin Disorders/Urticaria-Angioedema**
John M. Kelso, MD FAAAAI
- 4:15 PM** **Question & Answer**

Friday, February 22, 2019

Thursday | Friday | Saturday | Sunday | Monday | top

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7:00 AM-1:30 PM

1001

2019 FIT Symposium*Allergy Office Practice***Session Details****Friday, February 22, 2019: 7:00 AM-1:30 PM****Marriott, Lower B2 Level, Yerba Buena Salon 9****0.00 CME/CE****Course****Moderator:***Canting Guo, MD***Learning Objectives:**

1. Describe emerging therapies for asthma
2. Discuss the treatment of allergies in a pregnant patient
3. Discuss post fellowship Allergy and Immunology careers and negotiating a contract

7:00 AM	Networking Breakfast
7:45 AM	Introduction
7:50 AM	Networking Committees and Organizations
8:05 AM	American Board of Allergy and Immunology
8:15 AM	Speaker-facilitated Small Group Discussion: Pregnancy and Allergic Disease <i>Michael Schatz, MD MS FAAAAI</i>
8:45 AM	Break
8:50 AM	Welcome from AAAAI President <i>Robert A. Wood, MD FAAAAI</i>
9:05 AM	Optimal Care of the Food Allergic Patient <i>Robert A. Wood, MD FAAAAI</i>
9:35 AM	The Latest on Biologics and Allergy <i>Monica Kraft, MD FAAAAI</i>
10:05 AM	Break
10:20 AM	Career Panel: Industry <i>Kari R. Brown, MD</i>
10:35 AM	Career Panel: Government <i>Kelly D. Stone, MD PhD FAAAAI</i>
10:50 AM	Career Panel: Private <i>Toral A. Kamdar, MD</i>
11:05 AM	Career Panel: Academia <i>Vivian P. Hernandez-Trujillo, MD FAAAAI</i>
11:20 AM	Speaker-facilitated Small Group Discussion: Interactive Contract Negotiations Session <i>Weily Soong, MD FAAAAI</i>
12:20 PM	Networking Lunch

7:30 AM-1:45 PM

1050

2019 Chrysalis Project Program (Invitation Only) TICKETED*Allergy Office Practice***Session Details****Friday, February 22, 2019: 7:30 AM-1:45 PM****Marriott, Lower B2 Level, Salon 6****0.00 CME/CE****Course****Learning Objectives:**

1. Discuss a number of conditions commonly encountered in the practice of allergy/immunology

7:30 AM	Breakfast
8:00 AM	Welcome from Chrysalis Chairs <i>A. Wesley Burks, MD FAAAAI</i>
8:15 AM	Welcome from Chrysalis Chairs <i>Kimberly A. Risma, MD, PhD, FAAAAI</i>
8:30 AM	Welcome from the AAAAI President <i>Robert A. Wood, MD FAAAAI</i>
8:35 AM	Immunodeficiency <i>Thomas A. Fleisher, MD FAAAAI</i>
9:05 AM	Eosinophilic Disorders <i>Amy D. Klion, MD</i>
9:35 AM	Food Allergy <i>A. Wesley Burks, MD FAAAAI</i>
10:05 AM	Asthma
10:35 AM	Break
10:45 AM	Atopic Dermatitis

Mark Boguniewicz, MD FAAAAI

11:15 AM	Drug Allergy <i>Kimberly G. Blumenthal, MD, MSc</i>
11:45 AM	Hot Topics Discussion Session: Drug Allergy <i>Kimberly G. Blumenthal, MD, MSc</i>
11:55 AM	Hot Topics Discussion Session: Drug Allergy <i>Amy M. Dowden, MD FAAAAI</i>
12:05 PM	Hot Topics Discussion Session: Food Allergy <i>Sarita U. Patil, MD</i>
12:15 PM	Hot Topics Discussion Session: Food Allergy <i>Emily C. McGowan, MD, PhD</i>
12:25 PM	Hot Topics Discussion Session: Asthma <i>Katherine N. Cahill, MD</i>
12:35 PM	Hot Topics Discussion Session: Asthma <i>Timothy P. Moran, MD PhD</i>
12:45 PM	Class Photo
12:55 PM	Lunch with FIT Mentors and Chrysalis Faculty

8:00 AM-9:15 AM

1102 Allied Health: FPIES: Diagnosis and Management*Food Allergy***Session Details**

Friday, February 22, 2019: 8:00 AM-9:15 AM

Moscone Center South, Exhibition Level, Hall D10

1.25 CME/CE

Workshop

Moderator:*Amy Arneson, RN***Learning Objectives:**

1. Discuss the current diagnosis and the development of diagnostic tests for FPIES
2. Describe the differences in the food challenge procedure for FPIES as compared to IgE mediated food allergy
3. Describe the impact of FPIES on family life

8:00 AM	FPIES: Impact on the Family <i>Fallon Schultz, MSW LCSW CAM</i>
8:20 AM	Question & Answer
8:25 AM	Oral Food Challenges for FPIES <i>Jennifer Fishman, RN</i>
8:45 AM	Question & Answer
8:50 AM	Overview and Current Research in FPIES <i>Anna H. Nowak-Wegrzyn, MD PhD FAAAAI</i>
9:10 AM	Question & Answer

1103 Allied Health: Improving Asthma Control Through Telemedicine*Asthma***Session Details**

Friday, February 22, 2019: 8:00 AM-9:15 AM

Moscone Center South, Exhibition Level, Hall D9

1.25 CME/CE

Workshop

Learning Objectives:

1. Discuss how telemedicine is transforming health care
2. Discuss strategies in clinical management of allergic diseases in the practice of telemedicine
3. Discuss billing and coding in an allergy and asthma clinic using telemedicine

8:00 AM	Telemedicine: Implementation and Evidence-Based Decision Making <i>Jennifer A. Shih, MD</i>
8:20 AM	Question & Answer
8:25 AM	Telemedicine in the Allergy and Asthma Clinic <i>Michelle R. Dickens, MSN FNP-C AE-C</i>
8:45 AM	Question & Answer
8:50 AM	The Cost: Billing and Coding for Telemedicine <i>Teresa Thompson, CPC CMSCS CCC</i>
9:10 AM	Question & Answer

8:00 AM-12:30 PM

1101 Allied Health: Advanced Practice Course*Allergy Office Practice***Session Details**

Friday, February 22, 2019: 8:00 AM-12:30 PM

Moscone Center South, Exhibition Level, Hall D8

4.00 CME/CE

Course

Moderator:

Karen L. Gregory, DNP APRN-BC RRT AE-C

Learning Objectives:

1. Discuss current clinical updates and resources in the field of allergy/immunology
2. Discuss ways to integrate current data into clinical practice
3. Identify allergy and immunology resources to continue future development of allergy and immunology practice

8:00 AM	Introductory Remarks
8:05 AM	Asthma-COPD Overlap <i>Monica Kraft, MD FAAAAI</i>
8:40 AM	Question & Answer
8:55 AM	Stinging Insect Hypersensitivity <i>Amanda S. Troger, BSN RN CPN</i>
9:30 AM	Question & Answer
9:45 AM	Break
10:00 AM	Accelerated Immunotherapy Options <i>Cheryl K. Bernstein, RN BSN CCRC</i>
10:35 AM	Question & Answer
10:50 AM	When to Use and How to Choose a Substitute Formula or Milk? <i>Marion E. Groetch, MS RD</i>
11:25 AM	Question & Answer
11:40 AM	Medication Update in Atopic Dermatitis <i>Karol G. Timmons, RN MS CPNP</i>
12:15 PM	Question & Answer

8:45 AM-12:00 PM

1110 **Boot Camp for Program Directors and Clinical Faculty: How to Develop and Maintain Excellence in Allergy/Immunology Fellowships**

Allergy Office Practice

Session Details

Friday, February 22, 2019: 8:45 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 160

0.00 CME/CE

Course

Moderator:

David A. Khan, MD FAAAAI

Learning Objectives:

1. Develop the teaching skills of upcoming, new and current Allergy/Immunology fellowship Program Directors & Associate Program Directors, "core" A/I fellowship faculty, community volunteer clinical faculty, and those interested in becoming faculty
2. Present practical tips for developing and enhancing an A/I fellowship program in the context of the "next accreditation system" and new ACGME requirements for 2019
3. Organize and support the development of Allergy/Immunology Program Directors, fellowship "core" faculty, community volunteer clinical faculty, and those interested in becoming faculty

8:45 AM	The Nuts & Bolts of Building an A/I Fellowship Program: The Present and New 2019 ACGME Requirements <i>Javed Sheikh, MD FAAAAI</i>
9:15 AM	Taking the Next Step: Teaching and Leadership Roles in Fellowship Training <i>Mary Beth Fasano, MD FAAAAI</i>
9:45 AM	Coffee Break
10:00 AM	Dates, Deadlines and Developing a Fellowship Year Calendar
10:30 AM	Tools for Assessing Procedural Competency <i>Paul J. Dowling, MD FAAAAI</i>
11:00 AM	Enhancing Teaching: Using the "New AAAAI Toolbox" <i>Christopher Chang, MD PhD MBA FAAAAI</i>
11:30 AM	Directing an A/I Fellowship Program: Ask the Expert Panel Discussion

9:00 AM-12:00 PM

1201 **Difficult Cases 1 and Difficult Cases 2**

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 156

3.00 CME/CE

Course

Moderator:

Ashwini Reddy, MD

Learning Objectives:

1. Identify various allergic/immunologic diseases in a case presentation

2. Apply information of diagnosing & treating diseases to clinical practice
3. Review new/unusual presentations of common disease processes

9:00 AM	FPIES/Non-Ige Mediated Food Allergy <i>Gita Ram, MD</i>
9:15 AM	FPIES/Non-Ige Mediated Food Allergy <i>Matthew J. Greenhawt, MD MBA MSc</i>
9:30 AM	Question & Answer
9:35 AM	Very Early Onset IBD/Immunodeficiency Overlap <i>Margaret Redmond, MD</i>
9:50 AM	Very Early Onset IBD/Immunodeficiency Overlap <i>Kathleen E. Sullivan, MD PhD FAAAAI</i>
10:05 AM	Question & Answer
10:10 AM	Peanut Oral Immunotherapy for IgE-Mediated Food Allergy (Indications and Potential Complications)
10:25 AM	Peanut Oral Immunotherapy for IgE-Mediated Food Allergy (Indications and Potential Complications) <i>Brian P. Vickery, MD FAAAAI</i>
10:40 AM	Question & Answer
10:45 AM	Unusual Anaphylaxis <i>Maureen E Bauer, MD</i>
11:00 AM	Unusual Anaphylaxis <i>Phillip L. Lieberman, MD FAAAAI</i>
11:15 AM	Question & Answer
11:20 AM	Severe Asthma/Severe Exercise Induced Asthma <i>Margee Louisias, MD, MPH</i>
11:35 AM	Severe Asthma/Severe Exercise Induced Asthma <i>Elizabeth C. Matsui, MD MHS</i>
11:50 AM	Question & Answer
11:55 AM	Immunodeficiency Masqueraders <i>Cullen M. Dutmer, MD</i>
12:10 PM	Immunodeficiency Masqueraders <i>Neil D. Romberg, MD</i>
12:25 PM	Question & Answer

1202 Problem-Based Learning: A Patient With COPD, Severe Asthma or Both? TICKETED

Lung Diseases other than Asthma

Session Details

Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Exhibition Level, Hall D12
3.00 CME/CE
Course

Moderator:

Don A. Bukstein, MD

Learning Objectives:

1. Compare and contrast characteristics of COPD and asthma
2. Evaluate tests to help diagnose COPD, asthma and "overlap syndrome"
3. Discuss the COPD GOLD Guidelines and where the newer combination agents fit in therapy

9:00 AM	Patient with COPD, Severe Asthma or Both: PBL Case Presentation <i>Don A. Bukstein, MD</i>
9:50 AM	Question & Answer
9:55 AM	Is It COPD Vs Asthma VS Overlap Syndrome? <i>Juan Carlos Cardet, MD, MPH</i>
10:15 AM	Question & Answer
10:20 AM	Update on Diagnosis for COPD/Asthma Overlap Syndrome <i>Elliot Israel, MD FAAAAI</i>
10:40 AM	Question & Answer
10:45 AM	Optimal Therapies for COPD/Asthma Overlap Syndrome <i>John Oppenheimer, MD FAAAAI</i>
11:05 AM	Panel Discussion

1203 Introductory Course in Rhinology with Hands-On Instruction TICKETED

Rhinosinusitis/Ocular Allergy

Session Details

Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Exhibition Level, Hall D4
3.00 CME/CE
Course

Moderator:

Jerald W. Koepke, MD FAAAAI

Learning Objectives:

1. Describe the major anatomical structures of the nasal, pharyngeal and glottic areas as visualized during examination with the fiber-optic rhinolaryngoscope
2. Describe variations of normal seen when participants examine one another in this hands-on session
3. Discuss and demonstrate the proper handling and initial skills needed to perform a comprehensive upper airway examination with a fiberoptic endoscope

9:00 AM **Introductory Course in Rhinolaryngoscopy with Hands-On Instruction**

Jerald W. Koepke, MD FAAAAI

10:00 AM **Hands-On Learning**

Instructor

Allen D. Adinoff, MD FAAAAI

Instructor

Grant C. Olson, MD

Instructor

Kevin R. Murphy, MD

Instructor

Donald W. Pulver, MD FAAAAI

Instructor

C. Ross Westley, MD FAAAAI

1204

Best of the Practice Management Workshop: Expanding the Scope of Practice

Allergy Office Practice

Session Details

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Level 2, Room 205

3.00 CME/CE

Course

Moderator:

A. Sean McKnight, MD FAAAAI

Learning Objectives:

1. Discuss the billing requirements and to apply the appropriate codes for expanded allergy procedures
2. Discuss staffing requirements for safe delivery of the different allergy treatments in an outpatient/clinic setting
3. Describe the value of utilizing telehealth in delivering allergy and immunology services

9:00 AM **Biologics**
Weily Soong, MD FAAAAI

9:25 AM **Question & Answer**

9:30 AM **Telehealth**
Jennifer A. Shih, MD

9:55 AM **Question & Answer**

10:00 AM **HAE and IVIG Therapies**
Michael R. Rupp, MD FAAAAI

10:25 AM **Question & Answer**

10:30 AM **Food Challenge and OIT**
Mohamed S. Yassin, MD FAAAAI

10:55 AM **Question & Answer**

11:00 AM **Proper Coding and Billing Procedures**
Teresa Thompson, CPC CMSCS CCC

11:25 AM **Question & Answer**

11:30 AM **Managing Conflicts in Your Practice**
Priya J. Bansal, MD FAAAAI

11:55 AM **Question & Answer**

1205

How Microbes Affect Allergic Illnesses

Immune Mechanisms

Session Details

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Level 3, Room 301

3.00 CME/CE

Course

Moderator:

David I. Bernstein, MD FAAAAI

Learning Objectives:

1. Describe the relationship between viral infections and asthma
2. Identify at least two airway bacteria that are associated with the risk for respiratory illnesses and asthma
3. Describe the relationship between early life infections, airway microbes, and patterns of lung function

9:00 AM **Environmental Exposures: The Gut Microbiome and the Development of Allergic Diseases**
Yvonne Huang, MD

9:20 AM **Question & Answer**

9:25 AM	The Respiratory Virome in Preschool Asthma <i>Nikolaos G. Papadopoulos, MD PhD FRCP FAAAAI</i>
9:45 AM	Question & Answer
9:50 AM	Lung Function and the Airway Microbiome in Early Life <i>Kirsten M Kloepfer, MD MS</i>
10:10 AM	Question & Answer
10:15 AM	Virus-Bacterial Interactions and the Onset of Childhood Asthma <i>James E. Gern, MD FAAAAI</i>
10:35 AM	Question & Answer
10:40 AM	Hot Topics in Viruses and Asthma <i>Joshua L. Kennedy, MD</i>
11:00 AM	Question & Answer
11:05 AM	Hot Topics in the Microbiome and Food Allergy <i>Christina E. Ciaccio, MD FAAAAI</i>
11:25 AM	Panel Discussion

1206

The Circus Surrounding Peanuts: The Genetic and Molecular Mechanisms Driving Peanut Allergy*Food Allergy***Session Details**

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Level 2, Room 203

3.00 CME/CE

Course

Moderator:*Dawn C. Newcomb, PhD***Learning Objectives:**

1. Describe and decipher the genetic and molecular biology mechanisms driving food allergy
2. Discuss potential treatments for patients with food allergies
3. Discuss the various genetic and environmental risk factors associated with food allergy

9:00 AM	The Importance of a Well-Characterized Patient Cohort for Food Allergy Research <i>Leah Claire Nesbitt Kottyan, PhD</i>
9:20 AM	Discussion
9:30 AM	Skin Barrier Mutations and Food Allergy <i>Joan Cook-Mills, PhD</i>
9:50 AM	Discussion
10:00 AM	Transcriptomic Analysis of Peanut Allergy <i>Supinda Bunyavanich, MD MPH FAAAAI</i>
10:20 AM	Discussion
10:30 AM	Immunologic Tolerance to Foods <i>Wayne G. Shreffler, MD PhD FAAAAI</i>
10:50 AM	Discussion
11:00 AM	Epigenetics and Food Allergy <i>Kari C. Nadeau, MD PhD</i>
11:20 AM	Discussion
11:30 AM	Immunodeficiency and Food Allergy
11:50 AM	Discussion

1207

Hands-On Workshop: IT Counts: Interactive Patient Cases TICKETED*Allergy Office Practice***Session Details**

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 159

3.00 CME/CE

Course

Primary Moderators:*Peter S. Creticos, MD FAAAAI**Linda S. Cox, MD FAAAAI***Learning Objectives:**

1. Discuss management decisions about when to use allergen immunotherapy in an interactive simulated case-management format
2. Identify and assess the safety of allergen immunotherapy in a case-management format
3. Discuss the principles of allergen selection, dose and duration of allergen immunotherapy

9:00 AM	Immunotherapy in the Pregnant Patient <i>Tolly Epstein, MD FAAAAI</i>
9:20 AM	Question & Answer
9:30 AM	Immunotherapy in a Peanut-Allergic Child <i>Anna H. Nowak-Wegrzyn, MD PhD FAAAAI</i>
9:50 AM	Question & Answer

10:00 AM	Immunotherapy in the Venom-Allergic Patient <i>Mike Tankersley, MD MBA FAAAAI</i>
10:20 AM	Question & Answer
10:30 AM	Safety of Rapid Immunotherapy <i>Christopher W. Calabria, MD FAAAAI</i>
10:50 AM	Question & Answer
11:00 AM	Immunotherapy in the Pediatric Patient <i>Linda S Cox, MD FAAAAI</i>
11:20 AM	Question & Answer
11:30 AM	SLIT: Drops and Tablets <i>Oliver Pfaar</i>
11:50 AM	Question & Answer

1208 Improving Your MIPS Score by Promoting Adherence to Asthma Therapy*Allergy Office Practice***Session Details**

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Level 2, Room 201

3.00 CME/CE

Course

Moderator:*Chitra Dinakar, MD FAAAAI***Learning Objectives:**

1. Discuss the relationship of improving adherence to asthma therapy and factors that impact MIMS scores
2. Discuss methods to measure adherence as well as barriers and patient behaviors that result on non-adherence
3. Describe strategies and communication techniques to overcome barriers and behaviors responsible for non-adherence

9:00 AM	Understanding the Relationship between Scoring High in Mips and Achieving Adherence for Your Asthma Population <i>Gary C. Steven, MD PhD FAAAAI</i>
9:20 AM	Question & Answer
9:25 AM	Evaluating Methods to Measure Asthma Patient Adherence <i>Andrea J. Apter, MD MA MSc FAAAAI</i>
9:45 AM	Question & Answer
9:50 AM	Barriers and Behaviors Responsible for Non-Adherence <i>Chitra Dinakar, MD FAAAAI</i>
10:10 AM	Question & Answer
10:15 AM	Effective Strategies to Reverse Non-Adherence and Promote Adherence to Asthma Therapy <i>Cynthia S. Rand, PhD</i>
10:35 AM	Question & Answer
10:40 AM	Improving Adherence Using Shared Decision Making Communication Skills <i>Hazel Tapp, PhD</i>
11:00 AM	Question & Answer
11:05 AM	Motivational Interviewing Improves Adherence to Asthma Therapy <i>Andrew G. Weinstein, MD FAAAAI</i>
11:25 AM	Question & Answer
11:30 AM	Think/Pair/Share: Practicing Motivational Interviewing Skills

1209 An Old Topic Gets Hot: Lipid Control of Type 2 Immunity*Immune Mechanisms***Session Details**

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 151

3.00 CME/CE

Course

Moderator:*Joshua A. Boyce, MD***Learning Objectives:**

1. Discuss the roles of arachidonic acid metabolites in the onset, persistence and resolution of type 2 immunopathology

9:00 AM	Prostaglandin D2 in the Transcriptional Control of Th2 Development <i>Erik R. Wambre, PhD, MBE</i>
9:25 AM	Question & Answer
9:35 AM	Lipid Mediator-Dependent Homeostasis of Innate Lymphoid Cells <i>Taylor A Doherty</i>
10:00 AM	Question & Answer
10:10 AM	Leukotriene-Dependent Regulation of Epithelial-Dependent Innate Type 2 Immunity <i>Lora Bankova, MD</i>
10:35 AM	Question & Answer

- 10:45 AM** **Pro-Resolving Lipids Control Type 2 Immunopathology**
Stokes Peebles Jr., MD FAAAAI
- 11:10 AM** **Question & Answer**
- 11:20 AM** **The Role of COX-1-Derived Prostanoids in the Control of Innate Mast Cell Function**
Dingxin Pan
- 11:45 AM** **Question & Answer**

1210 **Can There Be a Universal Approach to Food Allergy Prevention Guidelines?***Food Allergy***Session Details**

Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Level 3, Room 305

3.00 CME/CE

Course

Moderator:

*David M. Fleischer, MD FAAAAI***Learning Objectives:**

1. Discuss the existing evidence and rationale for specific foods supporting their early introduction to reduce the risk of developing food allergy
2. Discuss the pros and cons of having allergist facilitated introduction compared to an open recommendation for all infants to have early introduction without medical intervention
3. Discuss the potential that a child may fail early introduction, and identify the psychosocial needs that such children may require given earlier diagnosis of allergy, as well as potential treatment options available for such children

- 9:00 AM** **What Foods Should We be Introducing Early for Protection Against the Development of Food Allergy?**
Edmond S. Chan, MD FAAAAI
- 9:20 AM** **Question & Answer**
- 9:25 AM** **When Should We Start Early Introduction, and How Do We Balance This within the Developmental Trajectories of Infants and Who Breastfeeding Recommendations?**
Debra J Palmer, BSc BND PhD
- 9:45 AM** **Question & Answer**
- 9:50 AM** **Should Implementation Strategies with Respect to Screening and the Role of Primary Care in Facilitating Recommendations Differ Among Countries?**
Michael E. Levin, MBBCh PhD FAAAAI
- 10:10 AM** **Question & Answer**
- 10:15 AM** **Has the Voice of the Stakeholder Been Heard in Understanding How to Implement Early Introduction Recommendations?**
Jonathan O'B. Hourihane, MD FAAAAI
- 10:35 AM** **Question & Answer**
- 10:40 AM** **What Can We Offer the Family with a Child Who Fails Early Introduction?**
Scott H. Sicherer, MD FAAAAI
- 11:00 AM** **Question & Answer**
- 11:05 AM** **Where Do We Go from Here? What Is the Next Leap in Food Allergy Prevention**
- 11:25 AM** **Panel Discussion**

1211 **Single Cell Analysis in Human Disease: Lessons Learned from the AACRC***Immune Mechanisms***Session Details**

Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155

3.00 CME/CE

Course

Moderator:

*Christine M. Seroogy, MD FAAAAI***Learning Objectives:**

1. Describe the methodology and variety of uses of single cell analysis in airway epithelial cell biology
2. Discuss the functional diversity of immune cells in nasal polyposis
3. Describe the characteristics of Th2A cells and their contribution to the allergic phenotype

- 9:00 AM** **Introductory Remarks**
- 9:10 AM** **Single Cell Analysis in Nasal Polyposis**
Nora A. Barrett, MD
- 9:30 AM** **Question & Answer**
- 9:35 AM** **Single Cell Analysis As a Window to Airway Epithelium Cell Function and Diversity**
Prescott Woodruff, MD, MPH
- 9:55 AM** **Question & Answer**
- 10:00 AM** **Single Cell Analysis Reveals Immune Cell Heterogeneity**
Kathleen M. Buchheit, MD
- 10:20 AM** **Question & Answer**
- 10:25 AM** **Discovery of Th2A Cells By Single Cell Analysis**
Erik R. Wambre, PhD, MBE

10:45 AM	Question & Answer
10:50 AM	Transcriptional Profiling of Eosinophilic Esophagitis
11:10 AM	Question & Answer
11:15 AM	Lung Development at the Single Cell Resolution
11:35 AM	Question & Answer
11:40 AM	Panel Discussion

1212

Approach to Delayed Drug Allergic Reactions*Drug/Insect Allergy/Vaccines***Session Details**

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Level 2, Room 207

3.00 CME/CE

Course

Moderator:*Ana Dioun Broyles, MD FAAAAI***Learning Objectives:**

1. Recognize the heterogenous presentation of delayed drug reactions
2. Describe diagnostic approaches to delayed drug reactions
3. Discuss short and long term management principles for delayed hypersensitivity reactions

9:00 AM	Overview of Delayed Drug Reactions Classification, Mechanisms and Clinical Approaches <i>Andreas J Bircher, MD</i>
9:20 AM	Question & Answer
9:30 AM	Approaches to Delayed Drug Reactions to Antibiotics: The Role of In Vivo Testing (skin testing and oral challenge) <i>Antonino Gaetano Romano, MD</i>
9:50 AM	Question & Answer
10:00 AM	Management of Delayed Drug Reactions in Complex Treatment Populations <i>Michael Roger Ardern-Jones, MD PhD</i>
10:20 AM	Question & Answer
10:30 AM	Case Based Illustration of Approaches to Delayed Drug Hypersensitivity with Audience Response and Active Participation/Discussion from Group <i>Paul L Bigliardi, MD</i>
10:50 AM	Question & Answer
11:00 AM	Approaches to Delayed Drug Reactions: The Role of Biomarkers, Genetics, Ex Vivo and in Vitro Laboratory Approaches <i>Elizabeth J Phillips, MD FAAAAI FIDSA</i>
11:20 AM	Panel Discussion

9:30 AM-10:45 AM

1301

Allied Health: Management Dilemmas and Strategies in Pediatric Food Challenges*Food Allergy***Session Details**

Friday, February 22, 2019: 9:30 AM-10:45 AM

Moscone Center South, Exhibition Level, Hall D10

1.25 CME/CE

Workshop

Moderator:*Alexia K. Beauregard, MS RD CSP LD***Learning Objectives:**

1. Discuss the strategy to decide on diagnostic challenges in a child with multiple food allergies
2. Discuss the latest information about safe introduction schedules after a negative food challenge
3. Discuss the latest information on early introduction of allergens in the high-risk atopic child

9:30 AM	Diagnostic Challenges in a Child with Multiple Food Allergy <i>Nicolette De Jong, PhD</i>
9:50 AM	Question & Answer
9:55 AM	Safe Introduction after a Negative Food Challenge. <i>Berber Vlieg-Boerstra, PhD RD</i>
10:15 AM	Question & Answer
10:20 AM	Early Introduction of Allergens in the High Atopic Child <i>April Clark, RDN, LD</i>
10:40 AM	Question & Answer

1302

Allied Health: Hot Topics in Allergy: What You May Have Missed in the Literature*Allergens/Allergy Testing/Allergy Therapeutics***Session Details**

Friday, February 22, 2019: 9:30 AM-10:45 AM

Moscone Center South, Exhibition Level, Hall D9

1.25 CME/CE

Workshop

Moderator:

Maria Crain, CPNP

Learning Objectives:

1. Describe advances in the field of allergy that were discussed in the literature

9:30 AM	What's New in Allergic Rhinitis
9:50 AM	Question & Answer
9:55 AM	What's New in Asthma <i>Brooke I. Polk, MD</i>
10:15 AM	Question & Answer
10:20 AM	What's New in Atopic Dermatitis <i>Megan Ott Lewis, MSN CRNP</i>
10:40 AM	Question & Answer

12:00 PM-2:00 PM

Program Directors Assembly (PDA) 2019 Business Meeting

Session Details

Friday, February 22, 2019: 12:00 PM-2:00 PM

0.00 CME/CE

12:00 PM	Lunch
12:15 PM	Program Directors Assembly Business Meeting
12:25 PM	30th Anniversary of the Program Directors Assembly
12:35 PM	WAO Centers of Excellence
12:40 PM	Physician Wellness in Allergy & Immunology: Where We Area and Where We Are Going
1:40 PM	Other Business
2:00 PM	Adjourn

12:30 PM-1:30 PM

1501 Interaction of Irritants and Allergens in Allergic Rhinitis TICKETED

Rhinosinusitis/Ocular Allergy

Session Details

Friday, February 22, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 1

1.00 CME/CE

Seminar

Primary Discussion Leaders:

David Diaz Sanchez, PhD

To be announced.

Learning Objectives:

1. Discuss the effects of selected air pollutants on allergic rhinitis ("adjuvancy" and "priming")
2. Discuss the effects of untreated allergic inflammation on nasal irritant sensitivity and reactivity ("neuromodulation")
3. Identify the clinical ramifications of irritant-allergen interactions in allergic rhinitis

1502 Mast Cell Activation Syndrome: Navigating the Information Maze with Your Patient TICKETED

Mast Cell/Eosinophilic Disorders

Session Details

Friday, February 22, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 14

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Charity C. Fox, MD FAAAAI

Melody C. Carter, MD FAAAAI

Learning Objectives:

1. Develop an approach and materials to provide patients with accurate information about diagnostic criteria and treatment for mast cell activation syndrome

1503 Understanding the Link Between Immunodeficiency and Auto-Inflammation TICKETED

Autoimmune/Auto-inflammatory Disorders

Session Details

Friday, February 22, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 15

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Peter D. Arkwright, MD PhD FAAAAI

Joshua D. Milner, MD

Learning Objectives:

1. Discuss the immune mechanisms triggering autoimmunity and autoinflammation in patients with primary immunodeficiency
2. Discuss the spectrum of clinical inflammatory diseases associated with primary immunodeficiency

1504 Approach to the Patient with IBS TICKETED

Mast Cell/Eosinophilic Disorders

Session Details

Friday, February 22, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Nob Hill A

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Anne Marie Ditto, MD FAAAAI**Mary C. Tobin, MD FAAAAI***Learning Objectives:**

1. Describe the possible role of food allergy in IBS and how to approach patients presenting with this concern

1505 Asthma Over the Age of 65: All's Well That Ends Well TICKETED*Asthma***Session Details**

Friday, February 22, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Nob Hill C

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Alan P. Baptist, MD MPH FAAAAI**Paula J. Busse, MD FAAAAI***Learning Objectives:**

1. Discuss how asthma symptoms and spirometry may differ in older adults compared to younger populations
2. Identify how unique factors, including asthma COPD overlap (ACO), are associated with poor asthma control and quality of life in older adults
3. Discuss the optimal pharmacologic and non-pharmacologic management strategies for older adults with asthma

1506 Allied Health: Hands on Eczema: Trying Out the Toolbox TICKETED*Allergic and Immunologic Skin Diseases***Session Details**

Friday, February 22, 2019: 12:30 PM-1:30 PM

Moscone Center South, Exhibition Level, Hall D11

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Megan Ott Lewis, MSN CRNP**Karol G. Timmons, RN MS CPNP***Learning Objectives:**

1. Participants will be able to provide families with practical, useful advice to care for their child with atopic dermatitis, including topical corticosteroid selection, calcineurin inhibitor use and bleach baths
2. Discuss and provide families with step-by-step information to complete wet wrap therapy
3. Identify strategies to limit corticosteroid exposure to children and adolescents, including resources available
4. Participants will be aware of strategies to limit corticosteroid exposure to children and adolescents, including resources available
5. Participants will be aware of strategies to limit corticosteroid exposure to children and adolescents, including resources available
6. Discuss with families practical, useful advice to care for their child with atopic dermatitis, including topical corticosteroid selection, calcineurin inhibitor use and bleach baths
7. Participants will be aware of strategies to limit corticosteroid exposure to children and adolescents, including resources available
8. Participants will be aware of strategies to limit corticosteroid exposure to children and adolescents, including resources available

12:45 PM-2:00 PM

1510 JACI: In Practice Year-in-Review Workshop*Allergy Office Practice***Session Details**

Friday, February 22, 2019: 12:45 PM-2:00 PM

Moscone Center South, Level 3, Room 305

1.25 CME/CE

Workshop

Moderator:*Michael Schatz, MD MS FAAAAI***Learning Objectives:**

1. Discuss the findings from recent clinical research in the areas of asthma, food allergy and drug hypersensitivity
2. Identify the strengths, limitations and practical implications of the highlighted studies
3. Discuss how to incorporate the new findings in the management of patients with asthma, food allergy and drug hypersensitivity

12:45 PM **Asthma**
Robert S. Zeiger, MD PhD FAAAAI

1:05 PM **Question & Answer**

1:10 PM **Food Allergy and Anaphylaxis**
Scott H. Sicherer, MD FAAAAI

1:30 PM **Question & Answer**

1:35 PM **Allergy and Urticaria/Angioedema**
David A. Khan, MD FAAAAI

1:55 PM **Question & Answer**

1511 Problem-Based Learning: Severe Atopic Dermatitis TICKETED*Allergic and Immunologic Skin Diseases*

Session Details

Friday, February 22, 2019: 12:45 PM-2:00 PM

Moscone Center South, Exhibition Level, Hall D12

1.25 CME/CE

Workshop

Moderator:*Ray S. Davis, MD FAAAAI***Learning Objectives:**

1. Discuss the differential diagnosis of a patient with severe atopic dermatitis
2. Identify and assess the food allergy as a co-morbid condition in this patient
3. Discuss the cutting edge literature on the state of the art skin therapy and biologics in refractory atopic dermatitis

12:45 PM Interactive Problem-Based Learning

1:15 PM Pathophysiology and Differential Diagnosis of Severe Atopic Dermatitis
Anna De Benedetto, MD

1:30 PM Intense Skin Care Protocol for Severe Atopic Dermatitis

1:45 PM Question & Answer

1512 How to Use Online Genomics Tools and Datasets in Your Allergy and Immunology Research*Research Principles***Session Details**

Friday, February 22, 2019: 12:45 PM-2:00 PM

Moscone Center South, Level 3, Room 301

1.25 CME/CE

Workshop

Moderator:*Melanie A. Ruffner, MD PhD***Learning Objectives:**

1. Identify specific online genomic research tools and provide instructions and live demonstrations of how to use them
2. Identify examples of locations of publicly deposited genetic, genomic, proteomic and other data that are associated with published and unpublished studies
3. Discuss statistical considerations and logistics of interpreting and integrating publicly deposited genetic and genomic data

12:45 PM Data Sets Available for Your Clinical Research
Supinda Bunyavanich, MD MPH FAAAAI

1:05 PM Question & Answer

1:10 PM Using Public Data to Find Gene Expression and Modulators of Gene Expression.
Leah Claire Nesbitt Kottyan, PhD

1:30 PM Question & Answer

1:35 PM Integrating Functional Genomic Data Starting with a Genomic Position
Matthew T. Weirauch, PhD

1:55 PM Question & Answer

1513 Clinical Management of Psychosocial Concerns Among Pediatric Patients with Food Allergy and Their Caregivers*Food Allergy***Session Details**

Friday, February 22, 2019: 12:45 PM-2:00 PM

Moscone Center South, Level 2, Room 203

1.25 CME/CE

Workshop

Primary Moderators:*Todd David Green, MD FAAAAI***Learning Objectives:**

1. Identify common psychosocial concerns related to food allergies
2. Describe psychosocial assessment and intervention methods that can be utilized with patients with food allergies
3. Describe how mental health professionals and allergists can collaborate to address food allergy-related psychosocial concerns

12:45 PM Mental Health Assessment for Patients with Food Allergy and Their Families
Linda Herbert, PhD

1:05 PM Question & Answer

1:10 PM Mental Health Interventions for Patients with Food Allergy and Their Families
Eyal Shemesh, MD

1:30 PM Question & Answer

1:35 PM Collaboration Among Allergists and Mental Health Professionals to Address Mental Health Concerns Among Patients with Food Allergy
Hemant P. Sharma, MD MHS FAAAAI

1:55 PM Question & Answer

1514 Advancing Care for Anaphylaxis and Food Allergy in Schools: Devil in the Details*Food Allergy***Session Details**

Friday, February 22, 2019: 12:45 PM-2:00 PM

Moscone Center South, Level 2, Room 205

1.25 CME/CE**Workshop****Primary Moderators:***Susan Waserman, MD MSc FAAAAI**To be announced.***Learning Objectives:**

1. Discuss the current research on anaphylaxis and food allergy in schools
2. Discuss how research can shape policies involving anaphylaxis and food allergy
3. Identify the role of the allergist in advocating for improved care of students at risk for anaphylaxis and food allergy

12:45 PM	Understanding School Management of Anaphylaxis and Food Allergy: What Does Research Show? <i>Julie Wang, MD FAAAAI</i>
1:05 PM	Question & Answer
1:10 PM	Using Research to Drive Policy <i>Carla M. Davis, MD FAAAAI</i>
1:30 PM	Question & Answer
1:35 PM	Advocating for Improved Care in Schools: The Role of the Allergist <i>Michael Pistiner, MD MMSc</i>
1:55 PM	Question & Answer

1515

What is the Best Treatment Strategy for the Prevention and/or Treatment of Asthma Exacerbations in Children?*Asthma***Session Details**

Friday, February 22, 2019: 12:45 PM-2:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 155

1.25 CME/CE**Workshop****Moderator:***Kirsten M Kloepfer, MD MS***Learning Objectives:**

1. Describe common symptoms that precede the development of an asthma exacerbation ("yellow zone")
2. Discuss the pros and cons of various treatment approaches that have been objectively studied in clinical trials
3. Discuss how recent clinical research findings will influence future treatment recommendations and asthma guidelines

12:45 PM	Oral Glucocorticoids in Preschool Children to Treat Asthma Exacerbations (Red Zone) <i>Anne M. Fitzpatrick, PhD</i>
1:00 PM	Question & Answer
1:05 PM	Antibiotic Treatment When Children Enter the Yellow Zone <i>Avraham Beigelman, MD MSCI FAAAAI</i>
1:20 PM	Question & Answer
1:25 PM	Intermittent Therapy with High Doses of Inhaled Glucocorticoids When Children Enter into the Yellow Zone and are Not Receiving Maintenance Inhaled Glucocorticoids <i>William J. Sheehan, MD</i>
1:40 PM	Question & Answer
1:45 PM	Inhaled Glucocorticoid Initiation or Escalation In Children Entering the Yellow Zone <i>Daniel J. Jackson, MD FAAAAI</i>
2:00 PM	Question & Answer

1516

Early Life Environmental Exposures Regulate Host Allergic Immune Responses: Lessons Learned from the AACRC Birth Cohorts*Immune Mechanisms***Session Details**

Friday, February 22, 2019: 12:45 PM-2:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 156

1.25 CME/CE**Workshop****Moderator:***Alkis Togias, MD FAAAAI***Learning Objectives:**

1. Discuss the unpublished data from University of Wisconsin MESA cohort that defines the early life environmental exposures that significantly decreased respiratory infections during the first 2 years of life in farm children compared to non-farm children
2. Define the strains of the ubiquitous respiratory syncytial virus (RSV) that are associated with increased risk of severe infant illness and later wheezing, which we call "asthmagenic" RSV strains
3. Determine the epidemiology between traffic related air pollution and childhood asthma as defined by the Cincinnati Children's Hospital CCAAPS birth cohort

12:45 PM	Effects of the Farming Environment on Immune Development and Childhood Respiratory Illnesses: Lessons from the MESA Study <i>Christine M. Seroogy, MD FAAAAI</i>
1:05 PM	Question & Answer
1:10 PM	Identifying Asthma-Causing RSV Strains and Elucidating the Mechanisms of RSV- Mediated Asthma Development: Lessons Learned from the Inspire Cohort <i>Tina V. Hartert, MD MPH</i>

- 1:30 PM Question & Answer
- 1:35 PM **Traffic Related Air Pollution and Childhood Asthma: Lessons from the CCAAPS Birth Cohort**
Patrick H. Ryan, PhD
- 1:55 PM Question & Answer

1517 **Regulatory RNA in Allergic Diseases**
Immune Mechanisms

Session Details

Friday, February 22, 2019: 12:45 PM-2:00 PM

Moscone Center South, Level 2, Room 201

1.25 CME/CE

Workshop

Moderator:

David D. Chaplin, MD PhD FAAAAI

Learning Objectives:

1. Discuss regulatory RNA in allergic diseases

- 12:45 PM Regulation of Type-2 Immunity By Long Non-Coding RNAs
- 1:05 PM Question & Answer
- 1:10 PM **MicroRNA Regulation of Lymphocytes in Allergic Diseases**
Madeleine Radinger, PhD
- 1:30 PM Question & Answer
- 1:35 PM **MicroRNAs As Biomarkers in Allergic Diseases**
Tania Maes
- 1:55 PM Question & Answer

2:15 PM-4:15 PM

1601 **Optimal Care of the Food Allergic Patient**
Food Allergy

Session Details

Friday, February 22, 2019: 2:15 PM-4:15 PM

Moscone Center South, Exhibition Level, Hall A

1.50 CME/CE

Moderator:

Robert A. Wood, MD FAAAAI

Learning Objectives:

1. Discuss the complexity of food allergy diagnosis
2. Outline the potential risks and benefits of food allergy treatments
3. Recognize the potential for new treatment strategies in the future

- 2:15 PM Introduction
- 2:20 PM **Optimal Diagnostic and Testing Strategies to Confirm Food Allergies**
Robert A. Wood, MD FAAAAI
- 2:45 PM Introduction
- 2:50 PM **Optimal Use of Emerging Treatments for Food Allergy**
A. Wesley Burks, MD FAAAAI
- 3:15 PM Introduction
- 3:20 PM **Novel Therapies in Development**
Cecilia Berin, PhD
- 3:45 PM Question & Answer

4:15 PM-5:30 PM

1801 **Gene Therapy, Gene Silencing and Gene Editing for the Clinical Allergist/Immunologist**
Immune Mechanisms

Session Details

Friday, February 22, 2019: 4:15 PM-5:30 PM

Moscone Center South, Level 2, Room 205

1.25 CME/CE

Symposium

Moderator:

Neil D. Romberg, MD

Learning Objectives:

1. Discuss the specific applications in or near clinical applications including the correction of hereditary and acquired immune deficiency, asthma and allergy
2. Discuss the ethical concerns regarding modification of the genome and somatic cells

- 4:15 PM **Clinical Trials of Gene Silencing with Anti-Sense Dnazymes for Asthma**
Harald E. Renz, MD FAAAAI
- 4:35 PM Question & Answer
- 4:40 PM **Gene Therapy Technology in Clinical Trials for Hereditary and Acquired Immune Deficiency**
Jolan E. Walter, MD

- 5:00 PM Question & Answer
- 5:05 PM Gene Silencing and Gene Editing Technology in Development
David H. Dreyfus, MD PhD FAAAAI
- 5:25 PM Question & Answer

1802 Environment and Allergic Disease: A Global Phenomenon with Particular Consequences for At Risk Populations

Allergic and Immunologic Skin Diseases

Session Details

Friday, February 22, 2019: 4:15 PM-5:30 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 155

1.25 CME/CE

Symposium

Moderator:

Anil Nanda, MD FAAAAI

Learning Objectives:

1. Compare the scientific literature on the association between environment and asthma in the inner city in both United States and worldwide
2. Compare environmental controls in the treatment of allergic diseases in pediatric, adult, and older adult populations
3. Examine the interaction between climate and allergic diseases, including asthma, on a worldwide basis, with specific consequences for pediatric, adult, and older adult populations

- 4:15 PM The Association Between Environment and Asthma in the Inner City in Both the United States and Worldwide
William J. Sheehan, MD
- 4:35 PM Question & Answer
- 4:40 PM Environmental Controls in the Treatment of Allergic Diseases in Pediatric, Adult and Older Adult Populations
Elizabeth C. Matsui, MD MHS
- 5:00 PM Question & Answer
- 5:05 PM The Interaction Between Climate and Allergic Diseases, Including Asthma, on a Worldwide Basis, with Specific Consequences for Pediatric, Adult and Older Adult Populations
Jill A. Poole, MD FAAAAI
- 5:25 PM Question & Answer

1803 Generation of Antigen-Specific IgE: A Revolution in Novel Therapies for Allergic Diseases

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Friday, February 22, 2019: 4:15 PM-5:30 PM

Moscone Center South, Level 2, Room 203

1.25 CME/CE

Symposium

Moderator:

Rob C. Aalberse, PhD

Learning Objectives:

1. Define the methodology and utility of creating hybridomas from naturally occurring human antigen-specific IgE
2. Define the methodology and utility of isotype-switched recombinant antigen-specific IgE
3. Define the molecular profiling of human serum allergen-specific IgE

- 4:15 PM Development of Isotype Switched Recombinant Peanut-Specific IgE
- 4:35 PM Question & Answer
- 4:40 PM Molecular Characterization of Naturally-Occurring Human Antigen-Specific IgE
Scott A. Smith, MD PhD
- 5:00 PM Question & Answer
- 5:05 PM Molecular Profiling of Human Serum Allergen-Specific IgE
- 5:25 PM Question & Answer

1804 An Update on the Efficacy and Safety of Subcutaneous (SCIT) and Sublingual (SLIT) Immunotherapy

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Friday, February 22, 2019: 4:15 PM-5:30 PM

Moscone Center South, Level 3, Room 305

1.25 CME/CE

Symposium

Moderator:

Peter S. Creticos, MD FAAAAI

Learning Objectives:

1. Describe the clinical efficacy of subcutaneous and sublingual allergen immunotherapy in treating rhinitis and asthma
2. Identify new clinical advocacy and immunologic findings
3. Identify available data regarding clinical outcomes and adherence patterns to develop evidence-based prescribing patterns and safety protocols

- 4:15 PM An Update on the Efficacy of Subcutaneous and Sublingual Allergen Immunotherapy
Linda S Cox, MD FAAAAI
- 4:35 PM Question & Answer
- 4:40 PM Immune Alteration and Clinical Response with SLIT and SCIT
Stephen R. Durham, MD MA

- 5:00 PM Question & Answer
- 5:05 PM **Practical Advice Regarding Protocols That Will Improve Tolerability and Adherence for Subcutaneous and Sublingual Allergen Immunotherapy**
David I. Bernstein, MD FAAAAI
- 5:25 PM Question & Answer

1805 Environmental Yeasts: An Overlooked Exposure and Potential Aeroallergen Source in the United States

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Friday, February 22, 2019: 4:15 PM-5:30 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 156

1.25 CME/CE

Symposium

Moderator:

W. Elliott Horner, PhD LEED AP FAAAAI

Learning Objectives:

1. Discuss the biology and structure of environmentally sourced yeast species
2. Describe the yeast species that have been identified in culture independent studies evaluating indoor, outdoor and occupational air and dust samples
3. Discuss the hypersensitivity reactions, characterized allergens, and epidemiological associations between yeast exposure and respiratory morbidity

- 4:15 PM **The Biology and Structure of Environmentally Sourced Yeast Species**
Estelle Levetin, PhD FAAAAI
- 4:35 PM Question & Answer
- 4:40 PM **What Have Culture Independent Studies Revealed About the Diversity of Yeast Species Within U.S. Indoor, Outdoor and Occupational Environments?**
Brett J. Green, PhD FAAAAI
- 5:00 PM Question & Answer
- 5:05 PM **Health Hazards of Yeast Exposure: What Have We Learned from Epidemiological and Clinical Studies?**
Karen C. Dannemiller, PhD
- 5:25 PM Question & Answer

1806 Food Allergy Prevention: To Screen or Not to Screen, That is the Question

Food Allergy

Session Details

Friday, February 22, 2019: 4:15 PM-5:30 PM

Moscone Center South, Exhibition Level, Hall A

1.25 CME/CE

Symposium

Moderator:

Jonathan M. Spergel, MD PhD FAAAAI

Learning Objectives:

1. Discuss the published data on cost effectiveness of peanut and egg screening (recent publications in 2018)
2. Discuss the clinical and safety experience with universal implementation without prior screening
3. Discuss the different definitions of "high risk" used over the past few years and provide some basis for the relative risk of "high risk" definitions used

- 4:15 PM **Who is Really High Risk for the Development of Food Allergy?**
Elissa Michele Abrams, MD FRCPC
- 4:35 PM Question & Answer
- 4:40 PM **Implementation of the US Peanut Allergy Prevention Guidelines By Allergists and Pediatricians**
Corinne Keet, MD MS PhD
- 5:00 PM Question & Answer
- 5:05 PM **Is Screening for Food Allergy Cost-Effective?**
Marcus S. Shaker, MD MS FAAAAI
- 5:25 PM Question & Answer

1807 The New International Urticaria Guidelines: Are They of Practical Use to the Clinical Allergist?

Allergic and Immunologic Skin Diseases

Session Details

Friday, February 22, 2019: 4:15 PM-5:30 PM

Moscone Center South, Level 2, Room 207

1.25 CME/CE

Symposium

Moderator:

Sarbjit S. Saini, MD FAAAAI

Learning Objectives:

1. Discuss the consensus statements of the International urticaria guideline
2. Discuss the similarities and differences between the international urticaria guideline and the JTF urticaria guidelines
3. Discuss the appropriate scientific evidence based evaluation and treatment of a patient presenting with chronic urticaria

- 4:15 PM **An Update on the New International Urticaria Guideline: What's New, What's Not**
Marcus Maurer
- 4:35 PM Question & Answer
- 4:40 PM **Similarities and Differences Between the International Urticaria Guidelines and the JTF Guidelines**

Thomas B. Casale, MD FAAAAI

5:00 PM Question & Answer

5:05 PM **Best Practice for Evaluation and Treatment of a Chronic Urticaria Patient: Should Allergists be Adherent to Guidelines?**
David M. Lang, MD FAAAAI

5:25 PM Question & Answer

1810 **Allied Health Plenary: Food Allergy Update**

Session Details

Friday, February 22, 2019: 4:15 PM-5:30 PM

Moscone Center South, Exhibition Level, Hall D8

1.25 CME/CE

Plenary

Moderator:

Karen L. Gregory, DNP APRN-BC RRT AE-C

Learning Objectives:

1. Describe the diagnostic testing for food allergy
2. Discuss therapies under investigation for food allergy
3. Discuss the understanding of the psycho-social needs of food allergy families

4:15 PM **Food Allergy Diagnosis and Management**

Julie Wang, MD FAAAAI

4:35 PM Question & Answer

4:40 PM **Food Allergy Research: OIT, EPIT, SLIT and Early Introduction**

Kim E. Mudd, RN MSN

5:00 PM Question & Answer

5:05 PM **Psychosocial Concerns in Food Allergy Families**

Linda Herbert, PhD

5:25 PM Question & Answer

Saturday, February 23, 2019

Thursday | Friday | Saturday | Sunday | Monday | top

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6:45 AM-8:00 AM

2021 **Allied Health: Take Your Spirometry Interpretation to the Next Level**

Lung Diseases other than Asthma

Session Details

Saturday, February 23, 2019: 6:45 AM-8:00 AM

Moscone Center South, Exhibition Level, Hall D9

1.25 CME/CE

Workshop

Moderator:

Gregory M. Metz, MD FAAAAI

Learning Objectives:

1. Discuss the role of the FEV1/FVC ratio as a measure of obstruction
2. Identify obstructive patterns found on spirometry that may indicate conditions other than asthma or COPD
3. Explore the options for bronchoprovocation testing when spirometry is normal

6:45 AM **Remember the Ratio: The Key to Spirometry Interpretation in Asthma**

Michelle R. Dickens, MSN FNP-C AE-C

7:05 AM Question & Answer

7:10 AM **Beyond Asthma and COPD: Identifying Other Obstructive Patterns in the Airways**

Karen L. Gregory, DNP APRN-BC RRT AE-C

7:30 AM Question & Answer

7:35 AM **When Spirometry Is Normal: How to Choose the Right Bronchoprovocation Test for Your Patient**

Marciarose Winston, MSN CPNP AE-C

7:55 AM Question & Answer

2022 **Allied Health: EoE: Diagnosis and Management**

Mast Cell/Eosinophilic Disorders

Session Details

Saturday, February 23, 2019: 6:45 AM-8:00 AM

Moscone Center South, Exhibition Level, Hall D10

1.25 CME/CE

Workshop

Moderator:

Sally A. Noone, RN MSN

Learning Objectives:

1. Identify information on diagnosis of EoE and current research being done
2. Discuss dietary treatments for EoE
3. Discuss the feeding difficulties and how they are managed

6:45 AM **EoE: Diagnosis and Treatment**

Mirna Chehade, MD MPH

7:05 AM	Question & Answer
7:10 AM	Dietary Management for EoE Patients <i>Raquel Z. Durban, MS RD CSP LDN</i>
7:30 AM	Question & Answer
7:35 AM	Feeding Problems in EoE <i>Alexia K. Beaugerard, MS RD CSP LD</i>
7:55 AM	Question & Answer

7:00 AM-8:00 AM

2001 Aspirin and NSAID Challenges in the Office TICKETED*Drug/Insect Allergy/Vaccines***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 1

1.00 CME/CE

Seminar

Primary Discussion Leaders:*James L. Baldwin, MD FAAAAI**Whitney W. Stevens, MD PhD***Learning Objectives:**

1. Discuss different approaches and schedules to aspirin challenge and desensitization
2. Describe complications and how to treat them in an aspirin challenge in an office setting

2002 Inflammation in Eosinophilic Esophagitis: Beyond Eosinophils TICKETED*Mast Cell/Eosinophilic Disorders***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 2

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Antonella Cianferoni, MD PhD FAAAAI**Seema S. Aceves, MD, PhD***Learning Objectives:**

1. Discuss the role of epithelial cells in EoE
2. Discuss the role of mast cells in EoE
3. Discuss the role of lymphocytes in EoE

2003 E-Cigarettes: The Arc of the Evidence: Smoking Cessation to Harm Reduction to Harm Production TICKETED*Lung Diseases other than Asthma***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 3

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Neil Alexis, PhD**Andrew S. Nickels, MD***Learning Objectives:**

1. Discuss where the balance of the debate currently sits and where the needle is pointing in terms of the "harm reduction vs harm production debate"

2004 Skin Testing to Drugs in the Outpatient Clinic TICKETED*Drug/Insect Allergy/Vaccines***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 4

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Roland Solensky, MD FAAAAI**Paige G. Wickner, MD MPH***Learning Objectives:**

1. Discuss how to perform skin testing to drugs in the outpatient clinic safely
2. Discuss how to review non-irritating skin test concentrations of various drugs

2005 How to Best Use Component Testing For Food Allergy in Clinical Practice TICKETED*Allergens/Allergy Testing/Allergy Therapeutics***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 5

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Jacob Daniel Kattan, MD**Motohiro Ebisawa, MD PhD FAAAAI*

Learning Objectives:

1. Identify patients who would benefit from component testing for food allergy more effectively
2. Explain to patients which component proteins indicate a high likelihood of clinical reactivity, and which may indicate a false positive result
3. Utilize component test results to identify good candidates for physician supervised oral food challenges more effectively

2006

Evaluation and Treatment of Angioedema: An Approach to Difficult Cases TICKETED*Anaphylaxis/Urticaria/Angioedema***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 6

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Aleena Banerji, MD**Paula J. Busse, MD FAAAAI***Learning Objectives:**

1. Discuss the differential diagnosis of angioedema
2. Discuss the mechanism of angioedema
3. Discuss treatment of angioedema based on mechanism

2007

New Solutions for Old Problems: Can Technology Improve Medication Adherence? TICKETED*Allergy Office Practice***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 10

1.00 CME/CE

Seminar

Primary Discussion Leaders:*William C. Anderson III, MD FAAAAI**Giselle Mosnaim***Learning Objectives:**

1. Discuss the current state of adherence assessment in clinical practice and the impact of poor adherence on clinical outcomes
2. Discuss the ability of electronic medication monitoring to change adherence patterns in patients as well as impact clinical outcomes
3. Identify potential barriers that may be a hindrance to the implementation of electronic medication monitoring in practice

2008

Asthma and Allergy Health Disparities Throughout the Lifespan TICKETED*Asthma***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 11

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Alan P. Baptist, MD MPH FAAAAI**Carla M. Davis, MD FAAAAI***Learning Objectives:**

1. Discuss the epidemiology of asthma and allergy health disparities in three specific age groups (infants/young children, adolescents/young adults, and older adults)
2. Identify unique contributing factors for asthma and allergy health disparities in each of the age groups
3. Discuss the specific strategies to overcome health disparities throughout the lifespan

2009

How to Apply Component Based Testing in Your Practice: A Case-Based Presentation TICKETED*Allergens/Allergy Testing/Allergy Therapeutics***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 12

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Anne Marie Singh, MD**Joerg R. Kleine-Tebbe, MD FAAAAI***Learning Objectives:**

1. Discuss the benefits and what we know about component testing for food, venom and inhalant allergy
2. Discuss the limitations of what we do not know yet about component testing for food, venom and inhalant allergy
3. Discuss the practical aspects of component testing, including how to order, what labs perform the testing, and what are FDA approved and what are not FDA approved

2010

Overcoming Barriers to Change: Relationship Centered Communication Skills to Help with Asthma Control TICKETED*Allergy Office Practice***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 13

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Brian C. Schroer, MD**Jaclyn Bjelac, MD*

Learning Objectives:

1. Discuss and apply specific relationship-centered communication skills to approach barriers to change

2011 Mast Cell and Eosinophilic Disease: The Value of a Hematology Consult TICKETED*Mast Cell/Eosinophilic Disorders***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 14
 1.00 CME/CE

Seminar**Primary Discussion Leaders:**

Melody C. Carter, MD FAAAAI
 Dean D. Metcalfe, MD, FAAAAI

Learning Objectives:

1. Review the diagnostic workup in patients with suspected mast cell or eosinophilic disorders
2. Discuss the criteria for bone marrow biopsy in patients with mast cell and eosinophilic disorders and when to refer to a hematologist

2023 Allied Health: Chronic Rhinosinusitis: Beyond the Basics TICKETED*Rhinosinusitis/Ocular Allergy***Session Details**

Saturday, February 23, 2019: 7:00 AM-8:00 AM
 Moscone Center South, Exhibition Level, Hall D11
 1.00 CME/CE

Seminar**Primary Discussion Leaders:**

Mahboobeh Mahdavinia, MD PhD
 Joseph K. Han, MD FAAAAI

Learning Objectives:

1. Discuss different clinical and exam features of Chronic Rhinosinusitis (CRS) compared to chronic rhinitis
2. Discuss which tests are appropriate to order in a patient with CRS and when they should be considered
3. Describe treatment modalities for CRS including the idea of "maximal medical therapy" and when to refer for an otolaryngology opinion

8:15 AM-10:15 AM

2101 Outcomes, Education and Healthcare Delivery in Allergic Diseases*Allergy Office Practice***Session Details**

Saturday, February 23, 2019: 8:15 AM-10:15 AM
 Moscone Center South, Exhibition Level, Hall A
 1.50 CME/CE

Moderator:

Asriani M. Chiu, MD FAAAAI

Learning Objectives:

1. Discuss and define patient-centered outcomes for allergic diseases
2. Discuss how to teach providers, patients and families about allergic diseases
3. Describe the principles of shared decision making to patients and families with allergic diseases

8:15 AM	Introduction
8:20 AM	Patient-Centered Outcomes in Allergic Diseases: Accounting for Quality of Life and Healthcare Disparities <i>Carla M. Davis, MD FAAAAI</i>
8:45 AM	Introduction
8:50 AM	Educating Colleagues, Patients and their Families about Allergic Diseases <i>David R Stukus, MD, FAAAAI</i>
9:15 AM	Introduction
9:20 AM	Shared Decision Making in Allergic Diseases <i>Maureen George, PhD RN AE-C</i>
9:45 AM	Question & Answer

10:45 AM-12:00 PM

2301 Asthma Care in the Era of Precision Medicine*Asthma***Session Details**

Saturday, February 23, 2019: 10:45 AM-12:00 PM
 Moscone Center South, Level 2, Room 207
 1.25 CME/CE

Symposium**Moderator:**

Leonard B. Bacharier, MD FAAAAI

Learning Objectives:

1. Discuss a variety of established and emerging biomarkers in the identification of asthma phenotypes
2. Identify asthma endotypes and phenotypes in adults and children with asthma
3. Describe the implications of personalized asthma care among individual patients

10:45 AM	Available and Emerging Biomarkers As Tools to Identify Asthma Phenotypes <i>Matthew C Altman, MD, MPhil</i>
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11:05 AM	Question & Answer
11:10 AM	Asthma Phenotypes and Endotypes: Insights into Disease Causation and Mechanisms <i>Sally E. Wenzel, MD FAAAAI</i>
11:30 AM	Question & Answer
11:35 AM	Personalized Medicine at the Patient and Population Levels <i>Stanley J. Szeffer, MD FAAAAI</i>
11:55 AM	Question & Answer

2302 **Primary Immunodeficiency Disease Outcomes: Are They Improving?***Immunodeficiency***Session Details**

Saturday, February 23, 2019: 10:45 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 155

1.25 CME/CE

Symposium

Moderator:*Elena E. Perez, MD PhD FAAAAI***Learning Objectives:**

1. Discuss outcomes using modern therapeutic approaches and current challenges to further optimization of care for patients with widely-recognized primary immunodeficiency diseases
2. Recognize quality of life issues that continue to require advancement and attention in patients with primary immunodeficiency diseases
3. Examine how best practice measures are impacting utilization of healthcare resources

10:45 AM	Classic Diseases: SCID, CVID, CGD, XLA and X-HiGM <i>Kathleen E. Sullivan, MD PhD FAAAAI</i>
11:05 AM	Question & Answer
11:10 AM	Quality of Life
11:30 AM	Question & Answer
11:35 AM	Healthcare Utilization <i>Mark Ballow, MD FAAAAI</i>
11:55 AM	Question & Answer

2303 **Growing Your Practice While Earning MOC Credit with the AAAAI Clinical Rotation Curriculum***Allergy Office Practice***Session Details**

Saturday, February 23, 2019: 10:45 AM-12:00 PM

Moscone Center South, Level 3, Room 303

1.25 CME/CE

Symposium

Moderator:*Gerald B. Lee, MD***Learning Objectives:**

1. Discuss how to start a allergy/immunology elective in their clinic
2. Discuss how to assess the competence of learners and give meaningful feedback
3. Describe how to register with the ABAI to earn part IV MOC credit for medical education

10:45 AM	How to Run an Allergy Elective in a Busy Allergy/Immunology Practice <i>Jeffrey G. Demain, MD FAAAAI</i>
11:05 AM	Question & Answer
11:10 AM	Tips and Tricks on Teaching a New Generation of Learner
11:30 AM	Question & Answer
11:35 AM	How to Earn ABAI Part IV MOC Credit Through Medical Education <i>Luz S. Fonacier, MD FAAAAI</i>
11:55 AM	Question & Answer

2304 **Does CRS Without NP Need a Different Approach?***Rhinosinusitis/Ocular Allergy***Session Details**

Saturday, February 23, 2019: 10:45 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 156

1.25 CME/CE

Symposium

Moderator:*Patricia Takach, MD FAAAAI***Learning Objectives:**

1. Describe the pathobiology of CRS without NP Describe the pathobiology of CRS without NP
2. Identify the unique clinical presentation of CRS without NP
3. Describe the therapeutic approaches to CRS without NP Describe the therapeutic approaches to CRS without NP

10:45 AM	Pathogenesis of CRS without NP: Neutrophilic Vs. Eosinophilic? <i>Mahboobeh Mahdavinia, MD PhD</i>
11:05 AM	Question & Answer

- 11:10 AM **Are Clinical Presentations of CRS without NP Different from CRS with NP?**
Seong Ho Cho, MD FAAAAI
- 11:30 AM **Question & Answer**
- 11:35 AM **Is the Medical or Surgical Management of CRS without NP Different from CRS with NP?**
Martin Wagenmann, MD FAAAAI
- 11:55 AM **Question & Answer**

2305 **World Allergy Forum: New Advances in Allergen Immunotherapy**

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 3, Room 305

1.25 CME/CE

Symposium

Primary Moderators:

Ignacio J. Ansotegui, MD PhD

Robert A. Wood, MD FAAAAI

Learning Objectives:

1. Discuss all allergen immunotherapy mechanisms
2. Identify different approaches of allergen immunotherapy for asthma
3. Define the mechanisms and systems for food immunotherapy

- 10:45 AM **Current Knowledge of Allergen Immunotherapy Mechanisms**
Mubeccel Akdis, MD PhD
- 11:05 AM **Question & Answer**
- 11:10 AM **Current Evidence of Allergen Immunotherapy in Asthma**
Maria Victoria Cardona, MD, PhD
- 11:30 AM **Question & Answer**
- 11:35 AM **Food Immunotherapy**
Motohiro Ebisawa, MD PhD FAAAAI
- 11:55 AM **Question & Answer**

2306 **Innate Immunity in Allergic Responses**

Immune Mechanisms

Session Details

Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 201

1.25 CME/CE

Symposium

Moderator:

Christina L. Nance, PhD MA FAAAAI

Learning Objectives:

1. Describe most current scientific information relating to innate immunity in allergy
2. Describe this information to better interrupt and understand new findings in the field of allergy

- 10:45 AM **Type 2 Innate Lymphoid Cells in Allergic Inflammation**
Donata Vercelli, MD
- 11:05 AM **Question & Answer**
- 11:10 AM **Dendritic Cell Regulation in Allergic Responses**
Michelle A. Gill, MD PhD
- 11:30 AM **Question & Answer**
- 11:35 AM **Dendritic Cell Regulation of Type 2 Innate Lymphoid Cells in Allergic Inflammation**
Speaker to be announced.
- 11:55 AM **Question & Answer**

2307 **Stories from the AAAAI Foundation**

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 203

1.25 CME/CE

Symposium

Moderator:

William W. Busse

Learning Objectives:

1. Describe the immune mechanisms regulating food allergy pathogenesis
2. Discuss the mechanisms of esophageal remodeling in eosinophilic esophagitis
3. Discuss the role of IgE receptor signaling in food allergy pathogenesis

- 10:45 AM **Esophageal Remodeling in Eosinophilic Esophagitis**
Seema S. Aceves, MD, PhD
- 11:05 AM **Question & Answer**

- 11:10 AM **IgE Receptor Signaling in Food Allergy Pathogenesis**
Hans C. Oettgen, MD PhD FAAAAI
- 11:30 AM **Question & Answer**
- 11:35 AM **Immune Mechanisms Regulating Food Allergy Pathogenesis**
Kari C. Nadeau, MD PhD
- 11:55 AM **Question & Answer**

2308

The Microbiome in Food Allergy*Food Allergy***Session Details**

Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 205

1.25 CME/CE

Symposium

Moderator:

*Diane R. Gold, MD, MPH***Learning Objectives:**

1. Discuss what human cohort studies have taught us about the role of the microbiome in food allergy
2. Discuss what murine models have taught us about the role of the microbiome in food allergy
3. Discuss the role of metabolites produced by gut microbiota in allergy pathogenesis

- 10:45 AM **The Microbiome and Food Allergy: Lessons Learned from Human Cohort Studies**
Supinda Bunyavanich, MD MPH FAAAAI
- 11:05 AM **Question & Answer**
- 11:10 AM **The Microbiome and Food Allergy: Lessons Learned from Murine Models**
Talal A. Chatila, MD MSc
- 11:30 AM **Question & Answer**
- 11:35 AM **Microbially-Derived Metabolites and Their Role in Food Allergy**
- 11:55 AM **Question & Answer**

2309

Implementation of Food Immunotherapy into Clinical Practice*Allergens/Allergy Testing/Allergy Therapeutics***Session Details**

Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Exhibition Level, Hall A

1.25 CME/CE

Symposium

Moderator:

*Stacie M. Jones, MD***Learning Objectives:**

1. Discuss the various risks/benefits and advantages/disadvantages amongst the various immunotherapies currently under investigation (SCIT, SLIT, OIT, EPIT)
2. Discuss how providers, parents and patients should best decide which therapy may be best for them, or whether ongoing avoidance may be more practical
3. Discuss how to prepare providers and nurses for the use of food immunotherapy

- 10:45 AM **What Are Risks and Benefits, Advantages and Disadvantages of Each Food Immunotherapy?**
David M. Fleischer, MD FAAAAI
- 11:05 AM **Question & Answer**
- 11:10 AM **Decision Making: Which Patients for Which Therapy?**
Matthew J. Greenhawt, MD MBA MSc
- 11:30 AM **Question & Answer**
- 11:35 AM **Practical Implementation of Food It into Your Clinical Practice**
Hugh H. Windom, MD FAAAAI
- 11:55 AM **Question & Answer**

12:00 PM-1:45 PM

2405

Careers Paths in Allergy and Immunology TICKETED*Allergy Office Practice***Session Details**

Saturday, February 23, 2019: 12:00 PM-1:45 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 160

0.00 CME/CE

Course

Moderator:

Learning Objectives:

1. Compare and contrast those career paths to allow the attendee to identify key components in those paths that fit with their future career plans and goals
2. Discuss the different career paths available in the field of Allergy and Immunology
3. Enhance engagement of the attendees with the speakers during the break-out Q&A portion of the session

- 12:00 PM **Lunch**
- 12:15 PM **Welcome and Introduction**

	<i>Kimberly A. Risma, MD, PhD, FAAAAI</i>
12:20 PM	Academia Clinical <i>Amy M. Scurlock, MD</i>
12:30 PM	Academia Research <i>Mitchell H. Grayson, MD FAAAAI</i>
12:40 PM	Industry <i>Dorothy S. Cheung, MD FAAAAI</i>
12:50 PM	Government <i>Melody C. Carter, MD FAAAAI</i>
1:00 PM	Private Practice <i>Andrew W. Murphy, MD FAAAAI</i>
1:10 PM	Summary <i>Kimberly A. Risma, MD, PhD, FAAAAI</i>
1:15 PM	Breakout Question & Answer

12:00 PM-2:00 PM

2401

Practical Approaches to Adjunctive Management of Primary Immunodeficiency Diseases*Immunodeficiency***Session Details**

Saturday, February 23, 2019: 12:00 PM-2:00 PM

Moscone Center South, Exhibition Level, Hall D3

0.25 CME/CE

Workshop

Learning Objectives:

1. Apply evidence-based information on the initiation and maintenance use of IgG replacement, both in the IV and SC formulations Apply evidence-based observations to practice concerning use of antimicrobial therapies and probiotics in patients with primary immunodeficiency diseases
2. Discuss best practices for patients receiving SC IgG replacement therapy including a review of the different products, dosing of the medication, best anatomical locations for the infusions, and ways to decrease discomfort during the infusion Understand current recommendations for use of vaccines in primary immunodeficiency disease patients and their close contacts
3. List the appropriate laboratory testing required in patients who are on IgG replacement therapy Comfortably initiate and manage the use of biologic medications in patients with primary immunodeficiency diseases

12:00 PM

Hands-on Training Station**Faculty***Elena E. Perez, MD PhD FAAAAI***Faculty***Mark Ballow, MD FAAAAI***Faculty***Benjamin T Prince, MD, MSCI***Faculty***Maria A. Slack, MD***Faculty***Debra A. Sedlak, MSN CPNP***Faculty***William R. Blouin, ARNP***Faculty***Kenneth Paris, MD MPH***Faculty***Charlotte Cunningham-Rundles, MD PhD FAAAAI***Faculty***Francisco A. Bonilla, MD PhD FAAAAI***Faculty***Speaker to be announced.*

2402

Oral Food Challenges I*Food Allergy***Session Details**

Saturday, February 23, 2019: 12:00 PM-2:00 PM

Moscone Center South, Exhibition Level, Hall D3

0.25 CME/CE

Workshop

Learning Objectives:

1. Demonstrate techniques for preparing foods for oral food challenges in the office setting
2. Demonstrate techniques for administering oral food challenges in the office setting
3. Discuss practical aspects of safely preparing and administering foods for oral food challenges in different age groups

12:00 PM

Hands-on Training Station**Faculty***J. Andrew Bird, MD FAAAAI***Faculty**

R. Sharon Chinthrajah, MD

Faculty

Gita Ram, MD

Faculty

Jacob Daniel Kattan, MD

Faculty

Lauren Kronisch, RD LD

Faculty

Megan Ott Lewis, MSN CRNP

Faculty

Andrea Bell, MS RD LD

Faculty

Kim E. Mudd, RN MSN

Faculty

Amanda Louise Cox, MD FAAAAI

Faculty

Malika Gupta, MD

12:30 PM-1:30 PM

2501 There's an App for That: The Use of Mobile Technology in Clinical Practice TICKETED

Allergy Office Practice

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 1

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Melinda M. Rathkopf, MD FAAAAI

Nabeel Farooqui, MD FAAAAI

Learning Objectives:

1. Discuss novel applications of the iPhone/iPad, Android and other smart devices in daily practice
2. Provide hands on demonstrations of how to navigate the AAAAI annual meeting app, evaluations and access handouts
3. Discuss how to use mobile technology to enhance patient engagement

2502 Venom Allergy: When to Suspect Mastocytosis TICKETED

Mast Cell/Eosinophilic Disorders

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 2

1.00 CME/CE

Seminar

Primary Discussion Leaders:

David B.K. Golden, MD FAAAAI

Cem Akin, MD PhD FAAAAI

Learning Objectives:

1. Describe patients with high risk of having mastocytosis presenting with venom allergy
2. Describe the efficacy and treatment options of venom immunotherapy in patients with mastocytosis

2503 Asthma in Preschool Children: Primary and Secondary Prevention and Management of Exacerbations TICKETED

Asthma

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 3

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Avraham Beigelman, MD MSCI FAAAAI

William J. Sheehan, MD

Learning Objectives:

1. Describe potential approaches for primary prevention of preschool asthma/episodic wheeze
2. Discuss common asthma phenotypes among preschool children, and how asthma therapies could be tailored based on these phenotypes
3. Describe the management of acute exacerbations

2504 Hypereosinophilic Syndrome: Evaluation and Management Options TICKETED

Mast Cell/Eosinophilic Disorders

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 4

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Sameer K. Mathur, MD PhD FAAAAI

Amy D. Klion, MD

Learning Objectives:

1. Describe differential diagnosis of eosinophilia and criteria for hypereosinophilia
2. Discuss clinical presentation of hypereosinophilic syndrome
3. Discuss treatment options for hypereosinophilic syndrome

2505 **Case-Based Learning: Challenges in FPIES Management** TICKETED

Food Allergy

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 5

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Qian Yuan, MD PhD

Elizabeth J. Feuille, MD

Learning Objectives:

1. Describe manifestations of acute, chronic and atypical FPIES
2. Identify approaches to solid food introduction in infants with multiple food FPIES
3. Describe oral food challenge procedure for FPIES

2506 **Cannabis Sativa: Marijuana as Medicine and Allergen?** TICKETED

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 6

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Ajay P. Nayak, PhD

To be announced.

Learning Objectives:

1. Increase knowledge of cannabis as medicine
2. Examine evidence for allergic reactions

2507 **Biologic Therapies and Occupational Asthma** TICKETED

Asthma

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 10

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Santiago Quirce, MD PhD

To be announced.

Learning Objectives:

1. Discuss possible advantages and disadvantages of biological treatments for asthma in patients with occupational asthma

2508 **The Mechanic's Guide to Nanoparticles in the Airways** TICKETED

Lung Diseases other than Asthma

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 11

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Peter J. Pityn, PhD

To be announced.

Learning Objectives:

1. Describe how to differentiate between nano-sized particles (ultra-fine particles) and nanoparticles
2. Discuss the deposition of inhaled nanoparticles in the lung and their clearance from the airways
3. Describe the limited understanding of nanoparticle toxicology

2509 **Adult Primary Immunodeficiencies** TICKETED

Immunodeficiency

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 12

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Jolan E. Walter, MD

Manish J. Butte, MD PhD

Learning Objectives:

1. Discuss the immunological landscape of common PID in adults and how to approach diagnosis
2. Discuss when to consider genetic testing for PID in an adult
3. Discuss treatment options from IgRT to immune modulation

2510 **Demystifying the NIH Grant Submission/Peer Review Process**

Research Principles

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 151
1.00 CME/CE

Seminar**Primary Discussion Leaders:**

Alok Mulky, Ph.D.
David P. Huston, MD FAAAAI

Learning Objectives:

1. Define the Peer Review processes by which the NIH Center for Scientific Review manages the review of research grant applications
2. Specify approaches to enhance the likelihood that a grant application will be favorably reviewed and recommended for funding
3. Define fundamental features of study sections, including information about the HAMI recurrent Special Emphasis Panel (SEP)

2551

Antibiotics are Effective Therapy for the Management of Acute Episodic Wheeze in Preschool Children*Asthma*

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM
Moscone Center South, Level 2, Room 207
1.00 CME/CE
Pro/Con Debate

Moderator:

Stokes Peebles Jr., MD FAAAAI

Primary Pro Speaker:

Leonard B. Bacharier, MD FAAAAI

Primary Con Speaker:

Jay M. Portnoy, MD FAAAAI

Learning Objectives:

1. Define the effectiveness of antibiotic therapy for management of acute episodic wheeze in preschool children
2. Define the potential adverse effects of antibiotic therapy for management of acute episodic wheeze in preschool children
3. Define the public health, including cost, ramifications of antibiotic therapy for management of acute episodic wheeze in preschool children

2552

Mast Cell Activation Syndrome is Over-Recognized*Mast Cell/Eosinophilic Disorders*

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156
1.00 CME/CE
Pro/Con Debate

Moderator:

Mariana C. Castells, MD PhD

Primary Pro Speaker:

Catherine Randa Weiler, MD PhD FAAAAI

Primary Con Speaker:

Patrizia Bonadonna, MD

Learning Objectives:

1. Define Mast Cell Activation Syndrome
2. Review associated symptoms
3. Identify appropriate therapies

2553

IL-33, and Not TSLP, Is the Primary Driver of the Innate Allergic Immune Response*Immune Mechanisms*

Session Details

Saturday, February 23, 2019: 12:30 PM-1:30 PM
Moscone Center South, Level 3, Room 303
1.00 CME/CE
Pro/Con Debate

Moderator:

Taylor A Doherty

Primary Pro Speaker:

Hirohito Kita, MD

Primary Con Speaker:

Atsushi Kato, PhD

Learning Objectives:

1. Define the role of a IL-33 and activating the innate allergic immune response
2. Determine the importance of TSLP in stimulating and innate immunity to aeroallergens
3. Define strategies to inhibit the innate allergic airway response for therapeutic purposes

12:30 PM-1:45 PM

2555

NHLBI: Precision Medicine in Asthma*Asthma*

Session Details

Saturday, February 23, 2019: 12:30 PM-1:45 PM

Moscone Center South, Level 3, Room 305

1.25 CME/CE

Symposium

Moderator:

To be announced.

Learning Objectives:

1. Discuss the design and implementation of adaptive, precision clinical trial protocols in targeted asthma phenotypes
2. Differentiate the roles of predictive and monitoring biomarkers in adaptive clinical trial designs

12:30 PM	Precision Medicine in Asthma Therapy and the Precise Network <i>Rosalind J. Wright, MD MPH</i>
12:50 PM	Question & Answer
12:55 PM	Statistical Considerations for Precision Adaptive Trials in Asthma <i>Lisa LaVange, PhD</i>
1:15 PM	Question & Answer
1:20 PM	Protocol Design and Implementation in the Precise Network <i>Loren Denlinger, MD PHD</i>
1:40 PM	Question & Answer

2556 **NIAID: Allergic Sensitization and the March to Allergic Diseases**

Immune Mechanisms

Session Details

Saturday, February 23, 2019: 12:30 PM-1:45 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 155

1.25 CME/CE

Symposium

Moderator:

Peter J. Gergen, MD MPH

Learning Objectives:

1. Discuss the role of the development of allergen sensitization at various stages of childhood as a risk factor for subsequent development of allergic diseases and their phenotypic expression
2. Discuss how sensitization to specific allergen components may relate to the phenotype of allergic disease

12:30 PM	Phenotypes of Specific Allergic Sensitization: Do They Matter? <i>Christine Cole Johnson, PhD MPH FAAAAI</i>
12:50 PM	Question & Answer
12:55 PM	Allergic Sensitization and the Development of Allergic Disease in the First 10 Years of Life <i>James E. Gern, MD FAAAAI</i>
1:15 PM	Question & Answer
1:20 PM	Sensitization to Allergen Components and Its Relationship to the Phenotype of Allergic Disease <i>Anna Pomés, PhD FAAAAI</i>
1:40 PM	Question & Answer

2557 **Interesting Cases Part I**

Allergy Office Practice

Session Details

Saturday, February 23, 2019: 12:30 PM-1:45 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 159

1.25 CME/CE

Workshop

Learning Objectives:

1. 1

2:00 PM-3:15 PM

2611 **Allied Health: Recurrent Infections, Severe Eczema, or Failure to Thrive: Is it Allergy or Immunodeficiency?**

Immunodeficiency

Session Details

Saturday, February 23, 2019: 2:00 PM-3:15 PM

Moscone Center South, Exhibition Level, Hall D9

1.25 CME/CE

Workshop

Moderator:

Debra A. Sedlak, MSN CPNP

Learning Objectives:

1. Discuss how to assess and manage a patient presenting with an immune dysfunction

2:00 PM	Is it Allergy? <i>William R. Blouin, ARNP</i>
2:20 PM	Question & Answer
2:25 PM	Is it Immunodeficiency?
2:45 PM	Question & Answer

2:50 PM **There is a Diagnosis: Now What?**
M. Elizabeth M. Younger, CRNP PhD

3:10 PM **Question & Answer**

2612 **Allied Health: Update on Allergen Extract Compounding: Immunotherapy Survey Results and Coding**

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Saturday, February 23, 2019: 2:00 PM-3:15 PM

Moscone Center South, Exhibition Level, Hall D12

1.25 CME/CE

Workshop

Moderator:

Cheryl K. Bernstein, RN BSN CCRC

Learning Objectives:

1. Describe the USP Chapter 797 allergy section compounding requirements for the allergy office
2. Discuss the FDA decision regarding compounding in the allergy office
3. Discuss the immunotherapy survey results and recommendations to prevent anaphylaxis

2:00 PM **FDA Update on Allergen Extract Compounding**
Andrew W. Murphy, MD FAAAAI

2:20 PM **Question & Answer**

2:25 PM **Immunotherapy Survey Results**
David I. Bernstein, MD FAAAAI

2:45 PM **Question & Answer**

2:50 PM **Immunotherapy Coding: Problem Solving**
Teresa Thompson, CPC CMSCS CCC

3:10 PM **Question & Answer**

2613 **Allied Health: Tree Nut Allergy: Clinical Update**

Food Allergy

Session Details

Saturday, February 23, 2019: 2:00 PM-3:15 PM

Moscone Center South, Exhibition Level, Hall D10

1.25 CME/CE

Workshop

Moderator:

Terri Gagen-Hursey, NP

Learning Objectives:

1. Discuss the clinical application of component testing to tree nuts
2. Describe oral food challenges to tree nuts in the clinical setting
3. Discuss ways of teaching patients to integrate tree nuts into their diet after a successful tree nut challenge

2:00 PM **Component Testing for Tree Nuts: What's Useful? What's New? What's Coming?**
Jennifer A. Dantzer, MD

2:20 PM **Question & Answer**

2:25 PM **Tree Nut Oral Food Challenges: Logistics and Procedures: Are We All Doing This the Same Way?**
Jodi A. Shroba, MSN APRN CPNP

2:45 PM **Question & Answer**

2:50 PM **How Do We Convince Patients to Integrate Tree Nuts into Their Diet After a Successful Challenge?**
Isabel J. Skypala, PhD RD

3:10 PM **Question & Answer**

2614 **Allied Health: Perspectives from the Allied Health Travel Scholarship Recipients**

Allergy Office Practice

Session Details

Saturday, February 23, 2019: 2:00 PM-3:15 PM

Moscone Center South, Exhibition Level, Hall D8

1.25 CME/CE

Workshop

Moderator:

Kim E. Mudd, RN MSN

Learning Objectives:

1. Discuss activities by Allied Health members that contribute to overall patient care

3:30 PM-4:30 PM

2701 **Constructing Individualized Health Course Trajectories to Construct Better Models of Asthma and Other Immune/Inflammation Disorders**

Immune Mechanisms

Session Details

Saturday, February 23, 2019: 3:30 PM-4:30 PM

Moscone Center South, Exhibition Level, Hall A

1.00 CME/CE

Keynote

Moderator:

Robert A. Wood, MD FAAAAI

Primary Speaker:

To be announced.

Learning Objectives:

1. to be added

4:45 PM-6:00 PM

2801 **Hot Topics in Pediatric Allergy & Immunology**

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Level 2, Room 207

1.25 CME/CE

Workshop

Moderator:

Elizabeth C. Matsui, MD MHS

Learning Objectives:

1. Describe the latest developments in pediatric allergy and immunology
2. Discuss how these findings impact the care of pediatric patients

4:45 PM	Food Allergy <i>Pooja Varshney, MD</i>
5:05 PM	Question & Answer
5:10 PM	Primary Immune Deficiency <i>Lisa R. Forbes, MD</i>
5:30 PM	Question & Answer
5:35 PM	Asthma <i>Tamara T. Perry, MD</i>
5:55 PM	Question & Answer

2802 **ABAI Continuous Assessment Program (CAP) Pilot: One Year Later**

Allergy Office Practice

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Level 3, Room 303

1.25 CME/CE

Workshop

Moderator:

Theodore Monroe Freeman, MD FAAAAI

Learning Objectives:

1. Describe the CAP Pilot program and the importance of Maintenance of Certification
2. Describe what both the ABAI and its diplomates have learned through the first year of the program
3. Identify the current and proposed future changes to the CAP Pilot program and why they were made

4:45 PM	ABAI's CAP Pilot Program Description: The Article-Based Open-Book Examination <i>Theodore Monroe Freeman, MD FAAAAI</i>
5:05 PM	What the ABAI and Its Diplomates Have Learned after the First Year of CAP <i>Kathleen R. May, MD FAAAAI</i>
5:25 PM	Current and Proposed Changes to the CAP Program <i>Mitchell H. Grayson, MD FAAAAI</i>
5:45 PM	Question & Answer

2803 **Asthma and the Athlete: Insights from an Ironman Legend**

Asthma

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 156

1.25 CME/CE

Workshop

Moderator:

Justin C. Greiwe, MD FAAAAI

Learning Objectives:

1. Discuss how athletes deal with asthma/EIB from the personal account of a professional athlete
2. Discuss anti-doping regulations and therapeutic use exemptions for competitive athletes
3. Provide interactive space for an expert panel discussion with feedback from both the audience and Dr. Zeiger

4:45 PM	Asthma and the Athlete: Insights from an Ironman Legend <i>Joanna Zeiger, MS, PhD</i>
4:55 PM	Question & Answer
5:00 PM	Nuts and Bolts of Evaluating the Athlete with Dyspnea <i>Louis-Philippe Boulet, MD FRCPC</i>
5:20 PM	Question & Answer

5:25 PM **Guidelines of Treating the Athlete with EIB**
Christopher C. Randolph, MD FAAAAI

5:45 PM **Athletes and Asthma: Expert Panel Discussion and Audience Feedback**

2804 **Gender Disparities in Asthma: Are Hormones to Blame?**

Asthma

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Level 2, Room 205

1.25 CME/CE

Workshop

Moderator:

Kathryn E. Hulse, PhD

Learning Objectives:

1. Discuss recent research findings on how hormones regulate inflammatory pathways in asthma

4:45 PM **Sex Differences in AERD: Lipid Mediator Biology and Beyond**
Katherine N. Cahill, MD

5:05 PM **Question & Answer**

5:10 PM **Estrogen Signaling Modulates Macrophage Polarization**

5:30 PM **Question & Answer**

5:35 PM **Hormonal Programming of Epithelium in Asthma Phenotypes**
Sergejs Berdnikovs, PhD

5:55 PM **Question & Answer**

2805 **Quality Reporting and The Quality Clinical Data Registry: A 2019 Update**

Research Principles

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Level 2, Room 203

1.25 CME/CE

Workshop

Moderator:

Andrew W. Murphy, MD FAAAAI

Learning Objectives:

1. Discuss any federal updates for the merit-based incentive payment system and quality reporting program
2. Discuss alternative payment models and implications for A/I practice
3. Describe the role of the AAAAI Quality Clinical Data Registry in implementing these requirements in practice

4:45 PM **Merit-Based Incentive Payment System and Quality Reports: Where Are We Now?**
Emily L. Graham, RHIA CCS-P

5:05 PM **Question & Answer**

5:10 PM **Alternative Payment Models for A/I Practice**
Cindy H. Moon, MPP MPH

5:30 PM **Question & Answer**

5:35 PM **What Is a Quality Clinical Data Registry and How Can It Help You?**
Gary C. Steven, MD PhD FAAAAI

5:55 PM **Question & Answer**

2806 **JACI Year-in-Review Workshop**

Allergy Office Practice

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Level 3, Room 305

1.25 CME/CE

Workshop

Moderator:

Zuhair K. Ballas, MD FAAAAI

Learning Objectives:

1. Discuss how the JACI's published content impacts the research or clinical practice of the attendees
2. Describe the latest advances in food allergy diagnosis and emerging treatments
3. Discuss the current research on atopic dermatitis

4:45 PM **Food Allergy**
Corinne Keet, MD MS PhD

5:05 PM **Question & Answer**

5:10 PM **Atopic Dermatitis**
Emma Guttman-Yassky, MD PhD

5:30 PM **Question & Answer**

5:35 PM **Biologics in Asthma**
Stokes Peebles Jr., MD FAAAAI

5:55 PM **Question & Answer**

2807 A Review of Cross-Reactivity Patterns, Extract Stability, Optimal Dosing and Mixing for Subcutaneous Allergen Immunotherapy: A Case-Based Immunotherapy Prescription Mixing Workshop

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Level 2, Room 201

1.25 CME/CE

Workshop

Moderator:

Mike Tankersley, MD MBA FAAAAI

Learning Objectives:

1. Discuss the cross-reactivity patterns of pollens and stability of different extracts when mixed together (pollens vs molds vs danders vs dust mite)
2. Discuss the math-free guides recently published for allergen doses and glycerin concentrations
3. Discuss case scenarios and how one may formulate a patient's immunotherapy prescription

4:45 PM	Cross-Reactivity Patterns and Allergen Stability Relevant to Prescribing Allergen Immunotherapy <i>Tolly Epstein, MD FAAAAI</i>
5:05 PM	Question & Answer
5:10 PM	Updated Math-Free Guidelines for Allergen Immunotherapy Doses and Glycerin Concentrations <i>Punita Ponda, MD FAAAAI</i>
5:30 PM	Question & Answer
5:35 PM	An Open Discussion of Case Scenarios That Will Augment Your Existing Immunotherapy Prescribing Patterns <i>Christopher W. Calabria, MD FAAAAI</i>
5:55 PM	Question & Answer

2808 Sputum Transcriptomics of Neutrophilic Asthma

Immune Mechanisms

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 151

1.25 CME/CE

Workshop

Moderator:

Sanjiv Sur, MD

Learning Objectives:

1. Identify neutrophilic inflammation in asthma

4:45 PM	Multi-Tissue Transcriptomic Analysis of Neutrophilic Asthma
5:05 PM	Question & Answer
5:10 PM	Primary Title (Adcock): Sputum Transcriptomics of Neutrophilic Asthma / Alternative Title (Baines): Epigenetics of Neutrophilic Asthma <i>Ian M. Adcock, PhD</i>
5:30 PM	Question & Answer
5:35 PM	Bronchoalveolar Lavage (BAL) and Serum Proteomic-Based Mechanistic Insights into Airway Neutrophilic Inflammation in Refractory Asthma
5:55 PM	Question & Answer

2809 The Effect of Health Disparities on Allergy and Immunology Practice

Research Principles

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Level 3, Room 301

1.25 CME/CE

Workshop

Moderator:

Julie Wang, MD FAAAAI

Learning Objectives:

1. Discuss how health disparities affect patients in the field of allergy/immunology and learn how to implement specific behaviors to improve health outcomes

4:45 PM	What Are Health Disparities and Why Do They Occur? <i>Princess U. Ogbogu, MD FAAAAI</i>
5:05 PM	Question & Answer
5:10 PM	Recognizing Health Disparities in Allergy and Immunology <i>Carla M. Davis, MD FAAAAI</i>
5:30 PM	Question & Answer
5:35 PM	Bridging the Disparity Gap to Improve Health Outcomes <i>Andrea J. Apter, MD MA MSc FAAAAI</i>
5:55 PM	Question & Answer

2810 Taking a Closer Look at Venom Immunotherapy from Several Angles

Drug/Insect Allergy/Vaccines

Session Details

Saturday, February 23, 2019: 4:45 PM-6:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 155

1.25 CME/CE

Workshop

Moderator:*Desiree E.S. Larenas Linnemann, MD FAAAAI***Learning Objectives:**

1. Describe a variety of views on venom immunology issues
2. List strategies to improve patient and extract selection using molecular diagnosis for hymenoptera venom allergy
3. Discuss whether patients with specific underlying medical conditions might be candidates for VIT

4:45 PM	Who Really Need VIT? <i>Hanneke (J.N.G.) Oude Elberink, MD PhD</i>
5:05 PM	Question & Answer
5:10 PM	VIT in Highly Reactive Patients and in Patients with Special Medical Conditions <i>James M. Tracy, DO FAAAAI</i>
5:30 PM	Question & Answer
5:35 PM	VIT: Classic and Alternative Administration Schedules <i>David B.K. Golden, MD FAAAAI</i>
5:55 PM	Question & Answer

Sunday, February 24, 2019

Thursday | Friday | Saturday | Sunday | Monday | top

Claim your credits at the registration desk or at <https://ws3.cmreg.com/aaaai18cme/>

7:00 AM-8:00 AM

3001 Non-IgE-Mediated Food Allergy: A Practical Approach for Recognition and Treatment TICKETED*Food Allergy***Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 10

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Terri F. Brown-Whitehorn, MD FAAAAI**Antonella Cianferoni, MD PhD FAAAAI***Learning Objectives:**

1. Describe when to suspect non-IgE-mediated food allergies
2. Discuss diagnostic pathways to confirm non-IgE-mediated food allergies
3. Discuss current methods to treat non-IgE-mediated food allergies

3002 Refractory Chronic Rhinosinusitis: When Does My Patient Need Surgery? TICKETED*Rhinosinusitis/Ocular Allergy***Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 2

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Robert C. Kern, MD**Joseph K. Han, MD FAAAAI***Learning Objectives:**

1. Discuss the medical options for CRS, leading to maximal medical therapy
2. Describe when sinus surgery may be appropriate for a CRS patient and the different options for surgical intervention
3. Discuss biologics and surgical options

3003 Making QI Work for You: How to Begin, Complete and Publish Your Ideas in Quality Improvement TICKETED*Allergy Office Practice***Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 3

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Sujani Kakumanu, MD FAAAAI**Paige G. Wickner, MD MPH***Learning Objectives:**

1. Describe the process of preparing a completed for publication including IRB submissions
2. Learners will be able to identify strategies to overcome barriers to quality improvement projects
3. Identify strategies to overcome barriers to quality improvement projects
4. Discuss the essential tools needed to begin, complete and publish a quality improvement intervention
5. Learners will be able to identify strategies to overcome barriers to quality improvement projects

3004 Toxic Mold: Health Effects And Home Assessment TICKETED

Allergens/Allergy Testing/Allergy Therapeutics**Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 4
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Jay M. Portnoy, MD FAAAAI
James J. Anderson, MLT

Learning Objectives:

1. Identify the risks/health issues associated with mold exposure
2. Discuss exposure to mold spores, MVOCs and mycotoxins
3. Describe how to counsel a patient regarding mold exposure in their home

3005 Nutritional Concerns in Children with IgE-Mediated Food Allergies TICKETEDFood Allergy**Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 5
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Kristin C. Sokol, MD MS MPH
Lauren Kronisch, RD LD

Learning Objectives:

1. Identify key nutritional deficits in children with IgE-mediated food allergy beyond just milk allergy
2. Discuss how single vs. multiple food allergies can affect nutrition, bone health and growth
3. Describe recent findings of nutritional deficits and bone health in a cohort of food allergy patients at the NIH

3006 Introducing the New 2017 ATS Updates to the 2005 ATS/ERS Guidelines: How to Perform, Interpret and Report Spirometry TICKETEDAsthma**Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 6
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

James M. Quinn, MD FAAAAI
Karla E. Adams, MD

Learning Objectives:

1. Identify the most recent ATS/ERS guidelines for spirometry including the 2017 updates from the ATS
2. Discuss ATS/ERS standards for performing acceptable and reproducible spirometry including the new grading guidelines from the 2017 ATS Update
3. Discuss and utilize ATS/ERS guidelines to interpret and report spirometry and classify abnormalities including use of Z scores newly recommended by the ATS in December 2017

3007 Big Data Approaches in the Allergy Field TICKETEDImmune Mechanisms**Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 1
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Ting Wen, PhD
Leah Claire Nesbitt Kottyan, PhD

Learning Objectives:

1. Recall major NGS-based applications and their operating principles Remember major NGS-based applications and their operating principles. • Know what platforms are available and how to apply these platforms to allergy research. • Comprehend some basic analytical plans for big data. • Able to evaluate the strength and weakness of a NGS-based study • Able to construct a simple "big data" study to test specific hypothesis.
2. Explain what platforms are available and how to apply these platforms to allergy research
3. Discuss some basic analytical plans for big data

3008 Multi-Organ Involvement in Systemic Mastocytosis TICKETEDMast Cell/Eosinophilic Disorders**Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 11
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Jonathan A. Bernstein, MD FAAAAI
Mariana C. Castells, MD PhD

Learning Objectives:

1. Discuss the diagnostic criteria of Mastocytosis
2. Discuss the diagnosis of anaphylaxis

3. Discuss the pathogenesis, mechanisms and diagnosis of GI and other organ involvement in mastocytosis

3009

Update on Health Care Reform, Registries, Measures and Guidelines TICKETED*Allergy Office Practice***Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 12
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Gary C. Steven, MD PhD FAAAAI
 To be announced.

Learning Objectives:

1. Discuss the current state of adherence assessment in clinical practice, and the impact of poor adherence on clinical outcomes
2. Discuss the ability of electronic medication monitoring to change adherence patterns in patients, as well as impact clinical outcomes
3. Identify potential barriers that may be a hindrance to the implementation of electronic medication monitoring in practice

3010

Caring for Your SCID Patient Post-Transplant TICKETED*Immunodeficiency***Session Details**

Sunday, February 24, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 13
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Jennifer Heimall, MD
 To be announced.

Learning Objectives:

1. Recognize, treat and monitor GVHD
2. Discuss the timeline and evaluation of functional T cell and B cell engraftment post-transplant
3. Discuss the infectious risks and use of antimicrobial prophylaxis/IVIG in the post-transplant period

8:15 AM-10:15 AM

3101

Systemic Regulation of Susceptibility and Pathogenesis of Allergic Inflammation*Immune Mechanisms***Session Details**

Sunday, February 24, 2019: 8:15 AM-10:15 AM
 Moscone Center South, Exhibition Level, Hall A
 1.50 CME/CE

Moderator:

Marsha Wills-Karp, PhD

Learning Objectives:

1. Define the mechanisms by which insulin sensitivity regulate allergic sensitization
2. Discuss the role of the gut microbiome on the propensity for allergen sensitization
3. Define how disruption of skin barrier predisposes to allergic sensitization

8:15 AM	Introduction
8:20 AM	Skin Exposure Drives Allergen Sensitization <i>Raif S. Geha, MD FAAAAI</i>
8:45 AM	Introduction
8:50 AM	Systemically Available Gut Microbiome Derived Products As Modifiers of Allergic Inflammation <i>Charles Mackay, PhD</i>
9:15 AM	Introduction
9:20 AM	Systemic Hormones and the Unified Barrier Hypothesis of Allergy <i>Sergejs Berdnikovs, PhD</i>
9:45 AM	Question & Answer

10:45 AM-12:00 PM

3301

Precision Medicine in the Era of Primary Immunodysregulatory Diseases*Immunodeficiency***Session Details**

Sunday, February 24, 2019: 10:45 AM-12:00 PM
 Moscone Center South, Upper Mezzanine Level, Esplanade 155
 1.25 CME/CE

Symposium

Moderator:

Karin Chen, MD

Learning Objectives:

1. Discuss the clinical manifestations of primary immunodysregulatory diseases
2. Describe precision based therapy in the treatment of primary immunodysregulatory diseases
3. Describe strategy and outcomes of hematopoietic stem cell transplantation for primary immunodysregulatory diseases

10:45 AM	Clinical Manifestations of Primary Immunodysregulatory Diseases <i>Megan A Cooper, MD PhD</i>
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11:05 AM	Question & Answer
11:10 AM	Therapy in the Treatment of Primary Immunodysregulatory Diseases: Has Era of Precision Medicine Arrived Yet? <i>Joshua D. Milner, MD</i>
11:30 AM	Question & Answer
11:35 AM	Strategy and Outcomes of Hematopoietic Stem Cell Transplantation for Primary Immunodysregulatory Diseases <i>Lisa R. Forbes, MD</i>
11:55 AM	Question & Answer

3302 **Allied Health: Words Will Never Hurt Me: Empowering Food Allergic Patients to Handle Bullying and School Related Problems**

Food Allergy

Session Details

Sunday, February 24, 2019: 10:45 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 156

1.25 CME/CE

Symposium

Moderator:

Karol G. Timmons, RN MS CPNP

Learning Objectives:

1. Discuss the ways that bullying of food allergic patients may occur
2. Describe teaching techniques that practitioners can use to help our patients
3. Discuss the measures to keep food allergic patients safe at school

10:45 AM	Bullying at School <i>Jodi A. Shroba, MSN APRN CPNP</i>
11:05 AM	Question & Answer
11:10 AM	Food Allergy Management in Schools <i>Megan Ott Lewis, MSN CRNP</i>
11:30 AM	Question & Answer
11:35 AM	Coping Strategies and Techniques to Handle Bullying <i>Maria Crain, CPNP</i>
11:55 AM	Question & Answer

3303 **EAACI: Novel Developments in Endotype-Driven Approach for Allergic Diseases**

Rhinosinusitis/Ocular Allergy

Session Details

Sunday, February 24, 2019: 10:45 AM-12:00 PM

Moscone Center South, Level 2, Room 207

1.25 CME/CE

Symposium

Moderator:

Ioana O Agache

Learning Objectives:

1. Describe the recent advances in endotypes and biomarkers for allergic rhinitis, atopic dermatitis and allergen immunotherapy

10:45 AM	Nasal Hypereactivity: A Special Endotype <i>Peter W. Hellings, MD, PhD</i>
11:05 AM	Question & Answer
11:10 AM	Biomarkers for Monitoring the Efficacy of Allergen Immunotherapy <i>Mohamed H Shamji, BSc MSc PhD FAAAAI</i>
11:30 AM	Question & Answer
11:35 AM	Atopic Dermatitis Endotypes: Ready for the Clinics? <i>Peter Schmid-Grendelmeier, MD</i>
11:55 AM	Question & Answer

3304 **Biologics for Severe Asthma: Treatment-Specific Effects Important in Choosing a Specific Agent**

Asthma

Session Details

Sunday, February 24, 2019: 10:45 AM-12:00 PM

Moscone Center South, Exhibition Level, Hall A

1.25 CME/CE

Symposium

Moderator:

Thomas B. Casale, MD FAAAAI

Learning Objectives:

1. Discuss which T2 biologic is most appropriate to treat the corticosteroid-Dependent patient to reduce steroid burden
2. Discuss which T2 biologic is most appropriate to treat the exacerbation-prone patient
3. Discuss which T2 biologic is most appropriate to treat the corticosteroid-Dependent patient to reduce steroid burden
4. Discuss which T2 biologic is most appropriate to treat the patient with fixed airway obstruction and low FEV1

10:45 AM	Exacerbation Prone Patients <i>Loren Denlinger, MD PHD</i>
11:05 AM	Question & Answer

- 11:10 AM **Fixed Airway Obstructed Patient Including COPD**
Jonathan Corren
- 11:30 AM **Question & Answer**
- 11:35 AM **Corticosteroid-Dependent Patient**
Elliot Israel, MD FAAAAI
- 11:55 AM **Question & Answer**

3305 **Physician Health and Wellness: "We Need to Talk"**

Allergy Office Practice

Session Details

Sunday, February 24, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 203

1.25 CME/CE

Symposium

Moderator:

Sharon B. Markovics, MD FAAAAI

Learning Objectives:

1. Describe and categorize the coping mechanisms an individual physician can utilize to alleviate burnout and stress as well as enhance resiliency
2. Discuss the ability to mitigate burnout and stress at both academic based and private medical settings, through a variety of mechanisms including empowering support staff and applying positive aspects of the electronic health record
3. Identify techniques to foster support from the medical community at large, including local, state and national allergy and immunology societies, to alleviate burnout and stress

- 10:45 AM **The Individual Physician's Guide to Resiliency in the Current Healthcare Climate**
Anil Nanda, MD FAAAAI
- 11:05 AM **Question & Answer**
- 11:10 AM **Evidence-Based Strategies to Improve Professional Satisfaction Through Efficiencies of Practice**
Hemant P. Sharma, MD MHS FAAAAI
- 11:30 AM **Question & Answer**
- 11:35 AM **Utilizing Support from the Greater Medical Community at Large to Further Enhance Wellness**
Theresa A. Bingemann, MD FAAAAI
- 11:55 AM **Question & Answer**

3306 **Is EoE a Primary Barrier Defect?**

Mast Cell/Eosinophilic Disorders

Session Details

Sunday, February 24, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 205

1.25 CME/CE

Symposium

Moderator:

Antonella Cianferoni, MD PhD FAAAAI

Learning Objectives:

1. Discuss what is familiar with Epitheliome in EoE
2. Discuss how an impaired barrier function favors EoE development
3. Describe how the Epithelium influences the immunological response in EoE

- 10:45 AM **Epitheliome in Eosinophilic Esophagitis**
Carine Blanchard, PhD
- 11:05 AM **Question & Answer**
- 11:10 AM **Barrier Dysfunction in Eosinophilic Esophagitis**
Speaker to be announced.
- 11:30 AM **Question & Answer**
- 11:35 AM **Can the Epithelium Shape the Immune Response in Eosinophilic Esophagitis?**
Jonathan M. Spergel, MD PhD FAAAAI
- 11:55 AM **Question & Answer**

3307 **Neuroimmune Interactions in the Allergic Immune Response**

Immune Mechanisms

Session Details

Sunday, February 24, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 3, Room 303

1.25 CME/CE

Symposium

Moderator:

Caroline L. Sokol, MD PhD

Learning Objectives:

1. Discuss the role of Mrgpr receptors in allergic reactions in response to drugs and allergens
2. Discuss how sensory neurons process potential threats and promote immune activation
3. Discuss the interactions between sensory neurons and ILC2 activation

- 10:45 AM **Neuron-ILC2 Interactions As Triggers of Allergic Inflammation**
- 11:05 AM **Question & Answer**

- 11:10 AM **Sensory Neurons Promote the Allergic Immune Response**
- 11:30 AM **Question & Answer**
- 11:35 AM **MRGPR Receptors in Allergic Reactions**
Ethan A Lerner
- 11:55 AM **Question & Answer**

3308

Translational Drug Allergy*Drug/Insect Allergy/Vaccines***Session Details**

Sunday, February 24, 2019: 10:45 AM-12:00 PM

Moscone Center South, Level 3, Room 305

1.25 CME/CE

Symposium

Moderator:*Allison Ramsey, MD FAAAAI***Learning Objectives:**

1. Describe challenges for the treatment of drug allergy in patients with medical comorbidities and strategies to improve patient outcomes and drug safety
2. Describe the current role of immunogenetic testing for the prediction of severe drug allergy syndromes and possible translation of genetic testing into clinical practice
3. Describe the recommended algorithm for determination of risk for cross-reactive antibiotic allergy

- 10:45 AM **Novel Approaches in the Management of the Complex Drug Allergic Patient**
Jonathan Grant Peter, MD PhD
- 11:05 AM **Question & Answer**
- 11:10 AM **Defining the Risk of Delayed Reactions: HLA and Beyond**
Elizabeth J Phillips, MD FAAAAI FIDSA
- 11:30 AM **Question & Answer**
- 11:35 AM **Antibiotic Allergy: Is Cross-Reactivity a Clinical Concern?**
Jason A. Trubiano, MD PhD
- 11:55 AM **Question & Answer**

3309

Genetic and Environmental Impact on Immune System Variability and Disease*Immune Mechanisms***Session Details**

Sunday, February 24, 2019: 10:45 AM-12:00 PM

Moscone Center South, Level 2, Room 201

1.25 CME/CE

Symposium

Moderator:*Christine M. Seroogy, MD FAAAAI***Learning Objectives:**

1. Discuss the increasing knowledge of interindividual immune differences
2. Discuss technologies used for high dimensionality immune cell phenotyping and functional interrogation
3. Discuss the impact of genetic and environmental influences on immune maturation, phenotype, and disease expression

- 10:45 AM **Development of Tissue Resident Memory CD4 T-Cells**
Donna L Farber, PhD
- 11:05 AM **Question & Answer**
- 11:10 AM **Immunophenotype Mapping of Human Dendritic Cells**
- 11:30 AM **Question & Answer**
- 11:35 AM **Environmental and Genetic Influences on Innate Immune Cell Phenotypes**
- 11:55 AM **Question & Answer**

3310

Allied Health: Multidisciplinary Approach to Treating the Severe Pediatric Asthma Patient*Asthma***Session Details**

Sunday, February 24, 2019: 10:45 AM-12:00 PM

Moscone Center South, Exhibition Level, Hall D8

1.25 CME/CE

Symposium

Moderator:*Pooja Varshney, MD***Learning Objectives:**

1. Describe assessment methodologies and management process of the pediatric patient with severe asthma
2. Discuss the treatment options with use of biologic therapies in pediatric patients with severe asthma
3. Identify the psycho-social challenges and barriers

- 10:45 AM **Multidisciplinary Approach with Severe Pediatric Asthma: Psychosocial Challenges**
Melissa T. Korenblat-Hanin, ACSW LCSW
- 11:05 AM **Question & Answer**
- 11:10 AM **Evaluation of the Pediatric Patient with Severe Asthma**

Leonard B. Bacharier, MD FAAAAI

11:30 AM

Question & Answer

11:35 AM

Advanced Therapies, including Biologics, for Severe Asthma

Lila C. Kertz, MSN RN CPNP

11:55 AM

Question & Answer

12:00 PM-2:00 PM

3401

Asthma Medication Delivery Devices: How to Use Them and How to Teach Them

Asthma

Session Details

Sunday, February 24, 2019: 12:00 PM-2:00 PM

Moscone Center South, Exhibition Level, Hall D3

0.25 CME/CE

Workshop

Learning Objectives:

1. Demonstrate proper use of asthma medication delivery devices
2. Educate patients on use and cleaning of medication delivery devices in a standard fashion
3. Discuss indications for choosing a specific device for a patient

12:00 PM

Hands-on Training Station

Faculty

Sharmilee M. Nyenhuis, MD FAAAAI

Faculty

Caroline C. Horner, MD FAAAAI

Faculty

Brooke I. Polk, MD

Faculty

Evelyn L. Angulo, MD

Faculty

Anne E. Borgmeyer, DNP RN CPNP AE-C

Faculty

Lila C. Kertz, MSN RN CPNP

Faculty

Marc L. Rubin, BScPharm, RPh

3402

Oral Food Challenges II

Food Allergy

Session Details

Sunday, February 24, 2019: 12:00 PM-2:00 PM

Moscone Center South, Exhibition Level, Hall D3

0.00 CME/CE

Workshop

Learning Objectives:

1. Demonstrate techniques for administering oral food challenges in the office setting
2. Discuss practical aspects of safely preparing and administering foods for oral food challenges in different age groups
3. Demonstrate techniques for preparing foods for oral food challenges in the office setting

12:00 PM

Hands-On Training Station

Faculty

Speaker to be announced.

Faculty

Rushani W. Saltzman, MD

Faculty

Sara Anvari, MD, MSc

Faculty

Anne M. Hiegel, APRN

Faculty

Amy M. Scurlock, MD

Faculty

Angela Tsuang, MD, MSc

12:30 PM-1:30 PM

3501

Should I Test My Patient with Atopic Dermatitis for Food Allergies? TICKETED

Allergic and Immunologic Skin Diseases

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 2

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Irene Mikhail, MD
Anne Marie Singh, MD

Learning Objectives:

1. Describe the risk of IgE mediated food allergy in a young child with moderate to severe atopic dermatitis and the role of food allergy testing in this situation
2. Discuss the data on food-exacerbated atopic dermatitis and the best approach to diagnose and manage food triggers
3. Discuss the practical suggestions on formula selection and food introduction in infants and young children with atopic dermatitis

3502 **What to Do with a Patient with Severe Chronic Rhinosinusitis TICKETED**

Rhinosinusitis/Ocular Allergy

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 3

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Robert C. Kern, MD

Anju T. Peters, MD, FAAAAI

Learning Objectives:

1. Describe the benefits and adverse effects associated with nasal rinses
2. Discuss balloon sinus surgery
3. Identify new treatment options including biologics

3503 **Eosinophil Phenotypes: Location Matters TICKETED**

Mast Cell/Eosinophilic Disorders

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 4

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Patricia C. Fulkerson, MD PhD

Lisa A. Spencer, PhD FAAAAI

Learning Objectives:

1. Describe the unique characteristics of eosinophil phenotypes, including homeostatic, regulatory and inflammatory eosinophils
2. Discuss how eosinophil phenotypes contribute to differential roles for eosinophils in disease and how current therapies impact the eosinophil "community" in disease
3. Discuss potential environmental cues that result in eosinophil phenotypes and impact the homeostatic eosinophil "community"

3504 **Anti-Eosinophil Therapies for Severe Asthma and Beyond? TICKETED**

Asthma

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 5

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Sameer K. Mathur, MD PhD FAAAAI

Praveen Akuthota, MD

Learning Objectives:

1. Describe and contrast the anti-IL-5 therapies and omalizumab
2. Identify the appropriate severe asthma patient for anti-IL-5 therapies
3. Discuss alternate eosinophil-related diagnoses that have or have not shown improvement with use of anti-IL-5 therapies

3505 **Innovative Methods to Improve the Collection of Patient-Reported Outcomes (PROs) TICKETED**

Research Principles

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 1

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Sunit P Jariwala, MD FAAAAI

Christopher D. Codispoti, MD PhD FAAAAI

Learning Objectives:

1. Identify which PROs are important to allergists
2. Discuss innovative methods to help collect PROs
3. Describe how collecting PROs improves outcomes and the quality of care

3506 **The Role of the Practicing Allergist in the Management of EoE TICKETED**

Mast Cell/Eosinophilic Disorders

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Marriott, Lower B2 Level, Yerba Buena Salon 6

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Ellen R. Sher, MD FAAAAI
Douglas T. Johnston, DO, FAAAAI

Learning Objectives:

1. Discuss the role of allergy testing in the evaluation of the patient with EoE
2. Discuss the role of swallowed topical steroids versus elimination diets versus combination therapy in the management of EoE
3. Describe the potential impact of environmental allergen sensitization and subsequent allergen exposure on patients with EoE

3507 Autoimmune Mimics of Allergic Disease TICKETED

Autoimmune/Auto-inflammatory Disorders

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM
 Marriott, Lower B2 Level, Yerba Buena Salon 10
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Mildred Kwan, MD PhD
Teresa K. Tarrant, MD FAAAAI

Learning Objectives:

1. Discuss how clinical allergist/immunologists will learn to recognize symptoms that occur in autoimmune disease that mimic atopic disease
2. Discuss when it is appropriate to refer these patients to a rheumatologist
3. Discuss the utility of serologic autoantibody testing in these patients

3508 Approach to the Patient with Multiple Drug Allergies TICKETED

Drug/Insect Allergy/Vaccines

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM
 Marriott, Lower B2 Level, Yerba Buena Salon 11
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Allison Ramsey, MD FAAAAI
Elizabeth J Phillips, MD FAAAAI FIDSA

Learning Objectives:

1. Discuss multiple drug allergies
2. Discuss how to develop diagnostic and management approaches in the allergy practice to effectively diagnose and treat the patient with multiple drug allergies

3509 Diagnosis and Management of Contact Dermatitis in Patients

Allergic and Immunologic Skin Diseases

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM
 Marriott, Lower B2 Level, Yerba Buena Salon 12
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Jonathan I. Silverberg, MD, PhD, MPH
 To be announced.

Learning Objectives:

1. Discuss diagnosis of contact dermatitis
2. Review common contact allergens
3. Review treatment including contact allergen avoidance

3510 Detergents in Allergic Sensitization TICKETED

Allergic and Immunologic Skin Diseases

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM
 Marriott, Lower B2 Level, Yerba Buena Salon 13
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Cezmi A. Akdis, MD FAAAAI
Joan Cook-Mills, PhD

Learning Objectives:

1. Discuss the role of epithelium in initiation of allergic responses
2. Identify the pathophysiology of epithelial damage in initiation of food allergy, atopic dermatitis and asthma

3511 Allied Health: Where Are We With Allergy Prevention? TICKETED

Food Allergy

Session Details

Sunday, February 24, 2019: 12:30 PM-1:30 PM
 Moscone Center South, Exhibition Level, Hall D11
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

David R Stukus, MD, FAAAAI
Carina Venter, PhD RD

Learning Objectives:

1. Discuss dietary advice to pregnant and breast feeding women regarding allergy prevention
2. Discuss which formulas to recommend for allergy prevention
3. Describe the practical aspects of early introduction of peanut and any other allergens of relevance

3550 Oral Immunotherapy is Essential for Food Allergy Management*Food Allergy***Session Details**

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Moscone Center South, Exhibition Level, Hall A

1.00 CME/CE

Pro/Con Debate

Moderator:*Stacie M. Jones, MD***Primary Pro Speaker:***Richard L. Wasserman, MD PhD FAAAAI***Primary Con Speaker:***Robert A. Wood, MD FAAAAI***Learning Objectives:**

1. Discuss the risks and benefits of oral immunotherapy in the management of food allergy

3551 The Severe Asthma Patient with Eosinophilic Phenotype Should Always Be Treated with Anti-IL-5 Therapies*Asthma***Session Details**

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 156

1.00 CME/CE

Pro/Con Debate

Moderator:*Mario Castro, MD, MPH***Primary Pro Speaker:***Sally E. Wenzel, MD FAAAAI***Primary Con Speaker:***Thomas B. Casale, MD FAAAAI***Learning Objectives:**

1. Discuss the data for and against treating the severe asthma patient with eosinophilic phenotype with anti-IL-5 therapies as the first-line biologic choice

3552 Injectable Epinephrine for Subcutaneous Immunotherapy: To Prescribe or Not?*Rhinosinusitis/Ocular Allergy***Session Details**

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Moscone Center South, Level 2, Room 207

1.00 CME/CE

Pro/Con Debate

Moderator:*Desiree E.S. Larenas Linnemann, MD FAAAAI***Primary Pro Speaker:***David I. Bernstein, MD FAAAAI***Primary Con Speaker:***Mike Tankersley, MD MBA FAAAAI***Learning Objectives:**

1. Discuss the risks associated with subcutaneous immunotherapy
2. Discuss the best practices to improve safety when treating patients with subcutaneous immunotherapy
3. Discuss appropriate treatment of anaphylaxis in general and preparedness for treatment of anaphylaxis in the office

3553 Skin Testing is Necessary Prior to Oral Penicillin Challenge in all Patients*Drug/Insect Allergy/Vaccines***Session Details**

Sunday, February 24, 2019: 12:30 PM-1:30 PM

Moscone Center South, Level 3, Room 305

1.00 CME/CE

Pro/Con Debate

Moderator:*Kimberly G. Blumenthal, MD, MSc***Primary Pro Speaker:***Kimberly A. Risma, MD, PhD, FAAAAI***Primary Con Speaker:***Moshe Ben-Shoshan, MD, MSc***Learning Objectives:**

1. Describe the evidence supporting direct challenges in low risk populations
2. Recognize when penicillin skin testing is applicable
3. Discuss the evidence supporting penicillin allergy de-labeling

12:30 PM-1:45 PM

3554 NIEHS: Novel Pathways Involved in Regulation of Airway Inflammation*Immune Mechanisms***Session Details**

Sunday, February 24, 2019: 12:30 PM-1:45 PM

Moscone Center South, Level 2, Room 203

1.25 CME/CE

Symposium

Moderator:*Donald Cook, PhD***Learning Objectives:**

1. Discuss mechanisms through which lung macrophages regulate allergic inflammation of the lung
2. Identify how lung epithelial cells regulate inflammation, in part through communication with other cell types
3. Describe how the inherent plasticity of CD4+ T cells might be manipulated to suppress allergic inflammation

12:30 PM **Role of Pulmonary Macrophages in Regulating Asthma Pathogenesis***John W Christman, MD*12:50 PM **Question & Answer**12:55 PM **Role of Innate Lymphoid Cells in Allergic Inflammation***Alison A. Humbles, PhD*1:15 PM **Question & Answer**1:20 PM **Regulation of Allergic Inflammation through CD4+ T Cell Plasticity***Donald Cook, PhD*1:40 PM **Question & Answer****3555 Interferons Contribute to Allergic Disease: Lessons Learned from the AACRC***Immune Mechanisms***Session Details**

Sunday, February 24, 2019: 12:30 PM-1:45 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 155

1.25 CME/CE

Symposium

Moderator:*Wendy F. Davidson, PhD***Learning Objectives:**

1. Describe how iNKT cells and their production of IFN drive food allergy
2. Discuss the contribution of high interferon states to asthma pathogenesis
3. Discuss interferon regulation of airway epithelial cell function controls asthma

12:30 PM **High Interferon-Gamma Marks Severe Asthma***Anuradha Ray, PhD*12:50 PM **Question & Answer**12:55 PM **Interferon Responses By Bronchial Epithelial Cells Contribute to Airway Disease**1:15 PM **Question & Answer**1:20 PM **Regulation of Interferon-Gamma Production by Innate and Adaptive Lymphocytes***Patrick J. Brennan, MD PhD*1:40 PM **Question & Answer****3557 Interesting Cases Part II****Session Details**

Sunday, February 24, 2019: 12:30 PM-1:45 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 159

1.25 CME/CE

Workshop

Learning Objectives:

1. 1

3:30 PM-4:30 PM

3701 ADT: Asthma Education, Asthma Action Plans, and Peak Flow Meters: Which Strategies Actually Work?*Asthma***Session Details**

Sunday, February 24, 2019: 3:30 PM-4:30 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 155

0.50 CME/CE

Interest Section Forum

Moderator:*Caroline C. Horner, MD FAAAAI***Learning Objectives:**

1. Discuss the data on efficacy of asthma education, acute management and assessment tools
2. Discuss strategies to better utilize asthma tools in practice

3:30 PM **Business Meeting***Caroline C. Horner, MD FAAAAI*

4:00 PM **Asthma Education, Asthma Action Plans, and Peak Flow Meters: Which Strategies Actually Work?**
Speaker to be announced.

4:25 PM **Question & Answer**

3702

BCI: What's New In Vaccines*Immune Mechanisms***Session Details**

Sunday, February 24, 2019: 3:30 PM-4:30 PM

Moscone Center South, Level 3, Room 303

0.50 CME/CE

Interest Section Forum

Moderator:*Elena E. Perez, MD PhD FAAAAI***Learning Objectives:**

1. Discuss vaccine strategies to counter emerging infectious threats such as Ebola and Zika
2. Discuss effective methods of communicating risk to the vaccine hesitant patient or parent
3. Discuss how to review important updates in the approach to vaccinating the egg-allergic patient

3:30 PM **Business Meeting**
Elena E. Perez, MD PhD FAAAAI

3:55 PM **Communicating Risk: Counseling the Vaccine Hesitant Patient**
Jay R. Montgomery, MD FAAAAI

4:25 PM **Question & Answer**

3703

EORD: Microbiome, Metabolome and Asthma: Clues for Treatment and Prevention*Asthma***Session Details**

Sunday, February 24, 2019: 3:30 PM-4:30 PM

Moscone Center South, Level 2, Room 203

0.50 CME/CE

Interest Section Forum

Moderator:*Wanda Phipatanakul, MD MS FAAAAI***Learning Objectives:**

1. Discuss the environment, microbiome, and metabolome as they relate to asthma, including new findings geared toward treatment and prevention

3:30 PM **Business Meeting**
Wanda Phipatanakul, MD MS FAAAAI

4:00 PM **Presenter**
Homer A. Boushey Jr., MD

4:25 PM **Question & Answer**

3704

FADDA: HAE and EoE: Management in 2019*Anaphylaxis/Urticaria/Angioedema***Session Details**

Sunday, February 24, 2019: 3:30 PM-4:30 PM

Moscone Center South, Level 2, Room 207

0.50 CME/CE

Interest Section Forum

Moderator:*Lynda C. Schneider, MD FAAAAI***Learning Objectives:**

1. Discuss new medications for hereditary angioedema
2. Discuss therapies for eosinophilic esophagitis

3:30 PM **Business Meeting**
Lynda C. Schneider, MD FAAAAI

3:55 PM **New Medications for HAE**
Aleena Banerji, MD

4:10 PM **EoE Therapies**
Jonathan M. Spergel, MD PhD FAAAAI

4:25 PM **Question & Answer**

3705

HEDQ: Effect the Change You Wish to See in the Allergy Clinic*Allergy Office Practice***Session Details**

Sunday, February 24, 2019: 3:30 PM-4:30 PM

Moscone Center South, Level 3, Room 301

0.50 CME/CE

Interest Section Forum

Moderator:*Asriani M. Chiu, MD FAAAAI***Learning Objectives:**

1. Discuss ways to effect positive changes in behavior and how to sustain them

3:30 PM **Business Meeting**

Asriani M. Chiu, MD FAAAAI

3:55 PM Changing Provider Behaviors

Lily Pien, MD MHPE FAAAAI

4:10 PM Changing Patient Behaviors

Gerald B. Lee, MD

4:25 PM Question & Answer

3706 IRSO: Update in Rhinitis and Rhinosinusitis

Rhinosinusitis/Ocular Allergy

Session Details

Sunday, February 24, 2019: 3:30 PM-4:30 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 156

0.50 CME/CE

Interest Section Forum

Moderator:

Anju T. Peters, MD, FAAAAI

Learning Objectives:

1. Discuss the activities of the Sinusitis Committee
2. Discuss the activities of the Rhinitis Committee

3:30 PM Business Meeting

Anju T. Peters, MD, FAAAAI

3:55 PM Nasal Epithelial Behavior and Innate Immune Dysregulation in Rhinovirus-Induced Asthma Exacerbations

Larry Borish, MD FAAAAI

4:10 PM Update on Aspirin Exacerbated Respiratory Disease

Tanya M. Laidlaw, MD FAAAAI

4:25 PM Question & Answer

3707 MAAI: New Directions in Mast Cell Research

Mast Cell/Eosinophilic Disorders

Session Details

Sunday, February 24, 2019: 3:30 PM-4:30 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 151

0.50 CME/CE

Interest Section Forum

Primary Moderators:

Kari C. Nadeau, MD PhD

To be announced.

Learning Objectives:

1. Identify different developmental pathways for constitutive and induced mast cells, and potential roles in disease
2. Understand molecular markers differentiating mast cell subsets

3:30 PM Business Meeting

Kari C. Nadeau, MD PhD

4:00 PM Mast Cell Diversity and Implications for Allergic Disease Mechanisms and Therapy

K. Frank Austen, MD FAAAAI

4:15 PM Mast Cell Diversity and Implications for Allergic Disease Mechanisms and Therapy

4:25 PM Question & Answer

Monday, February 25, 2019

Thursday | Friday | Saturday | Sunday | Monday | top

Claim your credits at the registration desk or at <https://ws3.cmrrreg.com/aaaai18cme/>

7:00 AM-8:00 AM

4001 Cross-Reactivity Patterns, Extract Stability, Optimal Dosing and Mixing for Subcutaneous Immunotherapy: A Case-Based Review of Immunotherapy Prescription Mixing TICKETED

Allergens/Allergy Testing/Allergy Therapeutics

Session Details

Monday, February 25, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 2

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Olga Luengo, MD, PhD

Tolly Epstein, MD FAAAAI

Learning Objectives:

1. Identify the math-free guides recently published for allergen doses and glycerin concentrations
2. Discuss cross-reactivity patterns of pollens and the stability of different extracts when mixed together (pollens vs molds vs danders vs dust mites)
3. Discuss case scenarios and how one may formulate a patient's immunotherapy prescription

4002 Asthma/COPD Overlap Syndrome (ACOS) with and without Occupational Causes TICKETED

Lung Diseases other than Asthma

Session Details

Monday, February 25, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 3

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Bryan L. Martin, DO FAAAAI**John Oppenheimer, MD FAAAAI***Learning Objectives:**

1. Identify asthma among patients with occupational COPD
2. Identify COPD among patients with work-related asthma and possible reasons for the overlap
3. Discuss the appropriate management of ACOS with and without an occupational component

4003

Management of Food Allergy in a Breastfed Infant TICKETED*Food Allergy***Session Details**

Monday, February 25, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 4

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Kirsi M. Jarvinen-Seppo, MD PhD FAAAAI**Marion E. Groetch, MS RDN***Learning Objectives:**

1. Describe the evidence behind transfer of dietary food proteins in mother's milk
2. Discuss the circumstances if and when maternal elimination diet is needed in the event of food allergies presenting in a breastfed infant

4004

Up-to-Date Perspectives on Exercise Induced Bronchoconstriction TICKETED*Asthma***Session Details**

Monday, February 25, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 5

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Justin C. Greiwe, MD FAAAAI**John M. Weiler, MD FAAAAI***Learning Objectives:**

1. Increase knowledge of current treatment recommendations
2. Discuss the difference between exercised induced asthma and exercise induced bronchoconstriction
3. Increase understanding of pathogenesis and improved diagnosis by using objective testing

4005

Diagnosis and Treatment of Common Skin Conditions and Cutaneous Drug Allergy in Older Adults TICKETED*Allergic and Immunologic Skin Diseases***Session Details**

Monday, February 25, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 1

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Anil Nanda, MD FAAAAI**David Randolph Weldon, MD FAAAAI***Learning Objectives:**

1. Formulate and categorize the causes and differential diagnoses for pruritis, allergic dermatitis, and cutaneous drug reactions in older adults
2. Demonstrate the ability to summarize the current scientific literature involving allergic dermatological conditions in older adults
3. Compare and contrast the current and potential future therapeutic options for allergic dermatitis conditions, specifically with regards to older adults

4006

Writing Orders for Immunoglobulin Therapy TICKETED*Immunodeficiency***Session Details**

Monday, February 25, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 6

1.00 CME/CE

Seminar

Primary Discussion Leaders:*Elena E. Perez, MD PhD FAAAAI**Kenneth Paris, MD MPH***Learning Objectives:**

1. Discuss how to collaborate with patients in choosing the initial immunoglobulin therapy best suited to them
2. Discuss how to best advise patients regarding alternative immunoglobulin therapies when the initial treatment is unsatisfactory
3. Discuss how to choose the particular immunoglobulin products based on product characteristics and patient risk factors

4007

Mast Cell Tryptases and Alpha-Tryptasemia TICKETED*Mast Cell/Eosinophilic Disorders***Session Details**

Monday, February 25, 2019: 7:00 AM-8:00 AM

Marriott, Lower B2 Level, Yerba Buena Salon 10

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Jonathan J. Lyons, MD
Dean D. Metcalfe, MD, FAAAAI

Learning Objectives:

1. Identify how mast cell tryptases exert their biologic function
2. Compare and contrast the function of alpha and beta tryptases
3. Define alpha tryptasemia

4008 Idiopathic Anaphylaxis: The Overlap with CIU/AE and MCAS and Approach to Patient Care TICKETED

Anaphylaxis/Urticaria/Angioedema

Session Details

Monday, February 25, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 11
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Anne Marie Ditto, MD FAAAAI
Mariana C. Castells, MD PhD

Learning Objectives:

1. Increase familiarity with IA and its presentation and response to treatment
2. Understand clinical implications and importance of possible overlap of IA with MCAS in patients

4009 Genetics 101 for the Practicing Immunologist TICKETED

Immune Mechanisms

Session Details

Monday, February 25, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 12
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Manish J. Butte, MD PhD
Attila Kumanovics, MD

Learning Objectives:

1. Evaluate the best panel to choose for your evaluation after immunological laboratory findings
2. Analyze when to consider whole exome or whole genome sequencing
3. Interpret findings: pathogenic mutations vs VUS, ExAc frequency and predictions

4010 Current and Future Directions in Rhinitis and Sinusitis in Children TICKETED

Rhinosinusitis/Ocular Allergy

Session Details

Monday, February 25, 2019: 7:00 AM-8:00 AM
 Marriott, Lower B2 Level, Yerba Buena Salon 13
 1.00 CME/CE

Seminar

Primary Discussion Leaders:

Fuad M. Baroody, MD FAAAAI
Daniel L. Hamilos, MD FAAAAI

Learning Objectives:

1. Discuss advancements and controversies in medical treatment in pediatric rhinitis and rhinosinusitis
2. Discuss surgical options for treating CRS and nasal obstruction

8:15 AM-10:15 AM

4101 Atopic Dermatitis: Bench to Bedside and Back

Allergic and Immunologic Skin Diseases

Session Details

Monday, February 25, 2019: 8:15 AM-10:15 AM
 Moscone Center South, Exhibition Level, Hall A
 1.50 CME/CE

Moderator:

Mark Boguniewicz, MD FAAAAI

Learning Objectives:

1. Discuss how to diagnose atopic dermatitis and the underlying comorbidities
2. Discuss the key mechanisms associated with the pathogenesis of atopic dermatitis
3. Understand current and emerging therapeutic options, as well as how to apply personalized medicine approaches, for patients with atopic dermatitis

8:15 AM	Introduction
8:20 AM	Atopic Dermatitis: Diagnosis, Heterogeneity, and Comorbidities <i>Jonathan I. Silverberg, MD, PhD, MPH</i>
8:45 AM	Introduction
8:50 AM	Underlying Mechanisms of Atopic Dermatitis <i>Lisa A. Beck, MD FAAAAI</i>
9:15 AM	Introduction
9:20 AM	Emerging Therapies and Potential for Personalized Medicine Approaches <i>Emma Guttman-Yassky, MD PhD</i>

9:45 AM Question & Answer

10:45 AM-12:00 PM

4301 Asthma Development: The Environment and Prevention in Early Life*Asthma***Session Details**

Monday, February 25, 2019: 10:45 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 155

1.25 CME/CE

Symposium

Moderator:*Andrew H. Liu, MD FAAAAI***Learning Objectives:**

1. Discuss current paradigms and modifiable environmental risk factors of asthma development in early life
2. Discuss current NIH-sponsored studies to strengthen understanding of modifiable risk factors, asthma inception and expression
3. Discuss rationale and data supporting ongoing NIH funded asthma prevention trials that target and intervene on environmental and modifiable risk factors

10:45 AM **Asthma Inception: Children's Respiratory and Environmental Workgroup (CREW) and Environmental Influences on Child Health Outcomes (ECHO) Programs**

James E. Gern, MD FAAAAI

11:05 AM **Question & Answer**

11:10 AM **Asthma Development in Early Life: Urban Environment and Childhood Asthma (URECA)**

Leonard B. Bacharier, MD FAAAAI

11:30 AM **Question & Answer**

11:35 AM **Asthma Prevention: Moving the Needle Towards Preventing and Modifying Disease Expression**

Wanda Phipatanakul, MD MS FAAAAI

11:55 AM **Question & Answer**

4302 Difficulties in the Management of Older Patients with Asthma*Asthma***Session Details**

Monday, February 25, 2019: 10:45 AM-12:00 PM

Moscone Center South, Level 2, Room 201

1.25 CME/CE

Symposium

Moderator:*Sharmilee M. Nyenhuis, MD FAAAAI***Learning Objectives:**

1. Discuss the clinical presentation of asthma in older adults
2. Discuss the unique features of asthma in older patients and comorbidities that may mimic asthma symptoms
3. Identify diagnostic algorithms for asthma in the elderly

10:45 AM **Asthma Self-Management: Addressing Barriers in Older Patients with Asthma**

Alex Federman, MD, MPH

11:05 AM **Question & Answer**

11:10 AM **Inflammatory Pathways in Older Patients with Asthma: Implications for Management**

Paula J. Busse, MD FAAAAI

11:30 AM **Question & Answer**

11:35 AM **Diagnostic Challenges in the Aged Patient with Asthma**

Carol A. Saltoun, MD FAAAAI

11:55 AM **Question & Answer**

4303 Schools and Tools: How We Can Advance the Management of Asthma, Food Allergies and Anaphylaxis*Allergy Office Practice***Session Details**

Monday, February 25, 2019: 10:45 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 156

1.25 CME/CE

Symposium

Primary Moderators:*Stanley J. Szeffler, MD FAAAAI**Robert F. Lemanske Jr., MD, FAAAAI***Learning Objectives:**

1. Identify how schools can improve care coordination of asthma and allergic disease and how federal and state policy may incentivize these initiatives
2. Discuss the resources and digital tools to disseminate SAMPRO in their local communities
3. Identify future expansions of the SAMPRO initiative including resources to coordinate care of food allergy and anaphylaxis with schools

10:45 AM **Policy and Partnerships: How Community Partnerships and Federal/State Legislation Are Advancing Implementation**

Andrea A. Pappalardo, MD FAAAAI

11:05 AM **Question & Answer**

11:10 AM **Food Allergies: Improving Our Tools to Manage Food Allergies and Anaphylaxis in Schools**

Julie Wang, MD FAAAAI

- 11:30 AM Question & Answer
- 11:35 AM **Digital Health: How Digital Tools Can Improve Data Sharing and Disease Management in Schools**
Sujani Kakumanu, MD FAAAAI
- 11:55 AM Question & Answer

4304 **Emerging Food Allergy Therapies**

Food Allergy

Session Details

Monday, February 25, 2019: 10:45 AM-12:00 PM

Moscone Center South, Exhibition Level, Hall A

1.25 CME/CE

Symposium

Moderator:

Rima A. Rachid, MD FAAAAI

Learning Objectives:

1. Discuss the safety and efficacy of oral immunotherapy and identify potential individuals for whom this may be appropriate
2. Discuss the safety and efficacy of epicutaneous immunotherapy and identify potential individuals for whom this may be appropriate
3. Identify novel therapeutic approaches to the management of food allergy, including monotherapy with monoclonal antibodies

10:45 AM **OIT: Efficacy and Patient Selection**

Brian P. Vickery, MD FAAAAI

11:05 AM **EPIT: Efficacy and Patient Selection**

Jacqueline A. Pongratic, MD FAAAAI

11:25 AM **SLIT: Efficacy and Patient Selection**

Edwin H. Kim, MD FAAAAI

11:45 AM **Panel Discussion**

4305 **Targeting the Outside: Moving in on Atopic Dermatitis**

Allergic and Immunologic Skin Diseases

Session Details

Monday, February 25, 2019: 10:45 AM-12:00 PM

Moscone Center South, Level 3, Room 305

1.25 CME/CE

Symposium

Moderator:

Anil Nanda, MD FAAAAI

Learning Objectives:

1. Discuss the current topical and other non-biologic therapies for atopic dermatitis
2. Discuss the current available biologic options to treat atopic dermatitis
3. Identify new therapies in the pipeline for atopic dermatitis

10:45 AM **My Patient Is Not Eligible for Biologics: Current Non-Biologic Therapies for Atopic Dermatitis**

Mark Boguniewicz, MD FAAAAI

11:05 AM **Question & Answer**

11:10 AM **My Patient Is Eligible for Biologics: What Is Available Now for Atopic Dermatitis?**

Lisa A. Beck, MD FAAAAI

11:30 AM **Question & Answer**

11:35 AM **What Is Upcoming in the Pipeline for Atopic Dermatitis?**

Michael D. Howell, PhD

11:55 AM **Question & Answer**

4306 **Hot Topics in Immunotherapy**

Rhinosinusitis/Ocular Allergy

Session Details

Monday, February 25, 2019: 10:45 AM-12:00 PM

Moscone Center South, Level 2, Room 207

1.25 CME/CE

Symposium

Moderator:

Punita Ponda, MD FAAAAI

Learning Objectives:

1. Summarize the literature on cluster immunotherapy and to highlight different regimens utilized and new findings in recent years on safety, pre-medication, clinical pearls and efficacy
2. Identify changes in USP guidelines in recent years and how to implement those changes in your office and ensure you are following the guidelines
3. Discuss the growing trend for off-label SLIT

10:45 AM **Cluster Immunotherapy: The Benefits and Risks and How to Implement It in Your Practice**

Linda s Cox, MD FAAAAI

11:05 AM **Question & Answer**

11:10 AM **Changes in USP Guidelines and What It Means for Your Office**

Andrew W. Murphy, MD FAAAAI

11:30 AM **Question & Answer**

11:35 AM **Evidence Based Use of Oral SLIT**

Anne K. Ellis, MD FRCPC FAAAAI

11:55 AM Question & Answer

4307 **The Initiation of Allergic Immunity: From Innate Sensors to Initiation of Adaptive Immune Responses**

Immune Mechanisms

Session Details

Monday, February 25, 2019: 10:45 AM-12:00 PM

Moscone Center South, Level 3, Room 303

1.25 CME/CE

Symposium

Moderator:

Sarah E. Henrickson, MD/PhD

Learning Objectives:

1. Discuss the role of tuft cells in the gut and specifically their role in allergic immune initiation
2. Discuss novel mechanisms controlling dendritic cell activation and migration in response to allergens
3. Describe allergen interactions with airway epithelium and airway accessory cells and understand the role of these interactions in allergic immune responses

10:45 AM **Dendritic Cell Control of Type-2 Immunity**

Caroline L. Sokol, MD PhD

11:05 AM **Question & Answer**

11:10 AM **The Role of Gut Tuft Cells in Type 2 Immune Initiation**

Jakob von Moltke

11:30 AM **Question & Answer**

11:35 AM **Type 2 Immunity Elicited By Airway Allergens**

Nora A. Barrett, MD

11:55 AM **Question & Answer**

3:30 PM-4:30 PM

4701 **A Nuts and Bolts Approach to the Workup of Immunodeficiency Disorders in Children** TICKETED

Immunodeficiency

Session Details

Monday, February 25, 2019: 3:30 PM-4:30 PM

Marriott, Level 2, Foothill F

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Peter J. Mustillo, MD FAAAAI

M. Teresa De La Morena, MD

Learning Objectives:

1. Identify the appropriate diagnostic algorithm for the evaluation of a child with recurrent infections
2. Discuss the most appropriate therapy for a child with recurrent infection
3. Discuss the standard laboratory workup in children with recurrent infections

4702 **Evaluating Systemic Side Effects in Children Receiving Inhaled Corticosteroids** TICKETED

Asthma

Session Details

Monday, February 25, 2019: 3:30 PM-4:30 PM

Marriott, Level 2, Foothill G

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Heather K. Lehman, MD FAAAAI

Nelson Augusto Rosario, MD PhD FAAAAI

Learning Objectives:

1. Identify gaps in knowledge related to inhaled corticosteroid dosing and side effects
2. Describe potential effects of inhaled corticosteroids on growth, bones, adrenal gland and eyes
3. Discuss the benefits and limitations of non-steroid alternatives in the treatment of childhood with asthma and allergy

4703 **Biomarkers in Occupational Lung Disease** TICKETED

Lung Diseases other than Asthma

Session Details

Monday, February 25, 2019: 3:30 PM-4:30 PM

Marriott, Level 2, Foothill E

1.00 CME/CE

Seminar

Primary Discussion Leaders:

Susan M. Tarlo, MBBS FAAAAI

To be announced.

Learning Objectives:

1. Discuss recent advances in assessment of biomarkers in occupational allergic disease

3:30 PM-4:45 PM

4711 **Update from the US Food and Drug Administration**

Research Principles

Session Details

Monday, February 25, 2019: 3:30 PM-4:45 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 151

1.25 CME/CE

Workshop

Moderator:*Paul A. Greenberger, MD FAAAAI***Learning Objectives:**

1. Describe the possible roles of challenge data in addition to or in place of field data in support of licensure for allergen immunotherapy products
2. Describe recently approved treatments for Hereditary Angioedema
3. Describe the potential role of real-world evidence in informing drug safety

3:30 PM	Challenges in Clinical Trials: Expanding the Range of Data in Support of Licensure of New Allergen Immunotherapy Products <i>Joohee Lee, MD</i>
3:50 PM	Question & Answer
3:55 PM	Update on HAE Therapies <i>Stacy Chin, MD</i>
4:15 PM	Question & Answer
4:20 PM	Use Real World Evidence in Drug Development <i>Miya O. Paterniti, MD</i>
4:40 PM	Question & Answer

4712

Telemedicine in Practice: From Contemplation to Implementation*Allergy Office Practice***Session Details**

Monday, February 25, 2019: 3:30 PM-4:45 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 152

1.25 CME/CE

Workshop

Moderator:*Evan Atkinson, MD, MS***Learning Objectives:**

1. Discuss how telemedicine can be used to enhance patient care delivery and understand important regulations governing the implementation of telemedicine
2. Describe the requisite hardware and software needed to successfully implement telemedicine
3. Discuss how to participate in a live telemedicine demonstration

3:30 PM	Introduction to Telemedicine <i>Reena S. Mehta, MD</i>
3:50 PM	Question & Answer
3:55 PM	Telemedicine Pearls and Pitfalls: Practical Advice from an Experienced Provider <i>Jay M. Portnoy, MD FAAAAI</i>
4:15 PM	Question & Answer
4:20 PM	Hands On Demo: Live Demonstration of a Synchronous Telemedicine Visit <i>Sakina S. Bajowala, MD FAAAAI</i>
4:40 PM	Question & Answer

4713

Laryngeal Syndromes: Presenting as Asthma at Home and in the Workplace*Lung Diseases other than Asthma***Session Details**

Monday, February 25, 2019: 3:30 PM-4:45 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 159

1.25 CME/CE

Workshop

Moderator:*To be announced.***Learning Objectives:**

1. Understand the management and outcome of laryngeal syndromes
2. Understand the features in the history that lead to a suspicion of laryngeal syndromes

3:30 PM	When to Suspect a Laryngeal Cause for Respiratory Symptoms and How Common Is This?
3:50 PM	Question & Answer
3:55 PM	Diagnostic Approaches for Laryngeal Syndromes for the Allergist <i>Kenneth W. Altman, MD, PhD</i>
4:15 PM	Question & Answer
4:20 PM	How to Manage Laryngeal Syndromes and Associated Outcomes
4:40 PM	Question & Answer

4714

Pathways to Approval for New or Novel Hymenoptera Venom Allergenics*Drug/Insect Allergy/Vaccines***Session Details**

Monday, February 25, 2019: 3:30 PM-4:45 PM

Moscone Center South, Level 2, Room 201

0.00 CME/CE

Workshop

Moderator:

Jay E. Slater, MD

Learning Objectives:

- 1. Understand the current model for approval of venom immunotherapy products in the US**
- 2. Understand the role of sting challenge in the evaluation of venom**
- 3. Identify alternative approaches to the evaluation of venom immunotherapy products**

3:30 PM	Clinical Use and Outcome Measures for Hymenoptera Venoms <i>David BK Golden, MD FAAAAI</i>
3:50 PM	Question & Answer
4:10 PM	Approval of New and Novel Venom AIT Products: Efficacy Assessments <i>Anubha Tripathi, MD</i>
4:30 PM	Question & Answer
4:50 PM	Sting Challenge in the Assessment of Venom AIT in Europe
5:10 PM	Question & Answer
5:30 PM	Biomarkers in the Assessment of Venom AIT
5:50 PM	Question & Answer

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