Difficult to Control Asthma
#AAAAI22
Introducing the newest member of the AAAAI Family of Scientific Journals

Don’t miss the launch of The Journal of Allergy and Clinical Immunology: Global, the AAAAI’s new Gold Open Access Journal, as it joins the esteemed family of AAAAI scientific journals with the debut of its inaugural issue this week!

Reach a global audience by publishing your original research in allergy and immunology, basic science, Phase I/II clinical trials, population studies, and more. As an Open Access Journal, JACI: Global is open to anyone with internet access.

Visit the Journals Booth to learn about the AAAAI family of journals and pick up your complimentary copies. (Convention Center, North Building, Lower Level, Concourse)
Dear Colleagues,

Welcome to the 2022 AAAAI Annual Meeting. Our face-to-face meeting February 25-28 in Phoenix is taking place responsibly with appropriate health and safety measures. On behalf of the AAAAI, thank you in advance for following these protocols that are designed to ensure a safe, informative and successful Annual Meeting.

A/I clinicians from around the world have gathered in person to learn from top experts in the field, exchange ideas and best practices, and access the latest research and education as we all strive to provide optimal care to our patients. The Annual Meeting features you know and love have returned, including social events, networking opportunities and more. No one understands better than your peers what the past 2 years have been like for you. Many of us have felt a real need to be together for support, encouragement, and rejuvenation, so we hope this Annual Meeting fulfills these needs too.

The Annual Meeting Program Committee has constructed an impressive educational program, which includes a clinical theme of Difficult to Control Asthma. While the theme covers about 20% of our sessions, the remaining 80% were developed through member submissions and includes a robust selection of basic and clinical science programming. The labels and key inside this program will help you determine which sessions relate to the theme or to our other session tracks.

Add the Plenary and Keynote Sessions to Your Meeting Schedule
Join us Friday at 2:15 pm for the Presidential Plenary titled Digital Health and Remote Patient Monitoring for Patients with Difficult to Control Asthma. The Friday Presidential Plenary will discuss how digital health technologies and remote patient monitoring systems can be leveraged as a tool to support these patients, and the clinicians caring for them, in order to achieve better asthma outcomes.

Our plenary sessions continue at 8:15 am on Saturday, Sunday, and Monday, where you can learn about preparing for the next pandemic, novel mechanisms and emerging therapeutic interventions related to anaphylaxis, and the prevention of food allergy and other allergic diseases.

We are especially excited for Hannah Valentine, MD, who recently retired from her position as the inaugural NIH Chief Officer for Scientific Workforce Diversity, to deliver the keynote on Saturday at 3:30 pm. She will cover the importance of diversity in academia and team performance, and will describe innovative strategies for achieving a culture of inclusive excellence in academia.

The AAAAI recognized that not everyone would be comfortable attending an in-person meeting, so the plenaries and keynote are among the select sessions being livestreamed for those who opted to attend the 2022 Annual Meeting virtually. Other virtual components for this year’s meeting include a set of 69 pre-recorded sessions to be viewed at your convenience, the recording of a select number of live sessions that will be uploaded online, and a virtual Exhibit Hall and virtual Poster Hall.

Download the Meeting App and Join the Social Media Conversation
Remember to download the official 2022 Annual Meeting app from the App Store or Play Store on your mobile device. It allows you to: organize your session schedule, access handouts and abstracts, respond to polls and ask questions in sessions, stay informed about program changes as they happen, and navigate the Phoenix Convention Center with interactive maps and exhibitor information. Most importantly, the app offers the only way to complete faculty evaluations, and we need your feedback to make future programming improvements. And if you post on social media during the meeting, use our #AAAAI22 hashtag so patients and other colleagues can follow along and see what you are learning.

Attend the AAAAI Foundation Events to Support A/I Research
Fun and camaraderie with your fellow attendees awaits you at the AAAAI Foundation’s events: Saturday’s Benefit at the Hyatt Regency Phoenix and Sunday’s 5K Run/Walk in downtown Phoenix. By registering and attending, you are showing your support for dedicated allergy/immunology research.

We wish you a safe and fulfilling educational and networking experience as you reconnect with colleagues during your time in Phoenix.

Sincerely,

Giselle M. Mosnaim, MD MS FAAAAI
AAAAI President

Leonard B. Bacharier, MD FAAAAI
Chair, Annual Meeting Program Committee

The AAAAI Annual Meeting is not a public event. Programs presented at the Annual Meeting are for the education of attendees and purchasers of livestreamed and recorded presentations as authorized by the AAAAI. Any use of program content, the name of a speaker and/or program title, or the name of the AAAAI without the written consent of the AAAAI is prohibited. The “program content” includes, but is not limited to, oral presentations, audio visual materials used by the speakers and program handouts. This rule applies before, during and/or after the meeting.

The AAAAI endorses only those activities described in this printed program. Any other events occurring in the city of Phoenix, Arizona during the AAAAI Annual Meeting are not sanctioned by the AAAAI.
SAVE THE DATE

American Academy of Allergy Asthma & Immunology
ANNUAL MEETING
SAN ANTONIO, TX • FEBRUARY 24–27, 2023

#AAAAI23
annualmeeting.aaaai.org
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Kimberly Blumenthal, MD MSc FAAAAI, ADDA Vice Chair
Miguel A. Park, MD, ADDA Secretary

Asthma Diagnosis and Treatment (ADT)
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Basic and Clinical Immunology (BCI)
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Lisa R. Forbes Sattler, MD FAAAAI, BCI Secretary

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Michelle L. Hernandez, MD FAAAAI, EORD Secretary

Food Allergy and Eosinophilic Disorders (FAED)
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Christina Ciaccio, MD FAAAAI, FAED Vice Chair
Rima A. Rachid, MD FAAAAI, FAED Secretary

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Kristin Sokol, MD MS MPH FAAAAI, HEDQ Vice Chair
Sujani Kakumanu, MD FAAAAI, HEDQ Secretary

Immunotherapy, Rhinitis, Sinusitis, and Ocular Diseases (IRSO)
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Christopher Calabria, MD FAAAAI, IRSO Vice Chair
Tolly Epstein, MD MS FAAAAI, IRSO Secretary

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Kara J. Wada, MD

Copies of all Annual Meeting Program Committee and CME/MOC Committee disclosure information is available online at the Annual Meeting website and in the Speaker Resource Room.
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Annual Meeting Programming

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Ejaz Yousef, MD FAAAAI
Joseph Yusin, MD FAAAAI

“Thank you so much. Your help is so appreciated. The AAAAI website is terrific, It’s helped tremendously.”

Brenda
AAAAAI Foundation
Annual Benefit — 2022 —

Join us February 26, 2022
for an evening of fine food, great music and the presentation of our

2021 Faculty Development Awards

Hyatt Regency Phoenix • 7:00 pm - 10:00 pm • Cocktail Attire
Ticket Prices: $300 - Patron
$3,000 - Table of 10
$200 - NAIA/Allied Health
$125 - Student

Registration available with your Annual Meeting registration or by visiting www.aaaaifoundation.org/special-events/benefit

Sponsored by: Genentech
A Member of the Roche Group
Abstracts
Abstracts programmed at the 2022 Annual Meeting were published as an online supplement to The Journal of Allergy and Clinical Immunology (JACI) and can be accessed on the JACI website, jacionline.org.

Admission to Sessions
Admission to Annual Meeting educational sessions is reserved for meeting registrants and registered members of the press only. Guests and exhibitors will not be admitted to educational sessions. Ushers will monitor the name badges of all meeting attendees to control access to educational sessions.

Some sessions require tickets for entry, which are indicated in this program with a ticket icon. Tickets sessions have limited attendance and an additional fee. All educational sessions requiring such fees will be noted in the sessions by day schedule. Please visit the Registration Desk to register for ticketed sessions. In consideration of state fire codes and as a courtesy to others, those without tickets will not be allowed access into ticketed sessions.

American Academy of Allergy, Asthma & Immunology Foundation (AAAAI Foundation)
Convention Center, North Building, Lower Level, Hall 6 Concourse
Visit the AAAAI Foundation desk to pick up your Benefit tickets, 5K Run/Walk race packet, and Friend of the President and New Allergist/Immunologist Assembly Ribbons.

You can make a donation to the AAAAI Foundation’s GAIN Campaign at any time during the meeting by texting the word GAIN to 243725 or pressing the DONATE icon on the Annual Meeting app.

AAAAI Journals
Convention Center, North Building, Lower Level, Hall 6 Concourse
Key representatives from The Journal of Allergy and Clinical Immunology (JACI), the most-cited allergy/immunology journal, and sister journals The Journal of Allergy and Clinical Immunology: In Practice (JACI: In Practice) and The Journal of Allergy and Clinical Immunology: Global (JACI: Global) will be waiting to answer your questions regarding subscriptions and submissions.

Annual Meeting Mobile App
Sponsored by AstraZeneca
The AAAAI has a mobile app dedicated to the 2022 Annual Meeting. This app features tools allowing you to search by speaker or session type, organize your schedule, evaluate speakers and sessions, respond to polls and ask questions in sessions, stay current with changes as they occur during the meeting, and navigate the Phoenix Convention Center with floor plans and exhibitor information. Download the 2022 Annual Meeting app from the App Store or Play Store on your mobile device.

Associates to the AAAAI
See Hospitality Suite.

ATMs
The Phoenix Convention Center has ATMs located in the lobby of each building of the convention center. In the North Building, the ATM is located right outside of Hall 6 on the Lower Level.

Business Center
The Phoenix Convention Center Business Center is located in the North Building, 100 level on the southwest side of the North Ballroom. Services include photocopying, computer workstations, fax services, UPS services and office supplies.

Case Report Poster Session
Convention Center, North Building, Lower Level, Hall 4
The Case Report Poster Sessions are open on Saturday, February 26 and Sunday, February 27, 9:45 to 10:45 am daily.

Charging Lounges
Relax between sessions and recharge your electronic devices or connect with colleagues in these lounges. We are pleased to offer 5 locations this year:

Charging lounge locations are as follows:

Concourses:
Convention Center, North Building, Lower Level, Hall 6 Concourse
Sponsored by Sanofi Genzyme and Regeneron

Convention Center, North Building, Lower Level, Hall 6 Concourse
Sponsored by Takeda

Convention Center, North Building, 100 Level, Room 120

Concourse
Sponsored by GSK

Hall 4:
Convention Center, North Building, Lower Level, Hall 4, 200 Aisle
Sponsored by Takeda

Convention Center, North Building, Lower Level, Hall 4, 1300 Aisle
Sponsored by Sanofi Genzyme and Regeneron

Children and Guests
The AAAAI asks delegates to refrain from taking children, spouses or guests to any educational session offered at the 2022 Annual Meeting. Registered guests are welcome to relax in the Hospitality Suite or visit the Exhibit Hall; however, an adult must accompany children under the age of 18 at all times. Most Phoenix hotels can provide their guests with a list of independent babysitters and babysitting agencies frequently used by visitors. For more information, please contact the concierge at the appropriate hotel.

Emergency
In the event of an emergency, please use one of the house telephones available in the Phoenix Convention Center to dial 85. The security command center will contact 911 if needed. From either of the co-headquarter hotels, please dial 0 from any of the house phones.
Meeting Information

Evaluations
Delegates will be able to provide feedback on their experiences at the Annual Meeting in two ways:

Participants will be asked to provide input on the educational program of the 2022 Annual Meeting through the online CME Claim System when claiming credit for participation.

Delegates can provide feedback on Annual Meeting faculty members and the sessions they attend by using the mobile app.

Exhibits
Convention Center, North Building, Lower Level, Hall 4
The exhibiting companies and organizations will provide you with the latest information on products and services available to physicians, researchers and allied health professionals in the field of allergy/immunology. The directory on page 112 will provide you with the information you need to take full advantage of the opportunities offered by exhibitors.

Please allow adequate time in your daily schedule to visit the exhibits. Take time to speak with representatives of companies that provide services or market products directly related to your professional interests.

Exhibit Hours
Saturday, February 26 9:45 am to 3:15 pm
Sunday, February 27 9:45 am to 3:15 pm
Monday, February 28 9:45 am to 2:00 pm

Virtual exhibit booths, which are accessible through the virtual platform, are viewable through December 31, 2022.

Exhibit Hall Coffee Breaks
Saturday, February 26 9:45 am
Sunday, February 27 9:45 am
Sponsored by Takeda

Exhibit Hall Refreshment Breaks
Saturday, February 26 1:30 pm
Sponsored by BioCryst
Sunday, February 27 1:30 pm
Sponsored by CSL Behring

First Aid
Convention Center, North Building, Lower Level, Hall 6 Concourse
Non-emergency medical services are available in the First Aid room during event hours.

Food Outlets
There are coffee, food and beverage vendors located in the food court of the Phoenix Convention Center. There are also restaurants in both co-headquarter hotels.

Handouts
Handouts at the 2022 Annual Meeting will be available in two ways:

• Online Handouts
  The most up-to-date versions of the 2022 Annual Meeting handouts are available to meeting delegates at annualmeeting.aaaai.org during and after the Annual Meeting, and in the session listings in the mobile app. Delegates are able to view, download and print available session handouts. Handouts can be searched by session number, session title or a speaker’s last name.

• Handout Printing Station
  Sponsored by Blueprint Medicines
  Convention Center, North Building, 100 Level, 129A Concourse

Hospitality Suite
Hyatt, Third Level, Suite 324
Attendees with guest badges are welcome to relax in the Hospitality Suite. Stop in for information on local attractions and shopping, or just relax and enjoy some friendly conversation.

Hospitality Suite Hours
Saturday, February 26 8:00 am to 12:00 pm
Sunday, February 27 8:00 am to 12:00 pm
Monday, February 28 8:00 am to 12:00 pm

Lost and Found
Convention Center, North Building, Lower Level, Hall 6 Concourse
In the event that you have lost or found a personal belonging, please see the AAAAI Registration Desk in the Phoenix Convention Center, North Building, Lower Level, Concourse to either turn in or report a lost item. Please be prepared to provide a detailed description of your missing article.

Luggage Storage
Convention Center, North Building, 100 Level, Room 121A
Complimentary storage for luggage will be available on Monday, February 28 from 7:00 am until 5:00 pm.

Featured Employers Guide
The AAAAI maintains a strong focus on career development, and the 2022 AAAAI Featured Employers Guide furthers that goal by providing the chance for job seekers to browse new and exciting opportunities in the allergy and immunology fields. Learn about what the organizations are looking for, their culture, benefits, and more. This interactive digital guide allows you to click links to the organizations’ websites and watch videos to get a full job seeking experience. This guide will be distributed digitally to all attendees of the 2022 AAAAI Annual Meeting.
Meeting Information

Member Resource Center
Convention Center, North Building, Lower Level, Hall 6 Concourse
Visit the AAAAI Member Resource Center to:

- Take advantage of Annual Meeting discounts on all public education products.
- Pay your dues, update your membership information or learn how to become a member.

Member Resource Center Hours
Thursday, February 24  12:00 pm to 6:00 pm
Friday, February 25  7:30 am to 4:00 pm
Saturday, February 26  7:30 am to 4:00 pm
Sunday, February 27  7:30 am to 4:00 pm
Monday, February 28  7:30 am to 2:00 pm

Name Badges
All registered attendees at the 2022 Annual Meeting will receive a name badge as part of their on-site registration package. These badges have a barcode on the back that is embedded with the attendee’s name, mailing address and email address. Delegates may choose to scan their badges in the Exhibit Hall and give their contact information to specific exhibitors.

Please note: When you allow an exhibitor/sponsor to scan your badge, you are authorizing them to contact you and send you materials via postal mail and/or email. The AAAAI cannot be responsible for the use of your contact information once you have given it to an exhibitor/sponsor.

Networking Lounges
Relax between sessions and connect with colleagues. Enjoy the iconic photo ops located in the Convention Center lounges.

Convention Center:
Networking Lounge:
Sponsored by Amgen and AstraZeneca
Convention Center, North Building, Lower Level, Hall 4, Aisle 1200

Networking Lounge:
Sponsored by BioCryst
Convention Center, North Building, Lower Level, Hall 4, Aisle 200

Sheraton:
Networking Lounge:
Sponsored by Sanofi Genzyme and Regeneron
Sheraton, Second Level, Valley of the Sun E Foyer

Networking Lounge:
Sponsored by Amgen and AstraZeneca
Sheraton, Second Level, Phoenix Ballroom C Foyer

Hyatt:
Networking Lounge:
Sponsored by Amgen and AstraZeneca
Hyatt, Second Floor, Atrium

Nursing/Lactation Room
Convention Center, North Building, 200 Level, near room 229A
Convention Center, West Building, 100 Level, Concourse
The Phoenix Convention Center offers two private Mamava nursing pods for nursing guests. Guests can unlock the pods by downloading the free Mamava app or by visiting the Information Desk and speaking with a Guest Experience Representative.

Photography
Personal photography is allowed within the educational sessions and the Poster Hall, unless the speaker or poster presenter explicitly states otherwise. A camera icon with a black circle and slash on posters or slides indicates that picture taking is not allowed. Delegates are also welcome to take photographs at all other AAAAI functions and activities. Please be mindful to turn off your flash during a presentation. A professional photographer will be on site to document the event. By registering for and taking part in the Annual Meeting, your photo may be taken and used in future promotional materials. If you do not want your photo used, please inform the staff photographer at the time the photograph is taken.

Poster Hall
Convention Center, North Building, Lower Level, Hall 4
The poster sessions, featuring presentations of abstracts in thematic groupings, are open Saturday through Monday. Authors will be present with their posters from 9:45 to 10:45 am daily.

Poster Hall Hours
Saturday, February 26  7:00 am to 6:00 pm
Sunday, February 27  7:00 am to 6:00 pm
Monday, February 28  7:00 am to 2:00 pm

Practice Management Hub
Convention Center, North Building, Lower Level, Hall 6 Concourse
Visit the Practice Management Hub to obtain guidance about office operations, coding and promoting your practice.

Sheraton:
Networking Lounge:
Sponsored by Amgen and AstraZeneca
Sheraton, Second Level, Valley of the Sun E Foyer

Networking Lounge:
Sponsored by BioCryst
Sheraton, Second Level, Phoenix Ballroom C Foyer

Hyatt:
Networking Lounge:
Sponsored by Amgen and AstraZeneca
Hyatt, Second Floor, Atrium
Meeting Information

Press Room
Convention Center, North Building, 100 Level, Room 126A
Members of the press representing print, broadcast and electronic consumer media, as well as healthcare trade media, are invited to attend the 2022 Annual Meeting if they have pre-registered at annualmeeting.aaaai.org. To claim a press pass on site, journalists must provide media identification or a business card issued by their news organization. Freelance writers must provide a letter of assignment on a news organization letterhead or bylined articles from a recognized news organization. Press passes will only be issued to journalists representing the editorial staff of print, broadcast or internet media. Journalists must display their press passes at all times while attending the meeting or covering meeting-sponsored events. Journalists must also follow AAAAI COVID protocols, including vaccination requirements.

Quiet Reflection Room
Convention Center, North Building, 100 Level, Room 127A
This room has been designated for prayer and meditation and is available for use at the Annual Meeting during regular hours of operation.

Recording of Sessions
Individual recording of education sessions is not permitted.

Registration Desk
Convention Center, North Building, Lower Level, Hall 6 Concourse
Visit the Registration Desk to pick up your name badge, tickets and registration bag. You can also purchase tickets, register on site and receive your CME/CE or attendance certificates.

Ribbons
Ribbons are available at a kiosk located near the Registration Desk.

Smoking
Smoking is prohibited at all 2022 Annual Meeting sessions and events.

Speaker Disclosures
Copies of all speakers’ disclosure information are available online at the Annual Meeting website and in the Speaker Resource Room.

Speaker Resource Room
Convention Center, North Building, 100 Level, Room 125A
All speakers are asked to report to the Speaker Resource Room immediately upon arrival in Phoenix to deliver their presentation materials. Computers and technical support are available for speakers to use in this room. Individuals will receive their speaker ribbons in the Speaker Resource Room.

Special Dietary Requirements
If items on the daily, pre-arranged menu do not meet your special dietary requirements (e.g., allergies, kosher), an alternative option can be made available. Please notify an AAAAI staff member at the Registration Desk to ensure arrangements are made. Special arrangements require at least 24 hours advance notice. Vegetarian options will be available at all functions with food. If you are a vegetarian, please inform the server assigned to the room at the beginning of the session that you would like a vegetarian selection.

Friend of the President Ribbon
Thank AAAAI President Giselle S. Mosnaim, MD, MS, FAAAAI for her year of service to the AAAAI with the $100 purchase of a Friend of the President Ribbon.

This ribbon honors Dr. Mosnaim and directly supports the mission of the AAAAI Foundation: funding research that leads to the prevention and cure of asthma and allergic and immunologic disease.

Purchase or pick up your ribbon at the AAAAI Foundation booth located in the Convention Center, North Building, Lower Level, Concourse.
Ticket Exchange
Tickets to available sessions will be sold at the onsite registration desk. Please check the Session Monitor for available sessions. To exchange or cancel a session ticket, please bring the ticket to the Assisted Registration Desk no less than 30 minutes prior to the start of the session. Refunds for returned tickets will be processed after the meeting.

Time Zone
All events are listed in Mountain Standard Time (MST).

Virtual Annual Meeting Recordings
Many of the scientific sessions will be recorded and available in the virtual platform shortly after the meeting. All participants are able to view those sessions on-demand and claim credits through December 31, 2022. The recording will include presentation slides synchronized with the audio recordings.

Wellness Sessions
Sheraton, Fourth Level, Valley Overlook
Start your day off right with a morning rise and shine yoga flow session.

- Friday, February 25  6:00 to 7:00 am
- Saturday, February 26  6:00 to 7:00 am
- Sunday, February 27  6:00 to 7:00 am
- Monday, February 28  6:00 to 7:00 am

Convention Center, North Building, 100 Level, Room 127C
Take a moment to recharge your mind and body with these wellness sessions.

- Saturday, February 26
  - Invigorating Chair Yoga for Upper Body Tension  10:00 to 10:30 am
  - Tap Into the Power of Breathing for Mental Clarity  1:30 to 2:00 pm

- Sunday, February 27
  - Practical Mindfulness to Manage Daily Stress  10:00 to 10:30 am
  - Mindfulness Meditation & Visualization to Activate Vitality  1:30 to 2:00 pm

WiFi
Complimentary WiFi access is available at the Phoenix Convention Center and in all meeting spaces throughout the Sheraton and Hyatt.

Convention Center
Sponsored by Sanofi Genzyme and Regeneron
Wireless Network: dupilumab
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Sheraton
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Hyatt
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Please remember that passwords are case sensitive.

5K Run/Walk
Just $50 to register!
SUNDAY, FEBRUARY 27, 2022
Proudly sponsored by
Takeda
Better Health, Brighter Future
Show your support for the AAAAI Foundation with a 

Friend of the President Ribbon

Friend of the President Ribbon: $100

NAIA Ribbon: $50

Visit the AAAAI Foundation Booth to purchase ribbons
AAAII Annual Business Meeting
Monday, February 28, 12:30 to 1:30 pm
Convention Center, North Building, 100 Level, Room 120B
All AAAII Fellows and members should attend the annual Business Meeting. Box lunches will be provided. No fee. No pre-registration required.

Associates to the AAAII Breakfast and Business Meeting
Saturday, February 26, 9:00 to 11:00 am
Hyatt, First Floor, Regency D

Interest Section Forums
Sunday, February 27, 3:30 to 4:30 pm
AAAII Fellows and members, as well as other delegates, are invited to attend an Interest Section Forum. Each interest section of the AAAII will host a separate forum. Fellows and members may designate their interest section affiliation, while non-members may inquire about AAAII membership opportunities. Continuing education credits are available for these activities. See page 36 for more information.

AAAII Assembly/Board/Division Committee Meetings (Invitation Only)
If you are a current member of an AAAII assembly, Board or division committee, please plan to attend your committee meeting. Committee meetings are open to current AAAII members only. All members of these committees must be named by the AAAII President-Elect. If you are an AAAII member and you are interested in becoming a member of any of these committees, please contact the AAAII executive office at (414) 272-6071 or info@aaaai.org.

A/I Division Directors Committee
Sunday, February 27, 12:30 to 1:30 pm
Convention Center, North Building, 100 Level, Room 129A

Advocacy Committee
Sunday, February 27, 12:30 to 1:30 pm
Convention Center, North Building, 200 Level, Room 231B

Allied Health Education Committee
Saturday, February 26, 2:00 to 3:00 pm
Convention Center, North Building, 200 Level, 226C

Allied Health Professionals Assembly Business Meeting and Oral Abstract Session
Saturday, February 26, 12:15 to 1:45 pm
Convention Center, North Building, 200 Level, Room 227A

Annual Meeting Awards Committee
Monday, February 28, 8:00 to 9:30 am
Convention Center, North Building, 200 Level, Room 232B

Annual Meeting Program Committee
Monday, February 28, 10:00 am to 12:00 pm
Convention Center, North Building, 200 Level, Room 231A

Continuing Certification and Professional Education Committee (Invitation Only)
Saturday, February 26, 5:00 to 6:00 pm
Convention Center, North Building, 200 Level, Room 232C

Core Curriculum, Education & Residency Review Subcommittee
Saturday, February 26, 12:30 to 1:30 pm
Hyatt, Second Floor, Ellis West

AAAII Assembly/Board/Division Committee Meetings (Invitation Only)
Federation of RSLAAIS Governors Meeting
Saturday, February 26, 2:00 to 3:15 pm
Sheraton, Second Level, Encanto B

Fellows-In-Training Committee
Saturday, February 26, 7:00 to 8:00 am
Convention Center, North Building, 200 Level, Room 229A

Grant Review Committee
Sunday, February 27, 8:00 to 9:00 am
Convention Center, North Building, 200 Level, Room 231C

Interest Section Coordinating Committee (ISCC)
Friday, February 26, 10:45 to 11:45 am
Sheraton, Second Level, Encanto B

Registry/Measures Stewardship Committee
Saturday, February 26, 7:00 to 8:00 am
Hyatt, Second Floor, Ellis West

Office of Medical Education Committee (Invitation Only)
Sunday, February 27, 12:30 to 1:30 pm
Convention Center, North Building, 200 Level, Room 232A

Office of Practice Management
Friday, February 25, 12:30 to 1:30 pm
Convention Center, North Building, 200 Level, Room 231A

Program Directors Assembly Executive Committee
Sunday, February 27, 7:00 to 8:00 am
Convention Center, North Building, 200 Level, Room 229B
AAAIA Interest Section Committee Meetings
Committee meetings are held during the Annual Meeting for the purpose of conducting AAAAI related business. If you are a current member of an interest section committee, please plan to attend your committee meeting. If you are an AAAAI member and you are interested in joining an interest section committee, please attend the meeting and notify the chair that you are interested in joining. For more information on AAAAI committees, please contact the AAAAI executive office at (414) 272-6071 or info@aaaai.org.

Adverse Reactions to Drugs, Biologicals & Latex Committee
Saturday, February 26, 12:30 to 1:30 pm
Convention Center, North Building, 100 Level, Room 129A

Adverse Reactions to Foods Committee
Saturday, February 26, 6:15 to 7:45 am
Hyatt, First Floor, Regency Ballroom

Allergic Fungal Respiratory Diseases Committee
Sunday, February 27, 6:45 to 7:45 am
Convention Center, North Building, 200 Level, Room 232B

Allergic Skin Diseases Committee
Saturday, February 26, 12:30 to 1:30 pm
Sheraton, Second Level, Encanto A

Anaphylaxis Committee
Sunday, February 27, 7:00 to 8:00 am
Convention Center, North Building, 200 Level, Room 231A

Asthma & Allergic Diseases in Older Adults Committee
Sunday, February 27, 12:30 to 1:30 pm
Convention Center, North Building, 200 Level, Room 229B

Asthma, Cough, Diagnosis and Treatment Committee
Saturday, February 26, 12:30 to 1:30 pm
Convention Center, North Building, 200 Level, Room 232C

Autoimmunity and Altered Immune Response Committee
Saturday, February 26, 12:30 to 1:30 pm
Hyatt, Second Floor, Ellis East

Cells and Mediators of Allergic Inflammation Committee
Sunday, February 27, 12:30 to 1:30 pm
Sheraton, Second Level, Encanto A

Committee on the Underserved
Saturday, February 26, 1:45 to 2:45 pm
Convention Center, North Building, 200 Level, Room 222A

Environmental Exposure and Respiratory Health Committee
Friday, February 25, 12:00 to 1:30 pm
Sheraton, Second Level, Encanto A

Eosinophilic Gastrointestinal Disorders Committee
Saturday, February 26, 12:30 to 1:30 pm
Convention Center, North Building, 200 Level, Room 232A

Genetics, Molecular Biology and Epidemiology Committee
Saturday, February 26, 7:00 to 8:00 am
Convention Center, North Building, 200 Level, Room 232C

Health Informatics, Technology and Education Committee
Saturday, February 26, 12:30 to 1:30 pm
Hyatt, Second Floor, Phoenix Ballroom

Immunotherapy, Allergen Standardization and Allergy Diagnostics Committee
Sunday, February 27, 6:45 to 8:00 am
Convention Center, North Building, 100 Level, Room 132A

Integrative Medicine Committee
Friday, February 25, 5:30 to 6:30 pm
Hyatt, Second Floor, Ellis West

Mast Cells Disorders Committee
Friday, February 25, 12:00 to 1:00 pm
Convention Center, North Building, 200 Level, Room 231C

Microbes in Allergy and Asthma Committee
Monday, February 28, 7:00 to 8:00 am
Convention Center, North Building, 200 Level, Room 231C

NAB Counters & Areobiology Committee Meeting
Saturday, February 26, 12:15 to 1:45 pm
Convention Center, North Building, 200 Level, Room 229A

Occupational Diseases Committee
Sunday, February 27, 12:30 to 1:30 pm
Convention Center, North Building, 200 Level, Room 232C

Practice, Diagnostics and Therapeutics Committee
Sunday, February 27, 7:00 to 8:00 am
Convention Center, North Building, 100 Level, Room 130

Primary Immunodeficiency Diseases Committee
Saturday, February 26, 12:30 to 1:30 pm
Convention Center, North Building, 100 Level, Room 132A

Quality, Adherence and Outcomes Committee
Friday, February 25, 1:00 to 2:00 pm
Sheraton, Second Level, North Mountain

Rhinitis, Rhinosinusitis and Ocular Allergy Committee
Sunday, February 27, 6:45 to 7:45 am
Sheraton, Second Level, Encanto A

Sports, Exercise and Fitness Committee
Sunday, February 27, 12:30 to 1:30 pm
Convention Center, North Building, 200 Level, Room 232B

Vaccines Committee
Friday, February 25, 5:30 to 6:30 pm
Hyatt, Second Floor, Ellis East
Other Meetings and Events

Other AAAAI Meetings (Invitation Only)

**AAAAI Foundation Council Meeting**
Monday, February 28, 10:00 to 11:30 am
Convention Center, North Building, 200 Level, Room 231C

**AAAAI Leadership Institute Course**
Friday, February 25, 8:00 am to 12:00 pm
Sheraton, Second Level, Camelback A

**Allied Health Wine and Cheese Reception**
*Sponsored by Aimmune Therapeutics, A Nestlé Health Science Company*
Friday, February 25, 5:15 to 6:30 pm
Convention Center, North Building, 200 Level, Room 225A

**Chrysalis Project Participant Registration**
Thursday, February 24, 6:00 to 7:00 pm
Sheraton, Second Level, Maryvale A

**Chrysalis Project Program**
Friday, February 25, 7:30 am to 1:45 pm
Sheraton, Third Level, Phoenix C

**Chrysalis Project Reception**
Saturday, February 26, 6:00 to 7:00 pm
Sheraton, Fourth Level, Valley Overlook

**Faculty Development Program Reunion Breakfast**
Sunday, February 27, 6:00 to 8:00 am
Convention Center, North Building, 100 Level, Room 129A

**FIT Reception**
*Sponsored by DBV Technologies*
Friday, February 25, 5:00 to 6:00 pm
Sheraton, Fourth Level, Valley Overlook

**FIT Symposium**
Friday, February 25, 7:00 am to 1:30 pm
Sheraton, Second Level, Valley of the Sun C

**JACI Associate Editors Meeting**
Sunday, February 27, 12:30 to 1:45 pm
Sheraton, Second Level, Encanto B

**JACI Editorial Board Meeting**
Friday, February 25, 12:30 to 1:45 pm
Convention Center, North Building, 100 Level, Room 129A

**JACI Journals’ Reviewers Forum and Reception**
Sunday, February 27, 4:45 to 6:30 pm
Convention Center, North Building, 100 Level, Room 129A

**JACI: In Practice Editorial Board Meeting**
Saturday, February 26, 7:00 to 8:00 am
Convention Center, North Building, 100 Level, Room 129A

Other Meetings and Events

**Advocacy & Awareness for Immune Disorders Association (AAIDA)**

**Annual Educational Mixer**
Sunday, February 27, 5:00 to 6:00 pm
Hyatt, Second Floor, Cassidy

**Allergists for Israel Board Meeting**
Friday, February 25, 4:30 to 5:30 pm
Sheraton, Second Level, Ahwatukee AB

**Allergists for Israel Religious Service**
Friday, February 25, 5:30 to 6:30 pm
Sheraton, Second Level, Laveen AB

**Allergists for Israel Welcome Kiddush Reception**
Friday, February 25, 6:00 to 9:00 pm
Sheraton, Second Level, Maryvale AB

**Allergists for Israel Religious Service**
Saturday, February 26, 6:00 to 9:00 am
Sheraton, Second Level, Encanto B

**Allergists for Israel Religious Service**
Saturday, February 26, 5:00 to 8:00 pm
Sheraton, Second Level, South Mountain

**Allergists for Israel Religious Service**
Sunday, February 27, 6:00 to 8:30 am
Sheraton, Second Level, Encanto B

**Allergists for Israel Religious Service**
Sunday, February 27, 4:30 to 6:00 pm
Sheraton, Second Level, South Mountain

**Allergists for Israel Religious Service**
Monday, February 28, 6:00 to 9:00 am
Sheraton, Second Level, Alhambra

**American Association of Allergists & Immunologists of Indian Origin (AAAII) - Semi-Annual Meeting & Symposium**
Friday, February 25, 6:00 to 9:00 pm
Hyatt, First Floor, Regency Ballroom AB

**IFPIES: Non-IgE Medicated Food Allergy Workshop**
Friday, February 25, 6:00 to 8:00 pm
Sheraton, Second Level, Paradise Valley

**INDANA (International Network of Diet and Nutrition in Allergy)**

**Steering Committee Meeting**
Saturday, February 26, 3:30 to 6:30 pm
Sheraton, Second Level, Alhambra
Other Meetings and Events

Non-CME Educational Programs

Thursday

These programs are not sponsored or programmed by the AAAAI.

Disease Burden and Endophenotypes—Finding the Path Through Clinical Dilemmas in CRSwNP and SEA

Thursday, February 24, 6:30 to 8:30 pm MST
Sheraton, Third Level, Phoenix Ballroom D
Sponsored by GSK

Speaker: Jonathan Corren, MD

Part 2: What's Your Type? Solving Clinical Dilemmas Persistent Severe Asthma Through Endophenotyping
Moderator: Thomas Corbridge, MD
Speaker: Brian Modena, MD, MSc

Join expert allergists for this two-part, interactive program. Part one will include a brief introduction to the secondary impacts that patients with CRSwNP may experience and explore the OCS burden. Interactive patient cases will illustrate critical evaluation and management strategies. Part 2 will focus on building an understanding of the clinical challenges presented by persistent, severe, uncontrolled asthma. Interactive patient cases will explore the pathophysiology and clinical presentation of severe asthma, the role of endophenotyping, and the importance of evaluating for T2 inflammation. Both parts will highlight strategies to reduce OCS use in their respective patient populations.

Learn About A Now Approved Oral Rx Treatment for Moderate-to-Severe Atopic Dermatitis

Thursday, February 24, 6:30 to 8:30 pm MT
Sheraton, Third Level, Phoenix Ballroom A
Non-CME Educational Dinner Program Brought to You by Pfizer Inc.

Now introducing CIBINQO™ (abrocitinib) for adults with refractory, moderate-to-severe atopic dermatitis. Pfizer Inc., invites you to an engaging, non-CME, educational program during which an expert in the field of Allergy & Immunology will discuss the efficacy and safety profile of this new treatment option, helping you determine its appropriateness for your patients. Full PI available at CIBINQOPI.com.

Friday

These programs are not sponsored or programmed by the AAAAI.

IS IT SYSTEMIC MASTOCYTOSIS? Best Practices for Diagnosis and Management

Friday, February 25, 6:45 to 8:45 am (Registration at 6:15 am; breakfast will be provided.)
Sheraton, Third Level, Phoenix Ballroom A
Supported by an educational grant from Blueprint Medicines Corporation

This Interactive Exchange™ educational program focuses on the identification and management of patients with nonadvanced systemic mastocytosis (SM). The program will open with a brief video segment featuring a 3D animation detailing the pathophysiological drivers of SM and their implications for the development of targeted therapies. Dynamic discussions among a multidisciplinary panel of experts will address challenges in the diagnosis and classification of nonadvanced SM, highlight recent clinical trial data on emerging targeted therapies, and emphasize real-world strategies for the comprehensive management of nonadvanced SM. The program will conclude with an engaging case study discussion highlighting the various clinical presentations of nonadvanced SM along with expert advice for practical and effective disease management. Please join us for this informative and engaging session.

Register now: www.ExchangeCME.com/2022SMPhoenix

Type 2 Inflammation: An Important Perspective for Clinicians

Friday, February 25, 6:45 to 8:45 am
Sheraton, Third Level, Phoenix Ballroom D
Sponsored by Sanofi Genzyme and Regeneron
Faculty: Jonathan Corren, MD

From deep in the esophageal epithelium, to the outer dermis, explore the latest insights on type 2 inflammation and epithelial barrier dysfunction including prevalence, biomarkers, and localized effects that drive symptomatology and disease burden.

Follow the AAAAI Annual Meeting on Twitter
Non-CME Educational Programs (continued)

**“Challenging Treatment Expectations” AbbVie Dermatology**
Friday, February 25, 6:30 to 8:30 pm
Sheraton, Second Level, Valley of the Sun Ballroom E
Sponsored by AbbVie
Please see the Mobile App for updated program information.

**Case Studies: Treating Children With a Peanut Allergy**
Friday, February 25, 6:30 to 8:30 pm
Sheraton, Third Level, Phoenix Ballroom A
Sponsored by Aimmune Therapeutics, A Nestlé Health Science Company
Join us for a panel discussion to review patient case studies of children aged 4 through 17 years with peanut allergy, and learn more about a current treatment option.

**Moving Beyond Misperceptions of Asthma Control and Stepping Towards Personalized Care**
Friday, February 25, 6:30 to 8:30 pm MST
Sheraton, Second Level, Valley of the Sun Ballroom C
Sponsored by GSK
Speakers:
Juan Carlos Cardet, MD
Priya Bansal, MD
This program will focus on the recognition and the management of uncontrolled asthma, as well as understanding the burden and subsequent challenges faced by patients and healthcare providers. Beginning with acknowledging and understanding the common misperceptions in assessing control, this program will explore the pathophysiology and heterogeneity of asthma and provide evidence-based insight on ways to personalize patient care through the application of clinical and guidelines-based management.

**Chronic Spontaneous Urticaria: How Will Emerging Therapies Impact Treatment Paradigms?**
Friday, February 25
Registration & Dinner | 6:30 to 7:00 pm MT
Educational Symposium | 7:00 to 8:30 pm MT
Sheraton, Third Level, Phoenix Ballroom D
This activity is supported by an educational grant from Sanofi Genzyme and Regeneron Pharmaceuticals.
What’s new in the treatment of urticaria? During this educational activity, Drs. Allen Kaplan, Marc Riedl, Kristin Sokol, and Laura Ferris will review the burden of chronic spontaneous urticaria and its impact on quality of life. They will also discuss the role and clinical implications of biomarkers, compare the major treatment guidelines, and explore the current and emerging therapies for chronic spontaneous urticaria.

Register to join in-person or stream from anywhere: [https://vindicocme022522.eventbrite.com/?aff=amma](https://vindicocme022522.eventbrite.com/?aff=amma)

**Optimizing the Care of Patients with Moderate-to-Severe Asthma: Minimizing Asthma Exacerbations with Biologic Therapy**
Friday, February 25, 8:30 to 9:30 pm
Sheraton, Third Level, Phoenix Ballroom C
Supported by an independent medical education grant from Regeneron Pharmaceuticals, Inc. and Sanofi Genzyme
Join Dr. Mario Castro and Dr. Diego Maselli in this interactive, case-based program about minimizing asthma exacerbations with biologic therapy. Further, through the use of simulation challenge animations, this program aims to explain immune dysfunction and the pathogenesis of moderate-to-severe asthma, currently available and emerging targeted therapies used for asthma, and the usefulness and application of guidelines and biomarkers to guide treatment selection for this disease. This symposium is provided by Med Learning Group. Please register for the event at www.mlg-asthma.com.

**Saturday**
These programs are not sponsored or programmed by the AAAAI.

**Spotting the Zebra: EGPA and HES Interactive, Case-Based Learning**
Saturday, February 26, 6:00 to 8:00 am MST
Sheraton, Third Level, Phoenix Ballroom A
Sponsored by GSK
Speaker: Mili Shum, MD
Eosinophilic granulomatosis with polyangiitis (EGPA) and hypereosinophilic syndrome (HES) are rare eosinophilic disorders that present similarly and thus present a diagnostic challenge. Join an expert allergist-immunologist for an interactive, case-based discussion that will highlight the role of multidisciplinary collaboration in facilitating and expediting the diagnosis and management of these heterogeneous disease states.

**A Treatment Option for Patients with Uncontrolled Moderate-to-Severe Atopic Dermatitis**
Saturday, February 26, 7:00 to 8:00 am MT
Sheraton, Third Level, Phoenix Ballroom D
Sponsored by Sanofi Genzyme and Regeneron
Learn more about a treatment that may help appropriate patients with uncontrolled moderate-to-severe atopic dermatitis.
Non-CME Educational Programs (continued)

**Respiratory Experts Discuss a Biologic Agent and an Inhaled Therapy**
Saturday, February 26, 6:30 to 8:30 pm MST  
Sheraton, Third Level, Phoenix Ballroom A  
Sponsored by GSK
Join Dr. Dennis Ledford and Dr. Ellen Sher for a 2-part discussion about respiratory diseases. At 6:30 pm MST, Dr. Ledford will review the clinical data and latest real-world evidence for a biologic treatment in patients with severe eosinophilic asthma. He will also discuss data supporting the use of this targeted biologic for patients with chronic rhinosinusitis with nasal polyps. At 7:30 pm MST, Dr. Sher will review practical approaches to identify adult patients with asthma who remain symptomatic while receiving ICS/LABA maintenance therapy and evidence for the use of inhaled triple therapy. We will conclude each presentation with a live Q&A.

**Understanding Chronic Cough: Patient Presentation and Assessment**
Participate in this live program on:  
Saturday, February 26, 6:30 to 8:00 pm MT  
6:30 to 7:00 pm: registration, 7:00 pm to 8:00 pm: educational session and dinner  
Sheraton, Second Level, Valley of the Sun Ballroom E  
Sponsored by Merck
Please join Michael S. Blaiss, MD, for this non-CME program for US healthcare professionals to learn more about chronic cough. Topics will include:
- Discuss patient cases and understand patient presentation of chronic cough
- Review clinical guidelines
- Understand potential mechanisms of disease in chronic cough

**Understanding Asthma Disparities in Communities of Color and the Role of Systemic and Localized Type 2 Inflammation in Asthma**
Saturday, February 26, 6:30 to 8:30 pm  
Sheraton, Third Level, Phoenix Ballroom D  
Sponsored by Sanofi Genzyme and Regeneron
Faculty:  
Autumn Burnette, MD  
Cedric “Jamie” Rutland, MD
Join us as we bring to light the disproportionate impact of asthma in communities of color through a case-based review, emphasizing key factors impacting asthma management in these populations. Next, we will learn about the impact of systemic and localized type 2 inflammation on asthma symptoms and discuss a treatment option for appropriate patients with moderate-to-severe asthma.

**The Power of Effective Prevention for Patients With Hereditary Angioedema (HAE)**
Saturday, February 26, 6:30 to 8:30 pm MT  
Sheraton, Second Level, Valley of the Sun Ballroom C  
Sponsored by Takeda. Industry Program. No CME/CE credit can be claimed.
Faculty: HAE Expert Panel
Join our panel of HAE experts to learn about what effective prevention can mean for your patients with hereditary angioedema (HAE). Expert faculty will guide you through a patient’s journey with HAE and the importance of effective prevention, followed by a panel discussion.

**Addressing Barriers to EoE Diagnosis and Treatment: The Role of Updated Guidelines and Novel Therapies**
Saturday, February 26, 8:30 to 10:15 pm MST  
Sheraton, Third Level, Phoenix Ballroom C  
Either in-person or virtually by simulcast, please join our multidisciplinary expert panel plus an experienced patient with EoE as they discuss this challenging chronic disease. The panel will address diagnosis and management, as well as pathophysiologic pathways and targets that are currently being explored for its treatment. Register today at www.rmei.com/EoE-Feb-26
Eosinophilic esophagitis (EoE) is a rare, debilitating chronic inflammatory disorder. Unfortunately, diagnostic delay is common and current management approaches do not fully address EoE symptoms or provide endoscopic and histologic resolution. However, several pathophysiologic pathways have been described and targeted therapies are under study for the treatment of EoE.

**Sunday**
These programs are not sponsored or programmed by the AAAAI.

**Inflammation and Activation: Evaluating the Role of Eosinophils Across Diseases**
Sunday, February 27, 6:00 to 8:00 am (Breakfast will be Served)  
Sheraton, Third Level, Phoenix Ballroom A  
Sponsored by AstraZeneca
At this session, explore complex pathogenic mechanisms where activated eosinophils can contribute to disease pathology, playing a key role in a range of diseases. Understanding their impact may help improve patient diagnosis, referral, and care for such diseases as eosinophilic asthma, chronic rhinosinusitis with nasal polyps, eosinophilic esophagitis, and more.

Speaker:  
Sameer K. Mathur, MD, PhD  
Associate Professor  
University of Wisconsin
Exploring Chronic Rhinosinusitis With Nasal Polyps (CRSwNP): Diagnostic Best Practices and Considerations in Addressing Underlying Inflammation

Sunday, February 27, 6:00 to 6:15 am - Registration & Breakfast; 6:15 to 7:30 am - Symposium
Sheraton, Third Level, Phoenix Ballroom D
This activity is provided by Med Learning Group.
This activity is co-provided by Ultimate Medical Academy/Complete Conference Management (CCM).
This activity is supported by an independent medical education grant from Regeneron Pharmaceuticals, Inc. and Sanofi Genzyme.
This program is designed for allergists, otolaryngologists, primary care clinicians, and other clinical team members who manage chronic rhinosinusitis with nasal polyps. In this program we will aim to discuss the burden and pathophysiology of CRSwNP, review guidelines for diagnosis and short- and long-term management, look at clinical data and biomarkers on current and novel anti-inflammatory biologics, and teach clinicians how to apply best practices for the interdisciplinary development of individualized treatment plans for these patients. We will use a combination of didactic lecture, video animations, and patient cases to effectively teach clinicians who manage this condition.

Faculty:
Cecelia Damask, DO
Stella E. Lee, MD

A Proven Approach to Targeting Eosinophils in Severe Asthma

Sunday, February 27, 6:30 to 8:30 pm
Sheraton, Third Level, Phoenix Ballroom A
Sponsored by AstraZeneca

AstraZeneca invites you to come explore the role eosinophils play in contributing to airway inflammation and asthma exacerbations. Multiple signaling pathways and airway triggers can lead to the activation of eosinophils, resulting in eosinophilic inflammation. A case-based presentation will be used to help attendees recognize eosinophilic asthma in clinical practice and connect eosinophilic inflammation to asthma symptoms, exacerbations, and potential steroid exposure. Attendees will learn about a focused approach for targeting eosinophils in the treatment of severe eosinophilic asthma.

Chronic Spontaneous Urticaria: Exploring the Potential Role of Type 2 Inflammation in Disease Pathogenesis

Sunday, February 27, 6:30 to 8:30 pm MT
Sheraton, Third Level, Phoenix Ballroom D
Sponsored by Sanofi Genzyme and Regeneron

Join us as we explore type 2 inflammation as a potential connection to different clinical manifestations across patients with chronic spontaneous urticaria.

Component Resolved Diagnostics – Crack the code on the diagnostic dilemma

Sunday, February 27, 6:30 to 8:30 pm MT
Sheraton, Second Level, Valley of the Sun Ballroom E
Sponsored by Thermo Fisher Scientific

Join us in person or virtually for an informative and interactive session led by experts with extensive knowledge in the field of molecular allergology. Topics include:

- Wheat Allergy: Uncovering the grain-ularity
  Anna Nowak-Węgrzyn, MD, PhD, FAAAAI, FACAAI

- Insect Venom Allergy: Behind the sting
  David B.K. Golden, MD, FACAAI, FAAAAI, FACP

- Pet Allergy: It's not always the cat!
  Ann-Marie Schoos, MD, PhD

- Sesame Allergy: Seeds of knowledge
  Jacob Kattan MD, MSCR

Co-Chairs: Magnus Borres, MD & Gary Falcetano, PA-C

Save the Date: https://www.addevent.com/event/Ju11166486

TEZSPIRE: A New Approach

Sunday, February 27, 8:30 to 10:30 pm
Sheraton, Third Level, Phoenix Ballroom C
Sponsored by Amgen and AstraZeneca

Please join Amgen and AstraZeneca as they introduce a new approach that may change your point of view. Our expert will share the efficacy and safety data and how it can apply in clinical practice.

Speaker: Dr. Joel Hartman
Non-CME Educational Programs (continued)

**Monday**

These programs are not sponsored or programmed by the AAAAI.

**Clinical Perspectives on an Oral Prophylactic Therapy for HAE: A Case-Based Approach**

Monday, February 28, 6:30 to 7:30 am
Sheraton, Third Level, Phoenix Ballroom D

Sponsored by BioCryst Pharmaceuticals, Inc.

Join us for a dynamic and interactive discussion where we will explore an oral therapy option in HAE, including its safety and efficacy data, as the expert faculty presents patient case profiles. Learn how to initiate this oral prophylactic therapy for your patients. The presentation will be followed by a live Q&A session with the faculty. An HAE program not to be missed! Register today! www.OralHAETherapy.com.

**Taking It From the Top: Targeting a New Approach to Controlling Severe Asthma**

Monday, February 28
6:30 to 7:00 am MST: Registration & Breakfast
7:00 to 8:00 am MST: In-Person & Virtual Symposium
Sheraton, Third Level, Phoenix Ballroom A

Provided by PVI, PeerView Institute for Medical Education. Supported by an independent educational grant from AstraZeneca LP.

Severe asthma remains a burden for many patients despite numerous treatments. The heterogeneity of severe asthma makes management challenging, particularly for patients with a non-type 2 phenotype. Our faculty will detail the pathophysiology of severe asthma and discuss the mechanisms behind type 2 and non-type 2 asthma. They will review TSLP, its role in the inflammatory cascade, and what makes it an attractive therapeutic target. They will also discuss available biologic targeted therapies for severe asthma characterized by type 2 inflammation, the therapeutic potential of agents that block epithelial cytokines, and the latest efficacy and safety data. peerview.com/Asthma22-Phoenix-Live

AAAII Payer Relations

Initiating communication and conversations to protect patient access to care and provider compensation.

- Advocating for you: more than 200 letters sent to payers in 2021 to address policies of concern.
- Impacting policies ranging from Xolair site of administration policies and omission of diagnoses codes for oral challenges to measurement of exhaled nitric oxide.
- Engaging with payers across the country, including UnitedHealth Care, Anthem, Blue Cross Blue Shield and many more.
- Evaluating payer policy revisions: more than 750 allergy, 1500 asthma and 500 immunotherapy policies reviewed in 2021.

“This is in response to your August 25, 2021 correspondence alerting us to our error... Thank you for bringing this to our attention.”

– Heidi, Novitas Solutions, Inc.

Because Practice Matters! to the AAAAI
HELP SUPPORT A/I RESEARCH

Your 2022 gifts to the GAIN Campaign will support research in 2023!

Donate today at aaaaifoundation.org/give

Proudly sponsored by biocryst
A New Opportunity for FITs Interested in the Safety of Vaccines and Asthma Medications During Pregnancy

Applications Due February 28, 2022

Fellows-in-training (FITs) who are interested in the interface between allergy/immunology and reproductive medicine/pregnancy are encouraged to apply to work with the VAMPSS Investigative Team as a VAMPSS FIT. Activities will include regular phone/video meetings with the VAMPSS team and a clinical or research project. Applicants must be in their first year of training at the time of application (or second year in a 3-year program) and secure the approval of their program director. One FIT per year will be selected, with the first position beginning July 1, 2022.

Learn more and apply online at aaaai.org/ApplyVAMPSS by February 28, 2022.

Questions? Email the VAMPSS Investigative Team staff liaison Lauri Sweetman at lsweetman@aaaai.org.
Associate and Guest Activities

Associates (Spouses & Friends) to the AAAAI
For over 37 years, the Associates (Spouses & Friends) to the AAAAI have provided networking opportunities and events for the spouses and friends to the AAAAI.

Full membership in the Associates is included in each spouse/guest registration fee. Membership includes volunteer opportunities and a chance to participate in the future programming for the Associates.

**Associates (Spouses & Friends) to the AAAAI**
Saturday, February 26 to Monday, February 28
8:00 am to 12:00 pm
**Hyatt, Third Floor, Suite 324**
Make sure to visit the Associates Hospitality Suite where a host will be on-hand to assist with restaurant and activity recommendations and to help in making reservations. Stop by, have a cup of coffee, learn more about the city of Phoenix and what to do, and learn more about how you can get involved in the A/I specialty!

**Associates Breakfast and Business Meeting**
Saturday, February 26, 9:00 to 11:00 am
**Hyatt, First Floor, Regency D**
*Pre-registration and ticket required*
The Associates Steering Committee would like to invite you to begin your Annual Meeting experience by joining up for the Associates Celebration at the Hyatt Regency Phoenix. This breakfast event is open only to spouse/guest attendees (those displaying a delegate or exhibitor badge will not be allowed entry). For guests interested in bringing a child under the age of 17, pre-registration and a ticket is required. Children under the age of 6 are complimentary.
The American Academy of Allergy, Asthma & Immunology Foundation presents the

2022 Named Lectureship Series

Featuring Lectures at AAAAI Annual Meeting Plenary, Keynote and Symposium Sessions In Honor Of:

K. Frank Austen, MD FAAAAI & Albert L. Sheffer, MD FAAAAI
Isil Berat Barlan, MD
Michael M. Frank, MD FAAAAI
Bettina C. Hilman, MD
Allen P. Kaplan, MD FAAAAI
Phillip E. Korenblat, MD
Dennis K. Ledford, MD FAAAAI & University of South Florida Allergy & Immunology Division
Robert F. Lemanske, Jr, MD FAAAAI Lectureship
Donald Y. M. Leung, MD PhD FAAAAI

Phil and Barbara Lieberman and Friends
Richard F. Lockey, MD MS FAAAAI & University of South Florida Allergy & Immunology Division
Harold S. Nelson, MD FAAAAI
David S. Pearlman, MD FAAAAI
Gary S. Rachelefsky, MD FAAAAI
Gail G. Shapiro, MD FAAAAI
John W. Yunginger MD FAAAAI Memorial Lectureship
Heritage Lectureship Honoring Drs. Robert Becker, Jerry Dolovich, Elliot Middleton, John Salvaggio, Burton Zweiman
Annual Meeting Lectureships

AAAAI Foundation Named Lectureships are established to recognize substantial contributions of at least $100,000 to the AAAAI Foundation through collaborative contributions of others or individual contributions honoring an individual or entity. The AAAAI Foundation leadership is proud to announce the lectureships and lecturer speakers for the 2022 AAAAI Annual Meeting. Biographies and photographs are available at annualmeeting.aaaai.org.

**Friday, February 25**

**AAAAI Foundation and Gary S. Rachelefsky, MD FAAAAI Lectureship: Investing Together in Our Future (5th year)**
**Lecturer: Ruth Tal-Singer, PhD**
1601 Presidential Plenary: Digital Health and Remote Patient Monitoring for Patients with Difficult to Control Asthma
Convention Center, North Building, Lower Level, Hall 6, 2:50 pm

**AAAAI Foundation and Bettina C. Hilman, MD Lectureship (5th year)**
**Lecturer: Robin Deterding**
1601 Presidential Plenary: Digital Health and Remote Patient Monitoring for Patients with Difficult to Control Asthma
Convention Center, North Building, Lower Level, Hall 6, 3:20 pm

**Saturday, February 26**

**Heritage Lectureship, Honoring Drs. Robert Becker, Jerry Dolovich, Elliot Middleton, John Salvaggio, Burton Zweiman (4th year)**
**Lecturer: Jean-Laurent Casanova, MD PhD**
2101 Preparing for the Next Pandemic: From Mechanisms to Vaccines
Convention Center, North Building, Lower Level, Hall 6, 8:50 am

**Bench to Bedside: K. Frank Austen, MD FAAAAI & Albert L. Sheffer, MD FAAAAI Lectureship (3rd year)**
**Lecturer: Duane R. Wesemann, MD PhD**
2101 Preparing for the Next Pandemic: From Mechanisms to Vaccines
Convention Center, North Building, Lower Level, Hall 6, 9:20 am

**AAAAI Foundation and Phillip E. Korenblat, MD FAAAAI Lectureship: Investing Together in Our Future (5th year)**
**Lecturer: Gurjit K. Khurana Hershey, MD PhD FAAAAI**
2521 National Institute of Allergy and Infectious Diseases (NIAID): New Insights Into the Immunoregulation of Atopic Dermatitis
Convention Center, North Building, 100 Level, Room 120A, 12:35 pm

**AAAAI Foundation and Donald Y. W. Yunginger MD FAAAAI Memorial Lectureship (2nd year)**
**Lecturer: Geoffrey A. Mueller, PhD**
2522 National Institute of Environmental Health Sciences (NIEHS): Molecular Characterization of Allergens and Specific IgE Antibodies
Convention Center, North Building, 100 Level, Room 120D, 12:35 pm

**AAAAI Foundation and Richard F. Lockey, MD MS FAAAAI & University of South Florida A/I Program Lectureship (3rd year)**
**Lecturer: Tissa R. Hata, MD**
2521 National Institute of Allergy and Infectious Diseases (NIAID): New Insights Into the Immunoregulation of Atopic Dermatitis
Convention Center, North Building, 100 Level, Room 120A, 1:15 pm

**AAAAI Foundation and John W. Yunginger MD FAAAAI Lectureship: Investing Together in Our Future (3rd year)**
**Lecturer: Anna Pomés, PhD FAAAAI**
2522 National Institute of Environmental Health Sciences (NIEHS): Molecular Characterization of Allergens and Specific IgE Antibodies
Convention Center, North Building, 100 Level, Room 120D, 12:55 pm

**AAAAI Foundation and Michael M. Frank, MD FAAAAI Lectureship (3rd year)**
**Lecturer: Sarita U. Patil, MD FAAAAI**
2522 National Institute of Environmental Health Sciences (NIEHS): Molecular Characterization of Allergens and Specific IgE Antibodies
Convention Center, North Building, 100 Level, Room 120D, 1:15 pm

**Sunday, February 27**

**AAAAI Foundation and Phil and Barbara Lieberman and Friends Lectureship: Investing Together in Our Future (8th year)**
**Lecturer: Bruce S. Bochner, MD FAAAAI**
3101 Anaphylaxis: Novel Mechanisms and Emerging Therapeutic Interventions
Convention Center, North Building, Lower Level, Hall 6, 8:20 am

**AAAAI Foundation and Allen P. Kaplan, MD FAAAAI Lectureship: Creating Knowledge for Our Future (3rd year)**
**Lecturer: Kimberly G. Blumenthal, MD MSc FAAAAI**
3101 Anaphylaxis: Novel Mechanisms and Emerging Therapeutic Interventions
Convention Center, North Building, Lower Level, Hall 6, 9:20 am
Build a strong peer and mentor network while preparing for your research career.

The 2022 Faculty Development Program taking place September 22-25, 2022, in Milwaukee, WI.

Application opens on March 7
https://www.aaaai.org/Professional-Education/careers-in-a-i/Faculty-Development-Program

“"I was blown away by how much quality advice the mentors gave to me after only a few short minutes of knowing me — this outside perspective was what I really needed to re-evaluate my career trajectory.”
Annual Meeting Lectureships

Extending the Reach of School-Based Asthma Care: Community Health Workers
Lecturer: Tyra Bryant-Stephens, MD
5220 National Heart, Lung, and Blood Institute (NHLBI): Innovation in School-Based Asthma Care
Convention Center, North Building, 100 Level, Room 120A, 12:35 pm

AAAAI Foundation and Robert F. Lemanske, Jr., MD
FAAAI Lectureship (2nd year)
Lecturer: Lynn Gerald, PhD MSPH
5220 National Heart, Lung, and Blood Institute (NHLBI): Innovation in School-Based Asthma Care
Convention Center, North Building, 100 Level, Room 120A, 1:15 pm

Monday, February 28

The Isil Berat Barlan Memorial Lectureship
Lecturer: Kirsi M. Jarvinen-Seppo, MD PhD FAAAAI
4101 An Ounce of Prevention
Convention Center, North Building, Lower Level, Hall 6, 8:50 am

AAAAI Lectureships

Friday, February 25

The Elliot F. Ellis Memorial Lectureship
Lecturer: Andrew H. Liu, MD FAAAAI
1601 Presidential Plenary: Digital Health and Remote Patient Monitoring for Patients with Difficult to Control Asthma
Convention Center, North Building, Lower Level, Hall 6, 2:20 pm

Saturday, February 26

The Robert G. Townley Memorial Lectureship
Lecturer: Barney S. Graham, MD PhD
2101 Preparing for the Next Pandemic: From Mechanisms to Vaccines
Convention Center, North Building, Lower Level, Hall 6, 8:20 am

Sunday, February 27

The Robert A. Cooke Memorial Lectureship
Lecturer: Robert Anthony, PhD
3101 Anaphylaxis: Novel Mechanisms and Emerging Therapeutic Interventions
Convention Center, North Building, Lower Level, Hall 6, 8:50 am

Monday, February 28

The Hugh A. Sampson Lectureship in Food Allergy
Lecturer: George Du Toit, MD FAAAAI
4101 An Ounce of Prevention
Convention Center, North Building, Lower Level, Hall 6, 8:20 am
The AAAAI Family of Journals

Leading the Way in Allergy / Immunology Research Since 1929

The American Academy of Allergy, Asthma & Immunology (AAAAI) is the leader in allergy/immunology research and is proud to publish three official journals featuring the latest scientific breakthroughs, allowing us to provide optimal care to our patients.

Introducing

The Journal of Allergy and Clinical Immunology: Global

A Gold Open Access Journal of the AAAAI

Respected worldwide, The Journal of Allergy and Clinical Immunology is the most cited journal in the field of allergy and clinical immunology, focusing on clinical medicine and basic science.

Covering the spectrum of diseases in allergy/immunology, The Journal of Allergy and Clinical Immunology: In Practice places an emphasis on practical clinical research and the latest recommendations for diagnosis and treatment.

The AAAAI is proud to debut The Journal of Allergy and Clinical Immunology: Global (JACI: Global) during the 2022 Annual Meeting. The Gold Open Access journal is the newest member of the AAAAI family of journals and provides members the opportunity to publish original research to a non-restricted global audience.

Visit the Journals Booth to learn more about the AAAAI family of journals and pick up your complimentary copies (Convention Center, North Building, Lower Level, Concourse).
5K Run/Walk

Just $50 to register!

SUNDAY, FEBRUARY 27, 2022

On-Site Registration and Music at starting line: 4:30 – 5:15 pm
Group Warm-Up: 5:15 pm
Race Start: 5:30 pm

Support: Allergy & Asthma Research

Visit the AAAAI Foundation Booth
Downtown PHOENIX Arizona

Proudly sponsored by Takeda
Better Health, Brighter Future
Awards

### AAAAI Allied Health Professionals Assembly Travel Scholarship Awards

**Awarded Amount: $750**

- Karen L. Braden, RN MS CPNP  
  University of Virginia  
  Early Age Peanut Oral Immunotherapy

- Kasturi Sarkar, BA  
  Arkansas Children’s Research Institute  
  The vDOT-EMOCHA Study

### Allied Health Abstract Travel Award Recipients

- Melissa L. Hearrell, FNP-C  
  Baylor College of Medicine  
  The Impact of the COVID-19 Pandemic on Food Allergy Families

- Elena Mederos Luis  
  Hospital Universitario de Canarias  
  Allergy to shellfish: a different clinical presentation depending on the sensitization group

- Inmaculada Sanchez-Machin, PhD  
  Hospital Universitario de Canarias  
  Electronic Consultations to Improve Access to Allergy Specialty in a Tertiary Healthcare Setting

- Kiela M. Samuels, PharmD  
  University of Michigan  
  Pitfalls and Progress: Overcoming Dispensing Challenges of Palforzia in an Academic Institution

- Jodi A. Shroba, MSN APRN CPNP  
  Children’s Mercy Hospital  
  Reintroduction of Food After a Negative Oral Food Challenge

### AAAAI/APFED Best Abstract on EGIDs Award

**The award is funded by APFED and provides $750.**

- Marc E. Rothenberg, MD PhD FAAAAI  
  Cincinnati Children’s Hospital Medical Center  
  “Dupilumab Improves Clinical and Histologic Aspects of Disease in Adult and Adolescent Patients with Eosinophilic Esophagitis at Week 24: Results from Part B of the 3-Part LIBERTY EoE TREET Study”

- Gencer Kurt, MD  
  Aarhus University Hospital  
  “Perinatal Factors Increase Risk of Eosinophilic Esophagitis – A Nationwide Case-Control Study”

### American Academy of Pediatrics Section on Allergy and Immunology Pediatric Abstract Awards

#### FIT Award Recipients - $750

- Yih-Chieh Chen, MD  
  Brigham and Women’s Hospital  
  “Maternal Prenatal Inflammation Is Associated With Offspring Childhood Asthma”

- Matthew J. Kan  
  University of California, San Francisco  
  “T cell receptor diversity as a biomarker for immune reconstitution after bone marrow transplantation for Severe Combined Immunodeficiency”

- Laura A. Wang, MD  
  University of Colorado  
  “Outcomes of Infants Born to Group B Streptococcus-Positive Mothers with a Reported Penicillin Allergy”

#### Junior Faculty Recipients - $1000

- Lyndsey M. Muehling, PhD  
  University of Virginia  
  “Unsupervised Cluster Analysis of Nasal Cytokines During RV Infection Identifies Distinct Immunophenotypes in Both Children and Adults with Allergic Asthma”

- Michael G. Sherenian, MD  
  Cincinnati Children’s Hospital Medical Center  
  “Thrombin and Fibrinogen Play a Critical Role in Atopic Dermatitis Pathogenesis”

### AAAAI Interest-Section Fellow-in-Training (FIT) Abstract Award Recipients

#### Anaphylaxis, Dermatology and Drug Allergy (ADDA)

- Monica Hajirawala, MD  
  Tulane University  
  “Risk Associated with Common Procedures Performed in a Referral Allergy Clinic”

#### Asthma Diagnosis and Treatment Interest Section (ADT)

- Caitlin Murphy, MD  
  University of Wisconsin-Madison  
  “Early Life Risk Factors for Lung Function During Childhood & Adolescence”

#### Basic and Clinical Immunology (BCI)

- Sara M. Ghanam, MD  
  Cleveland Clinic Foundation  
  “COVID Antibody Production Following Vaccination in Immunocompromised Subjects-A Quality Improvement Project”

#### Environmental and Occupational Respiratory Diseases (EORD)

- Andrew D. McKernan, MD  
  Tulane University  
  “Aeroallergen Sensitization Patterns In The New Orleans Area”

#### Food Allergy & Eosinophilic Disorders (FAED)

- Simin Zhang, MD  
  University of Cincinnati  
  “A connection found between mast cells and pain in eosinophilic esophagitis”

#### Health Outcomes, Education, Delivery and Quality (HEDQ)

- Evelyn Konsur, MD  
  Rush University  
  “African American Chronic Rhinosinusitis Patients Have Worse Outcomes Compared to Whites After Treatment”

#### Immunotherapy, Rhinitis, Sinusitis and Ocular Diseases (IRSO)

- Margaret S. Kim, MD  
  Northwestern University of Feinberg School of Medicine  
  “The Presence of Chronic rhinosinusitis (CRS) is Associated with Increased Healthcare Utilization in Patients with Asthma and Bronchiectasis (BE)”
Mechanisms of Asthma and Allergic Inflammation (MAAI)
Andrea Sitek
Mayo Clinic School of Graduate Medical Education
“Tmem178 Inhibits Allergic Inflammation In a Murine Model of Asthma”

2022 International Travel Scholarships
The following international in-training members have been awarded International Travel Scholarships to attend the Annual Meeting. The 2022 International Travel Scholarships are funded by the AAAAI and selected by an ad hoc panel of international fellows.

Europe
Taras Baranovskyi, MD
Shupyk National Medical Academy of Postgraduate Education
Hadeil Morsi, MBBS MRCP MSc
Oxford University Hospitals

2022 Medical Student and Resident Travel Scholarships
The Medical Student and Resident Scholarships are open to medical students and residents in the United States and Canada.

Funded by the AAAAI.

Anisha Arora, MD
Arundhati Chandini Arjun, MD
Jamie Chen
Brian T. Cheng
Anandu Dileep, DO
Dore Dorzia, MD
David Doud, DO
Charlene M. Dunaway Altamirano, MD
Sabine Eid, MD
Alexander G. Emerson, MD
Jenna Essink, MD
Carly A. Gunderson, MD
Abraham K. Halik, MD
Alexandra Hua, MD
Sundus Imran, MBBS
Simranjit Kaur, MD
Anne Kim
Rebecca Koenigsberg, DO
Leore C. Lavin
Madison Le Gallee
Jane Liao, MD
Nayna Maini, MD
Fatema Mollah, MD
Chloe Opper, MD
Baraa Osman, DO
Bianca Patel, DO
Priya K. Patel, MD
Adam M. Pearlstein, DO
Connor Prosty
Srushti Raja, DO
Justin Rashtian, MD
Rahul Revan, MD
Shusmita Roy
Theresa M. Sanborn
Angela Sarkisian
Ami Shah, MD
Heema Shah, DO
Ruchi J. Shah, MD
Elia Stein
Carolyn Strauch
Lindsey A. Taylor
Sean Tully, DO
Kevin K. Wang, DO
William C. Wesson
Jason Wong, MD
Katelyn Wong, MD
Melanie M. Wong
Shira Yellin
Irene H. Yuan, MD
Elena Zidan, MD

2022 Domestic Fellow-in-Training Travel Scholarships
The FIT Travel Scholarships are open to fellows-in-training in the United States and Canada.

Funded by the AAAAI

Edsel M. Abud, MD PhD
Utlucaen Acar, MD, MMSc
Farzad Adib, MD
Tonia S. Afshan, MD MPH
Terrie S. Ahn, MD
Oze Nur Aktas, MD
Omar Almatrafi, MD MPH
Nouf Alsaati, MBBS MMSc
Aymen Aouthmany, MD
Sowmya Arja, MD
Claire E. Atkinson, MD
Seemaal Awad, MD
Alexander O. Babazadeh, MD
Justin Babbel, DO
Abhilasha Banerjee, MD
Tina M. Banzon, MD
Suzanne M. Barshow, MD
Jaspreet K. Benipal, DO
Joshua S. Bernstein, MD
Anand Bhat, MD
Sundus Bhatti, MD
Brittany Bindon, MD
Lisa Biswas, MD
Jenyfeer Blanco, MD
Kesler J. Bourgoyne, MD
Christopher D. Brooks, MD
Joshua Brownell, MD
Rebekah L. Browning, MD PhD
Caftinl M. Burk, MD
Jason A. Cascio, MD PhD
Chongjia Chen, MD
Yih-Chieh Chen, MD
Stanley H. Cheng, DO
Diana Chernikova, MD PhD
Nicole Christians, MD
Stacey R. Chu, MD
Ashley Ciliberti, MD
Christian M. Coletta, MD
Kristen Corey, MD
Kimberley L. Cousins, MD
Tyrone Coyle, MD
Avram Derrow, MD
Jaspreet Dhani, MD
Nicole M. Diaz-Ramos, MD
Daniel V. DiGiacomo, MD
Michelle Dillely, MD
Alexa Doss, MD
Sofia E. Edwards-Salmon, MD
Ryan C. Eid, MD
Ahmed Elisa, MD
Sara S. Ellingwood, MD
Omar H. Elsayed-Ali, MD
Ejiofor Ezekwe, Jr., MD PhD
Alick Feng, MD
Jenika Ferretti-Gallon, MD
Maria A. Forero Molina, MD
David Frankel, MD
Stanislaw Gabryszewski, MD PhD
Sara M. Ghannam, MD
Jordan A. Goldman, MD
Lilian Gonzalez, MD
Brian Goodman, MD
Lauren M. Gunderman, MD
Rebecca Hale, MD PhD
Geoffrey F. Hall, DO
Walaat Hamadi, MD
Kauor Harada, MD
Stella Hartono, MD PhD
Marisa Hodges, MD
Chih-Hsin Hsu, MD
George X. Huang, MD
Donya S. Imanirad, MD
Rim Ishak, MD
Alyssa E. James, MD
Jenna Jung, MD
Simran Jutla, MD
Elizaveta Kaldaidina, MD
Lauren Kaminsky, MD PhD
Awards

2022 Domestic Fellow-in-Training Travel Scholarships (continued)

Navkirandeep Kaur, DO
Levi J. Keller, MD
Susamita Kesh, MD
Zeeshan Khakwani, MD
Muhammad B. Khalid, MD
Najeeb Khan, MD
Shivani Khanna, MD
Margaret S. Kim, MD
So Lim Kim, MD
Darya Koenig, MD
Grace Koo, MD
Mansi Kothari, MD
Mansi Kotwal, MD
Matthew S. Krantz, MD
Stephanie A. Kubala, MD
Carolyn Kwiat, MD MPH
Veronica Kwiatkowski, MD
Brenna LaBere, MD
Abigail Lang, MD
Valerie H. Le, MD
Kelsey M. Lecerf, MD
Jenny J. Lee, MD
Kevin KD Lee, MD
Michael C. Lee, DO
Shun Chi Ryan Lo, MD
Sarah K. Lohrenz, MD
Chad Lomas, MD
Michell M. Lozano Chinga, MD
Aimee Magnarelli, DO
Mariam Majzoub, MD
Thomas A. Makin, MD
Vikram B. Malik, MD
Nurbek Mambetsariev, MD PhD
Giulia M. Martone, MD
Sonja Mathew, MD
Laura E. Maurer, MD
Matthew R. McCulloch, MD
Amanda McIntyre, MD
Annamaria G. Mechtler, MD
Geneva Mehta, MD
Melissa Mendoza Suyo, MD
Pavle S. Milutinovic, MD PhD
Christelle Miot, MD
Mitchell Pittick, MD
Sunjay Modi, MD
Asha Mohammed, MD
Paula M. Mohy, MD
Rehan Mujahid, DO
Joytsna Mullur, MD
Caitlin Murphy, MD
Aishwarya Navaipakam, MD
Safia F. Nawaz, MD
Hannah N. Neuhaus, MD
Michael Z. Nevid, MD
Cindy M. Nguyen, MD
Kim Nguyen, MD
Mengwei Ni, MD
Matthew R. Norris, MD
Maxwell Norris, MD
Sebastian Ochoa Gonzalez, MD
Jennifer Ohtola, MD
Gilbert Ortega, MD
Farheen Osman, MD
Shalin Pandya, MD
Hyun J. Park, MD PhD
Gaytri Patel, MD
Jaimin H. Patel, DO
Naiya Patel, MD
Sana Patel, MD
Jodan A. Pathinathan, MD
Sara S. Patrawala, MD
Alexander Patterson, MD
Jordan D. Pitt, MD
Jessica H. Plager, MD
Adam S. Price, MD
Pooja Purswani, MD
Lourdes G. Ramirez, MD
Courtney Ramos, DO
Prudhvi Regula, MD
Whitney Reid, MD
Lauren Rigg, MD
Shaunah S. Ritter, DO
Syed M. Rizvi, MD
Jake Rosenblum, DO
Karina Rotella, MD
Cheryl P. Rozario, DO
Carlos A. Salgado, MD
David A. Sanchez, MD
Amandeep Sandhu, MD
Sumeet Sandhu, MD
Ashley Sandoval, MD
Sandee Sarkaria, MD
Nicholas Scanlon, MD
Stephen A. Schworer, MD PhD
Sybelle M. Serrano-Santiago, MD
Mara N. Shapero, MD
Pragya Shrestha, MD
Abeer Siddiqi, MD
Sean Stout, MD
Jing Yi Sun, MD
Ragha V. Suresh, MD
Sebastian Sylvestre, MD
Slipa T. Taunk, MD
Priyanka Timothy, MD
Paulina Tran, DO
Chioma Udembga, MD
Dayne H. Voelker, MD
Ban Wang, MD
Laura Ann Wang, MD
Ziwei Wang, MD
Aaron Westreich, MD
Jo Leanna Wilson, MD
Andrew Winslow, MD
Nicole L. Wolfset, MD
Alex Wonnaparinhom, MD
Wonhee Woo, MD
Richard Wu, MD
Susan S. Xie, MD
Barbara Yang, MD
Fernanda D. Young, MD
Saira Q. Zafar, MD
Soomboal Zahid, DO
Shouling Zhang, MD
Simin Zhang, MD
Hannie Zomer Bulanos, MD

2022 PhD Travel Scholarships

The PhD Travel Scholarships are open to non-faculty PhD post-doctoral fellows and PhD students/candidates working on A/I related topics with an affiliated A/I program in the United States or Canada.

Farida Abi Farraj, MD
Mohammad Asad, PhD
Yadavalli Chandra Sekhar, PhD
Michelle Chu
Casey G. Cohen
Arya Dahal
Roxanne Dupuis
Jea Young Lee, PhD
Anish R. Maskey
Mary C. Moran
Kieran J. Phelan
Rachael E. Rush
Esha Sehanobish, PhD
FNU Shakuntula, MD
Adam K. Wade-Vallance

2022 AAAAI/EAACI Reciprocal Travel Grants

Each year, AAAAI sponsors two EAACI junior members to attend the AAAAI Annual Meeting, and in turn, EAACI sponsors two AAAAI fellows-in-training to attend the EAACI Congress.

Mattia Giovannini, MD
Anna Meyer Children’s University Hospital in Florence (Italy)
Beatriz Moya, MD
Food Allergy Interest Group (Spain)
Spending time researching patient conditions and treatments? 
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Earn MOC Part IV Self Assessment Credits

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Ready to report real-time adverse events related to compounding?
Interested in biologics research?

Stop by the Practice Management Hub to learn more how The AAAAI Registry can help!

Because Practice Matters! to the AAAAI
We are grateful for everyone who donated and fundraised for your Regions. In November alone, we raised over $35,000 from your contributions. Your support enables research that strengthens the A/I specialty and improves patient outcomes.

Congratulations to RSL-Region 5 (Mid-South) You were our Top Donors!

Reach out, Support & Lead for the AAAAI Foundation!

We are grateful for everyone who donated and fundraised for your Regions. In November alone, we raised over $35,000 from your contributions. Your support enables research that strengthens the A/I specialty and improves patient outcomes.

Thank you to everyone who made the 2021 RSL Challenge a success

Visit aaaaifoundation.org for more details

The 2021 RSL Challenge was proudly sponsored by
Continuing Education & Accreditation

Two types of continuing education credit will be available for participants in the 2022 AAAAI Annual Meeting: AMA PRA Category 1 CME Credits™ for physicians and Continuing Education (CE) contact hours for nurses. Not all Annual Meeting sessions may offer credit, and of those that do, not all may offer both CME and CE.

Credit Claiming: Continuing education credits and attendance certificates can be claimed online beginning Thursday, February 24, 2022 using the link provided on the Annual Meeting website. Credit claiming will be available through December 31, 2022.

Physicians – Continuing Medical Education (CME) Credits

Accreditation Statement
The American Academy of Allergy, Asthma and Immunology (AAAAI) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation
The AAAAI designates this Other activity (combination of live activity and recorded online content) for a maximum of 290.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Medical Association has determined that physicians not licensed in the U.S. who participate in this CME activity are eligible for AMA PRA Category 1 Credits™.

Target Audience
The AAAAI Annual Meeting is designed for clinicians, researchers, trainees/students and allied health professionals involved and/or interested in the study of allergy, asthma and immunology.

Program Objective
Upon completion of the AAAAI Annual Meeting, participants should be able to discuss the latest advances in the research, diagnosis and treatment of allergic and immunologic disease. Please refer to the individual session descriptions in this program for session-specific learning objectives.

ABAI – Continuing Medical Education (CME) Credits

The American Board of Allergy and Immunology (ABAI) requires diplomates to attest to obtaining 25 AMA PRA Category 1 CME Credits™ in allergy/immunology each year. AAAAI reports all CME credits it issues to physician learners to the ABAI on a quarterly basis, to be posted in learners’ diplomate portals. For more information about credit requirements for ABAI Maintenance of Certification visit the ABAI website at https://abai.org/cme.asp.

Allied Health – Continuing Education (CE) Credits

Nurses – Continuing Education (CE) Contact Hours
The American Academy of Allergy, Asthma & Immunology (AAAAI) is a Provider, approved by the California Board of Registered Nursing, Provider #10704, for up to 290.25 Contact Hours.

Medical Administrators
Practice administrators who attend the 2022 AAAAI Annual Meeting may apply for credit through the American College of Medical Practice Executives (ACMPE). For additional information, please contact the Medical Group Management Association at www.mgma.com.

Advanced Practitioners
The AAPA, ANCC and AANP accept reports from advanced practitioners of their participation in activities offering AMA PRA Category 1 Credits™ for continuing education and credentialing purposes. For more information, please contact the appropriate organization.

Pharmacists
Pharmacists are encouraged to contact their state boards of pharmacy to determine if reports of participation in the 2022 AAAAI Annual Meeting are accepted for relicensure.

Registered Dietitians
The Commission on Dietetic Registration accepts reports from registered dietitians of their participation in activities offering AMA PRA Category 1 Credits™ for continuing education and credentialing purposes. Contact the CDR for details on how to report completion of these activities.

Target Audience
Health care professionals who assist with and provide care to persons with asthma, allergic and immunologic diseases, specifically: RNs, LPNs, nurse practitioners, physician assistants, respiratory therapists, medical technologists, medical assistants, clinical research coordinators, and practice managers/administrators.

Learning Objectives
Upon completion of the AAAAI Annual Meeting, participants should be able to discuss and expand upon the latest advances in medications, equipment and procedures necessary to promote health for their patients; describe and discuss new therapies, information, patient care and education in the field of allergy, asthma and immunology; identify new approaches to clinical research which will improve efficiency and effectiveness; and discuss coding and other administrative aspects of a medical practice. Please refer to the individual session descriptions in this program for session-specific learning objectives.
Introduction to Session Tracks

Sessions Tracked by Topic
To help you navigate the 225+ sessions in the Annual Meeting program, the index on the following pages lists all of the education sessions by topic. The topic categories include:

- Allergens/Allergy Testing/Allergy Therapeutics
- Allergic and Immunologic Skin Diseases
- Allergy Office Practice
- Anaphylaxis/Urticaria/Angioedema
- Asthma
- Autoimmune/Autoinflammatory Disorders
- Drug/Insect Allergy/Vaccines
- Food Allergy
- Immune Mechanisms
- Immunodeficiency
- Lung Diseases Other than Asthma
- Mast Cell/Eosinophilic Disorders
- Research Principles
- Rhinosinusitis/Ocular Allergy
- Training and Career Development

These categories are included in the session descriptions in the Online Program as well. Use this index to tailor your Annual Meeting agenda to best meet your learning needs and answer your questions about your practice.

Claim your 2021 Virtual Annual Meeting Credits!

There is still time to claim your 2021 Virtual Annual Meeting Credits. Continuing education credits and attendance certificates can be claimed online through March 1, 2022.

Claim credits now!
## Introduction to Session Tracks

### Allergens/Allergy Testing/Allergy Therapeutics

**Thursday, February 24, 2022**

- **0001** 36th Annual Harold S. Nelson Military Allergy/Immunology Symposium
- **0201** Basic Aeroallergen Course

**Friday, February 25, 2022**

- **1205** Diagnostics in Allergy & Immunology: An Update
- **1806** Controversial Topics in Allergen Immunotherapy: Dose Adjustment Strategies after Gaps in Therapy, Severe Asthma, Waiting Times and Epinephrine Autoinjectors

**Saturday, February 26, 2022**

- **2005** Diagnostics in Cannabis Allergy
- **2101** Preparing for the Next Pandemic: From Mechanisms to Vaccines
- **2307** Allergen Immunotherapy (AIT): New Forms and New Data on Old Variants
- **2522** National Institute of Environmental Health Sciences (NIEHS): Molecular Characterization of Allergens and Specific IgE Antibodies
- **2553** Patients with Severe Asthma Should Be Permitted to Receive Allergen Immunotherapy
- **2809** Subcutaneous Immunotherapy: Cross-Reactivity, Extract Stability and Optimum Dosing
- **2811** Allergic Disease Triggered by Cannabis Production and Consumption

**Sunday, February 27, 2022**

- **3001** Air Sampling and Analysis: Current Approaches and Future Developments
- **3704** EORD: Impact of Climate Change on Pollen, Mold and Susceptibility to COVID-19 Infection

### Allergic and Immunologic Skin Diseases

**Friday, February 25, 2022**

- **1510** Practical Issues of Managing a Patient with Allergic Skin Diseases on Biologics

**Saturday, February 26, 2022**

- **2022** Allied Health: Refractive Urticaria: When Antihistamines Don’t Work
- **2521** National Institute of Allergy and Infectious Diseases (NIAID): New Insights Into the Immunoregulation of Atopic Dermatitis

**Sunday, February 27, 2022**

- **3011** Contact Dermatitis Through the Ages: Infants to Seniors
- **3302** A New Age of Allergic Skin Diseases

### Allergy Office Practice

**Friday, February 25, 2022**

- **1101** Allied Health: Using a Team Approach to Allergy/Immunology Care: A Collaborative Model Using Medical Doctors, Advanced Practice Nurses, Registered Nurses, Physician Assistants and Medical Assistants
- **1206** The Clinical Utility of Pollen and Mold Counts in the Allergy Office
- **1208** Expanding Your Practice: Clinical, Administrative and Reimbursement Strategies for Success
- **1209** Engaging Your Learners at the Annual Meeting with Innovative Approaches
- **1505** The Role of the Practicing Allergist in the Management of Eosinophilic Esophagitis
- **1521** The Journal of Allergy and Clinical Immunology (JACI): In Practice Year-in-Review Workshop
- **1526** How and Why to Engage Your Practice with the AAAAI Registry
- **1527** Negotiating Work-Life Integration

**Monday, February 28, 2022**

- **4006** Carbohydrate Epitopes as Targets for Immunoglobulin E (IgE) Antibodies: New Developments the Allergist Should Know
- **4703** Best Clinical Practices for Allergen Immunotherapy
- **4712** Component Resolved Diagnostics in Pet Allergies

### Pre-Recorded Sessions

- **5125** Personalized Medicine and Rhinitis
- **5126** Allergen Diagnostics: Component Testing for Respiratory Allergens
- **5127** Diagnosis in Allergic Respiratory Diseases: Beyond Detection of Immunoglobulin E (IgE)
- **5134** Allied Health: Research Studies and Oral Immunotherapy (OIT): One Size Does Not Fit All
- **5144** COVID-19 and Allergen Immunotherapy
- **5209** Dynamic Interactions of Pollen and the Environment with Allergic and Respiratory Disease

- **2305** Rethinking How We Manage Asthma and Allergic Diseases Post-Pandemic
- **2803** Embracing the Continuous Assessment Program (CAP) Together as a Team: Diplomates, ABAI and AAAAI

**Sunday, February 27, 2022**

- **3706** HEDQ: What the Allergist/Immunologist Needs to Know About Health Disparities
Monday, February 28, 2022

4307  Shared Decision Making (SDM): Recent Advances for Allergy/Immunology Patients

Pre-Recorded Sessions

5004  Workforce Challenges in Allergy/Immunology
5118  Joint Task Force on Practice Parameters (JTFPP) Guidelines: Practice Parameters, Guidelines, and Updates
5123  Evolving Choosing Wisely: Identifying Vulnerabilities in Allergy/Immunology Care
5210  How an Engaging Allergy/Immunology Elective Grows Your Practice and Our Specialty
5217  Allied Health: Navigating Access to Biologics: Medical Benefit, Pharmacy Benefit and Copay Assistance
5218  Allied Health: Telemedicine Tips for Advanced Practice Providers

Anaphylaxis/Urticaria/Angioedema

Friday, February 25, 2022

1201  2022 Difficult Cases
1202  From Acute to Chronic, the Many Faces of Urticaria
1522  Idiopathic Angioedema Without Urticaria: State of the Art Approach to Diagnosis and Management

Saturday, February 26, 2022

2001  Not All Anaphylaxis Is The Same: Failure to Recognize Atypical Anaphylaxis Presentation Is Common
2551  Evidence Indicates That Patients Taking Beta Blockers Are at Increased Risk for More Serious Anaphylaxis

Sunday, February 27, 2022

3101  Anaphylaxis: Novel Mechanisms and Emerging Therapeutic Interventions
3301  World Allergy Forum: Updates on Anaphylaxis from the World Allergy Organization (WAO), Mario Sánchez Borges Memorial Symposium
3501  Infant Anaphylaxis
3701  ADDA: Biphasic Anaphylaxis: Integrating Best Value Care with Patient Safety

Pre-Recorded Sessions

5103  “Is it Just Me or Does My Throat Feel Tight?”: Considering Mimickers of Anaphylaxis
5104  Defining and Managing Anaphylaxis in 2022
5142  Allied Health: Demystifying Epinephrine
5219  Update from the U.S. Food and Drug Administration

Asthma

Friday, February 25, 2022

1011  2022 FIT Symposium
1203  Lessons Learned from National Institutes of Health (NIH) Severe Asthma Networks on Evaluating and Managing Difficult to Control Asthma
1204  It All Matters: A Multi-Pronged Approach to Asthma Pathogenesis
1213  Allied Health: An Update on Allergic Conditions in 2021 for the Allied Health Provider
1250  Allied Health: Difficult Cases: What to Do When Nothing Works
1503  The Best Possible Care for Children with Severe Asthma
1504  Older Adults with Severe Asthma: Updates on Optimal Management
1523  Proteomic and Lipidomic Approaches to Understanding Asthma
1530  Severe Asthma Exacerbations: Consequences and Prevention
1601  Presidential Plenary: Digital Health and Remote Patient Monitoring for Patients with Difficult to Control Asthma
1802  School Based Asthma Management and COVID-19: Addressing Health Disparities
1803  Early Life Environmental Exposures Regulate Host Allergic Immune Responses: Lessons Learned from the Asthma and Allergic Diseases Cooperative Research Centers (AADCRCs) Birth Cohorts
1805  Innovative Digital Technologies for Asthma Management: Improving Patient Engagement and Care Delivery
1810  Allied Health Plenary: COVID-19 in 2022: Update for the Health Care Professional

Saturday, February 26, 2022

2002  Emerging and Existing Biomarkers in Asthma Diagnosis and Management
2007  Using Electronic Medication Monitors to Help Manage Asthma in Your Clinic
2301  European Academy of Allergy and Clinical Immunology (EAACI); Immune Modulation for Asthma
2302  Intersection of Genetics, Transcriptomics and Health Disparities in Severe Asthma
2312  Allied Health: Psychosocial Dynamics with Asthma: Challenges, Vulnerabilities, and Supports
2502  The Use of Integrative Medicine in the Treatment of Severe Asthma: A Problem-Based Learning (PBL) Case
2503  The Latest and Greatest 2019 Update to the American Thoracic Society (ATS)/European Respiratory Society (ERS) Standardization of Spirometry
2504  Management of Pediatric Asthma Exacerbations: From Clinic to Emergency Department (ED) and Beyond
2801  Hot Topics in Pediatric Allergy and Immunology
## Introduction to Session Tracks

### Sunday, February 27, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3003</td>
<td>Problem-Based Learning (PBL): The Importance of Digital Medicine in the Treatment of Severe Asthma/Asthma and Chronic Obstructive Pulmonary Disease (COPD)</td>
</tr>
<tr>
<td>3004</td>
<td>Characteristics and Management of Pediatric Severe Asthma: An Algorithmic Approach</td>
</tr>
<tr>
<td>3303</td>
<td>Uncovering the Links Between Toxic Stress and Asthma: Implications for Prevention, Disparities and Treatment</td>
</tr>
<tr>
<td>3308</td>
<td>Allied Health: Difficult to Control Asthma Across the Ages</td>
</tr>
<tr>
<td>3502</td>
<td>Telemedicine in Schools for Asthma and Allergy Care</td>
</tr>
<tr>
<td>3503</td>
<td>Contracting for Adherence: A Special Approach to Adolescents with Severe Asthma</td>
</tr>
<tr>
<td>3505</td>
<td>Asthma/Chronic Obstructive Pulmonary Disease (COPD) Overlap in the Workplace</td>
</tr>
<tr>
<td>3520</td>
<td>Asthma Educators Course for Preparation to Become a Certified Educator: Day One</td>
</tr>
<tr>
<td>3551</td>
<td>Home-Based Spirometry Is Ready for Prime Time</td>
</tr>
<tr>
<td>3552</td>
<td>Electronic Adherence Monitoring Improves Asthma Care</td>
</tr>
<tr>
<td>3702</td>
<td>ADT: The Role of the Maternal Diet During Pregnancy in Asthma and Allergy Prevention</td>
</tr>
<tr>
<td>3708</td>
<td>MAAI: The Idiosyncrasies of Severe Asthma Evidence from Cellular, Molecular and Genomic Studies</td>
</tr>
</tbody>
</table>

### Monday, February 28, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4005</td>
<td>The Smart Home Health and Fitness Revolution: Helping Patients Utilize Personal Health Technology</td>
</tr>
<tr>
<td>4008</td>
<td>Asthma Management in the Age of COVID-19</td>
</tr>
<tr>
<td>4020</td>
<td>Asthma Educators Course for Preparation to Become a Certified Educator: Day Two</td>
</tr>
<tr>
<td>4301</td>
<td>Schools and Difficult to Control Asthma</td>
</tr>
<tr>
<td>4302</td>
<td>The Evolving Impact of Respiratory Viruses on Asthma</td>
</tr>
<tr>
<td>4305</td>
<td>Mitigating the Allergen Exposures Causing Uncontrolled Pediatric Asthma</td>
</tr>
<tr>
<td>4308</td>
<td>Potential Untapped Targets in Severe Asthma</td>
</tr>
<tr>
<td>4701</td>
<td>Improving the Pediatric Asthma Visit: Tools for Obtaining a History, Correct Diagnosis and Treatment Plan</td>
</tr>
<tr>
<td>4702</td>
<td>Treatment Algorithms for Difficult to Control Asthma in Diverse Populations</td>
</tr>
<tr>
<td>4705</td>
<td>New Insights Into Work-Related Hazards</td>
</tr>
<tr>
<td>4711</td>
<td>Monoclonal Antibodies (MABS) for Kids: Picking the Right Biologic Therapy for Children with Severe Asthma</td>
</tr>
</tbody>
</table>

### Pre-Recorded Sessions

<table>
<thead>
<tr>
<th>Session Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>5001</td>
<td>Microbial Contribution to Asthma Pathogenesis</td>
</tr>
<tr>
<td>5003</td>
<td>Asthma: The Basics of Medical Education Strategies from Instructional Design to Disparities</td>
</tr>
<tr>
<td>5106</td>
<td>Are You What You Eat in Atopy and Autoimmunity?</td>
</tr>
<tr>
<td>5107</td>
<td>Beyond Short-Acting Bronchodilator (SABA): Next-Line and Adjunct Treatments for Exercise-Induced Bronchoconstriction (EIB)</td>
</tr>
<tr>
<td>5108</td>
<td>Managing Metabolic Dysfunction in Asthma: An Opportunity for Improvement</td>
</tr>
<tr>
<td>5109</td>
<td>Childhood Asthma: How Does It Begin? Can We Prevent It?</td>
</tr>
<tr>
<td>5110</td>
<td>Is Severe Asthma Management Different Across the Age Spectrum?</td>
</tr>
<tr>
<td>5111</td>
<td>Biologic Selection in Patients with Asthma, Allergic Rhinitis and Atopic Dermatitis</td>
</tr>
<tr>
<td>5116</td>
<td>Improving Adherence and Outcomes for the Difficult-to-Treat Asthma Patient</td>
</tr>
<tr>
<td>5119</td>
<td>Partnering with Federally Qualified Health Centers (FQHCs) to Advance Research, Education and Specialty Care in Allergy/Immunology for Underserved Patients with Uncontrolled Asthma</td>
</tr>
<tr>
<td>5120</td>
<td>Health Disparity and its Devastating Impact on Patients Who Have Combined Chronic Airways Disease: Chronic Rhinosinusitis (CRS) and Asthma</td>
</tr>
<tr>
<td>5135</td>
<td>Allied Health: Asthma and Obesity</td>
</tr>
<tr>
<td>5202</td>
<td>Asthma Exacerbations in Childhood: Risk Factors, Consequences, Causes and Ways to Alter Them</td>
</tr>
<tr>
<td>5203</td>
<td>Viral Vaccines for Asthma</td>
</tr>
<tr>
<td>5208</td>
<td>The Role of Fungi in Difficult to Control Asthma</td>
</tr>
<tr>
<td>5220</td>
<td>National Heart, Lung, and Blood Institute (NHLBI): Innovation in School-Based Asthma Care</td>
</tr>
<tr>
<td>5301</td>
<td>Treatment of Aspirin Exacerbated Respiratory Disease (AERD): Surgery and Aspirin (ASA) Desensitization Should Be the Standard of Care</td>
</tr>
</tbody>
</table>

### Autoimmune/Auto-inflammatory Disorders

### Monday, February 28, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4304</td>
<td>Autoinflammatory Syndromes: How and When to Do a Diagnostic Work Up and Current Treatment Options</td>
</tr>
</tbody>
</table>

### Pre-Recorded Sessions

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>5113</td>
<td>Immune Pathway Targeting with Biologics for the Treatment of Inflammatory Conditions</td>
</tr>
</tbody>
</table>
# Introduction to Session Tracks

## Drug/Insect Allergy/Vaccines

### Thursday, February 24, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102</td>
<td>Practical Workshops to Jumpstart Your Drug Allergy Assessments</td>
</tr>
</tbody>
</table>

### Friday, February 25, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1501</td>
<td>Practical Approach to Aspirin and Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) Challenges and Desensitizations for Patients with Aspirin-Exacerbated Respiratory Disease (AERD) and Other NSAID Allergies</td>
</tr>
<tr>
<td>1508</td>
<td>Biologics in Aspirin-Exacerbated Respiratory Disease (AERD)</td>
</tr>
<tr>
<td>1801</td>
<td>Practical Guidance for the Evaluation and Management of Drug Hypersensitivity</td>
</tr>
</tbody>
</table>

### Saturday, February 26, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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</thead>
<tbody>
<tr>
<td>2804</td>
<td>Developing a Chemotherapy and Biologics Desensitization Program</td>
</tr>
</tbody>
</table>

### Sunday, February 27, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>3305</td>
<td>Navigating Medical Mistrust in Communities of Color: How the Allergy/Immunology (A/I) Provider Can Help</td>
</tr>
</tbody>
</table>

## Pre-Recorded Sessions

### 5101 A Bench to Bedside View of Drug Hypersensitivity

### 5102 Stay Current with Drug Hypersensitivity

### 5105 What Does Anaphylaxis Look Like in Infants and Toddlers?

### 5133 Allied Health: The Challenges of Food Challenges: the Good, the Bad and the Ugly

### 5136 Allied Health: Food Insecurity in the Food Allergic Population

### 5137 Allied Health: Immunoglobulin E (IgE) or Not Immunoglobulin E (IgE): This is the Dilemma - Emerging Food Allergies

### 5140 Allied Health: Let the Babies Eat! How Healthcare Professionals Can Motivate Parents to Prevent Food Allergies

### 5141 Allied Health: Oral Immunotherapy to Foods: It Takes a Village

### 5302 Oral Food Challenges in Infants Are Necessary

## Food Allergy

### Friday, February 25, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1207</td>
<td>Ethnic and Racial Differences in Food Allergy</td>
</tr>
<tr>
<td>1506</td>
<td>Food Allergen Advisory Labels: Avoid or Ignore?</td>
</tr>
<tr>
<td>1528</td>
<td>Food Allergy Quality of Life: Multiple Levels of Analysis for Better Understanding and Care</td>
</tr>
<tr>
<td>1804</td>
<td>New Connections in Sensitization and Tolerance</td>
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### Saturday, February 26, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>Love at First Bite: Prevention of Food Allergy in Infants Through Early Introduction</td>
</tr>
<tr>
<td>2021</td>
<td>Allied Health: Psychosocial Well-Being: Living with Food Allergies</td>
</tr>
<tr>
<td>2304</td>
<td>Novel Therapies in Food Allergy</td>
</tr>
<tr>
<td>2313</td>
<td>Allied Health: Practical Challenges of Eating Potential Food Allergens: Important Nuggets to Chew on</td>
</tr>
<tr>
<td>2512</td>
<td>Successful Approaches to Eosinophilic Esophagitis (EoE): Long-Term Management Dilemmas</td>
</tr>
<tr>
<td>2807</td>
<td>Eosinophilic Gastrointestinal Diseases (EGIDs) Below the Esophagus: Emerging Data on Prevalence, Diagnosis and Treatment Advances</td>
</tr>
<tr>
<td>2808</td>
<td>Food Allergy on the Threshold</td>
</tr>
</tbody>
</table>
## Introduction to Session Tracks

### Sunday, February 27, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3306</td>
<td>Insights Into Th2 Regulation, B Cells, and Antibody Secretion Cells in Inflammation: Research From the 2019 AAAAI Foundation Faculty Development Awardees</td>
</tr>
<tr>
<td>3307</td>
<td>Regulation and Function of T Cells in Allergic Diseases</td>
</tr>
<tr>
<td>3510</td>
<td>Mast Cells: Living Many Different Lives</td>
</tr>
<tr>
<td>3553</td>
<td>Sensitization to Environmental Peanut Can Occur Through the Respiratory Tract</td>
</tr>
</tbody>
</table>

### Monday, February 28, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4704</td>
<td>Contributions of Eosinophils to Health and Allergy</td>
</tr>
</tbody>
</table>

### Pre-Recorded Sessions

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>5132</td>
<td>Human Group 2 Innate Lymphoid Cells (ILC2s): Rapidly Moving into Clinical Relevance</td>
</tr>
<tr>
<td>5211</td>
<td>AllergoOncology: The Link Between Immunology, Allergy and Oncology</td>
</tr>
<tr>
<td>5213</td>
<td>New Insights into the Immune Mechanisms of Severe Asthma</td>
</tr>
<tr>
<td>5214</td>
<td>Novel Aspects of Airway Inflammation in Response to Environmental Challenges</td>
</tr>
<tr>
<td>5215</td>
<td>Thinking Beyond Lymphocytes in Asthma: Platelets as Immune Cells</td>
</tr>
<tr>
<td>5216</td>
<td>The Origin and Fate of Immunoglobulin E (IgE)-Switched B Cells</td>
</tr>
</tbody>
</table>

### Immunodeficiency

#### Friday, February 25, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1102</td>
<td>Allied Health: Finding the Zebra: Understanding How to Diagnose an Immune Disorder</td>
</tr>
<tr>
<td>1502</td>
<td>Update on the Guidelines for Work-Up and Management of Patients with 22q11.2 Syndrome</td>
</tr>
<tr>
<td>1524</td>
<td>Genetic Testing 101</td>
</tr>
<tr>
<td>1531</td>
<td>Allied Health: Subcutaneous Immunoglobulin (SClg): A Therapy in Evolution</td>
</tr>
</tbody>
</table>

#### Saturday, February 26, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>2303</td>
<td>The Genetics of Primary Immunodeficiency Disorders</td>
</tr>
<tr>
<td>2501</td>
<td>Psychosocial Impact of Primary Immunodeficiency Disorders (PID) in Children: Implications for Treatment</td>
</tr>
<tr>
<td>2505</td>
<td>Recurrent Fever in the Pediatric Patient</td>
</tr>
<tr>
<td>2552</td>
<td>Genetic Testing for All: Putting the Cart Before the Horse?</td>
</tr>
</tbody>
</table>

#### Sunday, February 27, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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<tbody>
<tr>
<td>3005</td>
<td>Chronic Granulomatous Disease (CGD) in a New World</td>
</tr>
<tr>
<td>3010</td>
<td>What to Do with an Abnormal Newborn Screen</td>
</tr>
<tr>
<td>3703</td>
<td>BCI: Prevention and Treatment of COVID-19 in Patients with Primary Immune Deficiency Disease (PIDD)</td>
</tr>
</tbody>
</table>

### Pre-Recorded Sessions

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>5114</td>
<td>The Role of the Immune System in Severe COVID-19 Infections</td>
</tr>
<tr>
<td>5115</td>
<td>Hot New Defects in Clinical Immunology</td>
</tr>
<tr>
<td>5204</td>
<td>The Know-How of Immunoglobulin Replacement Therapy and Management</td>
</tr>
<tr>
<td>5205</td>
<td>Antibody Deficiency Syndromes and Lung Disease</td>
</tr>
<tr>
<td>5206</td>
<td>Diagnosis and Management of Secondary Hypogammaglobulinemia</td>
</tr>
</tbody>
</table>

### Lung Diseases other than Asthma

#### Friday, February 25, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1251</td>
<td>Allied Health: The Impact of the Vaping Epidemic on Teens and Young Adults with Asthma</td>
</tr>
</tbody>
</table>

#### Saturday, February 26, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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</thead>
<tbody>
<tr>
<td>2511</td>
<td>COVID-19 Associated Pulmonary Aspergillosis</td>
</tr>
<tr>
<td>2805</td>
<td>Problem Based Learning (PBL) Case: An Adult with Severe Uncontrolled Asthma or Is It Asthma/Chronic Obstructive Pulmonary Disease (COPD) Overlap (ACO)?</td>
</tr>
</tbody>
</table>

#### Sunday, February 27, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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</thead>
<tbody>
<tr>
<td>3304</td>
<td>Mechanisms of Environmental Biohazard Influencers of Allergic Respiratory Disease</td>
</tr>
<tr>
<td>3504</td>
<td>Diagnosis and Treatment of Multisystem Inflammatory Syndrome (MIS-C) in Children</td>
</tr>
</tbody>
</table>

### Mast Cell/Eosinophilic Disorders

#### Thursday, February 24, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>0101</td>
<td>Breakthroughs in Understanding and Treating Eosinophilic Gastrointestinal Diseases (EGID): Organized by CEGIR and TIGERS</td>
</tr>
</tbody>
</table>

#### Friday, February 25, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1807</td>
<td>Novel Discoveries in Mast Cell Biology</td>
</tr>
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#### Saturday, February 26, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>2509</td>
<td>What Have We Learned from Human Eosinophil ‘Knockouts’?</td>
</tr>
<tr>
<td>2510</td>
<td>Before You Call It Mast Cell Activation Syndrome (MCAS): Crucial Steps in Making the Right Diagnosis</td>
</tr>
</tbody>
</table>
# Introduction to Session Tracks

### Sunday, February 27, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3009</td>
<td>Heterogeneity of Eosinophils: Treatment and Management Strategies</td>
</tr>
</tbody>
</table>

### Pre-Recorded Sessions

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>5212</td>
<td>Beyond Immunoglobulin E (IgE): Reconsidering Mechanisms of Mast Cell Activation in Clinical Allergy</td>
</tr>
</tbody>
</table>

### Research Principles

### Friday, February 25, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1212</td>
<td>How to Survive as an Academic Translational Scientist Pursuing Asthma/Allergy/Immunology Research in the Current Funding Environment</td>
</tr>
<tr>
<td>1507</td>
<td>Insights into Obtaining Grants Offered by the AAAAI Grants Committee</td>
</tr>
</tbody>
</table>

### Saturday, February 26, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>Recent Advances in Animal Models of Allergic Disease</td>
</tr>
<tr>
<td>2306</td>
<td>Racism, Not Race as a Root Cause of Health Disparities</td>
</tr>
</tbody>
</table>

### Pre-Recorded Sessions

<table>
<thead>
<tr>
<th>Session Code</th>
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<tbody>
<tr>
<td>5117</td>
<td>Harnessing Available Data in Answering Important Questions About Allergic/Immunologic Diseases</td>
</tr>
<tr>
<td>5124</td>
<td>Structural Racism and COVID-19: Lessons Learned About Achieving Racial Equity in Research, Vaccine Uptake and Asthma</td>
</tr>
<tr>
<td>5139</td>
<td>Allied Health: You Down with Regulatory, Yeah You Know Me</td>
</tr>
</tbody>
</table>

### Rhinosinusitis/Ocular Allergy

### Friday, February 25, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1210</td>
<td>Introductory Rhinolaryngoscopy Course with Hands-On Learning</td>
</tr>
<tr>
<td>1529</td>
<td>Nasal and Sinus Anatomical Anomalies and Reading Sinus Computed Tomography (CT) Scans: What an Allergist Should Know</td>
</tr>
<tr>
<td>1808</td>
<td>Fungal Diseases of the Respiratory Tract: From Bench to Bedside</td>
</tr>
</tbody>
</table>

### Saturday, February 26, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>When Should Endoscopic Sinus Surgery Be Considered for Chronic Rhinosinusitis Patients?</td>
</tr>
<tr>
<td>2802</td>
<td>The Journal of Allergy and Clinical Immunology (JACI) Year-in-Review Workshop</td>
</tr>
</tbody>
</table>

### Sunday, February 27, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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</thead>
<tbody>
<tr>
<td>3002</td>
<td>Aspirin Challenges and Desensitizations for Asthma Control in Aspirin Exacerbated Respiratory Disease (AERD)</td>
</tr>
<tr>
<td>3508</td>
<td>The Unified Airway Disease Hypothesis in Clinical Practice</td>
</tr>
<tr>
<td>3707</td>
<td>IRSO: Rhinitis and Rhinosinusitis: The Role of Type 2 Immune Regulation in COVID-19 Pathogenesis</td>
</tr>
</tbody>
</table>

### Monday, February 28, 2022

### Pre-Recorded Sessions

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>5121</td>
<td>COVID-19 and its Link to Upper Airway Inflammation</td>
</tr>
<tr>
<td>5122</td>
<td>Refractory Asthma: Can They Smell the Roses?</td>
</tr>
<tr>
<td>5128</td>
<td>Non-Surgical Treatment for Chronic Rhinosinusitis with Nasal Polyps (CRSwNP)</td>
</tr>
<tr>
<td>5129</td>
<td>Updates from the Bench: Novel Insights into The Pathophysiology of Chronic Rhinosinusitis (CRS) and Potential Applications for Clinical Therapies</td>
</tr>
<tr>
<td>5130</td>
<td>Endotypes and Phenotypic Implications of Chronic Rhinosinusitis (CRS)</td>
</tr>
<tr>
<td>5131</td>
<td>Multidisciplinary Approach to the Management of Chronic Rhinosinusitis</td>
</tr>
<tr>
<td>5143</td>
<td>Recent Advancements in the Mechanisms of Chronic Rhinosinusitis (CRS)</td>
</tr>
<tr>
<td>5303</td>
<td>Eosinophils Are Important in Chronic Rhinosinusitis Pathogenesis</td>
</tr>
</tbody>
</table>

### Training and Career Development

### Thursday, February 24, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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</thead>
<tbody>
<tr>
<td>0601</td>
<td>2022 ABAI Continuous Assessment Program Literature Review Course</td>
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### Friday, February 25, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>1012</td>
<td>2022 Chrysalis Project Program (Invitation Only)</td>
</tr>
<tr>
<td>1110</td>
<td>Developing and Maintaining Excellence in Allergy/Immunology Fellowship</td>
</tr>
</tbody>
</table>

### Saturday, February 26, 2022

<table>
<thead>
<tr>
<th>Session Code</th>
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</thead>
<tbody>
<tr>
<td>2405</td>
<td>Career Paths in Allergy and Immunology</td>
</tr>
<tr>
<td>2701</td>
<td>The Importance of Diversity in Academia and Team Performance</td>
</tr>
</tbody>
</table>
The AAAAI wishes to recognize and thank the many volunteers that make the National Allergy Bureau™ a success!

• 88 stations providing certified pollen and mold counts since 1993
• 3rd most popular page at aaaaai.org with over 8 million website visits in 2021
• Over 124,000 email alert subscribers
• 18-year data archive for researchers

Check local counts and learn more at pollen.aaaai.org

AAAAl.org – Your one-stop shop for allergy/immunology resources.

• Comprehensive Practice Management Resources
• Robust AAAAI Membership Area
• Searchable Libraries in English and Spanish
• Latest Allergy/Immunology Research
• Quality Clinical Data Registry With Specialty-Specific Measures
• AAAAI Advocacy Efforts Impacting Allergy/Immunology

AAAAl Website
Medical Editor
Andrew D. Moore, MD, FAAAAAI.
A podcast series featuring thought leaders from the world of allergy and immunology.

Hosted by AAAAI Social Media Medical Editor, David R. Stukus, MD, FAAAAI

Conversations from the World of Allergy is a podcast series from the American Academy of Allergy, Asthma & Immunology (AAAAI).

It is the easiest way for busy healthcare providers and the general public to keep updated on medical topics in the A/I specialty. Subscribe today to make sure you never miss an episode. CME offered for select episodes.

Available now on Apple Podcasts, Google Podcasts, Spotify and aaaai.org.
Thursday, February 24, 2022

Chrysalis Project Registration (Invite Only) 
6:00 to 7:00 pm  
Sheraton, Second Level, Maryvale A  
Registration restricted to selected participants of award program.

Friday, February 25, 2022

Course

1012 2022 Chrysalis Project Program (Invite Only)  
7:30 am to 1:45 pm  
Sheraton, Third Level, Phoenix C  
Pre-registration and ticket required. Attendance restricted to selected participants of award program. No fee. Continental breakfast and box lunch included.  
Credit: No CME/CE  
Moderators: Asriani M. Chiu, MD FAAAAI and Rebecca Saff, MD PhD FAAAAI

7:30 Breakfast
8:00 Welcome from Chrysalis Chairs  
Asriani M. Chiu, MD FAAAAI and Rebecca Saff, MD PhD FAAAAI
8:10 Welcome from the AAAAI President  
Giselle S. Mosnaim, MD MS FAAAAI
8:15 Immunodeficiency  
Kimberly A. Risma, MD PhD FAAAAI
8:45 Atopic Dermatitis  
Donald Y. M. Leung, MD PhD FAAAAI
9:15 Food Allergy  
A. Wesley Burks, MD FAAAAI
9:45 Break
9:55 Asthma  
Gurjit K. Khurana Hershey, MD PhD FAAAAI
10:25 Drug Allergy  
Kimberly G. Blumenthal, MD MSc FAAAAI
10:55 Break
11:05 Hot Topics Discussion Sessions  
Immune Deficiency  
Jocelyn Farmer, MD, PhD and Sara Barmettler, MD  
Food Allergy  
Sarita U. Patil, MD FAAAAI and Emily C. McGowan, MD PhD FAAAAI  
Drug Allergy (25 minutes)  
Kimberly G. Blumenthal, MD MSc FAAAAI and Cosby Stone Jr., MD MPH
12:25 Chrysalis Project Participant Class Photo
12:30 Lunch with FIT Mentors and Chrysalis Faculty

Saturday, February 26, 2022

Course

2405 Careers Paths in Allergy and Immunology  
12:00 to 1:45 pm  
Convention Center, North Building, 200 Level, Room 231A  
Pre-registration and ticket required. Attendance restricted to selected participants of the Chrysalis Project program. No fee. Box lunch included.  
Credit: 1.75 CME Credits  
Moderator: Rebecca Scherzer, MD FAAAAI
12:00 Lunch
12:15 Welcome/Intro  
Rebecca Scherzer, MD FAAAAI
12:25 Academia Clinical & Q/A  
Princess U. Ogbogu, MD FAAAAI
12:30 Academia Research & Q/A  
Nora A. Barrett, MD FAAAAI
12:35 Industry & Q/A  
Todd David Green, MD FAAAAI
12:40 Government & Q/A  
Kelly D. Stone, MD PhD FAAAAI
12:45 Private Practice & Q/A  
Adina Kay Knight, MD FAAAAI
12:50 Break-Out Q&A Session  
Academia Clinical: Princess U. Ogbogu, MD FAAAAI and Amy M. Scurlock, MD FAAAAI  
Academia Research: Nora A. Barrett, MD FAAAAI and Mitchell H. Grayson, MD FAAAAI  
Industry: Todd David Green, MD FAAAAI and Dorothy S. Cheung, MD FAAAAI  
Government: TBD  
Private Practice: Adina Kay Knight, MD FAAAAI and TBD
1:40 Summary  
Rebecca Scherzer, MD FAAAAI

Chrysalis Project Reception (Invite Only)  
6:00 to 7:00 pm Reception  
Sheraton, Fourth Level, Valley Overlook  
Private reception open to current Chrysalis participants, Chrysalis mentors, Chrysalis faculty, Chrysalis workgroup members, Program Directors Assembly and AAAAI Board of Directors. Prior RSVP required.
Friday, February 25, 2022

Course

1011  2022 FIT Symposium
7:00 am to 1:30 pm
Sheraton, Second Level, Valley of the Sun A-E
Pre-registration and ticket required. Attendance restricted to current allergy/immunology Fellows-in-Training only. No fee. Continental breakfast and box lunch included. This Session Will Use Audience Response Technology
Credit: No CME/CE
Moderator: Christine Panganiban, MD MS
7:00 Networking Breakfast
7:45 Welcome and Introduction
Christine Panganiban, MD MS
7:55 Networking Committees and Organizations
8:10 American Board of Allergy and Immunology (ABAI) Update
Michael R. Nelson, MD PhD FAAAAI
8:35 AAAAI President Welcome
Giselle S. Mosnaim, MD MS FAAAAI
8:45 Digital Health and Remote Patient Monitoring for Patients with Difficult-to-Control Asthma
Giselle S. Mosnaim, MD MS FAAAAI
9:25 Break
9:40 Delving Deep into Asthma, the Disease that Takes our Breath Away Case Based Practical Applications of the GINA Guidelines and NAEPP Guidelines in Pediatric vs Adult
Wanda Phipatanakul, MD MS FAAAAI and William W. Busse, MD FAAAAI
10:20 Atopic Dermatitis: Tips and Tricks to “Crack” Difficult Cases
Donald Y.M. Leung, MD PhD FAAAAI and Marc J Serota, MD
11:00 Break
11:15 Mast Cells Gone Crazy: Managing Mast Cell Disorders from Presentation to Treatment
Mariana C. Castells, MD PhD FAAAAI and Lawrence B. Schwartz, MD PhD FAAAAI
11:55 Let’s Get Real About Wellness
Theresa A. Bingemann, MD FAAAAI and Hemant P. Sharma, MD MHS FAAAAI
12:35 Networking Lunch
Upon completion of this session, participants should be able to review practical applications of GINA Guidelines and NAEPP Guidelines in asthmatic patients; review the pathophysiology of atopic dermatitis and discuss how to best manage severe atopic dermatitis; review how to manage mast cell disorders through discussing the work-up, diagnosis and treatment options; share statistical data regarding the burden of physician burnout; share research proven tools to promote wellness.

FIT Reception
5:00 to 6:00 pm
Sheraton, Fourth Level, Valley Overlook
Sponsored by DBV Technologies
Private reception open to current allergy/immunology Fellows-in-Training only.

Saturday, February 26, 2022

Workshop

2557 Interesting Case Workshop
12:30 to 1:45 pm
Convention Center, North Building, 100 Level, Room 121A
Credits: 1.25 CME/CE
Moderator: Canting Guo, MD
12:35 A Novel Homozygous Frameshift Mutation in FERMT3 Leads to Leukocyte Adhesion Deficiency Type 3
Nouf Alsaati, MBBS MMSc
12:45 Canakinumab-Associated COVID-19 Recovery and Resolving Inflammatory Bowel-Lung-Skin Disease in XL-CGD
Natalia S. Fernandez Davila, MD
12:55 An Atypical Case of Heiner Syndrome
Brian Goodman, MD
1:05 Complement Factor I Deficiency Causing Fulminant Inflammatory Meningoencephalitis
Whitney Reid, MD
1:15 Imatinib Use in Severe Bullous Cutaneous Mastocytosis Complicated by Recurrent Anaphylaxis
Ban Wang, MD

Sunday, February 27, 2022

Workshop

3557 Interesting Case Workshop
12:30 to 1:45 pm
Convention Center, North Building, 100 Level, Room 121A
Credits: 1.25 CME/CE
Moderator: Neema Izadi, MD MS
12:35 Aquagenic Urticaria Treated with Omalizumab
Kiera L. Brennan
12:45 Endogenous Autoimmune Progesterone Dermatitis: Successful Suppression and Desensitization
Tiffany Dharia, MD
12:55 Brachioradial Pruritus: Secondary Lesions and Itch Not Mediated by Histamine
Ragha V. Suresh, MD
1:05 A Rash for a Rash: Drug Induced Lupus with Isotretinoin
Joshua D. Eubanks, MD
1:15 Eczema Herpeticum, a Challenging Diagnosis in an Adult with Recurrent Shingles Outbreaks
Crystal K. Wu, MD
Assembly and Business Meetings

Program Directors Assembly (PDA) Forum and Networking Luncheon

Friday, February 25, 12:00 pm to 1:45 pm
Hyatt, First Floor, Regency Ballroom
12:00  Welcome and Program Directors Assembly Executive Committee Update
   David A. Khan, MD, FAAAAI
12:10  Assembly Networking Luncheon

Federation of RSLAAIS Assembly Forum, Business Meeting and Reception

Friday, February 25, 4:45 to 6:30 pm
Convention Center, North Building, 200 Level, Room 229A
Forum: Local and state societies: a roadmap to participation and advocacy
Jennifer Namazy, MD FAAAAI, Immediate Past President, Western Society of Allergy, Asthma, and Immunology
Andrea A. Pappalardo, MD FAAAAI, President, Illinois Society of Allergy, Asthma & Immunology, Chicago, IL
Margaret Redmond, MD, Ohio Allergy and Immunology Society
Emily L. Graham, RHIA CCS-PVP, Regulatory Affairs, Hart Health Strategies, Inc.
Moderator: A. Sean McKnight, MD FAAAAI, RSL Region 6 Governor

THE AAAAI FOUNDATION IS PLEASED TO ANNOUNCE THE RECIPIENTS OF OUR 2022 FACULTY DEVELOPMENT AWARDS:

Jessica W. Hui, MD
National Jewish Health
“The Role of Temperature on the Skin Barrier and the Development of Atopy”

Jocelyn Farmer, MD, PhD
Massachusetts General Hospital
“Define Immune Correlates of a Protective Response to SARS-CoV-2 Vaccine in Patients with Humoral Immunodeficiency”

Hsi-en (John) Ho, MD
Icahn School of Medicine at Mount Sinai
“Dissecting Differential Inflammatory Response to Microbial Translocation in Primary Antibody Deficiencies”

Sergio E. Chiarella, MD
The AAAAI Foundation & Donald YM Leung, MD, PhD, FAAAAI, Faculty Development Award.
Mayo Clinic – Division of Allergic Diseases
“Investigation of Tmem178 as a Novel Endogenous Inhibitory Pathway in Asthma”
Are you meeting quality reporting requirements in the MIPS program? You should be reporting on quality measures relevant to YOUR practice:

- Assessment of Asthma Control
- Documentation of Clinical Response to Allergen Immunotherapy within 1 Year
- Achievement of Projected Dose of Standardized Allergens in Patients on Immunotherapy for at least 1 Year
- Asthma Control: Minimal Important Difference Improvement
- Appropriate Removal or Confirmation of Penicillin Allergy

Make 2022 the year YOU get connected.

The AAAAI Quality Clinical Data Registry is the ONLY option for reporting Allergy/Immunology - specific measures in the MIPS program.

- Earn a bonus
- Complete Improvement Activity/Promoting Interoperability requirements
- Get ABAI Part IV MOC credits

The AAAAI Quality Clinical Data Registry is provided as a service to our members in conjunction with ArborMetrix

www.aaaai.org/registry

Because **Practice Matters!** to the AAAAI
Thursday At-A-Glance

Thursday, February 24

6:00 AM
Registration 6:30 am - 7:00 pm

7:00 AM
36th Annual Harold S. Nelson Military Allergy/Immunology Symposium
7:20 am - 3:15 pm

8:00 AM
Practical Workshops to Jumpstart Your Drug Allergy Assessments
8:00 am - 1:15 pm

9:00 AM
Breakthroughs in Understanding and Treating Eosinophilic Gastrointestinal Diseases (EGID): Organized by CEGIR and TIGERS
8:00 am - 5:00 pm

10:00 AM
Basic Aeroallergen Course
8:30 am - 5:00 pm

11:00 AM
2022 ABAI Continuous Assessment Program Literature Review Course
2:00 - 4:30 pm

12:00 PM

1:00 PM

2:00 PM

3:00 PM

4:00 PM

5:00 PM

6:00 PM

7:00 PM
### In-Person Course

**0001**
**36th Annual Harold S. Nelson Military Allergy/Immunology Symposium**
7:20 am to 3:15 pm  
*Convention Center, North Building, 100 Level, Room 131A*  
Pre-registration and ticket required. Fee: $60  
Credits: 6.50 CME/CE  
**7:20**  
Registration and Breakfast  
**7:50**  
Welcome and Overview  
*Jeannie L. Bay, DO*  
**8:00**  
Morning Address: COVID-10 Vaccine Allergy  
*Kimberly G. Blumenthal, MD MSc FAAAAI*  
**9:00**  
Break  
**9:10**  
Case Reports  
**10:25**  
Original Research  
**11:10**  
Defense Health Agency: Immunization Healthcare Division Update  
*Bruce M. McClennathan, MD FAAAAI*  
**11:40**  
Military Aeroallergen Extract Laboratory Updates  
*David J. Schwartz, MD*  
**11:55**  
Lunch  
**12:15**  
Bruton Lecture: Aspirin-Exacerbated Respiratory Disease  
*Tanya M. Laidlaw, MD FAAAAI*  
**1:20**  
VHA Allergy Committee  
*Joseph S. Yusin, MD FAAAAI*  
**1:40**  
Air Force  
*Daniel A. Steigelman, MD*  
**2:00**  
Army  
*David J. Schwartz, MD*  
**2:20**  
Navy  
*Taylor A. Banks, MD*  
**2:40**  
Venom Panel Discussion  
*Air Force*  
*Daniel A. Steigelman, MD*  
**Army**  
*David J. Schwartz, MD*  
**Navy**  
*Taylor A. Banks, MD*  
**3:05**  
Business Meeting and Award Presentations

**0101**
**Breakthroughs in Understanding and Treating Eosinophilic Gastrointestinal Diseases (EGID): Organized by CEGIR and TIGERS**
8:00 am to 5:00 pm  
*Convention Center, North Building, 100 Level, Room 120B*  
Pre-registration and ticket required. Fee: Annual Meeting Attendee - $50  
Non-Annual Meeting Attendee - $250  
Credits: 8.75 CME/CE  
**8:00**  
Welcome and Introduction  
*Mirna Chehade, MD MPH FAAAAI*  
**8:10**  
Introduction to CEGIR and TIGERS  
*Fred Dan Atkins, MD FAAAAI*  
**8:25**  
Physicians Partnering with Patients  
*Elynn Kodroff*  
**8:35**  
Physicians Partnering with Patients  
*Mary Jo Strobel*  
**8:45**  
Epidemiology of EGID  
*Elizabeth T. Jensen, MPH PhD*  
**9:00**  
Endoscopic Features of EGID  
*David Katzka, MD*  
**9:15**  
Defining EGID Pathology  
*Margaret H. Collins, MD*  
**9:30**  
Consequences of Eosinophilic Esophagitis (EoE): Remodeling  
*Seema S. Aceves, MD PhD FAAAAI*  
**9:45**  
Role of the Allergist and Skin Testing in EoE  
*Jonathan M. Spergel, MD PhD FAAAAI*  
**10:00**  
Break  
**10:15**  
Relationship Between Oral Immunotherapy (OIT) and EoE  
*Benjamin L. Wright, MD FAAAAI*  
**10:30**  
What We Know About Subcutaneous Immunotherapy (SCIT), Sublingual Immunotherapy (SLIT) and Oral Immunotherapy (OIT) for Aeroallergens in EoE  
*Scott P. Commins, MD PhD*  
**10:45**  
EoE Pathogenesis  
*Fred Dan Atkins, MD FAAAAI*  
**11:00**  
Genetics of EoE  
*Leah C. Kottyan, PhD*  
**11:15**  
Eosinophils in EoE  
*Gerald J. Gleich, MD FAAAAI*  
**11:30**  
T Cell Responses  
*David A. Hill, MD PhD*  
**11:45**  
Single Cell Analysis of EoE  
*Wayne G. Shreffler, MD PhD FAAAAI*  
**12:00**  
*Steven J. Ackerman, PhD*  
*Joshua Wechsler, MD*
Thursday Scientific Program

In-Person Course (continued)

12:30  Lunch Break
12:30  Pro/Con: Frequent Endoscopy vs. Monitoring Symptoms
Amanda Muir, MD
Carla M. Davis, MD FAAAAI
1:00   Pro/Con: Diet vs. Steroid Therapy
Fred Dan Atkins, MD FAAAAI
Mirna Chehade, MD MPH FAAAAI
1:30  Pro/Con: Primary Endpoint: Histology vs. Clinical
Nives Zimmermann, MD FAAAAI
Robbie D. Pesek, MD
2:00  Pro/Con: Aeroallergens Are a Major Trigger of EoE
Maureen Bauer, MD FAAAAI
Amal H. Assa’ad, MD FAAAAI
2:30  Break
2:45  Role of Multidisciplinary Team in Treating EGID
Mirna Chehade, MD MPH FAAAAI
3:00  Nutritional Aspects for EGID
Kara Kliewer, PhD RD
3:15  Dietary Aspects of EGID
Bethany Doerfler, RDN
3:30  Difficult to Treat EoE – Optimizing Proton Pump Inhibitors and
Steroids
Sandeep K. Gupta, MD
3:45  EGID Beyond the Esophagus
Kathryn Peterson, MD MScI
4:00  Biologic and Emerging Therapies
Evan S. Dellon, MD
4:15  Going Forward
Michael Minnicozzi, PhD
4:30  Concluding Remarks/Question & Answer
Fred Dan Atkins, MD FAAAAI

In-Person Course

0102  Practical Workshops to Jumpstart Your Drug Allergy Assessments
8:00 am to 1:15 pm
Convention Center, North Building, 100 Level, Room 120A
Pre-registration and ticket required. Fee: Annual Meeting Attendee - $50 Non-Annual Meeting Attendee - $250
Credits: 5.00 CME/CE
8:00  Developing a Beta-Lactam Allergy Evaluation Program with Key
Collaborators
David M. Lang, MD FAAAAI
Allergy
Panelists:  Antoine Azar, MD FAAAAI
Eric M. Macy, MD FAAAAI
Allison Ramsey, MD FAAAAI
Infectious Diseases
Panelists:  Erica S. Shenoy, MD
Alon Vaisman, MD
Pharmacy
Panelists:  Kristin Alvarez, PharmD
Mary Staicu, PharmD
8:50  Question & Answer
9:00  Developing Other Drug Allergy Testing Programs
Mariana C. Castells, MD PhD FAAAAI
9:00  Developing a Chemotherapy and Biologics Desensitization
Program
Panelists:  Aleena Banerji, MD FAAAAI
David J. Hong, MD FAAAAI
9:30  Developing a Non-Steroidal Anti-Inflammatory Drug (NSAID) and
Aspirin Challenge Program
Panelists:  Tanya M. Laidlaw, MD FAAAAI
Rebecca Saff, MD PhD FAAAAI
10:00  All About Rashes: A Case-Based Tour of Drug-Induced Eruptions
Elizabeth J. Phillips, MD FAAAAI FIDSA
10:00  Severe Cutaneous Adverse Reactions
Robert G. Micheletti, MD
10:20  Vesiculobulous Eruptions
Arturo Saavedra, MD PhD
10:40  Thinking Beyond Drug Eruptions
Sarina Elmariah
11:00  Break
11:15  Hands-On Drug Allergy Testing Workshops
Allison Ramsey, MD FAAAAI
11:15  Immediate Hypersensitivity Testing for Drug Allergies
Panelists:  Aleena Banerji, MD FAAAAI
Autumn C. Guyer, MD FAAAAI
Eric M. Macy, MD FAAAAI
Cosby A. Stone, MD MPH
11:45  Delayed Hypersensitivity Testing for Drug Allergies
Panelists:  Paul L. Bigliardi, MD
Ana Copaescu, MD
Elizabeth J. Phillips, MD FAAAAI
Rebecca Saff, MD PhD FAAAAI
Jason A. Trubiano, MD PhD
12:15  Discussing Practical Differences in Allergy Assessments for
Specific Populations
Elizabeth J. Phillips, MD FAAAAI FIDSA
Children
Panelists:  Moshe Ben-Shoshan, MD FAAAAI
Kimberly A. Risma, MD PhD FAAAAI
Pregnant Women
Panelists:  Eric M. Macy, MD FAAAAI
Anna R. Wolfson, MD
Multiple Drug Allergy Syndrome
Panelists:  Melissa Iammatteo, MD
Eric M. Macy, MD FAAAAI
1:00  Question & Answer
**In-Person Course**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Time</th>
<th>Location</th>
<th>Fee</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>0201</td>
<td><strong>Basic Aeroallergen Course</strong></td>
<td>8:30 am to 5:00 pm</td>
<td>Convention Center, North Building, 100 Level, Room 122A</td>
<td>$250</td>
<td>6.75 CME/CE</td>
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<tr>
<td></td>
<td>Welcome and Introduction</td>
<td>8:30</td>
<td>Estelle Levetin, PhD FAAAAI</td>
<td></td>
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<tr>
<td></td>
<td>Introduction to Fungal Aerobiology</td>
<td>8:35</td>
<td>W. Elliot Horner, PhD LEED AP FAAAAI</td>
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<tr>
<td></td>
<td>Morphology of Fungal Spores</td>
<td>9:15</td>
<td>Estelle Levetin, PhD FAAAAI</td>
<td></td>
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<tr>
<td></td>
<td>Hands-On Instruction; Question &amp; Answer</td>
<td>10:00</td>
<td>Estelle Levetin, PhD FAAAAI</td>
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<tr>
<td></td>
<td>Lunch</td>
<td>11:40</td>
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<tr>
<td></td>
<td>Setting Up a Sampling Station</td>
<td>12:30</td>
<td>Andrew C. Rorie, MD FAAAAI</td>
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<tr>
<td></td>
<td>Pollen Aerobiology Part I</td>
<td>2:00</td>
<td>Kraig W. Jacobson, MD FAAAAI</td>
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<tr>
<td></td>
<td>Pollen Aerobiology Part II</td>
<td>2:50</td>
<td>Richard W. Weber, MD FAAAAI</td>
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<tr>
<td></td>
<td>Hands-On Instruction; Question &amp; Answer</td>
<td>3:40</td>
<td>Estelle Levetin, PhD FAAAAI</td>
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</tbody>
</table>

**In-Person Course**

<table>
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<th>Fee</th>
<th>Credits</th>
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<tbody>
<tr>
<td>0601</td>
<td><strong>2022 ABAI Continuous Assessment Program Literature Review Course</strong></td>
<td>2:00 to 4:30 pm</td>
<td>Convention Center, North Building, 100 Level, Room 120D</td>
<td>$250</td>
<td>2.50 CME/CE</td>
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<tr>
<td></td>
<td>Introduction</td>
<td>2:30</td>
<td>David Stukus, MD FAAAAI</td>
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</tr>
<tr>
<td></td>
<td>Food and Drug Allergy/Hypersensitivity Reactions and Eosinophilic or Gastrointestinal Disorders</td>
<td>2:35</td>
<td>Yamin V. Virkud, MD FAAAAI</td>
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<tr>
<td></td>
<td>Head and Neck; Lung</td>
<td>3:00</td>
<td>Anju T. Peters, MD MSci FAAAAI</td>
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<tr>
<td></td>
<td>Dermatologic; Anaphylaxis</td>
<td>3:25</td>
<td>John M. Kelso, MD FAAAAA</td>
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<tr>
<td></td>
<td>Immune Hypersensitivity Disorders; Immunodeficiencies</td>
<td>3:50</td>
<td>Yasmin W. Khan, MD</td>
<td></td>
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<tr>
<td></td>
<td>Emerging National Health Priorities</td>
<td>4:15</td>
<td>David Stukus, MD FAAAAI</td>
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</tbody>
</table>

A 2020 survey of 300 PIDD patients found that 41% (124/302) of adults sampled reported that it took over 21 years beyond the onset of their first symptom to receive a final PIDD diagnosis.

Improve your care of PIDD patients with our new online course series:

Providing Enhanced Medical Support for Patients with Primary Immunodeficiency Disorders (PIDD)

CME and MOC Credit available
Supported every area of your practice every day

Practice Management Hub
Phoenix Convention Center, North Building, Lower Level Concourse

Friday noon to 4:00 pm
Saturday 8:00 am to 5:00 pm
Sunday 8:30 am to 4:00 pm
Monday 9:00 am to noon

Expert Office Hours

Friday February 25, 2022
1:30 – 2:15 pm - Managing Biologics/Buy and Bill
Priya Bansal, MD FAAAAAI
Practice Management Committee, Chair

1:30 – 2:30 pm - Penicillin Allergy Testing
Allison Ramsey, MD FAAAAAI

3:00 – 4:00 pm - Telehealth
Gary Steven, MD FAAAAAI
& Sakina Bajowala, MD FAAAAAI

Saturday February 26, 2022
9:45 – 10:45 am - Navigating the Job Market
Christina Ciaccio, MD FAAAAAI
Practice Management Committee, Vice Chair

10:00 – 11:00 am - Payer Relations
Richard Honsinger, MD FAAAAAI
Office of Practice Management, Payer Relations

11:00 am – 12:00 pm - Scope of Practice
Stuart Abramson, MD PhD AE-C FAAAAAI
Advocacy Committee, Vice Chair

12:00 – 1:00 pm - Regional, State, & Local Allergy, Asthma & Immunology Societies (RSLAAIS)
Weily Soong, MD FAAAAAI
RSLAAIS, Chair

1:00 – 2:00 pm - AAAAI Practice Management Resources
James Sussman, DO FAAAAAI
Office of Practice Management, Chair

3:00 – 4:00 pm - The AAAAI Registry
Gary Steven, MD FAAAAAI
The AAAAI Registry, Medical Director

Sunday February 27, 2022
9:30 – 11:00 am - Compounding
Emily L. Graham, RHIA CCS-PVP
Hart Health Strategies, Inc.

11:00 am – 12:00 pm - AMA Delegates
Steven G. Tolber, MD FAAAAAI,
Lynda Kabbash, MD FAAAAAI, &
Shahab Virani, MD

2:00 – 3:00 pm - Advocacy
Paul Williams, MD FAAAAAI
Advocacy Committee, Chair
Emily Graham, RHIA CCS-PVP
Hart Health Strategies, Inc.

2:30 – 3:30 pm - Mobile health technologies
Sunit Jariwala, MD FAAAAAI
Health Informatics, Technology and Education Committee, Chair

Because Practice Matters! to the AAAAI
Friday At-A-Glance

Friday, February 25

Pre-reading material
Live stream
Audience response system
Ticket required
Fee required
Included in the Virtual Annual Meeting

6:00 AM
Registration
6:30 am - 5:00 pm

7:00 AM

7:00 AM

8:00 AM

9:00 AM

10:00 AM

11:00 AM

12:00 PM

1:00 PM

2:00 PM

3:00 PM

4:00 PM

5:00 PM

6:00 PM

Courses
9:00 am - 12:00 pm

Allied Health Advanced Practice Course
9:00 am - 12:00 pm

Allied Health Workshops
8:00 - 9:15 am

Allied Health Workshops
9:30 - 10:45 am

FIT Symposium
(Sheraton)
7:00 am - 1:30 pm

2022 Crysalis Project Program
(Invite Only)
(Sheraton)
7:30 am - 1:45 pm

Seminars
12:30 - 1:30 pm

Workshops
12:45 - 2:00 pm

Allied Health Seminar
12:30 - 1:30 pm

Allied Health Workshops
12:45 - 2:00 pm

Plenary Session
2:15 - 3:45 pm

Symposia
4:00 - 5:15 pm

Allied Health Plenary
4:00 - 5:15 pm
# Friday Scientific Program

## In-Person Course

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1011</strong></td>
<td><strong>2022 FIT Symposium</strong>&lt;sup&gt;1&lt;/sup&gt;&lt;sup&gt;2&lt;/sup&gt;&lt;sup&gt;3&lt;/sup&gt;&lt;sup&gt;4&lt;/sup&gt;&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
<tr>
<td>7:00 am to 1:30 pm</td>
<td>Sheraton, Second Level, Valley of the Sun A-E</td>
</tr>
<tr>
<td>7:00</td>
<td>Networking Breakfast</td>
</tr>
</tbody>
</table>
| 7:45 | Welcome and Introduction  
Christine M. Panganiban, MD MS |
| 7:55 | Networking Committees and Organizations |
| 8:10 | American Board of Allergy and Immunology (ABAI) Update  
Michael R. Nelson, MD PhD FAAAAI |
| 8:35 | AAAAI President Welcome  
Giselle Mosnaim, MD MS FAAAAI |
| 8:45 | Digital Health and Remote Patient Monitoring for Patients with Difficult to Control Asthma  
Giselle Mosnaim, MD MS FAAAAI |
| 9:25 | Break |
| 9:40 | Delving Deep into Asthma, the Disease That Takes Our Breath Away Case Based Practical Applications of the GINA Guidelines and NAEPP Guidelines: Adult and Pediatric Medicine  
Wanda Phipatanakul, MD MS FAAAAI  
William W. Busse, MD FAAAAI |
| 10:20 | Atopic Dermatitis: Tips and Tricks to “Crack” Difficult Cases - Allergy  
Donald Y.M. Leung, MD PhD FAAAAI  
Marc J. Serota, MD |
| 11:00 | Break |
| 11:15 | Mast Cells Gone Crazy: Managing Mast Cell Disorders from Presentation to Treatment  
Mariana C. Castells, MD PhD FAAAAI  
Lawrence B. Schwartz, MD PhD FAAAAI |
| 11:55 | Let’s Get Real About Wellness  
Theresa A. Bingemann, MD FAAAAI  
Hemant Sharma, MD MHS FAAAAI |
| 12:35 | Networking Lunch |

## In-Person Course

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td><strong>1012</strong></td>
<td><strong>2022 Chrysalis Project Program (Invitation Only)</strong>&lt;sup&gt;1&lt;/sup&gt;&lt;sup&gt;2&lt;/sup&gt;&lt;sup&gt;3&lt;/sup&gt;&lt;sup&gt;4&lt;/sup&gt;&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
<tr>
<td>7:30 am to 1:45 pm</td>
<td>Sheraton, Third Level, Phoenix C</td>
</tr>
<tr>
<td>7:30</td>
<td>Breakfast</td>
</tr>
</tbody>
</table>
| 8:00 | Welcome from Chrysalis Chairs  
Asriani M. Chiu, MD FAAAAI  
Rebecca Staff, MD PhD FAAAA |
| 8:10 | Welcome from the AAAAI President  
Giselle Mosnaim, MD MS FAAAAI |
| 8:15 | Immunodeficiency  
Kimberly A. Risma, MD PhD FAAAAI |
| 8:45 | Atopic Dermatitis  
Donald Y.M. Leung, MD PhD FAAAAI |
| 9:15 | Food Allergy  
A. Wesley Burks, MD FAAAAI |
| 9:45 | Break |
| 9:55 | Asthma  
Gurjit K. Khurana Hershey, MD PhD FAAAAI |
| 10:25 | Drug Allergy  
Kimberly G. Blumenthal, MD MSc FAAAAI |
| 10:55 | Break |
| 11:30 | Hot Topics: Immunodeficiency  
Sara Barmettler, MD  
Jocelyn Farmer, MD PhD |
| 12:00 | Hot Topics: Food Allergy  
Sarita U. Patil, MD FAAAAI  
Emily C. McGowan, MD PhD FAAAAI |
| 12:00 | Hot Topics: Drug Allergy  
Kimberly G. Blumenthal, MD MSc FAAAAI  
Cosby A. Stone, MD MPH |
| 12:25 | Chrysalis Project Participant Class Photo |
| 12:30 | Lunch with FIT Mentors and Chrysalis Faculty |
Friday Scientific Program

In-Person Workshop

1101 Allied Health: Using a Team Approach to Allergy/Immunology Care: A Collaborative Model Using Medical Doctors, Advanced Practice Nurses, Registered Nurses, Physician Assistants and Medical Assistant  
8:00 to 9:15 am  
Convention Center, North Building, 200 Level, Room 225A  
Credits: 1.25 CME/CE  
8:00 Introduction  
Cheryl K. Bernstein, RN BSN CCRC  
8:05 Delivering A/I Care Using a Collaborative Model in the Community Setting  
Karen Robbins, MD FAAAAI  
8:25 Delivering A/I Care Using a Collaborative Model in the Academic Setting  
Jodi A. Shroba, MSN APRN CPNP  
8:45 Delivering A/I Care Using a Collaborative Model in the Research Setting  
Terri Gagen-Hursey, NP  
9:05 Question & Answer  
Cheryl K. Bernstein, RN BSN CCRC

In-Person Workshop

1102 Allied Health: Finding the Zebra: Understanding How to Diagnose an Immune Disorder  
8:00 to 9:15 am  
Convention Center, North Building, 200 Level, Room 226A  
Credits: 1.25 CME/CE  
8:00 Introduction  
M. Elizabeth M. Younger, CRNP PhD  
8:05 Signs and Symptoms of Common PIDD  
Brenda L. Snyder, MSN RN CPNP  
8:25 Common Laboratory Findings in PIDD  
Kristin Epland, NP  
8:45 Treatment Options for PIDD  
Carla M. Duff, CPNP-PC APRN MSN CCR  
9:05 Question & Answer  
M. Elizabeth M. Younger, CRNP PhD

In-Person Course

1110 Developing and Maintaining Excellence in Allergy/Immunology Fellowship  
8:00 to 12:00 pm  
Hyatt, Second Floor, Phoenix Ballroom  
Credits: 3.50 CME/CE  
8:00 Breakfast  
8:25 Welcome  
Amy M. Dowden, MD FAAAAI  
8:30 Virtual Fellowship Interviewing: Tip for Effective Interviews  
Javed Sheikh, MD FAAAAI  
9:30 How to Conduct an Efficient New Fellow Orientation  
David I. Hong, MD FAAAAI  
10:00 Coffee Break and Networking  
10:30 How to Set Up a Good Educational Curriculum for Fellows, Including the Use of Pre-Recorded and Internet Materials  
Paul J. Dowling, MD FAAAAI  
11:00 How to Guide Fellows on Board Preparation  
James M. Quinn, MD FAAAAI  
11:30 How to Integrate Virtual/Telemedicine into the Clinical Activities for Fellows: Year 2 Post Pandemic  
Sofija Volertas, MD

In-Person Course

1201 2022 Difficult Cases  
9:00 am to 12:00 pm  
Convention Center, North Building, 100 Level, Room 120A  
Credits: 3.00 CME/CE  
9:00 Introductions; Question & Answer  
Christina Kwong, MD FAAAAI  
9:00 Contact Dermatitis  
Instructors: Luz S. Fenacier, MD FAAAAI  
Basil M. Kahwash, MD  
9:30 Immunodysregulatory Disorders  
Instructors: Nicholas L. Hartog, MD FAAAAI  
Mark Ballow, MD FAAAAI  
10:00 Drug Hypersensitivity  
Instructors: Aleena Banerji, MD FAAAAI  
Jason Kwah, MD  
10:30 Non-IgE Mediated Food Allergy  
Instructors: Anna H. Nowak-Wegrzyn, MD PhD FAAAAI  
Brooke I. Polk, MD FAAAAI  
11:00 Urticaria-Like Rashes  
Instructors: Mary Beth Fasano, MD MSPH FAAAAI  
Neelam A. Phadke, MD  
11:30 Anaphylaxis  
Instructors: Melody C. Carter, MD FAAAAI  
Ana Copaescu, MD
### Friday Scientific Program

#### In-Person Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Date/Time</th>
<th>Location</th>
<th>Credits</th>
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<tbody>
<tr>
<td>1202</td>
<td>From Acute to Chronic, the Many Faces of Urticaria</td>
<td>Friday, February 25</td>
<td>Convention Center, West Building, 300 Level, Room 301D</td>
<td>3.00 CME/CE</td>
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<tr>
<td>1203</td>
<td>Lessons Learned from National Institutes of Health (NIH)</td>
<td>Friday, February 25</td>
<td>Convention Center, West Building, 300 Level, Room 301D</td>
<td>3.00 CME/CE</td>
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<tr>
<td>1204</td>
<td>It All Matters: A Multi-Pronged Approach to Asthma Pathogenesis</td>
<td>Friday, February 25</td>
<td>Convention Center, West Building, 300 Level, Room 301D</td>
<td>3.00 CME/CE</td>
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<tr>
<td>1205</td>
<td>Diagnostics in Allergy &amp; Immunology: An Update</td>
<td>Friday, February 25</td>
<td>Convention Center, West Building, 300 Level, Room 301D</td>
<td>3.00 CME/CE</td>
</tr>
</tbody>
</table>

#### Course Details

- **Course 1202**
  - **Title**: From Acute to Chronic, the Many Faces of Urticaria
  - **Time**: 9:00 am to 12:00 pm
  - **Location**: Convention Center, West Building, 300 Level, Room 301D
  - **Instructor**: Allen P. Kaplan, MD FAAAAI

- **Course 1203**
  - **Title**: Lessons Learned from National Institutes of Health (NIH)
  - **Time**: 9:00 am to 12:00 pm
  - **Location**: Convention Center, West Building, 300 Level, Room 301D
  - **Instructor**: Leah C. Kottyan, PhD

- **Course 1204**
  - **Title**: It All Matters: A Multi-Pronged Approach to Asthma Pathogenesis
  - **Time**: 9:00 am to 12:00 pm
  - **Location**: Convention Center, West Building, 300 Level, Room 301D
  - **Instructor**: Leah C. Kottyan, PhD

- **Course 1205**
  - **Title**: Diagnostics in Allergy & Immunology: An Update
  - **Time**: 9:00 am to 12:00 pm
  - **Location**: Convention Center, West Building, 300 Level, Room 301D
  - **Instructor**: Corinne S. Happel, MD FAAAAI
# Friday Scientific Program

## In-Person Course

### 1206 The Clinical Utility of Pollen and Mold Counts in the Allergy Office

- **Time:** 9:00 am to 12:00 pm
- **Location:** Convention Center, North Building, 100 Level, Room 131A
- **Credits:** 3.00 CME/CE

**Introduction**
Leonard Bielory, MD FAAAAI

**The Clinical Utility of Pollen and Mold Counts**
Jay M. Portnoy, MD FAAAAI

**How Pollen Counts are Data Mined in an Academic Center**
Andrew C. Rorie, MD FAAAAI

**Marketing and Social Media Analytics of Pollen Counts in the Allergy Clinic**
Steven Kagen, MD FAAAAI

**Interactive Demonstration: How to Get the Pollen Counts, What to do with the Data, for Scholarly and Marketing of an Allergy Clinic**
Instructors: Dan Dalan, MD FAAAAI
Estelle Levetin, PhD FAAAAI

**Question & Answer**
Leonard Bielory, MD FAAAAI

### 1207 Ethnic and Racial Differences in Food Allergy

- **Time:** 9:00 am to 12:00 pm
- **Location:** Convention Center, West Building, 300 Level, Room 301C
- **Credits:** 3.00 CME/CE

**Introduction**
Amaziah Coleman, MD

**Racial and Ethnic Disparities in Food Allergy in the USA**
Vivian Hernandez-Trujillo, MD FAAAAI

**Racial and Ethnic Disparities in Food Allergy in Australia**
Mimi L. Tang, MD PhD FAAAAI

**Racial and Ethnic Disparities in Diverse Populations with Food Allergy**
Andrea A. Pappalardo, MD FAAAAI

**Surveys as a Method to Collect Data on Disparities in Food Allergy**
Christopher M. Warren, PhD

**Deciphering the Genetics of Food Allergy**
Tessaye B. Mersha, PhD

**Putting the Biology and the Data Together**
Amal H. Assa’ad, MD FAAAAI

**Question & Answer**
Amaziah Coleman, MD

### 1208 Expanding Your Practice: Clinical, Administrative and Reimbursement Strategies for Success

- **Time:** 9:00 am to 12:00 pm
- **Location:** Convention Center, North Building, 100 Level, Room 121A
- **Credits:** 3.00 CME/CE

**Introduction**
Priya J. Bansal, MD FAAAAI

**SCIT/SLIT**
Douglas H. Jones, MD FAAAAI

**Oral Immunotherapy**
Christina E. Ciaccio, MD FAAAAI

**Managing Biologics**
Weily Soong, MD FAAAAI

**Remote Monitoring Devices and Apps**
William C. Anderson, MD FAAAAI

**Reimbursement Strategies**
TBD

**Administrative Work Flow**
TBD

**Question & Answer**
Priya J. Bansal, MD FAAAAI

### 1209 Engaging Your Learners at the Annual Meeting with Innovative Approaches

- **Time:** 9:00 am to 12:00 pm
- **Location:** Convention Center, North Building, 200 Level, Room 232A
- **Pre-registration and ticket required. Fee:** $20.
- **Credits:** 3.00 CME/CE

**Introduction and Adult Learning Principles**
Gerald B. Lee, MD FAAAAI

**Audience Response Systems**
Gerald B. Lee, MD FAAAAI

**Effective Visuals**
Punita Ponda, MD FAAAAI

**Group Work**
Margaret Redmond, MD

**Case-Based Learning**
Kristin Sokol, MD MS MPH FAAAAI

**Skills Building and Hands-On Learning Session**
Gerald B. Lee, MD FAAAAI
Friday Scientific Program

In-Person Course

1210 Introductory Rhinolaryngoscopy Course with Hands-On Learning 9:00 am to 12:00 pm
Convention Center, North Building, 200 Level, Room 231A
Pre-registration and ticket required. Fee: $50
Credits: 3.00 CME/CE
9:00 Introduction to Rhinolaryngoscopy
Jerald W. Koepke, MD FAAAAI

10:00 Hands-On Rhinoscopy Instruction
Instructors: David Elkayam, MD
Allen D. Adinoff, MD FAAAAI
Kevin R. Murphy, MD

In-Person Course

1211 Metabolic Regulation of Viral and Inflammatory Disease 9:00 am to 12:00 pm
Convention Center, North Building, 200 Level, Room 221A
Credits: 3.00 CME/CE
9:00 Introduction
Stokes Peebles, MD FAAAAI

9:10 A Metabolic Phenotype in Severe and Exacerbation Prone Asthma
Michael C. Peters, MD

9:35 A Scientific Guide To Immunometabolism: Metabolic Rewiring of the Epigenome and Proteome to Support Immune Cell Activation
Jeffrey Rathmell, PhD

10:00 Turning Down ILC2s with mTOR Inhibition
Christoph Wilhelm, PhD

10:25 Targeting In Vivo Metabolic Vulnerabilities of Th2 and Th17 Cells Reduces Airway Inflammation
Dawn C. Newcomb, PhD

10:50 Metabolic Regulation of NK Cell Function in CMV
Megan A. Cooper, MD PhD

11:15 Linking T2 Signaling To Epithelial Programs in Nasal Polyposis
Nora A. Barrett, MD FAAAAI

11:40 Question & Answer
Stokes Peebles, MD FAAAAI

In-Person Course

1212 How to Survive as an Academic Translational Scientist Pursuing Asthma/Allergy/Immunology Research in the Current Funding Environment 9:00 am to 12:00 pm
Convention Center, North Building, 100 Level, Room 132A
Pre-registration and ticket required. Fee: $20
Credits: 3.00 CME/CE
9:00 Introduction
Tanya M. Laidlaw, MD FAAAAI

9:10 Panel Discussion: NIH Funding Opportunities and Strategies for Success
Panelists: Gang Dong, MD PhD
Alkis Togias, MD FAAAAI

9:55 Panel Discussion: Strategies to Write a Fundable NIH Grant
Panelists: Corinne Keet, MD MS PhD
Sarita U. Patil, MD FAAAAI
Marsha A. Wills-Karp, PhD

10:55 Break

11:10 Review of Submitted Grant Proposals
Panelists: Corinne Keet, MD MS PhD
Sarita U. Patil, MD FAAAAI
Marsha A. Wills-Karp, PhD

In-Person Course

1213 Allied Health: An Update on Allergic Conditions in 2021 for the Allied Health Provider 9:00 to 12:00 pm
Convention Center, North Building, 200 Level, Room 227A
Credits: 3.00 CME/CE
9:00 Introduction
Maria Crain, RN MA CPNP

9:10 Update on Asthma
Pamela H. Steele, MSN CPNP AE-C

9:40 Common Allergic Rashes and Their Treatment
Karol Timmons, RN MS CPNP

10:10 Updates and Review of Allergic Rhinitis Guidelines
Jay M. Portnoy, MD FAAAAI

10:40 Common Primary Immunodeficiency Disease (PIDD) and Management in the Age of a Pandemic
M. Elizabeth M. Younger, CRNP PhD

11:10 Updates in the Field of Food Allergy Research: What You Should Know
J. Andrew Bird, MD FAAAAI

11:40 Question & Answer
Maria Crain, RN MA CPNP
### Friday Scientific Program

#### In-Person Workshop

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Title</th>
<th>Location</th>
<th>Credits</th>
<th>Instructors</th>
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</thead>
<tbody>
<tr>
<td>1250</td>
<td><strong>Allied Health: Difficult Cases: What to Do When Nothing Works</strong></td>
<td>Convention Center, North Building, 200 Level, Room 225A</td>
<td>1.25</td>
<td>Elisa C. Thompson, NP</td>
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<tr>
<td>9:30</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>9:35</td>
<td><strong>Management of Difficult to Treat Atopic Dermatitis</strong></td>
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<td>Gregory Metz, MD FAAAAI</td>
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<td>9:55</td>
<td><strong>Type 2 Inflammation in Uncontrolled Persistent Asthma</strong></td>
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<td>Catherine Kier, MD</td>
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<td>10:15</td>
<td><strong>The Mystery Case</strong></td>
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<td>Marciarose Winston, MSN CPNP AE-C</td>
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<tr>
<td>10:35</td>
<td><strong>Question &amp; Answer</strong></td>
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<td>Elisa C. Thompson, NP</td>
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<tbody>
<tr>
<td>1251</td>
<td><strong>Allied Health: The Impact of the Vaping Epidemic on Teens and Young Adults with Asthma</strong></td>
<td>Convention Center, North Building, 200 Level, Room 226A</td>
<td>1.25</td>
<td>Jodi A. Shroba, MSN APRN CPNP</td>
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<tr>
<td>9:30</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>9:35</td>
<td><strong>The Impact of the Vaping Epidemic on Teens and Young Adults with Asthma</strong></td>
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<td>Mary E. Cataletto, MD</td>
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<tr>
<td>9:55</td>
<td><strong>Social and Biologic Factors Influencing Vaping and Transition to Addiction</strong></td>
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<td>Lisa B. Rosenberg, MEd MSW LCSW CSSW</td>
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<tr>
<td>10:15</td>
<td><strong>Prevention and Control Strategies</strong></td>
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<td>Pamela H. Steele, MSN CPNP AE-C</td>
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<tr>
<td>10:35</td>
<td><strong>Question &amp; Answer</strong></td>
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<td></td>
<td>Jodi A. Shroba, MSN APRN CPNP</td>
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#### In-Person Seminar

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<th>Instructors</th>
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<tr>
<td>1502</td>
<td><strong>Update on the Guidelines for Work-Up and Management of Patients with 22q11.2 Syndrome</strong></td>
<td>Sheraton, Second Level, Ahwatukee B</td>
<td>1.00</td>
<td>Peter Mustillo, MD FAAAAI</td>
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<td>Nicholas L. Hartog, MD FAAAAI</td>
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<tr>
<td>12:30</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>12:30</td>
<td><strong>The Best Possible Care for Children with Severe Asthma</strong></td>
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<td>Matthew A. Rank, MD FAAAAA</td>
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<td>Bridgette Jones, MD MS FAAAAA</td>
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<tr>
<td>12:30</td>
<td><strong>Older Adults with Severe Asthma: Updates on Optimal Management</strong></td>
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<td>Alan P. Baptist, MD MPH FAAAAI</td>
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<td>Paula J. Busse, MD FAAAAA</td>
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<td>12:30</td>
<td><strong>The Role of the Practicing Allergist in the Management of Eosinophilic Esophagitis</strong></td>
<td>Sheraton, Second Level, South Mountain</td>
<td>1.00</td>
<td>Karen S. Hsu Blatman, MD FAAAAI</td>
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<td>Antonella Cianferoni, MD PhD FAAAAA</td>
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<tr>
<td>12:30</td>
<td><strong>Food Allergen Advisory Labels: Avoid or Ignore?</strong></td>
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### In-Person Seminar

**1507**  
**Insights into Obtaining Grants Offered by the AAAAI Grants Committee**  
Sheraton, Second Level, Maryvale A  
12:30 to 1:30 pm  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors: Mitchell H. Grayson, MD FAAAAI  
Seema S. Aceves, MD PhD FAAAAI

**1508**  
**Biologics in Aspirin-Exacerbated Respiratory Disease (AERD)**  
Sheraton, Second Level, Maryvale B  
12:30 to 1:30 pm  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors: Tanya M. Laidlaw, MD FAAAAI  
Kathleen M. Buchheit, MD FAAAAI

**1510**  
**Practical Issues of Managing a Patient with Allergic Skin Diseases on Biologics**  
Sheraton, Second Level, Paradise Valley  
12:30 to 1:30 pm  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors: Ellen R. Sher, MD FAAAAI  
Marc J. Serota, MD

### In-Person Workshop

**1522**  
**Idiopathic Angioedema Without Urticaria: State of the Art Approach to Diagnosis and Management**  
12:45 to 2:00 pm  
Convention Center, West Building, 300 Level, Room 301A  
Credits: 1.25 CME/CE  
12:45 **Introduction**  
William R. Lumry, MD FAAAAI  
12:50 **Case-Based Approach To Diagnosis**  
Douglas T. Johnston, DO  
1:10 **Novel Biomarkers in Angioedema**  
Marc A. Riedl, MD MS  
1:30 **Optimizing Patient Care When Diagnosis is Unclear**  
Aleena Banerji, MD FAAAAI  
1:50 **Question & Answer**  
William R. Lumry, MD FAAAAI

**1523**  
**Proteomic and Lipidomic Approaches to Understanding Asthma**  
12:45 to 2:00 pm  
Convention Center, North Building, 100 Level, Room 120D  
Credits: 1.25 CME/CE  
12:45 **Introduction**  
Jessica A. Lasky Su, MD  
12:50 **Primer on Proteomics and Lipidomics**  
Hanno Steen, PhD  
1:10 **Proteomic Studies of Asthma**  
Paul Skipp, BSc PhD  
1:30 **Metabolomic Studies of Asthma**  
Rachel S. Kelly, PhD  
1:50 **Questions & Answer**  
Jessica A. Lasky Su, MD

**1524**  
**Genetic Testing 101**  
12:45 to 2:00 pm  
Convention Center, West Building, 300 Level, Room 301D  
Credits: 1.25 CME/CE  
12:45 **Introduction**  
Kelli W. Williams, MD MPH FAAAAI  
12:50 **Genetic Testing 101**  
Instructors: Roshini S. Abraham, PhD D(ABMLI) FAAAAI  
Manish Butte, MD PhD  
Lisa R. Forbes Satter, MD FAAAAI  
1:30 **Facilitation of Group Discussion**  
Kelli W. Williams, MD MPH FAAAAI
### Friday Scientific Program

#### In-Person Workshop

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<tbody>
<tr>
<td>1525</td>
<td>Local Gastrointestinal Mechanisms of Tolerance and Hypersensitivity</td>
<td>12:45 to 2:00 pm</td>
<td>Convention Center, North Building, 100 Level, Room 121A</td>
<td>1.25 CME/CE</td>
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<tr>
<td>12:45</td>
<td>Introduction</td>
<td>Stephanie C. Eisenbarth, MD PhD</td>
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<tr>
<td>12:50</td>
<td>Early Life Antigen Exposure in the Development of Food Allergy</td>
<td>Brian P. Vickery, MD FAAAAI</td>
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<td>1:50</td>
<td>Question &amp; Answer</td>
<td>Stephanie C. Eisenbarth, MD PhD</td>
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<tr>
<td>1526</td>
<td>How and Why to Engage Your Practice with the AAAAI Registry</td>
<td>12:45 to 2:00 pm</td>
<td>Convention Center, North Building, 100 Level, Room 122A</td>
<td>1.25 CME/CE</td>
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<tr>
<td>12:45</td>
<td>Introduction</td>
<td>Frank S. Virant, MD FAAAAI</td>
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<tr>
<td>12:50</td>
<td>Using the AAAAI Registry in Your Practice</td>
<td>Gary C. Steven, MD PhD FAAAAI</td>
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<td>1:10</td>
<td>What's New and What's Next in the AAAAI Registry</td>
<td>Nick L. Rider, DO FAAAAI</td>
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<td>1:30</td>
<td>How the Shift to Value-Based Medicine Impacts Your Office, and How</td>
<td>David M. Lang, MD FAAAAI</td>
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<td>1:50</td>
<td>the AAAAI Registry Helps</td>
<td>Frank S. Virant, MD FAAAAI</td>
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<tr>
<td>1527</td>
<td>Negotiating Work-Life Integration</td>
<td>12:45 to 2:00 pm</td>
<td>Convention Center, North Building, 200 Level, Room 229A</td>
<td>1.25 CME/CE</td>
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<tr>
<td>12:45</td>
<td>Introduction</td>
<td>Anil Nanda, MD FAAAAI</td>
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<tr>
<td>12:50</td>
<td>Negotiating Work-Life Integration</td>
<td>Ewa H. Schafer, MD FAAAAI</td>
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<td>Instructors:</td>
<td>Sakina S. Bajowala, MD FAAAAA</td>
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<tr>
<td>1:50</td>
<td>Facilitation of Reflection and Discussion</td>
<td>Anil Nanda, MD FAAAAA</td>
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<tr>
<td>1528</td>
<td>Food Allergy Quality of Life: Multiple Levels of Analysis for Better Understanding and Care</td>
<td>12:45 to 2:00 pm</td>
<td>Convention Center, North Building, 100 Level, Room 120B</td>
<td>1.25 CME/CE</td>
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<tr>
<td>12:45</td>
<td>Introduction</td>
<td>Ruchi S. Gupta, MD MPH</td>
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<td>12:50</td>
<td>Individual, Group and Community Information Gathering/Coping</td>
<td>David Stukus, MD FAAAAI</td>
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<td>1:05</td>
<td>Individual and Family</td>
<td>Lisa Lombard, PhD</td>
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<tr>
<td>1:20</td>
<td>Community Wellness for Understanding and Care</td>
<td>Sai R. Nimmagadda, MD FAAAAI</td>
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<tr>
<td>1:50</td>
<td>Question &amp; Answer</td>
<td>Ruchi S. Gupta, MD MPH</td>
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<tbody>
<tr>
<td>1529</td>
<td>Nasal and Sinus Anatomical Abnormalities and Reading Sinus Computerized Tomography (CT) Scans: What an Allergist Should Know</td>
<td>12:45 to 2:00 pm</td>
<td>Convention Center, North Building, 100 Level, Room 131A</td>
<td>1.25 CME/CE</td>
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<tr>
<td>12:45</td>
<td>Introduction</td>
<td>Mahboobeh Mahdavinia, MD PhD</td>
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<tr>
<td>12:50</td>
<td>Why Should Allergists Have Sound Knowledge of Nasal and Sinus Anatomy and Confidence to Review CT Scans of Sinuses</td>
<td>Puneet Bajaj, MD</td>
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<td>1:50</td>
<td>Question &amp; Answer</td>
<td>Mahboobeh Mahdavinia, MD PhD</td>
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<tbody>
<tr>
<td>1530</td>
<td>Severe Asthma Exacerbations: Consequences and Prevention</td>
<td>12:45 to 2:00 pm</td>
<td>Convention Center, West Building, 300 Level, Room 301C</td>
<td>1.25 CME/CE</td>
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<tr>
<td>12:45</td>
<td>Introduction</td>
<td>William W. Busse, MD FAAAAA</td>
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<tr>
<td>12:55</td>
<td>Severe Asthma Exacerbations: Physiologic Consequences Across the Lifespan</td>
<td>William W. Busse, MD FAAAAA</td>
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<tr>
<td>1:10</td>
<td>Severe Asthma Exacerbations: Impact on Daily Lives of Patients and Families</td>
<td>Cynthia S. Rand, PhD</td>
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<tr>
<td>1:30</td>
<td>Preventing Severe Asthma Exacerbations in Adults and Children</td>
<td>Stanley J. Szefler, MD FAAAAA</td>
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<tr>
<td>1:50</td>
<td>Question &amp; Answer</td>
<td>William W. Busse, MD FAAAAA</td>
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<tbody>
<tr>
<td>1531</td>
<td>Allied Health: Subcutaneous Immunoglobulin (SCIG): A Therapy in Evolution</td>
<td>12:45 to 2:00 pm</td>
<td>Convention Center, North Building, 200 Level, Room 225A</td>
<td>1.25 CME/CE</td>
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<tr>
<td>1:10</td>
<td>The Evolution of SCIG</td>
<td>12:50</td>
<td>Convention Center, North Building, 200 Level, Room 225A</td>
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<tr>
<td>1:30</td>
<td>Optimizing SCIG for Patients</td>
<td>1:10</td>
<td>Convention Center, North Building, 200 Level, Room 225A</td>
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<tr>
<td>1:50</td>
<td>Question &amp; Answer</td>
<td>1:30</td>
<td>Convention Center, North Building, 200 Level, Room 225A</td>
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In-Person Plenary

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<tbody>
<tr>
<td>1601</td>
<td>Presidential Plenary: Digital Health and Remote Patient Monitoring for Patients with Difficult to Control Asthma</td>
<td>2:15 to 3:45 pm</td>
<td>Convention Center, North Building, Lower Level, Hall 6</td>
<td>1.50 CME/CE</td>
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<tr>
<td>2:20</td>
<td>The Potential Impact of Digital Health and Remote Patient Monitoring for Difficult to Control Asthma</td>
<td>2:20</td>
<td>Convention Center, North Building, Lower Level, Hall 6</td>
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<tr>
<td>3:15</td>
<td>Remote Patient Monitoring Challenges and Opportunities</td>
<td>3:15</td>
<td>Convention Center, North Building, Lower Level, Hall 6</td>
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In-Person Symposium

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<tbody>
<tr>
<td>1801</td>
<td>Practical Guidance for the Evaluation and Management of Drug Hypersensitivity</td>
<td>4:00 to 5:15 pm</td>
<td>Convention Center, North Building, 100 Level, Room 120B</td>
<td>1.25 CME/CE</td>
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<tr>
<td>4:05</td>
<td>Expanding Scope of Practice: Drug Allergy, Telemedicine and the Critical Role of the Allergist</td>
<td>4:05</td>
<td>Convention Center, North Building, 100 Level, Room 120B</td>
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<tr>
<td>4:25</td>
<td>Antibiotic Allergy: Utilizing Recent Guidance Resources on Drug Allergy</td>
<td>4:25</td>
<td>Convention Center, North Building, 100 Level, Room 120B</td>
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<tr>
<td>4:45</td>
<td>Approach to Biologic and Chemotherapy Reactions: Utilizing Recent Guidance Resources on Drug Allergy</td>
<td>4:45</td>
<td>Convention Center, North Building, 100 Level, Room 120B</td>
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<tr>
<td>5:05</td>
<td>Question &amp; Answer</td>
<td>5:05</td>
<td>Convention Center, North Building, 100 Level, Room 120B</td>
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<th>Session</th>
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<th>Time</th>
<th>Location</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>1802</td>
<td>School Based Asthma Management and COVID-19: Addressing Health Disparities</td>
<td>4:00 to 5:15 pm</td>
<td>Convention Center, West Building, 300 Level, Room 301A</td>
<td>1.25 CME/CE</td>
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<td>4:05</td>
<td>Risk Factors for Poor Outcomes in Children with COVID-19</td>
<td>4:05</td>
<td>Convention Center, West Building, 300 Level, Room 301A</td>
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<tr>
<td>4:25</td>
<td>Lessons Learned for School-Based Asthma Care During COVID-19</td>
<td>4:25</td>
<td>Convention Center, West Building, 300 Level, Room 301A</td>
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<tr>
<td>4:45</td>
<td>Impact of COVID on School-Based Asthma Programs in Communities of Color</td>
<td>4:45</td>
<td>Convention Center, West Building, 300 Level, Room 301A</td>
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<tr>
<td>5:05</td>
<td>Question &amp; Answer</td>
<td>5:05</td>
<td>Convention Center, West Building, 300 Level, Room 301A</td>
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</tr>
</tbody>
</table>
Friday Scientific Program

In-Person Symposium

1803  Early Life Environmental Exposures Regulate Host Allergic Immune Responses: Lessons Learned from the Asthma and Allergic Diseases Cooperative Research Centers (AADCRCs) Birth Cohorts
4:00 to 5:15 pm
Convention Center, North Building, 100 Level, Room 120A
Credits: 1.25 CME/CE
Alkis Togias, MD FAAAAI
4:05  Effects of the Farming Environment on Immune Development and Childhood Respiratory Illnesses - Lessons from the WISC Study
James E. Gern, MD FAAAAI
4:25  Identifying Asthma-Causing RSV Strains and Elucidating the Mechanisms of RSV- Mediated Asthma Development - Lessons Learned from the Inspire Cohort
Tina V. Hartert, MD MPH
4:45  Traffic Related Air Pollution and Childhood Asthma: Lessons from the CCAAPS Birth Cohort
Gurjit K. Khurana Hershey, MD PhD FAAAAI
5:05  Question & Answer
Alkis Togias, MD FAAAAI

In-Person Symposium

1804  New Connections in Sensitization and Tolerance
4:00 to 5:15 pm
Convention Center, North Building, 100 Level, Room 120D
Credits: 1.25 CME/CE
Amal H. Assa’ad, MD FAAAAI
4:05  Food Allergy and the Immune System
Alexandra F. Santos, MD PhD
4:45  Food Allergy and the Mucosa
Nicholas W Lukacs, PhD
5:05  Question & Answer
Amal H. Assa’ad, MD FAAAAI

In-Person Symposium

1805  Innovative Digital Technologies for Asthma Management: Improving Patient Engagement and Care Delivery
4:00 to 5:15 pm
Convention Center, North Building, Lower Level, Hall 6
Credits: 1.25 CME/CE
Sunit P. Jariwala, MD
4:00  Introduction
Thanai Pongdee, MD FAAAAI
4:05  The Role of Patient-Facing Mobile Health Technologies in Asthma Management
Sunit P. Jariwala, MD
4:25  Remote Patient Monitoring to Improve Asthma Medication Adherence
Giselle Mosnaim, MD MS FAAAAI
4:45  Artificial Intelligence-Based Risk Prediction in Asthma
Paneez Khoury, MD FAAAAI
5:05  Question & Answer
Thanai Pongdee, MD FAAAAI

In-Person Symposium

1806  Controversial Topics in Allergen Immunotherapy: Dose Adjustment Strategies after Gaps in Therapy, Severe Asthma, Waiting Times and Epinephrine Autoinjectors
4:00 to 5:15 pm
Convention Center, West Building, 300 Level, Room 301C
Credits: 1.25 CME/CE
Christopher Calabria, MD FAAAAI
4:00  Introduction
Punita Ponda, MD FAAAAI
4:05  Lessons Learned from the COVID-19 Pandemic Regarding Gaps in Immunotherapy
David I. Bernstein, MD FAAAAI
4:25  Optimal Strategies to Minimize the Risk of Adverse Outcomes for Asthmatics on Immunotherapy
Tolly Epstein, MD MS FAAAAI
4:45  Evidence-Based Strategies for Post-Injection Monitoring and Epinephrine Prescription for Patients on Immunotherapy
5:05  Question & Answer
Christopher Calabria, MD FAAAAI

In-Person Symposium

1807  Novel Discoveries in Mast Cell Biology
4:00 to 5:15 pm
Convention Center, North Building, 200 Level, Room 221A
Credits: 1.25 CME/CE
Joshua M. Levy, MD MPH
4:00  Introduction
Sarbjit S. Saini, MD FAAAAI
4:05  Mast Cells Protecting Against Bacterial Infection
Hydar Ali, PhD
4:25  Interactions of Mast Cells and Sensory Neurons in Allergic Diseases of the Skin
Daniel Kaplan, MD PhD
4:45  Question & Answer
Sarbjit S. Saini, MD FAAAAI

In-Person Symposium

1808  Fungal Diseases of the Respiratory Tract: From Bench to Bedside
4:00 to 5:15 pm
Convention Center, North Building, 200 Level, Room 222A
Credits: 1.25 CME/CE
Joshua M. Levy, MD MPH
4:00  Introduction
Paul A. Greenberger, MD FAAAAI
4:05  Fungi-Host Interaction and Implications on Disease Prevention
Paul A. Greenberger, MD FAAAAI
4:25  Allergic Fungal Rhinosinusitis (AFRS) and Allergic Bronchopulmonary Aspergillosis (ABPA): Pathogenesis and Distinctions for Chronic Rhinosinusitis with Nasal Polyps (CRSwNP) and Asthma
4:45  Coccioidiomycosis
Steven M. Holland, MD
5:05  Question & Answer
Joshua M. Levy, MD MPH
In-Person Symposium

Allied Health Plenary: COVID-19 in 2022: Update for the Health Care Professional
4:00 to 5:15 pm
Convention Center, North Building, 200 Level, Room 227A
Credits: 1.25 CME/CE

4:00 Introduction
TBD

4:05 What Healthcare Professionals and Patients Need to Know About Post-Acute Sequelae of Covid-19 (PASC)
Mitchell H. Grayson, MD FAAAAI

John Oppenheimer, MD FAAAAI

4:45 COVID-19 and Asthma: Update of Management, Treatment and Racial and Ethnic Health Disparities
Karen L. Gregory, DNP APRN-BC RRT AE-C

5:05 Question & Answer
TBD

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(Convention Center, North Building, Lower Level, Concourse)

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10.793
(2020 Clarivate impact factor)
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- **Receive** custom alerts when a position that meets your criteria is posted.
- **Access** career resources, including resume and interview tips.

*Get started at careers.aaaaai.org*
### Saturday Scientific Program

#### In-Person Seminar

**2001** Not All Anaphylaxis is the Same: Failure to Recognize Atypical Anaphylaxis Presentation Is Common  
*7:00 to 8:00 am  Sheraton, Second Level, Ahwatukee A*  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  
- David I. Bernstein, MD FAAAAI  
- Paul A. Greenberger, MD FAAAAI

**2002** Emerging and Existing Biomarkers in Asthma Diagnosis and Management  
*7:00 to 8:00 am  Sheraton, Second Level, Ahwatukee B*  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  
- Andrew H. Liu, MD FAAAAI  
- Juan Carlos Cardet, MD

**2003** Biologic Targeting of Aberrant Immunity in Inflammatory Disease  
*7:00 to 8:00 am  Sheraton, Second Level, Laveen B*  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  
- Mildred Kwan, MD PhD FAAAAI  
- Lisa R. Forbes Satter, MD FAAAAI

**2004** Diagnostics in Cannabis Allergy  
*7:00 to 8:00 am  Sheraton, Second Level, South Mountain*  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  
- William S. Silvers, MD FAAAAI  
- Dennis K. Ledford, MD FAAAAI

**2005** Using Electronic Medication Monitors to Help Manage Asthma in Your Clinic  
*7:00 to 8:00 am  Sheraton, Second Level, Maryvale A*  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  
- William C. Anderson, MD FAAAAI  
- Elizabeth Vann, RN

**2006** When Should Endoscopic Sinus Surgery Be Considered for Chronic Rhinosinusitis Patients?  
*7:00 to 8:00 am  Sheraton, Second Level, Camelback A*  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  
- Joseph K. Han, MD FAAAAI

**2007** Recent Advances in Animal Models of Allergic Disease  
*7:00 to 8:00 am  Sheraton, Second Level, Camelback B*  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  
- Stokes Peebles, MD FAAAAI  
- Magdalena Gorska, MD PhD FAAAAI

**2008** Complex Cases in Eosinophilia: Differential Diagnoses, Evaluation, and Management  
*7:00 to 8:00 am  Sheraton, Second Level, Alhambra*  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  
- Thanai Pongdee, MD FAAAAI  
- Sameer K. Mathur, MD PhD FAAAAI

**2009** Love at First Bite: Prevention of Food Allergy in Infants Through Early Introduction  
*7:00 to 8:00 am  Sheraton, Second Level, Paradise Valley*  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  
- Jacob D. Kattan, MD FAAAAI  
- Amanda L. Cox, MD FAAAAI
### In-Person Workshop

#### 2021

**Allied Health: Psychosocial Well-Being: Living with Food Allergies** 🔖

- **6:45 to 8:00 am**
- **Convention Center, North Building, 200 Level, Room 225A**
- **Credits:** 1.25 CME/CE

- **6:45** Introduction
  - Katherine Dahlsgaard, PhD

- **6:50** Psychosocial Well-Being: Living with Food Allergies
  - Melissa T. Korenblat-Hanin, ACSW LCSW

- **7:20** Identify Ways to Recognize and Respond to Anxiety, Challenges and Stressors and Describe Resources That Enhance Quality of Life
  - Tamara Hubbard, LCPC

- **7:50** Question & Answer
  - Katherine Dahlsgaard, PhD

#### 2022

**Allied Health: Refractive Urticaria: When Antihistamines Don’t Work** 🔖

- **6:45 to 8:00 am**
- **Convention Center, North Building, 200 Level, Room 226A**
- **Credits:** 1.25 CME/CE

- **6:45** Introduction
  - Karen S. Rance, DNP APRN CPNP AEC

- **6:50** Pathophysiology of Urticaria
  - Jeffrey Chambliss, MD

- **7:10** Treatment Options and Step Therapy for Urticaria
  - Karen S. Rance, DNP APRN CPNP AEC

- **7:30** Case Scenarios of Urticaria and Possible Therapies for Improvement
  - Jeffrey Chambliss, MD

- **7:50** Question & Answer
  - Karen S. Rance, DNP APRN CPNP AEC

### In-Person Plenary

#### 2101

**Preparing for the Next Pandemic: From Mechanisms to Vaccines** 🔖

- **8:15 to 9:45 am**
- **Convention Center, North Building, Lower Level, Hall 4**
- **Credits:** 1.50 CME/CE

- **8:15** Introduction
  - Mitchell H. Grayson, MD FAAAAI

- **8:20** Preparing for the Next Pandemic: An Engineering Approach to Vaccinology
  - Barney S. Graham, MD PhD

- **8:45** Introduction
  - Mitchell H. Grayson, MD FAAAAI

- **8:50** Responding to Viruses Differently: Genetic and Autoimmune Type 1 Interferon Mechanisms
  - Jean-Laurent Casanova, MD PhD

- **9:15** Introduction
  - Mitchell H. Grayson, MD FAAAAI

- **9:20** Manipulating Antibody Effector Functions to Improve Vaccine Efficacy
  - Duane R. Wesemann, MD PhD

### Poster Session

- **9:45 to 10:45 am**
- **Convention Center, North Building, Lower Level, Hall 4**
- **Credits:** 0.0 CME/CE

Please refer to the 2022 AAAAI Annual Meeting Mobile App or www.jacionline.org for abstract details.

- **001-010** Anaphylaxis and Venom Allergy
- **011-032** Atopic Dermatitis
- **000-033** Integrative Medicine in Allergy
- **034-040** Asthma Pathogenesis and Inflammation
- **041-056** Asthma/Chronic Cough Therapy
- **057-083** The Spectrum of Primary and Secondary Immunodeficiency Disorders
- **084-089** Indoor and Outdoor Air Pollution-immunologic Sequelae
- **090-119** Food Immunotherapy and Early Intervention
- **120-139** Quality of Care, Healthcare Economics and Health Information Technology
- **140-144** Allergy Diagnostics
- **000-145** Allergies and Biologics
- **146-153** Aeroallergen Immunotherapy
- **154-166** Novel Mechanisms and Therapeutic Strategies in Type-2 Inflammatory Disease
- **CA01-CA42** Saturday Case Reports
### Saturday Scientific Program

#### In-Person Symposium

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
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<tr>
<td>2301</td>
<td>European Academy of Allergy and Clinical Immunology (EAACI): Immune Modulation for Asthma  🔖</td>
<td>February 26</td>
<td>10:45 am to 12:00 pm</td>
<td>Convention Center, West Building, 300 Level, Room 301C</td>
<td>1.25 CME/CE</td>
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<tr>
<td>2302</td>
<td>Intersection of Genetics, Transcriptomics and Health Disparities in Severe Asthma  🔖</td>
<td>February 26</td>
<td>10:45 am to 12:00 pm</td>
<td>Convention Center, West Building, 300 Level, Room 301D</td>
<td>1.25 CME/CE</td>
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<tr>
<td>2303</td>
<td>The Genetics of Primary Immunodeficiency Disorders  🔖</td>
<td>February 26</td>
<td>10:45 am to 12:00 pm</td>
<td>Convention Center, North Building, 100 Level, Room 120A</td>
<td>1.25 CME/CE</td>
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<tr>
<td>2304</td>
<td>Novel Therapies in Food Allergy  🔖</td>
<td>February 26</td>
<td>10:45 am to 12:00 pm</td>
<td>Convention Center, North Building, Lower Level, Hall 4</td>
<td>1.25 CME/CE</td>
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<tr>
<td>2305</td>
<td>Rethinking How We Manage Asthma and Allergic Diseases Post- Pandemic  🔖</td>
<td>February 26</td>
<td>10:45 am to 12:00 pm</td>
<td>Convention Center, North Building, 100 Level, Room 120B</td>
<td>1.25 CME/CE</td>
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<tr>
<td>2306</td>
<td>Racism, Not Race as a Root Cause of Health Disparities  🔖</td>
<td>February 26</td>
<td>10:45 am to 12:00 pm</td>
<td>Convention Center, North Building, 100 Level, Room 120D</td>
<td>1.25 CME/CE</td>
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#### Session Details

- **10:45 Introduction**
  - Jurgen Schwarze, MD
- **10:50**
  - Molecular Targets for Immune Modulation in Asthma  
    Ioana O. Agache, MD PhD
- **11:10**
  - Biologicals for Severe Asthma – More Than Just Controller Medication?  
    Stefano Del Giacco, MD
- **11:30**
  - Allergen Immunotherapy for Allergic Asthma  
    Marek M. Jutel, MD PhD
  
- **10:45 Introduction**
  - Bridgette Jones, MD MS FAAAAI
- **10:50**
  - Health Disparities Drive Early Transcriptome Changes  
    William W. Busse, MD FAAAAI
- **11:10**
  - Functional Genomics and Asthma in Minority Populations  
    Esteban G. Burchard, MD
- **11:30**
  - Looking to the Future: Precision Medicine and Health Disparities  
    Juan C. Celedon, MD FAAAAI
  
- **10:45 Introduction**
  - Jordan S. Orange
- **10:50**
  - The Genetics of PIDDs in 2022  
    Ivan Chinn, MD
- **11:30**
  - What To Do With Variants of Unknown Significance?  
    Roshini S. Abraham, PhD D(ABMLI) FAAAAI
  
- **10:45 Introduction**
  - Amal H. Assa’ad, MD FAAAAI
- **10:50**
  - Microbiome Interventions in Food Allergy  
    Rima A. Rachid, MD FAAAAI
- **11:10**
  - Biologics in Food Allergy Treatment  
    Cecilia Berin, PhD
- **11:30**
  - Restoring Immune Tolerance in Food Allergy  
    Talal A. Chatila, MD MSc
  
- **10:45 Introduction**
  - Elisa M. Abrams, MD FRCPC
- **10:50**
  - Remote Management of Asthma, Anaphylaxis and Allergic Diseases: Clinical Outcomes and Patient Satisfaction  
    Marcus S. Shaker, MD MS FAAAAI
- **11:10**
  - Post-Pandemic Asthma and Allergy Management: Cost-Effectiveness and Long-Term Change  
    Matthew J. Greenhawt, MD MBA MSc FAAAAI
- **11:30**
  - Post-Pandemic Asthma, Allergy and Immunology: Putting This All Together for the Sustainability of Our Practices  
    John Oppenheimer, MD FAAAAI
  
- **10:45 Introduction**
  - Margee Louisias, MD MPH
- **10:50**
  - Consequences of Housing Discrimination on the Neighborhood and Home Environment, Allergies, and Asthma  
    Elizabeth C. Matsui, MD MHS FAAAAI
- **11:10**
  - Race-Based Spirometry Corrections and Impact on Brown and Black Patients with Asthma  
    Carla M. Davis, MD FAAAAI
- **11:30**
  - Food Deserts and Availability of Safe and Healthy Foods for Food Allergic Patients in Low-Income Neighborhoods  
    Amaziah Coleman, MD
  
- **10:45 Introduction**
  - Margee Louisias, MD MPH
Saturday Scientific Program

In-Person Symposium

2307 Allergen Immunotherapy (AIT): New Forms and New Data on Old Variants
10:45 am to 12:00 pm
Convention Center, West Building, 300 Level, Room 301A
Credits: 1.25 CME/CE

10:45 Introduction
Amber M. Patterson, MD FAAAAI

10:50 Intralymphatic Immunotherapy: Building Further On The Evidence
Hans J. Hoffmann, PhD

11:10 Passive AIT
Mohamed H. Shamji, BSc Msc PhD FAAAAI

11:30 Bacterial Vaccines and Adjuvants: New Data
Antonio Nieto, MD PhD

11:50 Question & Answer
Amber M. Patterson, MD FAAAAI

In-Person Workshop

2312 Allied Health: Psychosocial Dynamics with Asthma: Challenges, Vulnerabilities, and Supports
10:45 am to 12:00 pm
Convention Center, North Building, 200 Level, Room 225A
Credits: 1.25 CME/CE

10:45 Introduction
Jennifer M. Darr, MSW LCSW

10:50 Psychosocial Dynamics with Asthma: Challenges, Vulnerabilities and Supports
Melissa T. Korenblat-Hanin, ACSW LCSW

11:50 Question & Answer
Jennifer M. Darr, MSW LCSW

In-Person Workshop

2313 Allied Health: Practical Challenges of Eating Potential Food Allergens: Important Nuggets to Chew on
10:45 am to 12:00 pm
Convention Center, North Building, 200 Level, Room 226A
Credits: 1.25 CME/CE

10:45 Introduction
Marion E. Groetch, MS RDN

10:50 Eating Potential Allergens: Important Nuggets to Chew on - Updates in Early Introduction of Foods
Brian C. Schroer, MD FAAAAI

11:10 Half-Baked Considerations and Practical Questions for Eating Food Allergens
Wendy Elverson, RD LDN

11:30 Going Nuts Over Eating Nuts
Douglas P. Mack, MD

11:50 Question & Answer
Marion E. Groetch, MS RDN

COVID Featured Poster Session

12:00 to 1:00 pm
Convention Center, North Building, 100 Level, 120 Concourse
Credits: 0.0 CME/CE
Please refer to the 2022 AAAAI Annual Meeting Mobile App or www.jacionline.org for abstract details.

167-178 COVID Featured Posters

In-Person Course

2405 Career Paths in Allergy and Immunology
12:00 to 1:45 pm
Convention Center, North Building, 200 Level, Room 231A
Credits: 1.75 CME/CE

12:00 Lunch

12:15 Welcome
Rebecca Scherzer, MD FAAAAI

12:25 Academia: Clinical and Q&A
Princess U. Ogbogu, MD FAAAAI

12:30 Academia: Research and Q&A
Nora A. Barrett, MD FAAAAI

12:35 Industry and Q&A
Todd David Green, MD FAAAAI

12:40 Government and Q&A
Kelly D. Stone, MD PhD FAAAAI
Melody C. Carter, MD FAAAAI

12:45 Private Practice and Q&A
Adina Kay Knight, MD FAAAAI

12:50 Break-Out Q&A Session

1:40 Summary
Rebecca Scherzer, MD FAAAAI
<table>
<thead>
<tr>
<th>In-Person Seminar</th>
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<tbody>
<tr>
<td><strong>2503</strong></td>
<td>The Latest and Greatest 2019 Update to the American Thoracic Society (ATS)/European Respiratory Society (ERS) Standardization of Spirometry</td>
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<td>12:30 to 1:30 pm</td>
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<td>Sheraton, Second Level, Laveen A</td>
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<td>Pre-registration and ticket required. Fee: $40</td>
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<td>Credits: 1.00 CME/CE</td>
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<td>Instructors: James M. Quinn, MD FAAAAI, Karla E. Adams, MD</td>
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<th>In-Person Seminar</th>
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<tr>
<td><strong>2504</strong></td>
<td>Management of Pediatric Asthma Exacerbations: From Clinic to Emergency Department (ED) and Beyond</td>
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<td>12:30 to 1:30 pm</td>
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<td>Sheraton, Second Level, Laveen B</td>
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<td>Pre-registration and ticket required. Fee: $40</td>
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<td></td>
<td>Credits: 1.00 CME/CE</td>
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<tr>
<td></td>
<td>Instructors: Nidhya Navanandan, MD</td>
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<th>In-Person Seminar</th>
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<tr>
<td><strong>2505</strong></td>
<td>Recurrent Fever in the Pediatric Patient</td>
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<td>12:30 to 1:30 pm</td>
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<td>Sheraton, Second Level, South Mountain</td>
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<td>Pre-registration and ticket required. Fee: $40</td>
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<td>Credits: 1.00 CME/CE</td>
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<td></td>
<td>Instructors: Morna J. Dorsey, MD MMSc FAAAAI, Eveline Y. Wu, MD MSCR</td>
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<th>In-Person Seminar</th>
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<tr>
<td><strong>2506</strong></td>
<td>Single Cell RNAseq: Finding the Needle in the Haystack</td>
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<td>12:30 to 1:30 pm</td>
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<td>Sheraton, Second Level, Estrella</td>
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<td>Pre-registration and ticket required. Fee: $40</td>
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<td>Credits: 1.00 CME/CE</td>
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<td>Instructors: Gregory Seumois, PhD, Erik R. Wambre, PhD MBE</td>
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<tr>
<th>In-Person Seminar</th>
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<tbody>
<tr>
<td><strong>2509</strong></td>
<td>What Have We Learned from Human Eosinophil “Knockouts”?</td>
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<td>12:30 to 1:30 pm</td>
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<td>Sheraton, Second Level, Camelback A</td>
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<td></td>
<td>Pre-registration and ticket required. Fee: $40</td>
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<td>Credits: 1.00 CME/CE</td>
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<tr>
<td></td>
<td>Instructors: Praveen Akuthota, MD, Anna Kovalszki, MD</td>
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</table>
In-Person Seminar

2510  Before You Call it Mast Cell Activation Syndrome (MCAS): Crucial Steps in Making the Right Diagnosis  
12:30 to 1:30 pm  
Sheraton, Second Level, Camelback B  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  Anne L. Maitland, MD PhD  
Mariana C. Castells, MD PhD FAAAAI

In-Person Seminar

2511  COVID-19 Associated Pulmonary Aspergillosis  
12:30 to 1:30 pm  
Sheraton, Second Level, Alhambra  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  Paul E. Verweij, MD PhD

In-Person Seminar

2512  Successful Approaches to Eosinophilic Esophagitis (EoE): Long-Term Management Dilemmas  
12:30 to 1:30 pm  
Sheraton, Second Level, Paradise Valley  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  Fred Dan Atkins, MD FAAAAI  
Emily C. McGowan, MD PhD FAAAAI

In-Person Symposium

2522  National Institute of Environmental Health Sciences (NIEHS): Molecular Characterization of Allergens and Specific IgE Antibodies  
12:30 to 1:45 pm  
Convention Center, North Building, 100 Level, Room 120D  
Credits: 1.25 CME/CE  
12:30  Introduction  
Darryl C. Zeldin, MD

12:35  Are There Common Properties of Allergens?  
Geoffrey A. Mueller, PhD

12:55  Human Monoclonal IgE Antibodies to Allergens  
Anna Pomes, PhD FAAAAI

1:15  Structural Characteristics of Protective Antibodies  
Sarita U. Patil, MD FAAAAI

1:35  Question & Answer  
Darryl C. Zeldin, MD

In-Person Symposium

2521  National Institute of Allergy and Infectious Diseases (NIAID): New Insights into the Immunoregulation of Atopic Dermatitis  
12:30 to 1:45 pm  
Convention Center, North Building, 100 Level, Room 120A  
Credits: 1.25 CME/CE  
12:30  Introduction  
Amanda K. Rudman-Spergel, MD

12:35  Novel Regulators of Filaggrin Expression: Insights from the MPAACH Cohort  
Gurjit K. Khurana Hershey, MD PhD FAAAAI

12:55  The Effect of IL4Ra Blockade on the Host-microbe Interface in Atopic Dermatitis  
Lisa A. Beck, MD FAAAAI

1:15  The Skin Microbiome and Targeted Bacteriotherapy in Atopic Dermatitis  
Tissa R. Hata, MD

1:35  Question & Answer  
Amanda K. Rudman Spergel, MD

In-Person Debate

2551  Evidence Indicates That Patients Taking Beta Blockers Are at Increased Risk for More Serious Anaphylaxis  
12:30 to 1:30 pm  
Convention Center, West Building, 300 Level, Room 301A  
Credits: 1.00 CME/CE  
12:30  Introduction and Question & Answer  
John Oppenheimer, MD FAAAAI

12:35  Beta Blockers Increase the Risk of Serious Anaphylaxis  
David M. Lang, MD FAAAAI

1:00  Beta Blockers Do Not Increase the Risk of Serious Anaphylaxis  
Paul A. Greenberger, MD FAAAAI

In-Person Debate

2552  Genetic Testing for All: Putting the Cart Before the Horse?  
12:30 to 1:30 pm  
Convention Center, West Building, 300 Level, Room 301C  
Credits: 1.00 CME/CE  
12:30  Introduction and Question & Answer  
Sergio Rosenzweig, MD

12:35  Functional Testing First  
Jennifer Heimall, MD FAAAAI

1:00  Geriatric Testing for All  
Ivan Chinn, MD
**In-Person Debate**

**2553**  
**Patients with Severe Asthma Should Be Permitted to Receive Allergen Immunotherapy**  
12:30 to 1:30 pm  
Convention Center, West Building, 300 Level, Room 301D  
Credits: 1.00 CME/CE  
12:30 Introduction and Question & Answer  
Christopher Calabria, MD FAAAAI  
12:30 Allergen Immunotherapy Can Safely Be Prescribed for Well-Controlled Severe Asthmatics  
Tolly Epstein, MD MS FAAAAI  
1:00 Allergen Immunotherapy Should Not Be Prescribed for Severe Asthmatics  
Mike Tankersley, MD MBA FAAAAI

**In-Person Interesting Case Workshop**

**2557**  
**Interesting Case Workshop**  
12:30 to 1:45 pm  
Convention Center, North Building, 100 Level, Room 121A  
Credits: 1.25 CME/CE  
Moderator: Canting Guo, MD  
12:35 A Novel Homozygous Frameshift Mutation in FERMT3 Leads to Leukocyte Adhesion Deficiency Type 3  
Nouf Alsaaati, MBBS MMSc  
12:45 Canakinumab-Associated COVID-19 Recovery and Resolving Inflammatory Bowel-Lung-Skin Disease in XL-CGD  
Natalia S. Fernandez Davila, MD  
12:55 An Atypical Case of Heiner Syndrome  
Brian Goodman, MD  
1:05 Complement Factor I Deficiency Causing Fulminant Inflammatory Meningoencephalitis  
Whitney Reid, MD  
1:15 Imatinib Use in Severe Bullous Cutaneous Mastocytosis Complicated by Recurrent Anaphylaxis  
Ban Wang, MD

**In-Person Oral Abstract Session**

**2601**  
**What’s New in Drug Allergy**  
2:00 to 3:15 pm  
Convention Center, North Building, 100 Level, Room 120A  
Credits: 1.25 CME/CE  
Moderators: Miguel A. Park, MD  
Anna R. Wolfson, MD  
2:05 Screening for Drug-Dependent Antibodies to Prevent Complications in Patients Receiving Oxaliplatin Desensitization  
George X. Huang, MD  
2:15 FCERIA Single Nucleotide Polymorphisms Associated with Nonsteroidal Anti-Inflammatory Drug-Induced Acute Urticaria/Angioedema  
Raquel Jurado-Escobar  
2:25 Outcomes of Penicillin Allergy Testing in Children with High-Risk Reaction Histories  
Susan S. Xie, MD  
2:35 Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in the FDA Adverse Event Reporting System (FAERS) from 1995–2020  
Matthew S. Krantz, MD  
2:45 Obstetric Penicillin Allergy Evaluations  
Soma Stevens, MD

**In-Person Oral Abstract Session**

**2602**  
**Biologic Therapy in Asthma**  
2:00 to 3:15 pm  
Convention Center, North Building, 100 Level, Room 120B  
Credits: 1.25 CME/CE  
Moderators: Alan P. Baptist, MD MPH FAAAAI  
Sharmilee Nyenhuis, MD FAAAAI  
2:05 Tezepelumab Reduces Exacerbations Across All Seasons in Patients with Severe, Uncontrolled Asthma: Results from the Phase 3 NAVIGATOR Study  
Flavia C. Hoyte, MD  
2:15 Long-Term Efficacy of Dupilumab in Patients With Asthma With and Without Comorbid Chronic Rhinosinusitis/Nasal Polypsis  
Andrew Menzies-Gow, MD  
2:25 Efficacy of Dupilumab in the Prevention of Seasonal Exacerbations in Patients With and Without Evidence of an Allergic Asthma Phenotype  
Anju T. Peters, MD MCSI FAAAAI  
2:35 Post-hoc Analyses of Lebrikizumab Phase 3 Trials (LAVOLTA I and II): Enhanced Efficacy in Patients With Prior Exacerbations and Elevated Baseline FENO or Blood Eosinophilia  
Ellen R. Sher, MD FAAAAI  
2:45 Omalizumab Improves Outcomes in Patients with Nasal Polyposis Regardless of Their Asthma Status  
Philippe Gevaert, MD

**In-Person Oral Abstract Session**

**2603**  
**Caring for Patients with Immunodeficiency Disorders During the COVID 19 Pandemic**  
2:00 to 3:15 pm  
Convention Center, West Building, 300 Level, Room 301C  
Credits: 1.25 CME/CE  
Moderators: Benjamin T. Prince, MD MCSI FAAAAI  
Ivan Chinn, MD  
2:05 Patients with Primary Antibody Deficiency Syndromes Show Attenuated Neutralizing Activity of SARS-CoV-2 Following COVID-19 Vaccination  
Alexa Doss, MD  
2:15 SARS-CoV-2 Antibody Profile of Immune Globulin Preparations  
Hyun J. Park, MD PhD  
2:25 COVID Antibody Production Following Vaccination in Immunocompromised Subjects- A Quality Improvement Project  
Sara M. Ghannam, MD  
2:35 Interleukin-2: An Accurate Biomarker for Rapid Testing of SARS-CoV-2 Vaccine-induced T cell Immune Responses in Whole Blood  
Maria A. Oliver  
2:45 T Cell Responses to SARS-CoV-2 Vaccination and Infection in Antibody Deficiency Diseases  
Alex Wonnaparhown, MD
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<tr>
<th>In-Person Oral Abstract Session</th>
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<tr>
<td><strong>2604</strong></td>
<td><strong>2606</strong></td>
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<tr>
<td>The Intersection of the Environment and the Airways</td>
<td>Implementing Guidelines and Promoting Quality Care for Drug Allergy Assessment</td>
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<td>2:00 to 3:15 pm</td>
<td>2:00 to 3:15 pm</td>
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<td>Convention Center, North Building, 100 Level, Room 121A</td>
<td>Convention Center, North Building, 100 Level, Room 122A</td>
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<td>Credits: 1.25 CME/CE</td>
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<tr>
<td>Moderators: Elizabeth C. Matani, MD MHS FAAAAI Perolita Permal, MD FAAAAI</td>
<td>Moderator: Qura Tul Ain, MD FAAAAI</td>
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<tr>
<td>2:05 Development of a Mobile Naturalistic Exposure Chamber for Cat Dander</td>
<td>2:00 Implementing a Hospital-Wide Inpatient Beta-Lactam Allergy Guideline Leads to Consistent Increases in Beta-Lactam Use</td>
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<tr>
<td>Stefan M. Van de Mosselaer, BASc</td>
<td>Iris M. Otani, MD FAAAAI</td>
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<tr>
<td>2:15 Coding For Indoor Environmental Exposures In Pediatric Patients With Respiratory Allergies: A Quality Improvement Project</td>
<td>2:15 Reducing Penicillin Allergy Relabel Rate with Targeted Interventions in the Inpatient and Outpatient Settings</td>
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<tr>
<td>Safia F. Nawaz, MD</td>
<td>Jordana F. Brown</td>
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<td>2:25 A Real-World Digital Study Evaluating Associations Between Levels of Allergens and Air Pollutants and Severity and Frequency of Symptoms of Allergic Rhinitis (the DSApp Study)</td>
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<tr>
<td>David B. Peden, MD MS FAAAAI</td>
<td>2:30 Outcomes of Infants Born to Group B Streptococcus-Positive Mothers with a Reported Penicillin Allergy</td>
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<td>2:35 Seasonal Effect of Radon Exposure on Fractional Exhaled Nitric Oxide</td>
<td>Laura A. Wang, MD</td>
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<tr>
<td>Tina M. Banzon, MD</td>
<td>2:45 A Qualitative Analysis of Antibiotic Allergy Assessment by Pharmacy and Antimicrobial Stewardship Team Members at a Veterans Hospital</td>
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<td>2:45 Healthy Human 3D Lung Organoids Respond Differentially To Environmental Exposures</td>
<td>Sujani S. Kakumanu, MD</td>
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<tr>
<td>Rohit Guarav, PhD FAAAAI</td>
<td>3:00 Characterization of Pediatric Inpatient Penicillin Allergy Documentation and Evaluation</td>
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<tr>
<td><strong>2605</strong></td>
<td><strong>2607</strong></td>
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<tr>
<td>On Eosinophilic Esophagitis Inflammation and Clinical Markers and Risk Factors</td>
<td>Rhinitis, Allergens and Immunotherapy</td>
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<td>2:00 to 3:15 pm</td>
<td>2:00 to 3:15 pm</td>
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<tr>
<td>Convention Center, North Building, 100 Level, Room 120D</td>
<td>Convention Center, West Building, 300 Level, Room 301A</td>
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<td>Credits: 1.25 CME/CE</td>
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<td>Moderators: Melanie A. Ruffner, MD PhD Antonella Cianferoni, MD PhD FAAAAI</td>
<td>Moderator: Amber M. Patterson, MD FAAAAI</td>
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<tr>
<td>2:05 A Connection Found Between Mast Cells and Pain in Eosinophilic Esophagitis</td>
<td>2:05 Novel Machine Learning-Led Discovery of Adjuvant Drug Candidate for Allergen Immunotherapy Using Synthetic Toll-Like Receptor 2/6 Agonist</td>
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<tr>
<td>Simin Zhang, MD</td>
<td>Lily YD. Wu</td>
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<tr>
<td>2:15 Do Mast Cells Reduce Response to Proton Pump Inhibitors in Pediatric Eosinophilic Esophagitis?</td>
<td>2:15 Epidemiology of Fungal Allergen Sensitization Across the United States of America</td>
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<tr>
<td>Parama Bose, MD</td>
<td>Matthew C. Robinson</td>
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<tr>
<td>2:25 Perinatal Factors Increase Risk of Eosinophilic Esophagitis – A Nationwide Case-Control Study</td>
<td>2:25 Induction of Allergen-Neutralizing IgG4 and IgA Blocking Antibodies Following Subcutaneous Immunotherapy with Mannan-Conjugated Birch Pollen Allergoid</td>
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<tr>
<td>Gencer Kurt, MD</td>
<td>Alistair S. Devine</td>
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<tr>
<td>2:35 Dysphagia Days as a Clinical Marker of EoE Treatment Response in Steroid-Refactory Patients</td>
<td>2:35 Associations between Early Life Environmental Exposures and Rhinitis Trajectories in an Urban Birth Cohort</td>
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<tr>
<td>Ikuo Hirano, MD</td>
<td>Sima K. Ramratnam, MD MPH</td>
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<tr>
<td>2:45 The Minimally Invasive 1-Hr Esophageal String Test (EST)</td>
<td>2:45 Surface Expression of Major Allergens on Plant-Made eBioparticle Combines Hypo-Allergenicity with Potent Immune Activation</td>
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<tr>
<td>Monitors Changes in Mucosal Inflammation in Pediatric and Adult Eosinophilic Esophagitis Patients During Treatment</td>
<td>Stefanie Busold, PhD Student</td>
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<td>Steven J. Ackerman, PhD</td>
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Saturday, February 26

Saturday Scientific Program

In-Person Oral Abstract Session

2608  Mast Cells and Eosinophils: Heterogeneity, Mechanisms and Therapeutic Approaches
2:00 to 3:15 pm
Convention Center, North Building, 200 Level, Room 221A
Credits: 1.25 CME/CE
Moderator: Roma Schmi, PhD FAAAAI
2:05  Insights into the Heterogeneity of Constitutive and Inducible Mast Cells in Inflammation and Homeostasis
Tamara Salloum, PhD
2:15  Design and Optimization of ROS- Reactive Nanocarriers for Controlled Release of Dexamethasone and Real-Time Inhibition of Mast Cell Activation
Marianna Kukla, PhD
2:25  Type 2 and Type 1 Mouse and Human Eosinophils
Christopher D. Nazaroff, PhD
2:35  IRF1 is a Major Regulatory Transcription Factor for Type 2 and Type 1 Immune Responses in Eosinophils
Alissa Lynch
2:45  Esophageal Mast cells in Eosinophilic Esophagitis Are Heterogeneous, Dynamically Activated and Locally Proliferate
Netali Ben-Baruch Morgenstern, PhD

In-Person Keynote

2701  The Importance of Diversity in Academia and Team Performance
3:30 to 4:30 pm
Convention Center, North Building, Lower Level, Hall 4
Credits: 1.00 CME/CE
3:30  Introduction
Giselle Mosnaim, MD MS FAAAAI
3:35  The Importance of Diversity in Academia and Team Performance
Hannah Valantine MD

In-Person Workshop

2611  Late Breaking Oral Abstract #1
2:00 to 3:15 pm
Convention Center, North Building, 200 Level, Room 225A
Credits: 1.25 CME/CE
Moderator: TBD
2:05  Dupilumab Significantly Reduces Itch and Hives in Patients with Chronic Spontaneous Urticaria: Results From a Phase 3 Trial (LIBERTY-CSU CUPID Study A)
Marcus Maurer, MD
2:15  Dupilumab Improves Clinical and Histologic Aspects of Disease in Adult and Adolescent Patients With Eosinophilic Esophagitis at Week 24: Results from Part B of the 3-Part LIBERTY EoE TREAT Study
Marc E. Rothenberg, MD PhD FAAAAI
2:25  Successfully Reducing Severe Asthma Exacerbations and Improving Asthma Control in a Pragmatic Study in African American/Black (AA/B) and Hispanic/Latinx (H/L) Patients with Moderate-Severe Asthma (PREPARE)
Juan Carlos Cardet, MD
2:35  Anaphylaxis After COVID-19 Vaccination: A Registry-Based Study
Jordan Jaggers, MD
2:45  Urticaria and/or Angioedema Events Secondary to Mrna COVID-19 Vaccinations - Updates from a National Case Registry
Sara Anvari, MD MSc
<table>
<thead>
<tr>
<th>In-Person Workshop</th>
<th>2803</th>
<th>Embracing the Continuous Assessment Program (CAP) Together as a Team: Diplomates, ABAI and AAAAI</th>
<th>4:45 to 6:00 pm</th>
<th>Convention Center, North Building, 100 Level, Room 121A</th>
<th>Credits: 1.25 CME/CE</th>
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<tbody>
<tr>
<td><strong>Introduction</strong></td>
<td>Theodore M. Freeman, MD FAAAAI</td>
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<tr>
<td>4:50</td>
<td>CAP Program Updates</td>
<td>Wanda Phipatanakul, MD MS FAAAAI</td>
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<td>5:10</td>
<td>Understanding CAP’s Five Year Cycle Scoring</td>
<td>Michael R. Nelson, MD PhD FAAAAI</td>
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<td>5:30</td>
<td>Tracking Your CAP Progress</td>
<td>Giselle Mosnaim, MD MS FAAAAI</td>
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<td>5:50</td>
<td>Question &amp; Answer</td>
<td>Theodore M. Freeman, MD FAAAAI</td>
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<tr>
<th>In-Person Workshop</th>
<th>2804</th>
<th>Developing a Chemotherapy and Biologics Desensitization Program</th>
<th>4:45 to 6:00 pm</th>
<th>Convention Center, West Building, 300 Level, Room 301A</th>
<th>Credits: 1.25 CME/CE</th>
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<tbody>
<tr>
<td><strong>Introduction</strong></td>
<td>Autumn C. Guyer, MD FAAAAI</td>
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<tr>
<td>4:50</td>
<td>Developing a Chemotherapy and Biologics Desensitization Program</td>
<td>Panelists: Aleena Banerji, MD FAAAAI, David I. Hong, MD FAAAAI</td>
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<tr>
<td>5:50</td>
<td>Question &amp; Answer</td>
<td>Autumn C. Guyer, MD FAAAAI</td>
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<tr>
<th>In-Person Workshop</th>
<th>2805</th>
<th>Problem Based Learning (PBL) Case: An Adult with Severe Uncontrolled Asthma or Is It Asthma/Chronic Obstructive Pulmonary Disease (COPD) Overlap (ACO)?</th>
<th>4:45 to 6:00 pm</th>
<th>Convention Center, North Building, 200 Level, Room 232A</th>
<th>Credits: 1.25 CME/CE</th>
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<tbody>
<tr>
<td><strong>PBL Case Presentation</strong></td>
<td>Ray S. Davis, MD FAAAAI</td>
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<td>5:25</td>
<td>Differential Diagnosis of Severe Uncontrolled Asthma vs ACD</td>
<td>Monica Kraft, MD FAAAAI</td>
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<td>5:40</td>
<td>Update of the GOLD Guidelines and Their Application to ACO</td>
<td>Monica Kraft, MD FAAAAI</td>
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<td>5:55</td>
<td>Question &amp; Answer</td>
<td>Don A. Bukstein, MD FAAAAI</td>
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<tr>
<th>In-Person Workshop</th>
<th>2806</th>
<th>Team Trivia: Learning About Janus Tyrosine Kinase (JAK)–Signal Transducer and Activator of Transcription (STAT) Pathways and JAK Inhibitors</th>
<th>4:45 to 6:00 pm</th>
<th>Convention Center, North Building, 200 Level, Room 231A</th>
<th>Credits: 1.25 CME/CE</th>
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<tr>
<td><strong>Introduction</strong></td>
<td>Theodore M. Freeman, MD FAAAAI</td>
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<td>4:50</td>
<td>Adverse Effects of JAKinib Therapy</td>
<td>Mildred Kwan, MD PhD FAAAAI</td>
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<td>5:10</td>
<td>JAK-STAT Pathways and Use in Inflammatory Conditions</td>
<td>Lisa R. Forbes Satter, MD FAAAAI</td>
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<td>5:30</td>
<td>JAKinib Therapy in the Treatment of Rheumatic Disease</td>
<td>Teresa K. Tarrant, MD FAAAAI</td>
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<td>5:50</td>
<td>Question &amp; Answer</td>
<td>Mildred Kwan, MD PhD FAAAAI</td>
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<tr>
<th>In-Person Workshop</th>
<th>2807</th>
<th>Eosinophilic Gastrointestinal Diseases (EGIDs) Below the Esophagus: Emerging Data on Prevalence, Diagnosis and Treatment Advances</th>
<th>4:45 to 6:00 pm</th>
<th>Convention Center, North Building, Lower Level, Hall 4</th>
<th>Credits: 1.25 CME/CE</th>
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<tbody>
<tr>
<td><strong>Introduction</strong></td>
<td>Fred Dan Atkins, MD FAAAAI</td>
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<td>4:50</td>
<td>What Is the Prevalence of EGIDs Below the Esophagus, How Are They Diagnosed, and Why Are We Missing Them?</td>
<td>Mirna Chehade, MD MPH FAAAAI</td>
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<td>5:30</td>
<td>What Are the Current and Emerging Therapy Options for EGID Below the Esophagus?</td>
<td>Ikuko Hirano, MD</td>
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<td>5:50</td>
<td>Question &amp; Answer</td>
<td>Fred Dan Atkins, MD FAAAAI</td>
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<tr>
<th>In-Person Workshop</th>
<th>2808</th>
<th>Food Allergy on the Threshold</th>
<th>4:45 to 6:00 pm</th>
<th>Convention Center, West Building, 300 Level, Room 301C</th>
<th>Credits: 1.25 CME/CE</th>
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<tr>
<td><strong>Introduction</strong></td>
<td>Brian P. Vickery, MD FAAAAA</td>
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<tr>
<td>4:50</td>
<td>Estimating Food Allergy Risks Through Individual and Population Thresholds</td>
<td>Joseph L. Baumert, PhD</td>
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<tr>
<td>5:10</td>
<td>Characterizing Severity in Food Allergy and Its Causes</td>
<td>Paul J. Turner, MD PhD</td>
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<td>5:30</td>
<td>Practical Implications of Thresholds and Augmentation Factors for the Clinician</td>
<td>Wayne G. Sheffler, MD PhD FAAAAA</td>
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<tr>
<td>5:50</td>
<td>Question &amp; Answer</td>
<td>Brian P. Vickery, MD FAAAAA</td>
<td></td>
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</tr>
</tbody>
</table>
Saturday Scientific Program

In-Person Workshop

2809  Subcutaneous Immunotherapy: Cross-Reactivity, Extract Stability and Optimum Dosing

Convention Center, West Building, 300 Level, Room 301D
Credits: 1.25 CME/CE

4:45  Introduction
Punita Ponda, MD FAAAAI

4:50  A Review of the Math-Free Guides Recently Published for Allergen Doses and Glycerin Concentrations
Harold S. Nelson, MD FAAAAI

5:10  Case Scenarios and How to Formulate a Patient’s Immunotherapy Prescription
Christopher Calabria, MD FAAAAI

5:30  Cross-Reactivity Patterns and Allergen Stability Relevant to Prescribing Allergen Immunotherapy
Tolly Epstein, MD MS FAAAAI

5:50  Question & Answer
Punita Ponda, MD FAAAAI

In-Person Workshop

2810  The Bullseye on Prostaglandins: Targeting Asthma Therapy

Convention Center, North Building, 100 Level, Room 120D
Credits: 1.25 CME/CE

4:45  Introduction
Katherine N. Cahill, MD FAAAAI

4:50  PGE2 Regulation (and Dysregulation) of Mast Cell Function
Joshua A. Boyce, MD FAAAAI

5:10  Prostaglandin Regulation of ILC2 Function
Taylor A. Doherty, MD FAAAAI

5:30  Prostaglandin I2 Signaling Licenses Treg Suppressive Function and Prevents Pathogenic Reprogramming
Stokes Peebles, MD FAAAAI

5:50  Question & Answer
Katherine N. Cahill, MD FAAAAI

In-Person Workshop

2811  Allergic Disease Triggered by Cannabis Production and Consumption

Convention Center, North Building, 100 Level, Room 122A
Credits: 1.25 CME/CE

4:45  Introduction
Guillermo Guidos, MD

4:50  Spectrum of Allergic Disease to Cannabis
Ine I. Decuyper, MD PhD

5:10  Establishing the Diagnosis of Cannabis Allergy
Karin Pacheco, MD MSPH FAAAAI

5:30  Exposures in Marijuana Grow Operations and Stores
William S. Silvers, MD FAAAAI

5:50  Question & Answer
Guillermo Guidos, MD

In-Person Poster Discussion Workshops

2812  Novel Mechanisms of Type 2 Airway Inflammation

Convention Center, North Building, 100 Level, Room 131A
Credits: 1.25

4:45  Poster Viewing

5:25  Single-Cell RNA-Seq Analysis Reveals Cell-type Specific Contribution of Tet1 to Allergic Airway Inflammation in Lung Epithelium
Hong Ji, PhD

5:30  Allergen-Induced Extracellular Release of Self-DNA Promotes Innate Type 2 Immune Responses in the Lung
Koji Iijima, PhD

5:35  Bcl6-expressing FoxP3+ T cells Promote Production of Antigen-Specific IgE in Response to Airborne Ragweed Pollen Exposure
Koji Matsumoto, MD PhD

5:40  Alveolar Macrophage P2Y6 Receptor Signaling Regulates NFATC2 Activation to Enhance Protective Innate Immune Responses
Jun Nagai, PhD

5:45  Airway exposure to diesel exhaust particles and urban particulate matter induces allergic sensitization to peanut via distinct mechanisms
Timothy P. Moran, MD PhD FAAAAI
EAACI is eager to welcome you to the EAACI Hybrid Congress 2022, which will this year be held in Prague, Czech Republic and online on 1-3 July 2022. Following up on the hugely successful first EAACI hybrid congress held in Krakow, Poland last year, we will provide you again with the flexible format, which enables joining us either onsite in the picturesque, historical city of Prague or attend from the comfort of your homes.

The motto this year corresponds to the current research priority of our Academy: the One Health Approach. With this contemporary way of thinking we bring to your attention that the health of our environment, animals and plants is deeply linked to human health. Within the European Commission, the World Health Organisation and other key health opinion leaders, this approach has gained immense momentum, with new initiatives, research and multidisciplinary collaborations carving out an obvious and relevant space for us to join in with our expertise.

A multitude of common factors seems to be responsible for allergic diseases development, duration, and severity in all mammalian species. These include the effects of global warming, climate change, and air pollution which have already become clear; in addition to novel species of plants and animals in geographical regions where they have not been resident before; differences in blooming seasons; changes in the allergenicity of molecules due to CO2, ozone, or pollution contributing fine- and ultra-fine particles; the environmental hygiene status; body hygiene; diet and food composition; nutritional status; food processing; pollution of water, air, and environment; medications such as antibiotics or acid-suppressing drugs, the epithelial barrier hypothesis and many more. All these factors may have a varying influence on development and outcome of allergic diseases. Therefore, to successfully combine them, a well-coordinated approach both in humans and in animals is necessary.

There is no better place to bring all these minds together than the EAACI Hybrid Congress 2022, which will provide three days of deep knowledge sharing, world-class lectures by our experts, and much more.

We look forward to seeing all of you at the EAACI Hybrid Congress 2022!
Sunday At-A-Glance

Sunday, February 27

6:00 AM
Registration
6:30 am - 5:00 pm

7:00 AM
Seminars (Sheraton)
7:00 - 8:00 am
Allied Health Seminar
7:00 - 8:00 am

7:00 AM
Plenary Session
8:15 - 9:45 am

9:00 AM
Poster Presentations & Case Study Posters
9:45 - 10:45 am

10:00 AM
Exhibit Hall
9:45 am - 3:15 pm

11:00 AM
Symposia
10:45 am - 12:00 pm
Allied Health Symposium
10:45 am - 12:00 pm

12:00 PM
Seminars (Sheraton) & Pro/Con Debates
12:30 - 1:30 pm
Symposia & Interesting Case Workshop
12:30 - 1:45 pm

1:00 PM
Oral Abstracts
2:00 - 3:15 pm

2:00 PM

3:00 PM

4:00 PM

5:00 PM

6:00 PM
Featured Posters & Reception
4:45 - 6:15 pm

Asthma Educator Course for Preparation to Become a Certified Educator: Day One
12:30 - 6:00 pm

Interest Section Forums
3:30 - 4:30 pm

American Academy of Allergy Asthma & Immunology
ANNUAL MEETING
PHOENIX, AZ - FEBRUARY 25-28, 2022
### Sunday Scientific Program

#### In-Person Seminar

<table>
<thead>
<tr>
<th>Seminar Code</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Fee</th>
<th>Credits</th>
<th>Instructors</th>
</tr>
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<tbody>
<tr>
<td>3001</td>
<td>Air Sampling and Analysis: Current Approaches and Future Developments</td>
<td>7:00 to 8:00 am</td>
<td>Sheraton, Second Level, Ahwatukee A</td>
<td>$40</td>
<td>1.00</td>
<td>Estelle Levetin, PhD FAAAAI, W. Elliot Horner, PhD LEED AP FAAAAI</td>
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<tr>
<td>3002</td>
<td>Aspirin Challenges and Desensitizations for Asthma Control in Aspirin Exacerbated Respiratory Disease (AERD)</td>
<td>7:00 to 8:00 am</td>
<td>Sheraton, Second Level, Ahwatukee B</td>
<td>$40</td>
<td>1.00</td>
<td>Elina Jerschow, MD FAAAAI, John V. Bosso, MD FAAAAI</td>
</tr>
<tr>
<td>3003</td>
<td>Problem-Based Learning (PBL): The Importance of Digital Medicine in the Treatment of Severe Asthma/Asthma and Chronic Obstructive Pulmonary Disease (COPD)</td>
<td>7:00 to 8:00 am</td>
<td>Sheraton, Second Level, Laveen A</td>
<td>$40</td>
<td>1.00</td>
<td>Gerald B. Lee, MD FAAAAI, Sunit P. Jariwala, MD</td>
</tr>
<tr>
<td>3004</td>
<td>Characteristics and Management of Pediatric Severe Asthma: An Algorithmic Approach</td>
<td>7:00 to 8:00 am</td>
<td>Sheraton, Second Level, Laveen B</td>
<td>$40</td>
<td>1.00</td>
<td>Stanley J. Szefler, MD FAAAAI, Ronina Covar, MD FAAAAI</td>
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<tr>
<td>3005</td>
<td>Chronic Granulomatous Disease (CGD) in a New World</td>
<td>7:00 to 8:00 am</td>
<td>Sheraton, Second Level, South Mountain</td>
<td>$40</td>
<td>1.00</td>
<td>Danielle Arnold, MD FAAAAI, Benjamin T. Prince, MD MCSI FAAAAI</td>
</tr>
<tr>
<td>3006</td>
<td>The Eosinophilic Esophagitis (EoE) Patient in Real-World Practice: Is There a Role for Combination Therapies?</td>
<td>7:00 to 8:00 am</td>
<td>Sheraton, Second Level, Estrella</td>
<td>$40</td>
<td>1.00</td>
<td>Antonella Cianferoni, MD PhD FAAAAI, Evan S. Dellon, MD FAAAAI</td>
</tr>
<tr>
<td>3007</td>
<td>The Science Behind New Biomarkers and Diagnostics in Food Allergy</td>
<td>7:00 to 8:00 am</td>
<td>Sheraton, Second Level, Maryvale A</td>
<td>$40</td>
<td>1.00</td>
<td>Alexandra F. Santos, MD PhD, Sarita U. Pab, MD FAAAAI</td>
</tr>
<tr>
<td>3008</td>
<td>Heterogeneity of Eosinophils: Treatment and Management Strategies</td>
<td>7:00 to 8:00 am</td>
<td>Sheraton, Second Level, Camelback A</td>
<td>$40</td>
<td>1.00</td>
<td>Paneez Khoury, MD FAAAAI, Princess U. Ogbogu, MD FAAAAI</td>
</tr>
<tr>
<td>3009</td>
<td>What to Do with an Abnormal Newborn Screen</td>
<td>7:00 to 8:00 am</td>
<td>Sheraton, Second Level, Camelback B</td>
<td>$40</td>
<td>1.00</td>
<td>Jennifer Heimall, MD FAAAAI, Roshini S. Abraham, PhD FAAAAI</td>
</tr>
</tbody>
</table>

**Fee:** Pre-registration and ticket required.

**Credits:** 1.00 CME/CE
## Sunday Scientific Program

### In-Person Seminar

**3011**  Contact Dermatitis Through the Ages: Infants to Seniors  
7:00 to 8:00 am  
Sheraton, Second Level, Paradise Valley  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  Marcella R. Aquino, MD FAAAAI  
Ellen R. Sher, MD FAAAAI  

**3013**  Ocular Allergies: New Delivery Concepts for Anterior Ocular Delivery of Treatment  
7:00 to 8:00 am  
Sheraton, Second Level, Alhambra  
Pre-registration and ticket required. Fee: $40  
Credits: 1.00 CME/CE  
Instructors:  Leonard Bielory, MD FAAAAI  
Bryan L. Martin, DO FAAAAI  

### In-Person Plenary

**3101**  Anaphylaxis: Novel Mechanisms and Emerging Therapeutic Interventions  
8:15 to 9:45 am  
Convention Center, North Building, Lower Level, Hall 4  
Credits: 1.50 CME/CE  

8:20  Brunt's Tyrosine Kinase Inhibition in Prevention of IgE-Mediated Anaphylaxis  
Bruce S. Bochner, MD FAAAAI  

8:50  Sialylation of IgE as a Determinant of Allergic Pathogenicity  
Robert Anthony, PhD  

9:20  Immediate Reactions to mRNA Vaccines  
Kimberly G. Blumenthal, MD MSc FAAAAI  

### Poster Session

**9:45 to 10:45 am**  
Convention Center, North Building, Lower Level, Hall 4  
Credits: 0.0 CME/CE/CE  
Please refer to the 2022 AAAAI Annual Meeting Mobile App or www.jacionline.org for abstract details.  

- **223-227**  Novel Mechanisms of Type 2 Airway Inflammation Discussion Posters  
- **228-245**  Adverse Reactions to Beta-lactam Antibiotics  
- **246-277**  Asthma/Chronic Cough Epidemiology, Intervention and Public Health  
- **278-299**  Immunologic Mechanisms in Atopy, Mucosal Immunology and Vaccines  
- **300-305**  Intersection of Atopy and Microbes  
- **306-356**  Oral Food Challenges and Diagnostic Testing  
- **357-376**  Health Care Disparities, Epidemiology and Quality of Life  
- **377**  Rhinosinusitis and Biologics  
- **378-383**  Rhinosinusitis Pathophysiology  
- **384-399**  Biomarkers of Allergic and Inflammatory Diseases  

**CA43-CA75**  Sunday Case Reports  

### In-Person Symposium

**3301**  World Allergy Forum: Updates on Anaphylaxis from the World Allergy Organization (WAO), Mario Sánchez Borges Memorial Symposium  
10:45 to 12:00 pm  
Convention Center, North Building, 100 Level, Room 120B  
Credits: 1.25 CME/CE  

10:45  Introduction  
Motohiro Ebisawa, MD PhD FAAAAI  

10:45  Introduction  
Giselle Mosnaim, MD MS FAAAAI  

10:50  Important Updates from the WAO Anaphylaxis Guidance  
Victoria Cardona, MD PhD  

11:10  COVID-19 Vaccination and Anaphylaxis: Where Do We Stand?  
Paul J. Turner, MD PhD  

11:30  Anaphylaxis in ICD-11 - A New Appreciation of Allergic Conditions  
Luciana Kase Tanno, MD PhD  

11:50  Question & Answer  
Giselle Mosnaim, MD MS FAAAAI  

11:50  Question & Answer  
Motohiro Ebisawa, MD PhD FAAAAI
## In-Person Symposium

### 3302 A New Age of Allergic Skin Diseases
10:45 to 12:00 pm  
**Convention Center, North Building, Lower Level, Hall 4**  
Credits: 1.25 CME/CE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45</td>
<td>Introduction</td>
<td>Ellen R. Sher, MD FAAAAI</td>
</tr>
<tr>
<td>10:50</td>
<td>Advances in Therapeutics for Atopic Dermatitis</td>
<td>Emma Guttman-Yassky, MD PhD</td>
</tr>
<tr>
<td>11:10</td>
<td>The Janus Kinase (JAK) Inhibitor Story</td>
<td>Mark Boguniewicz, MD FAAAAI</td>
</tr>
<tr>
<td>11:30</td>
<td>Precision Approaches to Allergic Skin Diseases</td>
<td>Donald Y.M. Leung, MD PhD FAAAAI</td>
</tr>
<tr>
<td>11:50</td>
<td>Question &amp; Answer</td>
<td>Ellen R. Sher, MD FAAAAI</td>
</tr>
</tbody>
</table>

### 3303 Uncovering the Links Between Toxic Stress and Asthma: Implications for Prevention, Disparities and Treatment
10:45 am to 12:00 pm  
**Convention Center, West Building, 300 Level, Room 301A**  
Credits: 1.25 CME/CE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Introduction</td>
<td>Maria Luz L. Lara-Marquez, MD PhD</td>
</tr>
<tr>
<td>10:50</td>
<td>Mechanisms Underlying Prenatal Stress and Early Programming of Childhood Asthma</td>
<td>Rosalind J. Wright, MD MPH</td>
</tr>
<tr>
<td>11:10</td>
<td>Environmental Stress: A Key Predictor of Racial and Socioeconomic Disparities in Asthma Morbidity</td>
<td>Bridgette Jones, MD MS FAAAAI</td>
</tr>
<tr>
<td>11:30</td>
<td>Stress Management Strategies and Their Impact on Asthma Outcomes</td>
<td>Hemant Sharma, MD MHS FAAAAI</td>
</tr>
<tr>
<td>11:50</td>
<td>Question &amp; Answer</td>
<td>Maria Luz L. Lara-Marquez, MD PhD</td>
</tr>
</tbody>
</table>

## In-Person Symposium

### 3304 Mechanisms of Environmental Biohazard Influencers of Allergic Respiratory Disease
10:45 am to 12:00 pm  
**Convention Center, West Building, 300 Level, Room 301C**  
Credits: 1.25 CME/CE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>10:45</td>
<td>Introduction</td>
<td>Paul V. Williams, MD FAAAAI</td>
</tr>
<tr>
<td>10:50</td>
<td>E-Cigarettes: Health Effects and Approaches for Allergic and Asthmatic Disease</td>
<td>Michelle L. Hernandez, MD FAAAAI</td>
</tr>
<tr>
<td>11:10</td>
<td>Urban Air Pollutants: Inflammatory and Remodeling Effects in Asthma and Asthma/COPD Overlap</td>
<td>Allison J. Burbank, MD</td>
</tr>
<tr>
<td>11:30</td>
<td>Rural Air Pollutant Health Effects and Approaches in Asthma and Asthma/COPD Overlap</td>
<td>Jill A. Poole, MD FAAAAI</td>
</tr>
<tr>
<td>11:50</td>
<td>Question &amp; Answer</td>
<td>Paul V. Williams, MD FAAAAI</td>
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## In-Person Symposium

### 3305 Navigating Medical Mistrust in Communities of Color: How the Allergy/Immunology (A/I) Provider Can Help
10:45 am to 12:00 pm  
**Convention Center, West Building, 300 Level, Room 301D**  
Credits: 1.25 CME/CE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Navigating Medical Mistrust in Communities of Color: How the Allergy/Immunology Provider Can Help</td>
<td>Princess U. Ogbonu, MD FAAAAI</td>
</tr>
<tr>
<td>10:50</td>
<td>Overcoming Medical Mistrust to Improve the Care of Allergic Patients</td>
<td>Lenora M. Noroski, MD MPH</td>
</tr>
<tr>
<td>11:10</td>
<td>Addressing Vaccine Hesitancy in Communities of Color</td>
<td>Onyema Ogbuagu, MBCh</td>
</tr>
<tr>
<td>11:30</td>
<td>Engaging Disease Populations in Health Research</td>
<td>Andrea J. Apter, MD MA MSc FAAAAI</td>
</tr>
<tr>
<td>11:50</td>
<td>Question &amp; Answer</td>
<td>Princess U. Ogbonu, MD FAAAAI</td>
</tr>
</tbody>
</table>
Sunday Scientific Program

In-Person Symposium

3306  Insights into Th2 Regulation, B Cells, and Antibody Secreting Cells in Inflammation: Research From the 2019 AAAAI Foundation Faculty Development Awardees

10:45 am to 12:00 pm
Convention Center, North Building, 100 Level, Room 120A
Credits: 1.25 CME/CE

10:45  Introduction
Kevin J. Kelly, MD FAAAAI

10:50  Regulatory Circuits Between Antiviral Type I Interferon and Th2-Type Inflammation in Pediatric Asthma
Matthew C. Altman, MD

11:05  Innate Immune Control of Th2 Differentiation
Caroline L. Sokal, MD PhD FAAAAI

11:20  How B Cell Developmental Defects Shape Manifestations of Common Variable Immunodeficiency
Paul J. Magilione, MD PhD

11:35  Antibody Secreting Cell Dysfunction and Infection Risk in Rheumatoid Arthritis
Maria J. Gutierrez, MD

11:50  Question & Answer
Kevin J. Kelly, MD FAAAAI

In-Person Symposium

3308  Allied Health: Difficult to Control Asthma Across the Ages

10:45 am to 12:00 pm
Convention Center, North Building, 200 Level, Room 227A
Credits: 1.25 CME/CE

10:45  Introduction
Mary E. Cataletto, MD

10:50  Difficult to Control Asthma vs Severe Asthma
Shahid I. Sheikh, MD

11:10  Severe Asthma: Challenges and Opportunities in Children and Adolescents
Karen L. Gregory, DNP APRN-BC RRT AE-C

11:30  Challenges Faced in Managing Adult Asthma
Tamara T. Perry, MD FAAAAI

11:50  Question & Answer
Maria Crain, RN MA CPNP

In-Person Seminar

3501  Infant Anaphylaxis

12:30 to 1:30 pm
Sheraton, Second Level, Ahwatukee A
Pre-registration and ticket required. Fee: $40
Credits: 1.00 CME/CE
Instructors:  Julie Wang, MD FAAAAI
Michael Pistiner, MD MMSc

In-Person Seminar

3502  Telemedicine in Schools for Asthma and Allergy Care

12:30 to 1:30 pm
Sheraton, Second Level, Ahwatukee B
Pre-registration and ticket required. Fee: $40
Credits: 1.00 CME/CE
Instructors:  Tamara T. Perry, MD FAAAAI
Daniel A. Searing, MD

In-Person Seminar

3503  Contracting for Adherence: A Special Approach to Adolescents with Severe Asthma

12:30 to 1:30 pm
Sheraton, Second Level, Laveen A
Pre-registration and ticket required. Fee: $40
Credits: 1.00 CME/CE
Instructors:  Andrea J. Apter, MD MA MSc FAAAAI

In-Person Seminar

3504  Diagnosis and Treatment of Multisystem Inflammatory Syndrome (MIS-C) in Children

12:30 to 1:30 pm
Sheraton, Second Level, Laveen B
Pre-registration and ticket required. Fee: $40
Credits: 1.00 CME/CE
Instructors:  Sarah E. Henrickson, MD PhD
Eveline Y. Wu, MD MSCR
### In-Person Seminar

<table>
<thead>
<tr>
<th>Seminar Number</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Pre-registration and ticket required</th>
<th>Fee</th>
<th>Credits</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>3505</td>
<td>Asthma/Chronic Obstructive Pulmonary Disease (COPD) Overlap in the Workplace</td>
<td>12:30 to 1:30 pm</td>
<td>Sheraton, Second Level, South Mountain</td>
<td></td>
<td>$40</td>
<td>1.00 CME/CE</td>
<td>Jonathan A. Bernstein, MD</td>
</tr>
<tr>
<td>3508</td>
<td>The Unified Airway Disease Hypothesis in Clinical Practice</td>
<td>12:30 to 1:30 pm</td>
<td>Sheraton, Second Level, Maryvale B</td>
<td></td>
<td>$40</td>
<td>1.00 CME/CE</td>
<td>Anjeni Keswani, MD FAAAAI, Mahboobeh Mahdavinia, MD PhD</td>
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<tr>
<td>3510</td>
<td>Mast Cells: Living Many Different Lives</td>
<td>12:30 to 1:30 pm</td>
<td>Sheraton, Second Level, Camelback B</td>
<td></td>
<td>$40</td>
<td>1.00 CME/CE</td>
<td>Daniel F. Dwyer, PhD, Brian S. Kim, MD MTR FAAD</td>
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### In-Person Seminar

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<tr>
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<th>Credits</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>3511</td>
<td>Oral Immunotherapy (OIT): A Practical Approach</td>
<td>12:30 to 1:30 pm</td>
<td>Sheraton, Second Level, Paradise Valley</td>
<td></td>
<td>$40</td>
<td>1.00 CME/CE</td>
<td>Justin C. Greiwe, MD FAAAAI, Sakina S. Bajowala, MD FAAAAA</td>
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### In-Person Course

<table>
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<tr>
<th>Course Number</th>
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<th>Location</th>
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<th>Credits</th>
<th>Moderator(s)</th>
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<tbody>
<tr>
<td>3520</td>
<td>Asthma Educators Course for Preparation to Become a Certified Educator: Day One</td>
<td>12:30 to 6:00 pm</td>
<td>Convention Center, North Building, 200 Level, Room 226A</td>
<td></td>
<td>$40</td>
<td>5.00 CME/CE</td>
<td>Karen L. Gregory, DNP APRN-BC RRT AE-C, Maureen George, PhD RN AE-C</td>
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### In-Person Debate

<table>
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<tr>
<th>Debate Number</th>
<th>Title</th>
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<th>Location</th>
<th>Pre-registration and ticket required</th>
<th>Fee</th>
<th>Credits</th>
<th>Moderator(s)</th>
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<tbody>
<tr>
<td>3551</td>
<td>Home-Based Spirometry Is Ready for Prime Time</td>
<td>12:30 to 1:30 pm</td>
<td>Convention Center, West Building, 300 Level, Room 301A</td>
<td></td>
<td>$40</td>
<td>1.00 CME/CE</td>
<td>Steve N. Georas, MD FAAAAI, Loren C. Denlinger, MD PhD</td>
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<tr>
<td>3552</td>
<td>Electronic Adherence Monitoring Improves Asthma Care</td>
<td>12:30 to 1:30 pm</td>
<td>Convention Center, West Building, 300 Level, Room 301C</td>
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<td>$40</td>
<td>1.00 CME/CE</td>
<td>Sindhura Bandi, MD FAAAAI, William C. Anderson, MD FAAAAA</td>
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**Sunday, February 27**

**Sunday Scientific Program**

**Pre-reading material**

**Live stream**

**Audience response system**

**Ticket required**

**Fee required**

**Included in the Virtual Annual Meeting**

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**Asthma/Chronic Obstructive Pulmonary Disease (COPD) Overlap in the Workplace**

Sheraton, Second Level, South Mountain

Pre-registration and ticket required. Fee: $40

Instructor: Jonathan A. Bernstein, MD

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**The Unified Airway Disease Hypothesis in Clinical Practice**

Sheraton, Second Level, Maryvale B

Pre-registration and ticket required. Fee: $40

Instructors: Anjeni Keswani, MD FAAAAI, Mahboobeh Mahdavinia, MD PhD

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**Mast Cells: Living Many Different Lives**

Sheraton, Second Level, Camelback B

Pre-registration and ticket required. Fee: $40

Instructors: Daniel F. Dwyer, PhD, Brian S. Kim, MD MTR FAAD

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**Oral Immunotherapy (OIT): A Practical Approach**

Sheraton, Second Level, Paradise Valley

Pre-registration and ticket required. Fee: $40

Instructors: Justin C. Greiwe, MD FAAAAI, Sakina S. Bajowala, MD FAAAAA

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**Asthma Educators Course for Preparation to Become a Certified Educator: Day One**

Convention Center, North Building, 200 Level, Room 226A

Credits: 5.00 CME/CE

Moderators: Karen L. Gregory, DNP APRN-BC RRT AE-C, Maureen George, PhD RN AE-C

12:30 Registration and Introduction
1:00 Taking the National Educator Certification Exam
2:00 Asthma Epidemiology
3:00 Break
3:30 History, Physical Exam and Assessment of Severity/Control
5:00 Spirometry for Asthma Educators

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**Home-Based Spirometry Is Ready for Prime Time**

Convention Center, West Building, 300 Level, Room 301A

Credits: 1.00 CME/CE

12:30 Introduction and Question & Answer
Steve N. Georas, MD FAAAAI

12:30 Home-Based Spirometry Is Not Ready for Prime Time
Loren C. Denlinger, MD PhD

1:00 Home-Based Spirometry Is Ready for Prime Time
Praveen Akuthota, MD

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**Electronic Adherence Monitoring Improves Asthma Care**

Convention Center, West Building, 300 Level, Room 301C

Credits: 1.00 CME/CE

12:30 Introduction and Question & Answer
Sindhura Bandi, MD FAAAAI

12:30 Electronic Adherence Monitoring Improves Asthma Care
William C. Anderson, MD FAAAAA

1:00 Electronic Adherence Monitoring Does Not Improve Asthma Care
Sakina S. Bajowala, MD FAAAAA

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Sunday Scientific Program

In-Person Debate

3553 Sensitization to Environmental Peanut Can Occur Through the Respiratory Tract
12:30 to 1:30 pm
Convention Center, North Building, 100 Level, Room 120A
Credits: 1.00 CME/CE

12:30 Sensitization to Peanut Can Occur Through the Respiratory Tract
Anne Marie Singh, MD

12:30 Sensitization to Peanut Can Not Occur Through the Respiratory Tract
Timothy P. Moran, MD PhD FAAAAI

1:00 Sensitization to Peanut Can Not Occur Through the Respiratory Tract
Cecilia Berin, PhD

In-Person Interesting Case Workshop

3557 Interesting Case Workshop
12:30 to 1:45 pm
Convention Center, North Building, 100 Level, Room 121A
Credits: 1.25 CME/CE
Moderator: Neema Izadi, MD MS

12:35 Aquagenic Urticaria Treated with Omalizumab
Kiera L. Brennan

12:45 Endogenous Autoimmune Progesterone Dermatitis: Successful Suppression and Desensitization
Tiffany Dharia, MD

12:55 Brachioradial Pruritus: Secondary Lesions and Itch Not Mediated by Histamine
Ragha V. Suresh, MD

1:05 A Rash for a Rash: Drug Induced Lupus with Isotretinoin
Joshua D. Eubanks, MD

1:15 Eczema Herpeticum, a Challenging Diagnosis in an Adult with Recurrent Shingles Outbreaks
Crystal K. Wu, MD

In-Person Poster Discussion Workshops

3558 Cutting Edge Basic Science in Allergic Diseases
12:30 to 1:45 pm
Convention Center, North Building, 100 Level, Room 131A
Credits: 1.25
Moderators: Daniel F. Dwyer, PhD
Dawn C. Newcomb, PhD

12:30 Poster Viewing

1:10 The CARD14 Variant Rs11652075 Interacts with Vitamin D3 to Confer Barrier Dysfunction and Atopic Dermatitis Risk.
Stanley B. DeVore, MS

1:15 Epigenetic Dysfunction in T cells Impairs Airway Sensitization to Peanut and Reduces Anaphylaxis Severity
Onyinye I Iweala, MD PhD

1:20 Major Immunogens Targeted by IgE During Helminth Infection
Scott A. Smith, MD PhD

1:25 Mitochondrial Dysfunction In Age-Related Glandular Remodeling And Nasal Polyp Formation
Jea Young Lee, PhD

1:30 Confirmation of endotypes based on levels of eosinophil, mast cell and basophil microparticles in nasal lavage fluids in chronic rhinosinusitis with nasal polyps using two Northwestern Memorial Hospital cohorts
Toru Takahashi, MD PhD

In-Person Oral Abstract Session

3601 New Insights in Anaphylaxis
2:00 to 3:15 pm
Convention Center, West Building, 300 Level, Room 301A
Credits: 1.25 CME/CE
Moderators: Theresa A. Bingemann, MD FAAAAI
Jeffrey Chambliss, MD

2:05 Nociceptor Neurons Protect From Allergen-Induced Anaphylaxis
Tuany Eichwald, PhD Candidate

2:15 Perioperative Anaphylaxis: Our University’s Experience
Sara S. Patrawala, MD

2:25 The Role of Epinephrine, Antihistamines and Steroids in the Management of Anaphylaxis: Data From the Cross-Canada Anaphylaxis Registry (C-CARE)
Luca Delli Colli

2:35 Risk Associated with Common Procedures Performed in a Referral Allergy Clinic
Monica Hajirawala, MD

2:45 Use of Epinephrine in Paedriatric Anaphylaxis: Beyond the Emergency Department
Maria Munoz de Baena Albarracin
## In-Person Oral Abstract Session

### 3602 Emerging Research in Childhood Asthma

**2:00 to 3:15 pm**  
Convention Center, West Building, 300 Level, Room 301C  
Credits: 1.25 CME/CE  
Moderators: Andrea A. Pappalardo, MD  
Basil M. Kahwash, MD

- **2:05** Maternal Prenatal Inflammation Is Associated With Offspring Childhood Asthma  
  Yih-Chieh Chen, MD
- **2:15** Mask Use During Exercise Does Not Affect Oxygen Saturation in Children with or Without Asthma  
  Marisa Hodges, MD
- **2:25** Genotype-Based Prediction of Gene Expression in Human Placenta is Associated with Childhood Asthma Susceptibility  
  Britney Snyder, PhD
- **2:35** Peanut Sensitization is Associated with Greater Respiratory Morbidity in Preschool Children with Comorbid Asthma  
  Thomas Offerle, MD
- **2:45** Dupilumab Improves Asthma Control, and Allergic Rhinitis-Related Quality of Life in Children with Uncontrolled Persistent Asthma with Comorbid Allergic Rhinitis  
  Alessandro G. Fiocchi, MD

### 3603 Mechanisms of Atopic Disease

**2:00 to 3:15 pm**  
Convention Center, North Building, 100 Level, Room 121A  
Credits: 1.25 CME/CE  
Moderators: Benjamin T. Prince, MD MCSI FAAAAI  
Ivan Chinn, MD

- **2:05** Mediating Role of Socio-Environmental Factors in the Relationship between Genetic Ancestry Differences and Pediatric Asthma Readmission  
  Tesfaye B. Mersha, PhD
- **2:15** Epithelium-Derived Signals Promote Regulatory Gene Expression in Human Eosinophils  
  Julia L. Dunn, PhD
- **2:25** Esophageal Epithelial Cells Present Antigen on MHCII in an IFNγ and Promoter IV-Dependent Manner  
  Eric M. Rodriguez-Lopez
- **2:35** Transcriptional Profiling of Mouse Eosinophils Identifies Unique Activation Signature Following Polarization  
  Avishay Doltzky
- **2:45** A Novel Autosomal Recessive Primary Atopic Disorder Associated with Loss-of-Function Variants in OSMR  
  Mehul Sharma

### 3604 Immunologic Responses to Environmental Exposures

**2:00 to 3:15 pm**  
Convention Center, North Building, 100 Level, Room 122A  
Credits: 1.25 CME/CE  
Moderator: Karin A. Pachico, MD MSPH FAAAAI

- **2:05** Exposure to Ambient Air Pollutants During Pregnancy is Linked to IL4, IL10, and IFNγ Gene Methylation and Fewer Th1, Th2, and Th17 Cell Populations  
  Juan Aguiler, MD PhD
- **2:15** Interleukin-33 Prevents Post-Viral Atopy and Reduces Mortality to a Respiratory Paramyxovirus  
  Syed-Rehan A. Hussain, PhD
- **2:25** Effect Of Chemerin Deficiency On Ozone-Induced Lung Injury And Lung Inflammation  
  Albert W. Pilkington, IV, PhD
- **2:35** Sensitization to Nickel Associates with HLA-DR53 (DRB4*01) in Implant Failure Patients; the Association is Confirmed in a DR53 Transgenic Mouse Model  
  Wei Li, PhD
- **2:45** Pulmonary Immunological Impact of Pathogenic and Non-Pathogenic Cryptococcus Yeast Species  
  Rachael E. Rush

### 3605 Oral Immunotherapy: Predictors of Success, Real World and Long Term Studies

**2:00 to 3:15 pm**  
Convention Center, North Building, 100 Level, Room 120A  
Credits: 1.25 CME/CE  
Moderator: Christina S.K. Yee, MD PhD

- **2:05** Predictors of Safety for Preschool Peanut Oral Immunotherapy that can help inform a Personalized Medicine Approach  
  Duva Karunakaran
- **2:15** Longer Duration Of Peanut Oral Immunotherapy At A Reduced Dosing Frequency Increases The Rate Of Sustained Unresponsiveness Without Reducing Clinical Efficacy  
  Paul J. Turner, MD PhD
- **2:25** Establishing Safety of Alternating Peanut Products During Real-World Peanut Oral Immunotherapy Using Equivalency Challenges  
  Adam Z. Magier, MS
- **2:35** Predictors of Time to Maintenance on Peanut Oral Immunotherapy  
  David M. Pyle, MD PhD
- **2:45** Self-Reported Food Allergy-Associated Anxiety During Oral Immunotherapy Declines with Time  
  Shirley Y. Jiang, MD
Sunday Scientific Program

In-Person Oral Abstract Session

3606 Allergy/Immunology and the COVID-19 Pandemic Response
2:00 to 3:15 pm
Convention Center, North Building, 100 Level, Room 120B
Credits: 1.25 CME/C
Moderator: Sujani S. Kakumanu, MD
2:05 Clinical Outcomes of COVID-19 in Common Variable Immunodeficiency Patients
Derek Nye
2:15 Allergic and Nonallergic Covid-19 Vaccine Adverse Reactions in Hospital Employees
Hope Jin, MD
2:25 A Multicenter Assessment of Food Allergy Quality of Life in Adolescents and Caregivers in Relation to Anxiety and Depression during the COVID-19 Pandemic
Naiya Patel, MD
2:35 Improving Mobile Health for Asthma in a Pandemic: Patient Use of an Integrated COVID-19 Screener
Robert S. Rudin
2:45 The Impact of the COVID-19 Pandemic on Food Allergy Families
Melissa L. Hearrell, FNP-C

In-Person Oral Abstract Session

3607 Chronic Rhinosinusitis and Dupilumab
2:00 to 3:15 pm
Convention Center, North Building, 200 Level, Room 221A
Credits: 1.25 CME/CE
Moderator: Mahboobeh Mahdavinia, MD PhD
2:05 Dupilumab Achieves Durable Reduction in Severity of Symptoms Rated Most Important by Patients with Chronic Rhinosinusitis with Nasal Polyps
Claire Hopkins, MD PhD
2:15 Dupilumab Improves Objective, Subjective, and Health-Related Quality of Life Outcomes in Chronic Rhinosinusitis with Nasal Polyps (CRSswNP), Regardless of BMI:<30kg/m2 or Weight:<90kg: Post-Hoc Analysis of the SINUS-24 and SINUS-52 Studies
Seong Ho Cho, MD FAAAAI
2:25 Symptom Free Days In Patients With Severe Chronic Rhinosinusitis with Nasal Polyps Treated with Dupilumab
Claus Bachert, MD PhD
2:35 Prognostic Factors for Polyp Recurrence in Chronic Rhinosinusitis with Nasal Polyps
Jungin Bai, PhD
2:45 Dupilumab Leads to Reduction of Anosmia in Patients with Severe Chronic Rhinosinusitis with Nasal Polyps
Andrew P. Lane, MD

In-Person Oral Abstract Session

3608 New Discoveries on Mechanisms and Endotypes of Asthma
2:00 to 3:15 pm
Convention Center, North Building, 200 Level, Room 222A
Credits: 1.25 CME/CE
Moderators: Katherine N. Cahill, MD FAAAAI
Magdalena M. Gorska, MD PhD FAAAAI
2:05 Unsupervised Cluster Analysis of Nasal Cytokines During RV Infection Identifies Distinct Immunophenotypes in Both Children and Adults with Allergic Asthma
Lyndsey M. Muehlhing, PhD
2:15 Type 2 Innate Lymphoid Cells (ILC2s) Create Tissue Environment That Facilitates Accumulation of Antigen-specific Th2 Cells in the Lung
Takao Kobayashi, PhD
2:25 Features of the Gut Microbiome Relate to Allergic Asthma Phenotypes in Inner-City Children
Mustafa Ozcam, PhD
2:35 TGFβ Directs the Phenotype and Function of Intraepithelial Mast Cells
Tahereh Derakhshan, PhD
2:45 Tmem178 Inhibits Allergic Inflammation in a Murine Model of Asthma
Andrea Sitek, MD

In-Person Oral Abstract Session

3609 Biologic Therapies in Severe and Exacerbation-Prone Asthma
2:00 to 3:15 pm
Convention Center, North Building, 100 Level, Room 120D
Credits: 1.25 CME/CE/CE
Moderators: William C. Anderson, MD FAAAAI
Will J. Shahan, MD FAAAAI
2:05 Phenotype-Directed Therapy with Mepolizumab for Urban Children with Exacerbation-Prone Asthma
Daniel J. Jackson, MD FAAAAI
2:15 Distinct Airway Inflammatory Pathways Associated with Asthma Exacerbations are Modulated by Mepolizumab Therapy in Children
Matthew C. Altman, MD
2:25 Clinical Remission with Biologic Use Among US Subspecialist-treated Patients with Severe Asthma: Results from the CHRONICLE Study
Bradley Chippes, MD FAAAAI
2:25 Clinical Remission with Biologic Use Among US Subspecialist-treated Patients with Severe Asthma: Results from the CHRONICLE Study
Mark C. Liu, MD FAAAAI
2:35 The Clinical Benefit Of Mepolizumab Treatment Is Independent Of Baseline Maintenance Oral Corticosteroid Use: Results From The Real-World REALITI-A Study
Ayobami Akerroye, MD MPH
2:45 Effectiveness of Mepolizumab, Benralizumab and Dupilumab in Eosinophilic Asthma: A Bayesian Network Meta-Analysis
Ayobami Akerroye, MD MPH
Sunday Scientific Program

In-Person Oral Abstract Session

3611 Late Breaking Oral Abstract Session #2
2:00 to 3:15 pm
Convention Center, North Building, 200 Level, Room 225A
Credits: 1.25 CME/CE/CE
Moderators: TBD

2:05 Multiple FLG Variants Drive Eczema Severity in the LEAP Study Participants
Michelle F. Huffaker, MD

2:15 Translating lessons learned on the role of HLA in immunological responses in LEAP to peanut OIT Trials: IMPACT and POISED
Kanika Kanchan, PhD

2:25 The Kinetics of Peanut Allergy Development and Resolution in the EAT, LEAP and PAS Cohorts
Gideon Lack, MD

2:35 Early Life Dysbiosis Drives Skin Changes Associated with Increased Susceptibility to Atopic Dermatitis
Debajyoti Ghosh, PhD

2:45 Targeting Inhibitory Siglec-3 In Vitro to Suppress Peanut-Induced Human Basophil Degranulation
Suzanne M. Barshow, MD

In-Person Interest Section Forum

3701 ADDA: Biphasic Anaphylaxis: Integrating Best Value Care with Patient Safety
3:30 to 4:30 pm
Convention Center, West Building, 300 Level, Room 301C
Credits: 0.50 CME/CE/CE

3:30 Business Meeting
Julie Wang, MD FAAAAI

In-Person Interest Section Forum

3702 ADT: The Role of the Maternal Diet During Pregnancy in Asthma and Allergy Prevention
3:30 to 4:30 pm
Convention Center, West Building, 300 Level, Room 301D
Credits: 0.50 CME/CE/CE

3:30 Business Meeting
Sharmilee Nynhuis, MD FAAAAI

In-Person Interest Section Forum

3703 BCI: Prevention and Treatment of COVID-19 in Patients with Primary Immune Deficiency Disease (PIDD)
3:30 to 4:30 pm
Convention Center, North Building, 100 Level, Room 122A
Credits: 0.50 CME/CE

3:30 Business Meeting
Lisa R. Forbes Satter, MD FAAAAI

4:00 Prevention and Treatment of COVID-19 in Patients with PIDD
Jennifer Heimall, MD FAAAAI

In-Person Interest Section Forum

3704 EORD: Impact of Climate Change on Pollen, Mold and Susceptibility to COVID-19 Infection
3:30 to 4:30 pm
Convention Center, North Building, 200 Level, Room 221A
Credits: 0.50 CME/CE/CE

3:30 Business Meeting
Jay M. Portnoy, MD FAAAAI

4:00 Impact of Climate Change on Pollen, Mold and Susceptibility to COVID-19 Infection
Gennaro D’Amato, MD FAAAAI

In-Person Interest Section Forum

3705 FAED: Is It Sensitization or Clinical Allergy: Novel Food Allergy Diagnostics
3:30 to 4:30 pm
Convention Center, North Building, 100 Level, Room 120B
Credits: 0.50 CME/CE/CE

3:30 Business Meeting
Amal H. Assa’ad, MD FAAAAI

4:00 Planning a Clinical Test for Novel Food Allergy Diagnostics
Panelists: Aikaterini Anagnostou, MD MSc PhD FAAAAI
Alexandra F. Santos, MD PhD

In-Person Interest Section Forum

3706 HEDQ: What the Allergist/Immunologist Needs to Know About Health Disparities
3:30 to 4:30 pm
Convention Center, North Building, 200 Level, Room 222A
Credits: 0.50 CME/CE/CE

3:30 Business Meeting
Princess U. Ogbogu, MD FAAAAI

4:00 What the Allergist/Immunologist Needs to Know About Health Disparities
Tamara T. Perry, MD FAAAAI
Sunday Scientific Program

In-Person Interest Section Forum

3707  IRSO: Rhinitis and Rhinosinusitis: The Role of Type 2 Immune Regulation in COVID-19 Pathogenesis
       3:30 to 4:30 pm
       Convention Center, West Building, 300 Level, Room 301A
       Credits: 0.50 CME/CE
       3:30  Business Meeting
       Patricia A. Takach, MD FAAAAI
       4:00  Rhinitis and Rhinosinusitis: The Role of Type 2 Immune Regulation in COVID-19 Pathogenesis
       Daniel J. Jackson, MD FAAAAI

In-Person Interest Section Forum

3708  MAAI: The Idiosyncrasies of Severe Asthma Evidence from Cellular, Molecular and Genomic Studies
       3:30 to 4:30 pm
       Convention Center, North Building, 100 Level, Room 121A
       Credits: 0.50 CME/CE
       3:30  Business Meeting
       Roma Sehmi, PhD FAAAAI
       4:00  The Idiosyncrasies of Severe Asthma Evidence From Cellular, Molecular and Genomic Studies
       Parameswaran K. Nair, MD PhD

Featured Poster Session

4:45 to 6:15 pm
Convention Center, North Building, 100 Level, 120 Concourse
Credits: 0.0 CME/CE
Please refer to the 2022 AAAAI Annual Meeting Mobile App or www.jacionline.org for abstract details.

450-454  ADDA Highlights 2022
455-459  Novel Management Options
460-464  Top Topics in Basic and Clinical Immunology
465-469  Modulators of Environmental Allergen Burden
470-474  Inflammatory response in Eosinophilic Eosophagitis
475-479  HealthCare Disparities in Allergy/Immunology
480-484  Inflammatory Signature of Chronic Rhinitis with Nasal Polyps
485-489  IgE-Mediated Reactions and Anaphylaxis: Novel Mechanisms and Strategies for Therapeutic Intervention

Bullseye
JACI: In Practice
Helping You Hit All Your Targets

26 Collections to view and search articles by topic
Alerts to let you know when articles you’re interested in are published
Multiple CME opportunities
New Case Studies in Health Disparities feature and other Diversity/Inclusion/Equity initiatives
Monday At-A-Glance

Monday, February 28

- Pre-reading material
- Live stream
- Audience response system
- Ticket required
- Fee required
- Included in the Virtual Annual Meeting

6:00 AM - 6:30 AM
- Registration

7:00 AM - 7:30 AM
- Poster Hall 7:00 am - 2:00 pm

8:00 AM - 8:30 AM
- 7:00 - 8:00 am 8:00 AM
  - Asthma Educator Course for Preparation to Become a Certified Educator: Day Two
  - 8:00 am - 4:00 pm

9:00 AM - 9:30 AM
- 9:00 AM
  - AAAAI Business Meeting
  - 12:30 - 1:30 pm

10:00 AM - 10:30 AM
- 10:00 AM
  - Seminars (Sheraton)
  - 7:00 - 8:00 am

11:00 AM - 11:30 AM
- 11:00 AM
  - Plenary Session
  - 8:15 - 9:45 am

12:00 PM - 12:30 PM
- 12:00 PM
  - Poster Presentations
  - 9:45 - 10:45 am

1:00 PM - 1:30 PM
- 1:00 PM
  - Symposia
  - 10:45 am - 12:00 pm

2:00 PM - 2:30 PM
- 2:00 PM
  - AAAAI Business Meeting
  - 12:30 - 1:30 pm

3:00 PM - 3:30 PM
- 3:00 PM
  - Oral Abstracts
  - 2:00 - 3:15 pm

4:00 PM - 4:30 PM
- 4:00 PM
  - Seminars (Sheraton)
  - 3:30 - 4:30 pm

5:00 PM - 5:30 PM
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  - Workshops
  - 3:30 - 4:45 pm

6:00 PM - 6:30 PM
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<tr>
<th>Seminar ID</th>
<th>Seminar Title</th>
<th>Time</th>
<th>Location</th>
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<th>Instructors</th>
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<tr>
<td>4002</td>
<td>The Impact of Chronic Rhinosinusitis on Asthma Outcomes: An Allergist's and</td>
<td>7:00 to 8:00</td>
<td>Sheraton, Second Level,</td>
<td>$40</td>
<td>1.00</td>
<td>Anjeni Keswani, MD FAAAAI</td>
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<td></td>
<td>Ears, Nose and Throat (ENT's) Perspectives</td>
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<td>Laveen B</td>
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<td>Joseph K. Han, MD FAAAAI</td>
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<td>4003</td>
<td>Pediatric Interstitial Lung Disease (ILD) as a Manifestation of Systemic</td>
<td>7:00 to 8:00</td>
<td>Sheraton, Second Level,</td>
<td>$40</td>
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<td>Timothy Vece, MD</td>
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<td></td>
<td>Immunological Disorders</td>
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<td>South Mountain</td>
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<td>Paul J. Magilone, MD PhD</td>
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<td>4005</td>
<td>The Smart Home Health and Fitness Revolution: Helping Patients Utilize</td>
<td>7:00 to 8:00</td>
<td>Sheraton, Second Level,</td>
<td>$40</td>
<td>1.00</td>
<td>Sharmilee Nyenhuis, MD FAAAAI</td>
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<td></td>
<td>Personal Health Technology</td>
<td>am</td>
<td>Maryvale A</td>
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<td>Andrew J. Cooke, MD</td>
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<td>4006</td>
<td>Carbohydrate Epitopes as Targets for Immunoglobulin E (IgE) Antibodies:</td>
<td>7:00 to 8:00</td>
<td>Sheraton, Second Level,</td>
<td>$40</td>
<td>1.00</td>
<td>Thomas A. Platts-Mills, MD PhD FAAAAI</td>
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<td></td>
<td>New Developments the Allergist Should Know</td>
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<td>Maryvale B</td>
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<td>4008</td>
<td>Asthma Management in the Age of COVID-19</td>
<td>7:00 to 8:00</td>
<td>Sheraton, Second Level,</td>
<td>$40</td>
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<td>Paul V. Williams, MD FAAAAI</td>
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<td></td>
<td>Paradise Valley</td>
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<td>Mary Beth Fasano, MD MSPH FAAAAI</td>
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<td>4020</td>
<td>Asthma Educators Course for Preparation to Become a Certified Educator: Day</td>
<td>8:00 to 4:00</td>
<td>Convention Center, North</td>
<td>$40</td>
<td>1.00</td>
<td>Karen L. Gregory, DNP APRN-BC RRT AE-C</td>
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<td>Two</td>
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<td>Maureen George, PhD RN AE-C</td>
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**In-Person Plenary**

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<tr>
<td>4101</td>
<td>An Ounce of Prevention</td>
<td>8:15 to 9:45</td>
<td>Convention Center, North</td>
<td>$40</td>
<td>1.50</td>
<td>Anna H. Nowak-Wegrzyn, MD PhD FAAAAI</td>
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<td>George Du Toit, MD FAAAAI</td>
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Monday Scientific Program

Poster Session

9:45 to 10:45 am
Convention Center, North Building, Lower Level, Hall 4
Credits: 0.0 CME/CE
Please refer to the 2022 AAAAI Annual Meeting Mobile App or www.jacionline.org for abstract details.

445-449 Cutting Edge Basic Science in Allergic Diseases Poster Discussion ▼
490-510 Angioedema ▼
511-526 Non-Beta Lactam Drug Allergies
527-547 Urticaria, Contact Dermatitis and Immune-Mediated Skin Disorders ▼
549-554 Asthma and COVID-19 ▼
555-562 Asthma Management with Technologies ▼
563-580 Asthma Diagnosis, Genotyping and Phenotyping ▼
581-594 Immunomodulation, Immunodysregulation and Biologies ▼
595-605 Aerobiology: Pollens and Fungi ▼
606-635 Eosinophilic GI Disorders, Alpha Gal Allergy and FPIES ▼
636-649 Adherence, Health Literacy, and Health Education ▼
650-653 Ocular Allergy ▼
654-660 Allergens: Composition, Purification and Function ▼
661-665 Mast Cell-Related Inflammatory Pathologies ▼
L11-L42 Late Breaking Posters ▼

In-Person Symposium

4302 The Evolving Impact of Respiratory Viruses on Asthma ▼
10:45 am to 12:00 pm
Convention Center, North Building, 100 Level, Room 122A
Credits: 1.25 CME/CE
10:45 Introduction
Sharmilee Nyenhuis, MD FAAAAI
10:50 Effects of Respiratory Viruses on Immune Development
James E. Gern, MD FAAAAI
11:10 Influence of Respiratory Viruses on Asthma Inception and Progression
Tina V. Hartert, MD MPH
11:30 Management and Prevention of Virally Triggered Asthma Exacerbations
Leonard B. Bacharier, MD FAAAAI
11:5 Question & Answer
Sharmilee Nyenhuis, MD FAAAAI

4303 A Multidisciplinary Approach to Refractory Chronic Cough ▼▼
10:45 to 12:00 pm
Convention Center, North Building, 200 Level, Room 221A
Credits: 1.25 CME/CE
10:45 Introduction
Roxana I. Siles, MD FAAAAI
10:50 Defining Key Mechanisms in the Pathophysiology of Refractory Chronic Cough
Jeanne Hatcher, MD
11:10 Approved and Experimental Pharmacologic and Non-Pharmacologic Strategies for Treatment of Chronic Cough
Kaiser G. Lim, MD FAAAAI
11:30 The Role of Speech Pathology in the Assessment and Management of Chronic Cough
Amanda Gillespie, PhD
11:50 Question & Answer
Roxana I. Siles, MD FAAAAI

In-Person Symposium

4301 Schools and Difficult to Control Asthma ▼▼
10:45 am to 12:00 pm
Convention Center, West Building, 300 Level, Room 301A
Credits: 1.25 CME/CE
10:45 Introduction
Tamara T. Perry, MD FAAAAI
10:50 The Contribution of School Environments to Asthma Disease Expression
Wanda Phipatanakul, MD MS FAAAAI
11:10 School-Based Partnerships and Policies to Improve Asthma Control
Sujani S. Kakumanu, MD FAAAAI
11:30 Establishing State-Wide Partnerships to Improve Asthma Control
Stanley J. Szefler, MD FAAAAI
11:50 Question & Answer
Tamara T. Perry, MD FAAAAI
### In-Person Symposium

**4304** Autoinflammatory Syndromes: How and When to Do a Diagnostic Work Up and Current Treatment Options

- **10:45 am to 12:00 pm**
- Convention Center, North Building, 200 Level, Room 222A
- Credits: 1.25 CME/CE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>10:45</td>
<td>Introduction</td>
<td>Amir H. Shahlaee, MD</td>
</tr>
<tr>
<td>10:50</td>
<td>Clinical Manifestations and Findings of Autoinflammatory Syndromes</td>
<td>Hal M. Hoffman, MD</td>
</tr>
<tr>
<td>11:10</td>
<td>Diagnosis and Treatment of Multisystem Inflammatory Syndrome in Children (MIS-C)</td>
<td>Eveline Y. Wu, MD MSCR</td>
</tr>
<tr>
<td>11:30</td>
<td>Therapeutic Approach to Treatment of Autoinflammatory Syndromes</td>
<td>Lori Broderick, MD PhD</td>
</tr>
<tr>
<td>11:50</td>
<td>Question &amp; Answer Faciliation</td>
<td>Amir H. Shahlaee, MD</td>
</tr>
</tbody>
</table>

### In-Person Symposium

**4305** Mitigating the Allergen Exposures Causing Uncontrolled Pediatric Asthma

- **10:45 am to 12:00 pm**
- Convention Center, West Building, 300 Level, Room 301C
- Credits: 1.25 CME/CE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>10:45</td>
<td>Introduction</td>
<td>John C. Carlson, MD PhD</td>
</tr>
<tr>
<td>10:50</td>
<td>Mitigating Rodent Exposure for Children with Uncontrolled Asthma</td>
<td>Torie L. Grant, MD</td>
</tr>
<tr>
<td>11:10</td>
<td>Mitigating Cockroach Exposure for Children with Uncontrolled Asthma</td>
<td>Felicia A. Rabito, PhD MPH</td>
</tr>
<tr>
<td>11:50</td>
<td>Question &amp; Answer</td>
<td>John C. Carlson, MD PhD</td>
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### In-Person Symposium

**4306** Nature versus Nurture: Genetic and Environmental Factors Implicated in the Pathogenesis of Eosinophilic Esophagitis (EoE)

- **10:45 am to 12:00 pm**
- Convention Center, West Building, 300 Level, Room 301D
- Credits: 1.25 CME/CE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>10:45</td>
<td>Introduction</td>
<td>Benjamin L. Wright, MD FAAAAAI</td>
</tr>
<tr>
<td>10:50</td>
<td>What Clues Can Epidemiology Give Us About the Environmental Risk Factors for EoE?</td>
<td>Elizabeth T. Jensen, MPH PhD</td>
</tr>
<tr>
<td>11:10</td>
<td>How Do Disease Susceptibility Loci Elucidate Pathomechanisms in EoE?</td>
<td>Leah C. Kottyan, PhD</td>
</tr>
<tr>
<td>11:30</td>
<td>Host Meets World: Epigenetic Modifications in EoE</td>
<td>Melanie A. Ruffner, MD PhD</td>
</tr>
<tr>
<td>11:50</td>
<td>Question &amp; Answer</td>
<td>Benjamin L. Wright, MD FAAAAAI</td>
</tr>
</tbody>
</table>

### In-Person Symposium

**4307** Shared Decision Making (SDM): Recent Advances for Allergy/Immunology Patients

- **10:45 am to 12:00 pm**
- Convention Center, North Building, 100 Level, Room 120A
- Credits: 1.25 CME/CE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Introduction</td>
<td>Marcus S. Shaker, MD MS FAAAAAI</td>
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<tr>
<td>10:50</td>
<td>The 2020 NIH Asthma Guideline Recommend Shared Decision Making SDM: Here's How to Do It</td>
<td>Alan P. Baptist, MD MPH FAAAAI</td>
</tr>
<tr>
<td>11:10</td>
<td>There Is Finally Something to Do for Food Allergy: Using SDM to Find the Right Option</td>
<td>Anne Marie Singh, MD</td>
</tr>
<tr>
<td>11:30</td>
<td>Using Shared Decision Making to Address Health Disparities in the Post Pandemic Era</td>
<td>Gloria E. Akan, MD</td>
</tr>
<tr>
<td>11:50</td>
<td>Question &amp; Answer</td>
<td>Marcus S. Shaker, MD MS FAAAAAI</td>
</tr>
</tbody>
</table>

### In-Person Symposium

**4308** Potential Untapped Targets in Severe Asthma

- **10:45 am to 12:00 pm**
- Convention Center, North Building, 100 Level, Room 120D
- Credits: 1.25 CME/CE

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Introduction</td>
<td>Taylor A. Doherty, MD FAAAAAI</td>
</tr>
<tr>
<td>10:50</td>
<td>Breaking Up Is Hard to Do: Anti-Tryptase Treatment for Asthma</td>
<td>Lawrence B. Schwartz, MD PhD FAAAAAI</td>
</tr>
<tr>
<td>11:10</td>
<td>Gene Therapy as an End to Asthma</td>
<td>Jung Soo Suk, PhD MSE</td>
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<tr>
<td>11:30</td>
<td>Childhood Asthma: All in the Nerves</td>
<td>Xingbin Ai, PhD</td>
</tr>
<tr>
<td>11:50</td>
<td>Question &amp; Answer</td>
<td>Taylor A. Doherty, MD FAAAAAI</td>
</tr>
</tbody>
</table>
Monday Scientific Program

In-Person Oral Abstract Session

4601  Best of Allergic Skin Disease 2022
2:00 to 3:15 pm
Convention Center, West Building, 300 Level, Room 301C
Credits: 1.25 CME/CE
Moderator: TBD

2:05  Increased Local Production of PGD2 in Skin Lesions of Patients with Chronic Spontaneous Urticaria
Shivani Khanna, MD

2:15  Type 2 Inflammation Drives Transcriptional Remodeling of Itch-Sensory Neurons
Aaron Ver Heul, MD PhD

2:25  S. Aureus Superantigens Found on AD Skin Alter Human Keratinocyte Biology
Mary C. Moran

2:35  Longitudinal Atopic Dermatitis Endotypes: An Atopic March Paradigm That Includes Black Children
Jocelyn M. Biagiini, PhD

2:45  Can Plasma MicroRNA Expression Patterns Predict Who May Develop Severe Hereditary Angioedema (HAE)?
Faoud T. Ishmael, MD PhD FAAAAI

In-Person Oral Abstract Session

4602  Asthma Pathogenesis
2:00 to 3:15 pm
Convention Center, North Building, 100 Level, Room 122A
Credits: 1.25 CME/CE
Moderators: Thanai Pongdee, MD FAAAAI

2:05  LIGHT - LTßR Signaling is Essential for Airway Smooth Muscle Remodeling and Asthmatic Airway Hyperresponsiveness
Haruka Miki, MD PhD

2:15  The Acetylcholine-Muscarinic Receptor Pathway Promotes Type 2 Immune Responses to Inhaled Allergens
Ryuusuke Hayashi, MD PhD

2:25  Significance of IL-18 Responsive CD274 Expressing Eosinophils in Allergen Induced Asthma Pathogenesis
Sathisha Upparahalli Venkateshiah, PhD

2:35  Expansion of a Double-Negative (CD27-IgD-) B Cell Population in the Sputum of Severe Eosinophilic Asthmatic Patients
Nadia Suray Tan

2:45  Epithelial Cell Responses to Rhinovirus Identify an Early-Life-Onset Asthma Phenotype in Adults
Eugene H. Chang, MD

In-Person Oral Abstract Session

4603  Primary Immunodeficiency Disorders
2:00 to 3:15 pm
Convention Center, North Building, 200 Level, Room 227A
Credits: 1.25 CME/CE
Moderators: TBD

2:05  Exploring the Effects of BMI, Dose, and Route of Administration on Efficacy of Immunoglobulin G Replacement Therapy
Nikki H. Kimura, MD

2:15  T Cell Receptor Diversity as a Biomarker For Immune Reconstitution After Bone Marrow Transplantation for Severe Combined Immunodeficiency
Matthew J. Kan, MD PhD

2:25  Clinical Manifestations and Phenotypic Characterization of Older-Adult-Onset Common Variable Immunodeficiency
Lyda Cuervo-Pardo, MD

2:35  Autoimmune Manifestations in a Cohort of Female X-linked Chronic Granulomatous Disease Carriers
Mary Ann V. Miranda, MD

2:45  Outcomes Among Racial and Ethnic Minority Groups with X-linked Agammaglobulinemia from the USIDNET Registry
Dana O'Toole, MD

Attend the 2022 AAAAI Annual Business Meeting

to include the induction of all new Fellows and members approved in 2021

Monday, February 28, 2022
12:30 to 1:30 pm
Convention Center, North Building, 100 Level, Room 120B
### Monday Scientific Program

#### In-Person Oral Abstract Session

**4604** Food Allergy: From Early life to Therapy
2:00 to 3:15 pm  
Convention Center, West Building, 300 Level, Room 221A  
Credits: 1.25 CME/CE  
Moderators: TBD

- **2:05** Dietary Diversity During Early Infancy Increases Gut Microbial Diversity and Prevents Egg Allergy in High-Risk Infants  
  Ji Hyun Kim, MD
- **2:15** Racial and Ethnic Differences in Food Allergy Reactions and Treatment Outcomes  
  Neel Thivaliapill, MS
- **2:25** Analysis of a Multi-State Pediatric Birth Cohort Reveals Incidence of Pediatric Allergy  
  Stainslaw Gabryszewski, MD PhD
- **2:35** Phenotypic Characterization of Childhood- and Adult- Onset Food Allergy Among Adults in the United States  
  Haley Hultquist
- **2:45** Reductions in Early-Life Intestinal Metabolites are Associated with Food Allergy  
  Kathleen Lee-Sarwar, MD MS

**4605** Biologic Mechanisms and Rhinitis
2:00 to 3:15 pm  
Convention Center, North Building, 200 Level, Room 221A  
Credits: 0.0 CME/CE  
Moderators: TBD

- **2:05** Biological Responses to House Dust Mite Exposure in the Environmental Exposure Unit  
  Lubnaa Hossenbaccus, BScH
- **2:15** Arctigenin Isolated From Arctium lappa Which Suppresses IgE Production Inhibits The Gene Expression Of Telomere and Telomerase in Human B Cell Line  
  Ibrahim A. Musa
- **2:25** Nasal Mucus Inflammatory Profile Predicts Clinical Post-Operative Outcomes in Aspirin-Exacerbated Respiratory Disease  
  Kristen Corey
- **2:35** Understanding the Association of IgE and Gut and Mucosal Proteins in Atopic Disorders  
  Anushka Shah
- **2:45** HLA-DPB1*05:01 Genotype is a Predictive Biomarker of Sublingual Immunotherapy Response for Japanese Cedar Pollinosis  
  Masanori Kidoguchi

**4606** Host-Microbe Interactions in Allergic Diseases
2:00 to 3:15 pm  
Convention Center, North Building, 200 Level, Room 222  
Credits: 1.25 CME/CE  
Moderators: Angela Haczku, MD PhD FAAAAI

- **2:05** Rhinovirus Increases Moraxella Catarrhalis Adhesion to the Respiratory Epithelium  
  Eishika Dissanayake, PhD
- **2:15** Staphylococcus Aureus Disruption of Keratinocytes in Atopic Dermatitis  
  Olivia Steidl
- **2:25** Are skin microbes with lantibiotic biosynthesis genes reduced in atopic dermatitis subjects who are culture positive for Staphylococcus Aureus?  
  Jessica L. Forman, BS MA
- **2:35** Fecal Microbiome Changes in Response to Airway Exposure to Environmental Peanut in Household Dust Suggests a Lung-Gut Axis  
  Johanna Smeekens, PhD
- **2:45** Gut Bacterial-Derived 12,13-diHOME Promotes Inflammatory Macrophage Polarization and Epigenetic Modifications  
  Din L. Lin

**4607** Insights to the Development and Management of Difficult to Control Asthma
2:00 to 3:15 pm  
Convention Center, West Building, 300 Level, Room 301D  
Credits: 1.25 CME/CE  
Moderators: TBD

- **2:05** Early Life Risk Factors for Lung Function During Childhood and Adolescence  
  Caitlan Murphy, MD
- **2:15** Clinical and Molecular Implications of RGS2 Promoter Genetic Variation in Severe Asthma  
  Juan Carlos Cardet, MD
- **2:25** Longitudinal Adherence to Inhaled Corticosteroids in Pediatric Patients with Difficult to Control Asthma  
  Rachelle R. Ramsey, PhD
- **2:35** Impact of Electronic Medication Monitoring on Pediatric Asthma Severity and Control in a Real-World Multidisciplinary Clinic  
  Matthew R. McCulloch, MD
- **2:45** Differences in Medication Adherence by Dosing Schedule Among Patients with Asthma  
  Heather Hoch, MD
Monday Scientific Program

In-Person Workshop

4701 Improving the Pediatric Asthma Visit: Tools for Obtaining a History, Correct Diagnosis and Treatment Plan
3:30 to 4:45 pm
Convention Center, North Building, 100 Level, Room 122A
Credits: 1.25 CME/CE
3:30 Introduction
Maria Crain, RN MA CPNP
3:35 Obtaining a Thorough Asthma History in the Pediatric Patient
Jeffrey Chambliss, MD
4:15 Obtaining a Thorough Asthma History in the Pediatric Patient
Alysa Ellis, MD FAAAAI
4:35 Question & Answer
Maria Crain, RN MA CPNP

In-Person Workshop

4702 Treatment Algorithms for Difficult to Control Asthma in Diverse Populations
3:30 to 4:45 pm
Convention Center, North Building, 200 Level, Room 221A
Credits: 1.25 CME/CE
3:30 Introduction
Stanley J. Szefler, MD FAAAAI
3:35 Evaluation and Management Algorithms for Children, Adolescents and Adults
Paul V. Williams, MD FAAAAI
3:55 Evaluation and Management Considerations in Ethnically Diverse Populations
Michael E. Wechsler, MD
4:15 Comparisons Among Diverse Environments: A Global Perspective
Helen K. Reddel, MBBS PhD
4:35 Question & Answer
Stanley J. Szefler, MD FAAAAI

In-Person Workshop

4704 Contributions of Eosinophils to Health and Allergy
3:30 to 4:45 pm
Convention Center, North Building, 200 Level, Room 222A
Credits: 1.25 CME/CE
3:30 Introduction
Anne Marie Singh, MD
3:35 Role of the Eosinophil in Asthma, Including Severe Asthma
Sameer K. Mathur, MD PhD FAAAAI
3:55 Understanding Eosinophil Biology and Heterogeneity
Lisa A. Spencer, PhD
4:15 Targeting Eosinophils in Treatment of Disease
Bruce S. Bochner, MD FAAAAI
4:35 Question & Answer
Anne Marie Singh, MD

In-Person Workshop

4705 New Insights Into Work-Related Hazards
3:30 to 4:45 pm
Convention Center, North Building, 200 Level, Room 227A
Credits: 1.25 CME/CE
3:30 Introduction
Jill A. Poole, MD FAAAAI
4:15 Reactions to COVID-19 Vaccines Among Health Care Providers and the Role of Excipients
Santiago Quirce, MD PhD
4:35 Question & Answer
Jill A. Poole, MD FAAAAI

In-Person Seminar

4711 Monoclonal Antibodies (MABS) for Kids: Picking the Right Biologic Therapy for Children with Severe Asthma
3:30 pm to 4:30 pm
Sheraton, Second Level, Maryvale B
Pre-registration and ticket required. Fee: $40
Credits: 1.00 CME/CE
Instructors: Will J. Sheehan, MD FAAAAI
Jonathan M. Gaffin, MD

In-Person Seminar

4712 Component Resolved Diagnostics in Pet Allergies
3:30 to 4:30 pm
Sheraton, Second Level, Camelback A
Pre-registration and ticket required. Fee: $40
Credits: 1.00 CME/CE
Instructors: Andrew H. Liu, MD FAAAAI
Jay M. Portnoy, MD FAAAAI
2022 Advocacy Priorities

The AAAAI works independently and collaborates with other physician and patient organizations. Committed volunteer leaders work with our professional government relations team to deliver unparalleled member engagement in pursuit of these priorities:

- Facilitating patient access to evidence based care
- Securing research appropriations
- Impacting physician reimbursement
- Reforming prior authorization and reducing barriers for patient access to care
- Addressing scope of practice and transparency
- Reducing physician practice burden, and
- Promoting effective practice
Pre-Recorded Scientific Sessions

Pre-Recorded Course

5001 Microbial Contribution to Asthma Pathogenesis
Credits: 3.00 CME/CE
- The Early Airway Microbiome, Lung Function and Wheeze
  Instructor Pre-Recorded: Kirsten M. Kloepfer, MD MS FAAAAI
- The Gut Microbiome and the Development of Asthma
  Instructor Pre-Recorded: Padmaja Subbarao, MD
- Mechanisms of Microbial Modulation of the Airway Immune Response
  Instructor Pre-Recorded: Harald E. Renz, MD FAAAAI
- Microbial Intervention for Prevention/Treatment of Asthma
  Instructor Pre-Recorded: Benjamin Marsland, PhD
- Microbiome and Asthma Exacerbations
  Instructor Pre-Recorded: James E. Gern, MD FAAAAI

5002 The Impact of Air Pollution and Climate Change in Viral, Fungal and Bacterial Airways Infection
Credits: 3.00 CME/CE
- Climate change and Air Pollution as Risk Factors for Respiratory Viral Infections: Epidemiology and Mechanisms
  Primary Speaker - Pre-Recorded: Allison J. Burbank, MD

5003 Asthma: The Basics of Medical Education Strategies from Instructional Design to Disparities
Credits: 3.00 CME/CE
- Medical Education and Patient Care Disparities
  Instructor Pre-Recorded: Lily Pien, MD FAAAAI
- Group Teaching Methods
  Instructor Pre-Recorded: Jason Kwah, MD
- Writing of Educational Objectives
  Instructor Pre-Recorded: Marie Cavuoto Petrizzo, MD MEd FAAAAI
- AAAAI Education Endeavors
  Instructor Pre-Recorded: Steven Folstein, MFA M.Ed
- Instructional Design: Putting it Together
  Instructor Pre-Recorded: Jesus R. Guajardo, MD FAAAAI

5004 Workforce Challenges in Allergy/Immunology
Credits: 3.00 CME/CE
- Describe Racial Disparities in Medicine and Our Biases as Allergists
  Instructor Pre-Recorded: Margee Louisias, MD MPH
- Analyze Workforce Gender Equity in Academic Medicine and Allergy/Immunology
  Instructor Pre-Recorded: Corinne Keet, MD MS PhD
- Assess Physician Burnout and Establish Strategies to Create a Wellness Culture
  Instructor Pre-Recorded: Gailen D. Marshall, MD PhD

Pre-Recorded Symposium

5101 A Bench to Bedside View of Drug Hypersensitivity
Credits: 1.25 CME/CE
- A New Paradigm for Prediction, Prevention, Diagnosis and Treatment of Drug Hypersensitivity
  Primary Speaker - Pre-Recorded: Elizabeth J. Phillips, MD FAAAAI
  FIDSA
- Discovery of HLA-DRB1*15-Associated Severe Delayed Reaction to IL-1 and IL-6 Inhibitors
  Primary Speaker - Pre-Recorded: Vivian E. Saper, MD FAAAAI
- FDA Surveillance of Postmarketing Adverse Event Reports and Drug Safety
  Primary Speaker - Pre-Recorded: Jamie R. Klucken, PharmD MBA BCPS BCACP

5102 Stay Current with Drug Hypersensitivity
Credits: 1.25 CME/CE
- Pediatric Antibiotic Allergies
  Primary Speaker - Pre-Recorded: Allison E. Norton, MD FAAAAI
- Vaccine Reactions
  Primary Speaker - Pre-Recorded: Anna R. Wolfson, MD
- Perioperative Reactions
  Primary Speaker - Pre-Recorded: Alexei Gonzalez-Estrada, MD

5103 “Is it Just Me or Does My Throat Feel Tight?”: Considering Mimickers of Anaphylaxis
Credits: 1.25 CME/CE
- Mimickers of Anaphylaxis in Food and Drug Allergy
  Primary Speaker - Pre-Recorded: Timothy Chow, MD
- Management of Vocal Cord Dysfunction
  Primary Speaker - Pre-Recorded: Amy Harris, SLP
- Management of Anxiety-Related Disorders in the Setting of Immediate Hypersensitivity Reactions
  Primary Speaker - Pre-Recorded: Ashley Ramos, PhD

5104 Defining and Managing Anaphylaxis in 2022
Credits: 1.25 CME/CE
- Defining Anaphylaxis: Through the Years and Around the World
  Primary Speaker - Pre-Recorded: Ronna L. Campbell, MD, PhD
- Anaphylaxis Outcomes: Characterizing Persistent, Refractory and Biphasic Reactions
  Primary Speaker - Pre-Recorded: Tim Dribin, MD
- Antihistamines and Glucocorticoids in Anaphylaxis: Where Do They Fit?
  Primary Speaker - Pre-Recorded: Moshe Ben-Shoshan, MD FAAAAI
Pre-Recorded Scientific Sessions

Pre-Recorded Symposium

5105 What Does Anaphylaxis Look Like in Infants and Toddlers? 
Credits: 1.25 CME/CE
Prevalence of Infant Anaphylaxis
Primary Speaker - Pre-Recorded: Julie Wang, MD FAAAAI
Caregiver Perspectives on Signs and Symptoms of Anaphylaxis
Primary Speaker - Pre-Recorded: Michael Pistiner, MD MMSc
Lessons Learned from Infants and Toddlers Undergoing Immunotherapy
Primary Speaker - Pre-Recorded: Edmond S. Chan, MD FAAAAI

Pre-Recorded Symposium

5106 Are You What You Eat in Atopy and Autoimmunity? 
Credits: 1.25 CME/CE
Diet, Obesity and the Microbiome in Asthma
Primary Speaker - Pre-Recorded: Erick Forno, MD MPH
Dietary Interventions and the Microbiome in Atopic Dermatitis Disease
Primary Speaker - Pre-Recorded: Maria Luz L. Lara-Marquez, MD PhD
The Anti-Inflammatory Diet and Oral Microbiome in Rheumatoid Arthritis
Primary Speaker - Pre-Recorded: Monica Guma

Pre-Recorded Symposium

5107 Beyond Short-Acting Bronchodilator (SABA): Next-Line and Adjunct Treatments for Exercise-Induced Bronchoconstriction (EIB) 
Credits: 1.25 CME/CE
Update on Exercise-Induced Bronchoconstriction (EIB)
Knowledge Since Practice Parameters
Primary Speaker - Pre-Recorded: Justin C. Greiwe, MD FAAAAI
Medications and EIB: Inhalers, Montelukast, Theophylline/Caffeine
Primary Speaker - Pre-Recorded: Christopher C. Randolph, MD FAAAAI
Integrative Non-Pharmacologic Therapy for EIB
Primary Speaker - Pre-Recorded: Israel Amirav, MD

Pre-Recorded Symposium

5108 Managing Metabolic Dysfunction in Asthma: An Opportunity for Improvement 
Credits: 1.25 CME/CE
Clinical Epidemiology of Patients with Comorbid Asthma and Type 2 Diabetes
Primary Speaker - Pre-Recorded: Tianshi D. Wu, MD MHS
Phenotyping Asthma in Patients with Obesity and Diabetes
Primary Speaker - Pre-Recorded: Michael C. Peters, MD
Drug Repurposing for Patients with Asthma: Re-Evaluating Our Armamentarium
Primary Speaker - Pre-Recorded: Dinah Foe, MD

Pre-Recorded Symposium

5109 Childhood Asthma: How Does it Begin? Can We Prevent it? 
Credits: 1.25 CME/CE
Asthma Inception: Infectious Agents and Antibiotics Interplay
Primary Speaker - Pre-Recorded: Avraham Beigelman, MD MSCI FAAAAI
Vitamins, Metabolites and Asthma Inception
Primary Speaker - Pre-Recorded: Kathleen Lee-Sarwar, MD, MS
Not Only Physical Factors: The Role of Stressogenic Environment
Primary Speaker - Pre-Recorded: Sima K. Ramratnam, MD MPH

Pre-Recorded Symposium

5110 Is Severe Asthma Management Different Across the Age Spectrum? 
Credits: 1.25 CME/CE
Special Considerations in the Management of Severe Asthma in Older Adults
Primary Speaker - Pre-Recorded: Alan P. Baptist, MD MPH FAAAAI
Special Considerations in the Management of Severe Asthma in the Adolescence
Primary Speaker - Pre-Recorded: Caroline Horner, MD FAAAAI
Special Considerations in the Management of Severe Asthma in the Preschool- and School-Aged Child
Primary Speaker - Pre-Recorded: Ronina Covar, MD FAAAAI

Pre-Recorded Symposium

5111 Biologic Selection in Patients with Asthma, Allergic Rhinitis and Atopic Dermatitis 
Credits: 1.25 CME/CE
Approach to Switching Biologic Therapy and the Concept of Multiple Therapies
Primary Speaker - Pre-Recorded: Thomas B. Casale, MD FAAAAI
Asthma Biologic Selection and Impact on Other Atopic Disorders
Primary Speaker - Pre-Recorded: Mario Castro, MD MPH
Existing and New Biologics for Atopic Dermatitis and Beyond
Primary Speaker - Pre-Recorded: James T. Li, MD PhD FAAAAI

Pre-Recorded Symposium

5112 Recognizing and Treating Interstitial Lung Disease in Primary Immunodeficiency 
Credits: 1.25 CME/CE
Role of the Pulmonologist in Diagnosis
Primary Speaker - Pre-Recorded: Alicia Casey, MD
Pathology Diagnosis of Interstitial Lung Disease
Primary Speaker - Pre-Recorded: Sara Vargas, MD
Disease Targeted Therapy for Management of Primary Immune Deficiency Associated Interstitial Lung Disease
Primary Speaker - Pre-Recorded: Tory R. Torgerson, MD PhD
<table>
<thead>
<tr>
<th>Pre-Recorded Symposium</th>
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<tbody>
<tr>
<td><strong>5113</strong></td>
<td><strong>5117</strong></td>
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<tr>
<td>Immune Pathway Targeting with Biologics for the Treatment of Inflammatory Conditions ✔</td>
<td>Harnessing Available Data in Answering Important Questions About Allergic/Immunologic Diseases ✔</td>
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<td>Credits: 1.25 CME/CE</td>
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<tr>
<td>Targeting IL-6 and IL-17 Pathways in Autoimmune Disease</td>
<td>Overview of the Data Sources Currently Used for Allergy/Immunology Research in the Current Peer Reviewed Literature</td>
</tr>
<tr>
<td>Primary Speaker - Pre-Recorded: Eveline Y. Wu, MD MSCR</td>
<td>Primary Speaker - Pre-Recorded: Ayobami Akenroye, MD MPH</td>
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<tr>
<td>Biologics Targeting T Cells: Outcomes and Adverse Effects</td>
<td>Use of National and Publicly Available Surveys</td>
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<tr>
<td>Primary Speaker - Pre-Recorded: Mandy L. Ford, PhD</td>
<td>Primary Speaker - Pre-Recorded: Corinne Keet, MD MS PhD</td>
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<tr>
<td>B Cell Targeted Therapy and Immune Consequences</td>
<td>Leveraging Longitudinal Data From Consortia/Clinical Trial Networks</td>
</tr>
<tr>
<td>Primary Speaker - Pre-Recorded: Iris M. Otani, MD FAAAAI</td>
<td>Primary Speaker - Pre-Recorded: James E. Gern, MD FAAAAI</td>
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<th>Pre-Recorded Symposium</th>
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<tr>
<td><strong>5114</strong></td>
<td><strong>5118</strong></td>
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<tr>
<td>The Role of the Immune System in Severe COVID-19 Infections ✔</td>
<td>Joint Task Force on Practice Parameters (JTFPP) Guidelines: Practice Parameters, Guidelines, and Updates ✔</td>
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<tr>
<td>Credits: 1.25 CME/CE</td>
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<tr>
<td>Role of NF-kB2 Loss of Function and Development of Severe COVID-19 Disease</td>
<td>Rhinitis Practice Parameter Update</td>
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<tr>
<td>Primary Speaker - Pre-Recorded: Roshini S. Abraham, PhD (ABMLI) FAAAAI</td>
<td>Primary Speaker - Pre-Recorded: Desiree E. Larenas-Linnemann, MD FAAAAI</td>
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<tr>
<td>United Kingdom Experience of Primary Immunodeficiency vs. Symptomatic Secondary Immunodeficiency and Severity of COVID-19 Disease</td>
<td>Drug Allergy Practice Parameter Update</td>
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<tr>
<td>Primary Speaker - Pre-Recorded: Adrian Shields, MBBS MRCP</td>
<td>Primary Speaker - Pre-Recorded: David Khan, MD FAAAAI</td>
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<tr>
<td>Role of Autoantibodies on Interferon Production and Development of Severe COVID-19 Disease</td>
<td>Sinusitis Grading of Recommendations Assessment, Development and Evaluation (GRADE) Guideline</td>
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<tr>
<td>Primary Speaker - Pre-Recorded: Helen C. Su, MD</td>
<td>Primary Speaker - Pre-Recorded: Matthew A. Rank, MD FAAAAI</td>
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<tr>
<td><strong>5115</strong></td>
<td><strong>5119</strong></td>
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<tr>
<td>Hot New Defects in Clinical Immunology ✔</td>
<td>Partnering with Federally Qualified Health Centers (FQHCs) to Advance Research, Education and Specialty Care in Allergy/Immunology for Underserved Patients with Uncontrolled Asthma ✔</td>
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<tr>
<td>Credits: 1.25 CME/CE</td>
<td>Credits: 1.25 CME/CE</td>
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<tr>
<td>Hot New Defects in Combined Immunodeficiency</td>
<td>Engagement with FQHCs for Advancing Research in Allergy/Immunology</td>
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<tr>
<td>Primary Speaker - Pre-Recorded: TBD</td>
<td>Primary Speaker - Pre-Recorded: Maureen George, PhD RN AE-C</td>
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<tr>
<td>Hot New Defects in Autoinflammatory Disorders</td>
<td>Teaching Allergy/Immunology in Community-Based Venues</td>
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<tr>
<td>Primary Speaker - Pre-Recorded: Hal M. Hoffman, MD</td>
<td>Primary Speaker - Pre-Recorded: Margaret Huntwork, MD</td>
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<tr>
<td>Hot New Defects in Antibody Disorders</td>
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<td>Primary Speaker - Pre-Recorded: Neil D. Romberg, MD</td>
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<tr>
<td><strong>5116</strong></td>
<td><strong>5120</strong></td>
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<tr>
<td>Improving Adherence and Outcomes for the Difficult-to-Treat Asthma Patient ✔</td>
<td>Health Disparity and its Devastating Impact on Patients Who Have Combined Chronic Airways Disease: Chronic Rhinosinusitis (CRS) and Asthma ✔</td>
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<td>Credits: 1.25 CME/CE</td>
<td>Credits: 1.25 CME/CE</td>
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<tr>
<td>Electronic Medication Monitoring: Beyond Adherence</td>
<td>Pollution and Socioeconomic Risk Factors Associated with Worse Outcomes in Patients with Combined Chronic Airways Diseases (CRS+Asthma)</td>
</tr>
<tr>
<td>Primary Speaker - Pre-Recorded: William C. Anderson, MD FAAAAI</td>
<td>Primary Speaker - Pre-Recorded: Seong Ho Cho, MD FAAAAI</td>
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<tr>
<td>Diagnosing adherence Status: The Role of Digital Sensors</td>
<td>Efficient and Stiffness Management Practices for CRS+ Asthma Patients Addressing Barriers to Care</td>
</tr>
<tr>
<td>Primary Speaker - Pre-Recorded: Amy Chan, PhD</td>
<td>Primary Speaker - Pre-Recorded: Mahboobeh Mahdavinia, MD PhD</td>
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<tr>
<td>Clinical and Digital Strategies to Promote Medication Adherence for Patients with Asthma</td>
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Pre-Recorded Symposium

**5121** COVID-19 and its Link to Upper Airway Inflammation
- Credits: 1.25 CME/CE
- Clinical Relevance of Atopy and Allergic Rhinitis in COVID-19
  - Primary Speaker - Pre-Recorded: Anjeni Keswani, MD FAAAAI
- Type 2 Inflammation and its Impact On Airway Inflammation in COVID-19
  - Primary Speaker - Pre-Recorded: Monica Kraft, MD FAAAAI
- Smell Loss in COVID-19: Pathogenesis and Clinical Relevance
  - Primary Speaker - Pre-Recorded: Mahboobeh Mahdavinia, MD PhD

Pre-Recorded Symposium

**5122** Refractory Asthma: Can They Smell the Roses?
- Credits: 1.25 CME/CE
- Identify Causes of Hyposmia/Anosmia and How These Etiologies Impact Asthma Management
  - Primary Speaker - Pre-Recorded: Jose L. Mattos, MD MPH
- The Role of Smell Hypersensitivity in Irritable Larynx Syndrome and Management, and its Overlap in Asthma
  - Primary Speaker - Pre-Recorded: Patrick McGarey, Jr., MD

Pre-Recorded Symposium

**5123** Evolving Choosing Wisely: Identifying Vulnerabilities in Allergy/Immunology Care
- Credits: 1.25 CME/CE
- High and Low Value Choosing Wisely Allergy Practices
  - Primary Speaker - Pre-Recorded: Elisa M. Abrams, MD FRCP
- How To Define and Measure Cost Effective Practices in Allergy
  - Primary Speaker - Pre-Recorded: Marcus S. Shaker, MD MS FAAAAI
- How the COVID-19 Pandemic Has Caused A Shift in Choosing Wisely Practices Moving Forward
  - Primary Speaker - Pre-Recorded: David Stukus, MD FAAAAI

Pre-Recorded Symposium

**5124** Structural Racism and COVID-19: Lessons Learned About Achieving Racial Equity in Research, Vaccine Uptake and Asthma
- Credits: 1.25 CME/CE
- More than the Tuskegee Experiment: Improving Diversity in COVID-19 Clinical Trials
  - Primary Speaker - Pre-Recorded: Akillah A. Jefferson, MD MSc
- Consequences of Interpersonal Discrimination, Perceived Stress, and Community Violence in Asthma Outcomes During COVID-19
  - Primary Speaker - Pre-Recorded: Rosalind J. Wright, MD MPH
- Vaccine Hesitancy vs. Vaccine Access: Equitable COVID-19 Vaccine Distribution and Uptake
  - Primary Speaker - Pre-Recorded: Tukisa Smith, MD MS

Pre-Recorded Symposium

**5125** Personalized Medicine and Rhinitis
- Credits: 1.25 CME/CE
- Endotypes and Phenotypes of Rhinitis
  - Primary Speaker - Pre-Recorded: Peter W. Hellings, MD
- Biomarkers for Allergy Immunotherapy (AIT)
  - Primary Speaker - Pre-Recorded: Stephen R. Durham, MA MD FRCP
- WAO, ARIA and GA2LEN Consensus on Molecular-Based Allergy Diagnosis
  - Primary Speaker - Pre-Recorded: Ignacio J. Ansotegui, MD PhD

Pre-Recorded Symposium

**5126** Allergen Diagnostics: Component Testing for Respiratory Allergens
- Credits: 1.25 CME/CE
- Component-Resolved Diagnostics in Pet, Pollen and Venom Immunotherapy Composition
  - Primary Speaker - Pre-Recorded: Joaquín Sastre, MD PhD FAAAAI
- Available Allergens for Component Diagnostics and Use in Clinical Practice
  - Primary Speaker - Pre-Recorded: Jay M. Portnoy, MD FAAAAI

Pre-Recorded Symposium

**5127** Diagnosis in Allergic Respiratory Diseases: Beyond Detection of Immunoglobulin E (IgE)
- Credits: 1.25 CME/CE
- Challenge Testing in the Post-COVID-19 Era
  - Primary Speaker - Pre-Recorded: Antonella Cianferoni, MD PhD FAAAAI
- Nasal Challenge Tests: Readouts Beyond Symptom Scores
  - Primary Speaker - Pre-Recorded: Mohamed H. Shamji, BSc MSc PhD FAAAAI

Pre-Recorded Symposium

**5128** Non-Surgical Treatment for Chronic Rhinosinusitis with Nasal Polyps (CRSwNP)
- Credits: 1.25 CME/CE
- Chronic Sinusitis with Nasal Polyp Pathophysiology
  - Primary Speaker - Pre-Recorded: Andrew P. Lane, MD
- Treatment and Evidence for Non-Surgical Management of Nasal Polyps
  - Primary Speaker - Pre-Recorded: Anju T. Peters, MD MSCI FAAAAI
- Application of Treatment Choices for Nasal Polyps
  - Primary Speaker - Pre-Recorded: Peter W. Hellings, MD
### Pre-Recorded Symposium

**5129** Updates from the Bench: Novel Insights into The Pathophysiology of Chronic Rhinosinusitis (CRS) and Potential Applications for Clinical Therapies
- **Credits:** 1.25 CME/CE
- **The Role of B Cells and Antibodies in Chronic Rhinosinusitis Pathogenesis**
  - Primary Speaker - Pre-Recorded: Kathleen M. Buchheit, MD FAAAAI
- **The Importance of Granulocytes in Chronic Rhinosinusitis Pathogenesis**
  - Primary Speaker - Pre-Recorded: Whitney W. Stevens, MD PhD FAAAAI
- **Addressing Barrier Dysfunction in Chronic Rhinosinusitis**
  - Primary Speaker - Pre-Recorded: Nora A. Barrett, MD FAAAAI

### Pre-Recorded Symposium

**5130** Endotypes and Phenotypic Implications of Chronic Rhinosinusitis (CRS)
- **Credits:** 1.25 CME/CE
- **Variations in Inflammatory Endotypes in Chronic Rhinosinusitis**
  - Primary Speaker - Pre-Recorded: Justin Turner, MD
- **The Relationship Among Surgical Outcomes, Phenotypes and Endotypes in Chronic Rhinosinusitis**
  - Primary Speaker - Pre-Recorded: Bruce K. Tan, MD MS
- **Impact of Chronic Rhinosinusitis Endotypes and Phenotypes on the Lower Airway**
  - Primary Speaker - Pre-Recorded: Whitney W. Stevens, MD PhD FAAAAI

### Pre-Recorded Symposium

**5131** Multidisciplinary Approach to the Management of Chronic Rhinosinusitis
- **Credits:** 1.25 CME/CE
- **Step-Wise Approach for the Management of CRSwNP**
  - Primary Speaker - Pre-Recorded: Jivianne K. Lee, MD
- **Innovative Medical Management of CRSwNP**
  - Primary Speaker - Pre-Recorded: Daniel L. Hamilos, MD

### Pre-Recorded Symposium

**5122** Human Group 2 Innate Lymphoid Cells (ILC2s): Rapidly Moving into Clinical Relevance
- **Credits:** 1.25 CME/CE
- **Human Lung-Specific ILC2 Imprinting Using Single-Cell RNA-Sequencing**
  - Primary Speaker - Pre-Recorded: Jenny Mjosberg
- **Induction of IL-10+ ILC2s During Allergen Immunotherapy**
  - Primary Speaker - Pre-Recorded: Mohamed H. Shamji, BSc MSc PhD FAAAAI

### Pre-Recorded Symposium

**5133** Allied Health: The Challenges of Food Challenges: the Good, the Bad and the Ugly
- **Credits:** 1.25 CME/CE
- **Guidance on Difficulties with Food Challenge Administration Including Anxiety and Food Refusal**
  - Primary Speaker - Pre-Recorded: Megan Ott Lewis, MSN CRNP
- **Improving your Clinical Practice: Understanding Different Types of Food Challenges and Their Associated Procedures**
  - Primary Speaker - Pre-Recorded: Christopher P. Parrish, MD FAAAAI
- **Issues Related to Food Challenges for Pediatric Age Groups: Infancy, Childhood and Adolescence**
  - Primary Speaker - Pre-Recorded: Amanda L. Cox, MD FAAAAI

### Pre-Recorded Symposium

**5134** Allied Health: Research Studies and Oral Immunotherapy (OIT): One Size Does Not Fit All
- **Credits:** 1.25 CME/CE
- **Difficulties with Research Food OIT: Tips and Tricks to Help the Research Staff Improve Compliance During Administration**
  - Primary Speaker - Pre-Recorded: Jaime E. Ross, RN MSN
- **Which Patients are Best for Food Allergy Research OIT Programs? Identification of Patients Best Suited for an OIT Program**
  - Primary Speaker - Pre-Recorded: Amy Arneson, RN
- **Food Allergy Research OIT: Common Issues Affecting the Research Coordinator and Best Practices**
  - Primary Speaker - Pre-Recorded: Kaylee D. Lirely, BSN RN

### Pre-Recorded Symposium

**5135** Allied Health: Asthma and Obesity
- **Credits:** 1.25 CME/CE
- **The Role of the Maternal and Infant Diet in Asthma Prevention**
  - Primary Speaker - Pre-Recorded: Carina Venter, PhD RD
- **The Role of Weight Status in Asthma Management**
  - Primary Speaker - Pre-Recorded: Alexia K. Beauregard, MS RD CSP LD

### Pre-Recorded Symposium

**5136** Allied Health: Food Insecurity in the Food Allergic Population
- **Credits:** 1.25 CME/CE
- **How and Why to Screen for Food Insecurity**
  - Primary Speaker - Pre-Recorded: Jodi A. Shroba, MSN APRN CPNP
- **How Can We Help Our Food Insecure Patients**
  - Primary Speaker - Pre-Recorded: Emily Brown
- **Food Insecurity: How Big is the Problem?**
  - Primary Speaker - Pre-Recorded: Ruchi S. Gupta, MD MPH
### Pre-Recorded Symposium

#### 5137 Allied Health: Immunoglobulin E (IgE) or Not

**Immunoglobulin E (IgE): This is the Dilemma - Emerging Food Allergies**
- Credits: 1.25 CME/CE
- Primary Speaker - Pre-Recorded: Anna H. Nowak-Wegrzyn, MD PhD FAAAAI

**Food Protein Enterocolitis: At the Crossroads Between IgE and Non-IgE Mediated Food Allergy**
- Primary Speaker - Pre-Recorded: Anna H. Nowak-Wegrzyn, MD PhD FAAAAI

**Eosinophilic Esophagitis: A Non-IgE Mediated Food Allergy That Affects Mostly Atopic Individuals**
- Primary Speaker - Pre-Recorded: Antonella Cianferoni, MD PhD FAAAAI

**What if it is Not Food Allergy: Differential Diagnosis**
- Primary Speaker - Pre-Recorded: Mirna Chehade, MD MPH FAAAAI

#### 5139 Allied Health: You Down with Regulatory, Yeah You Know Me

**Credits: 1.25 CME/CE**
- **IRB Issues Affecting the Allergy Research Coordinator**
  - Primary Speaker - Pre-Recorded: Kim E. Mudd, RN MSN CCRP
- **Strategies to Manage Research Monitoring and Good Clinical Practice for the Coordinator**
  - Primary Speaker - Pre-Recorded: Elizabeth Johnson, LPN

#### 5140 Allied Health: Let the Babies Eat! How Healthcare Professionals Can Motivate Parents to Prevent Food Allergies

**Credits: 1.25 CME/CE**
- **2020 USDA Guidelines for Early Introduction of Food Allergens and Prevention**
  - Primary Speaker - Pre-Recorded: Carina Venter, PhD RD
- **Practical Application to Meet Guidelines and Transition Into a Life-Long Healthy Dietary Pattern**
  - Primary Speaker - Pre-Recorded: Marion E. Groetch, MS RDN
- **Motivational Interviewing Related to Food Allergy Prevention**
  - Primary Speaker - Pre-Recorded: Jennifer S. Lebovidge, PhD

#### 5141 Allied Health: Oral Immunotherapy to Foods: It Takes a Village

**Credits: 1.25 CME/CE**
- **When Oral Immunotherapy Goes Off Track**
  - Primary Speaker - Pre-Recorded: Kim E. Mudd, RN MSN CCRP
- **Developing the Food Equivalent Protocols**
  - Primary Speaker - Pre-Recorded: Marion E. Groetch, MS RDN
- **Shared Decision Making to Select and Prepare Food Allergic Patients For an Oral Immunotherapy Program**
  - Primary Speaker - Pre-Recorded: Amanda L. Cox, MD FAAAAI

#### 5142 Allied Health: Demystifying Epinephrine

**Credits: 1.25 CME/CE**
- **Being Comfortable with Epinephrine in All Scenarios: Food Challenges, Home and School**
  - Primary Speaker - Pre-Recorded: Jennifer Fishman, RN BSN
- **A Deep Dive into Epinephrine as a Medication for the Treatment of Anaphylaxis**
  - Primary Speaker - Pre-Recorded: Lauren Herlihy, RN MSN CPNP
- **Epinephrine and the Anaphylaxis Guidelines**
  - Primary Speaker - Pre-Recorded: Amanda S. Troger, BSN RN

#### 5143 Recent Advancements in the Mechanisms of Chronic Rhinosinusitis (CRS)

**Credits: 1.25 CME/CE**
- **Type 2 Inflammation in Chronic Rhinosinusitis**
  - Primary Speaker - Pre-Recorded: Taylor A. Doherty, MD FAAAAI
- **Non-Type 2 Inflammation in Chronic Rhinosinusitis**
  - Primary Speaker - Pre-Recorded: Atsushi Kato, PhD
- **Coagulation and Nasal Polyp Formation**
  - Primary Speaker - Pre-Recorded: Tetsuji Takabayashi, MD PhD

#### 5144 COVID-19 and Allergen Immunotherapy

**Credits: 1.25 CME/CE**
- **The Interplay Between COVID-19 Infection and Immunotherapy**
  - Primary Speaker - Pre-Recorded: Desiree E. Larenas-Linnemann, MD FAAAAI
- **Lessons Learned From The COVID-19 Pandemic From the National Immunotherapy Surveillance Study**
  - Primary Speaker - Pre-Recorded: Tolly Epstein, MD MS FAAAAI
- **Dose Adjustment After Gaps in Immunotherapy**
  - Primary Speaker - Pre-Recorded: Punita Ponda, MD FAAAAI

#### 5201 Problems in the Diagnosis and Management of Insect Allergy

**Credits: 1.25 CME/CE**
- **Which Tests Should I Do (and How Many)?**
  - Instructor Pre-Recorded: James M. Quinn, MD FAAAAI
- **Beta Blockers and ACE Inhibitors, Oh No!**
  - Instructor Pre-Recorded: David B. Golden, MD FAAAAI
- **Should I Test This Patient (or Why Not)?**
  - Instructor Pre-Recorded: James M. Tracy, DO FAAAAI
Pre-Recorded Scientific Sessions

Pre-Recorded Workshop
5202 Asthma Exacerbations in Childhood: Risk Factors, Consequences, Causes and Ways to Alter Them
Credits: 1.25 CME/CE
Risk Factors and Consequences of Asthma Exacerbations in Childhood
Instructor Pre-Recorded: Daniel J. Jackson, MD FAAAAI
Infectious Causes of Asthma Exacerbations
Instructor Pre-Recorded: Joshua L. Kennedy, MD FAAAAI
Non-Infectious Causes of Asthma Exacerbations
Instructor Pre-Recorded: Matthew C. Altman, MD

Pre-Recorded Workshop
5203 Viral Vaccines for Asthma
Credits: 1.25 CME/CE
Therapeutic Monoclonal Antibodies to Respiratory Viruses
Instructor Pre-Recorded: James Crowe, Jr., MD

Pre-Recorded Workshop
5204 The Know-How of Immunoglobulin Replacement Therapy and Management
Credits: 1.25 CME/CE
The Know-How of Immunoglobulin Replacement Therapy and Management
Instructor Pre-Recorded: Kelli W. Williams, MD MPH FAAAAI
The Know-How of Immunoglobulin Replacement Therapy and Management
Instructor Pre-Recorded: Monica G. Lawrence, MD FAAAAI
The Know-How of Immunoglobulin Replacement Therapy and Management
Instructor Pre-Recorded: Bob Geng, MD

Pre-Recorded Workshop
5205 Antibody Deficiency Syndromes and Lung Disease
Credits: 1.25 CME/CE
Antibody Deficiency in Patients with Chronic Obstructive Pulmonary Disease (COPD) Exacerbations
Instructor Pre-Recorded: Antoine Azar, MD FAAAAI
End-Stage Lung Disease and Transplant in Antibody Deficiency
Instructor Pre-Recorded: Andrej A. Petrov, MD FAAAAI

Pre-Recorded Workshop
5206 Diagnosis and Management of Secondary Hypogammaglobulinemia
Credits: 1.25 CME/CE
Diagnosis and Management of Secondary Hypogammaglobulinemia
Instructor Pre-Recorded: Sara Barmettler, MD
Diagnosis and Management of Secondary Hypogammaglobulinemia
Instructor Pre-Recorded: Antoine Azar, MD FAAAAI
Diagnosis and Management of Secondary Hypogammaglobulinemia
Instructor Pre-Recorded: Mildred Kwan, MD PhD FAAAAI

Pre-Recorded Workshop
5207 Vaccination and the Allergist/Immunologist
Credits: 1.25 CME/CE
The Role of the Allergist/Immunologist in Adverse Vaccine Reactions
Instructor Pre-Recorded: Ashwini Reddy, MD FAAAAI
Utilization of Vaccines in Special Populations
Instructor Pre-Recorded: Cosby A. Stone, MD MPH
Emerging Vaccines at Home and Abroad
Instructor Pre-Recorded: Reena S. Mehta, MD FAAAAI

Pre-Recorded Workshop
5208 The Role of Fungi in Difficult to Control Asthma
Credits: 1.25 CME/CE
Can We improve the Criteria for Diagnosis of Allergic Bronchopulmonary Aspergillosis (ABPA)? An Update on Diagnostics in ABPA and Fungal Associated Difficult to Control Asthma
Instructor Pre-Recorded: Paul A. Greenberger, MD FAAAAI
Developments in the Management of Fungal-Associated Difficult to Control Asthma: The Possible Role of Biologics and Inhaled Antifungals
Instructor Pre-Recorded: Richard B. Moss, MD

Pre-Recorded Workshop
5209 Dynamic Interactions of Pollen and the Environment with Allergic and Respiratory Disease
Credits: 1.25 CME/CE
Aerobiology and Climate Change
Instructor Pre-Recorded: Gennaro D’Amato, MD FAAAAI
Pollen Impact on COVID-19
Instructor Pre-Recorded: Claudia Traidl-Hoffmann, MD

Pre-Recorded Workshop
5210 How an Engaging Allergy/Immunology Elective Grows Your Practice and Our Specialty
Credits: 1.25 CME/CE
Teaching Resources to Enhance Your Elective
Instructor Pre-Recorded: Allyson S. Larkin, MD FAAAAI
Tips and Tricks on Teaching a New Generation of Learners
Instructor Pre-Recorded: Laura J. West, MD
Assessing Learner Performance and Giving Effective Feedback
Instructor Pre-Recorded: Tricia D. Lee, MD
Pre-Recorded Scientific Sessions

Pre-Recorded Workshop

5211  AllergoOncology: The Link Between Immunology, Allergy and Oncology
Credits: 1.25 CME/CE
Instructor Pre-Recorded: Sophia N. Karagiannis, PhD
IgE Deficiency as a Possible Biomarker for Malignancy Susceptibility
Instructor Pre-Recorded: Denisa E. Ferastoaaru, MD
Danger Signals in Allergy and Oncology
Instructor Pre-Recorded: Aurelie Poli

5212  Beyond Immunoglobulin E (IgE): Reconsidering Mechanisms of Mast Cell Activation in Clinical Allergy
Credits: 1.25 CME/CE
Updates in Mast Cell Activation: Revisiting the Diagnosis and Mechanisms of Anaphylaxis
Instructor Pre-Recorded: Catherine R. Weiler, MD PhD FAAAAI
MRGPRX2 in the Clinic: Implications for Allergic Dermatologic Disease
Instructor Pre-Recorded: Marcus Maurer, MD
Translating Discoveries in Mast Cell Activation into Personalized Medicine for Drug Allergy
Instructor Pre-Recorded: Dinah Foer, MD

5213  New Insights into the Immune Mechanisms of Severe Asthma
Credits: 1.25 CME/CE
Immunological Phenotypes of Severe Asthma
Instructor Pre-Recorded: Sally E. Wenzel, MD FAAAAI
Immune Mechanisms of Type 2-High Asthma
Instructor Pre-Recorded: Marsha A. Wills-Karp, PhD
Immune Mechanisms of Type 2-Low Asthma
Instructor Pre-Recorded: Bruce D. Levy, MD

5214  Novel Aspects of Airway Inflammation in Response to Environmental Challenges
Credits: 1.25 CME/CE
Neutrophil Activation Following Environmental Exposures
Instructor Pre-Recorded: Hae-Sim Park, MD PhD FAAAAI
Airway Epithelium as Primary Effector Organ to Environmental Changes
Instructor Pre-Recorded: Chris Carlsten, MD

Pre-Recorded Workshop

5215  Thinking Beyond Lymphocytes in Asthma: Platelets as Immune Cells
Credits: 1.25 CME/CE
Platelets in the Asthmatic Lung: How They Get There and What They Are Doing
Instructor Pre-Recorded: Simon Pitchford, MD
Leukotriene and Platelet Interplay in Asthma
Instructor Pre-Recorded: Joshua A. Boyce, MD FAAAAI
Targeting Platelets in Asthma: Prior Attempts and Future Directions
Instructor Pre-Recorded: Katherine N. Cahill, MD FAAAAI

5216  The Origin and Fate of Immunoglobulin E (IgE) - Switched B Cells
Credits: 1.25 CME/CE
Pre- and Post-Switch Features of IgE B Cells Compared to IgG B Cells
Instructor Pre-Recorded: Christopher D. Allen, PhD
Extra-Nodal Switching to IgE
Instructor Pre-Recorded: Erin M. Janssen, MD PhD
Do Germinal Centers Protect Most of us from Becoming Allergic?
Instructor Pre-Recorded: Rob C. Aalberse, PhD FAAAAI

5217  Allied Health: Navigating Access to Biologics: Medical Benefit, Pharmacy Benefit and Copay Assistance
Credits: 1.25 CME/CE
Navigating Access to Biologics: Understanding the Complexity of Pre-Service Review
Instructor Pre-Recorded: Elizabeth Johnson, LPN

5218  Allied Health: Telemedicine Tips for Advanced Practice Providers
Credits: 1.25 CME/CE
Which Allergy Patients and Conditions Are Best Suited for Telemedicine?
Instructor Pre-Recorded: Christopher P. Parrish, MD FAAAAI
How To Meet the Needs of Your Patient While Improving Care for Allergy Patients and Using Telemedicine
Instructor Pre-Recorded: Amanda L. Cox, MD FAAAAI

5219  Update from the U.S. Food and Drug Administration
Credits: 1.25 CME/CE
FDA Year-in-Review
Instructor Pre-Recorded: Jennifer Lan, MD
Center for Drug Evaluation and Research: Hot Topics
Instructor Pre-Recorded: Katherine E. Clarridge, MD MS
Center for Biologic Evaluation and Research: Hot Topics
Instructor Pre-Recorded: Anubha Tripathi, MD
Pre-Recorded Symposium

5220 National Heart, Lung, and Blood Institute (NHLBI):
Innovation in School-Based Asthma Care
School-Based Asthma Care: Overview and Closing the Loop With
Primary Care Providers
Jill Halterman, MD MPH
Innovation in Implementation of School-Based Asthma Programs
Kimberly Arcoleo, PhD MPH
Paying Attention to the Rules: Getting Inhalers to Students
Lynn Gerald, PhD MSPH
Extending the Reach of School-Based Asthma Care: Community
Health Workers
Tyra Bryant-Stephens, MD

Pre-Recorded Debate

5301 Treatment of Aspirin Exacerbated Respiratory Disease
(AERD): Surgery and Aspirin (ASA) Desensitization
Should Be the Standard of Care
Credits: 1.00 CME/CE
Biologic Therapy has Minimal Side Effects and Should Be the
Preferred Therapy in AERD
Primary Speaker - Pre-Recorded: Andrew White, MD FAAAAI
Surgery and Aspirin are Cost Effective and Should be Used First
in AERD
Primary Speaker - Pre-Recorded: Katherine N. Cahill, MD FAAAAI

Pre-Recorded Debate

5302 Oral Food Challenges in Infants Are Necessary
Credits: 1.00 CME/CE
Food Challenges are Necessary in Infants
Primary Speaker - Pre-Recorded: Corinne Keet, MD MS PhD
Food Challenges are Necessary in Infants
Primary Speaker - Pre-Recorded: Michael Pistiner, MD MMScc
Food Challenges are Not Necessary in Infants
Primary Speaker - Pre-Recorded: Sharon Chinthrajah, MD FAAAAI

Pre-Recorded Debate

5303 Eosinophils Are Important in Chronic Rhinosinusitis
Pathogenesis
Credits: 1.00 CME/CE
Eosinophils Are Important Contributors to Chronic Rhinosinusitis
(CRS) Pathogenesis
Primary Speaker - Pre-Recorded: Bart N. Lambrecht, MD PhD
Eosinophils Do Not Significantly Contribute to Chronic
Rhinosinusitis (CRS) Pathogenesis
Primary Speaker - Pre-Recorded: Larry Borish, MD FAAAAI
Supporting every area of your practice every day

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MOVING FORWARD

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JULY 22-24
WASHINGTON, DC

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Because Practice Matters! to the AAAAI
ACGME Competency Index

To contribute to the development of our members as lifelong learners and to enhance the effectiveness of the CME activities it provides, the AAAAI uses the six competencies defined by the Accreditation Council for Graduate Medical Education (ACGME) to guide its educational programming decisions. The six competencies are:

- Patient Care
- Medical Knowledge
- Practice-Based Learning and Improvement
- Interpersonal and Communication Skills
- Professionalism
- Systems-Based Practice

All sessions at the Annual Meeting address the competencies of Patient Care and Medical Knowledge. Below is a list of sessions that address the other competencies:

**Interpersonal and Communication Skills**
1209, 1212, 1528, 1805, 2021, 2501, 3305, 3503, 4005, 4701

**Professionalism**
1110, 1207, 1209, 1250, 1504, 1527, 1528, 2405, 2803, 3305

**Systems-Based Practice**
0001, 1101, 1208, 1503, 1510, 1526, 1802, 2306, 2501, 3305, 3701, 3706, 4307

For more information about the ACGME’s physician competencies, visit http://www.acgme.org.
AbbVie
1 North Waukegan Road
ABV1 3SW 306 06
North Chicago, IL 60064
(224) 358-7407
https://www.abbvie.com/
Booth #1151
Pharmaceuticals
AbbVie’s mission is to discover and deliver innovative medicines that solve serious health issues today and address the medical challenges of tomorrow. We strive to have a remarkable impact on people’s lives across several key therapeutic areas: immunology, oncology, neuroscience, eye care, virology, women’s health and gastroenterology.

ABISA
PO Box 1465
Valrico, FL 33595
(813) 486-6449
https://www.abisallc.com
Booth #1423
Office Management
ABISA is a transactional consultancy assisting physicians with strategic initiatives such as: Succession Planning, Mergers, Physician Partnerships, MSOs, Strategic Planning, and Private Equity Investors.

Accredo
1640 Century Center Parkway
Memphis, TN 38134
(901) 381-5719
https://www.accredo.com
Booth #540
Other
Accredo is a full-service specialty pharmacy dedicated to the treatment of rare and complex conditions. Our comprehensive therapy management programs engage trained pharmacists, nurses, reimbursement specialists, and patient care representatives who provide enhanced support services to patients, their families and healthcare professionals.

ADMA Biologics
5800 Park of Commerce Boulevard
Boca Raton, FL 33487
(561) 989-5800
https://www.admabiologics.com/
Booth #206
Pharmaceuticals
ADMA Biologics is an end-to-end commercial biopharmaceutical company committed to manufacturing, marketing and developing specialty plasma-derived products for the prevention and treatment of infectious diseases in the immune compromised and other patients at risk for infection. Our devotion to these underserved populations fuels us, and our hands-on approach to production and development sets us apart.

Advanced Infusion Care
212 Northside Drive
Valdosta, GA 31602
(229) 242-3060
https://www.aiscaregroup.com
Booth #1411
Immunotherapy
At Advanced Infusion Care, we apply a team approach to intravenous (IV) and subcutaneous (SubQ) immunoglobulin therapy patient care. Collaboration between physicians and the nationally accredited AIC home infusion team ensures the consistent delivery of patient-specific, specialized in-home infusion services to patients across the country, helping to improve outcomes—and lives.

Advocacy & Awareness for Immune Disorders Association (AAIDA)
6201 Fairview Road
Suite 200
Charlotte, NC 28210
(704) 993-8389
http://www.GoDoAaida.org
Booth #230
Patient/Public Education
Since 2017, AAIDA has been dedicated to patients living with immune dysregulation conditions with a focus on, education initiatives, research opportunities and advocacy campaigns at both the State and Federal levels. AAIDA also provides patients and healthcare providers consultations around insurance issues/denials and medication assistance programs available across the U.S.

Aimmune Therapeutics
8000 Marina Boulevard
3rd Floor
Brisbane, CA 94005
(650) 614-5220
https://www.aimmune.com/
Booth #941
Pharmaceuticals
Aimmune Therapeutics, a Nestlé Health Science Company, is a biopharmaceutical company developing and commercializing treatments for potentially life-threatening food allergies and other food-related conditions, including gastrointestinal conditions. Aimmune Therapeutics has one FDA- and EU-approved medicine for peanut allergy and other investigational therapies in development. For more information, please visit www.aimmune.com
**Ajinomoto Cambrooke**

4 Copeland Drive  
Ayer, MA 01432  
(301) 980-6594  
https://essentiallybetter.com  
**Booth #1240**  
**Nutrition**  
Amino acid-based formulas, EquaCare Jr. and Essential Care Jr., for children with food allergies and digestive disorders. EquaCare Jr. the same nutrition and similar taste as other brands, but lower price. Essential Care Jr., first amino acid-based formula with natural ingredients, NO corn syrup solids, artificial flavors or sweeteners.

**ALK-Abelló, Inc.**

135 US Highway 202/206  
Suite 3  
Bedminster, NJ 07921  
(908) 842-8359  
https://www.alk.net/us/  
**Booth #1407**  
**Immunotherapy**  
ALK, Inc. is a global, research-driven pharmaceutical company focused on the diagnosis and treatment of allergies. Our products and services include SLIT-Tablets, Allergy Extracts, Penicillin Allergy Skin Testing, Diagnostic Controls, Skin Testing Systems, Sterile Empty Vials, Diluents, Syringes, Trays, and Patient Education Materials.

**Allergy & Asthma Network**

8229 Boone Boulevard  
Suite 260  
Vienna, VA 22182  
(703) 641-9595  
http://www.allergyasthmanetwork.org  
**Booth #228**  
**Patient/Public Education**  
Patient-centered organization whose mission is to eliminate death and suffering due to allergies, asthma and related conditions through outreach, education, advocacy and research.

**Allergy & Asthma Proceedings**

450 Veterans Memorial Parkway  
Building 15  
East Providence, RI 02914  
(401) 331-2510  
https://allergyasthmaproceedings.com  
**Booth #1332**  
**Publications**  
Allergy & Asthma Proceedings is in its 43rd year of publishing state-of-the-art review articles and original manuscripts on allergy, asthma and immunology. This bi-monthly, peer reviewed publication has an impact factor of 2.587, and a worldwide circulation of 5,000. AAP is available in print and online through www.Ingentaconnect.com

**Allergy Partners**

1978 Hendersonville Road  
Suite 130A  
Asheville, NC 28803  
(828) 277-1300  
https://www.allergypartners.com  
**Booth #441**  
**Physician Recruitment**  
Allergy Partners is the nation’s largest allergy, asthma, and immunology practice. Our network spans 20 states and encompasses over 137 total locations of care. As our reputation continues to grow, we are committed to our vision and to bringing only the best physicians and practices into our network.

**AllergyEHR a division of Meditab Software, Inc.**

1420 River Park Drive  
Suite 120  
Sacramento, CA 95815  
(510) 201-0130  
https://www.allergyehr.com/  
**Booth #331**  
**Computer Hardware/Software**  
AllergyEHR is an award-winning pioneer in allergy and immunology software, eliminating the need for multiple systems by integrating every facet of your operations, from your EHR to immunotherapy, into an all-inclusive platform. Our allergy-specific solution combines a certified, adaptable EHR into a single platform with mobile, billing, and full Practice Management solutions.

**AllerVie Health**

4975 Preston Park Boulevard  
800  
Plano, TX 75093  
(469) 922-3795  
https://www.allervie.com/  
**Booth #1343**  
**Physician Recruitment**  
AllerVie Health is a national network of board-certified allergists and immunologists partnering together for the advancement and expansion of patient care, bringing relief and renewed vitality to those suffering from allergies, asthma, and related immunological conditions.

**Altus Biologics**

11233 Shadow Creek Parkway  
Suite 303  
Pearland, TX 77584  
(409) 718-1131  
http://www.altusbiolgics.com/  
**Booth #444**  
**Immunotherapy**  
Altus Biologics partners with physicians across multiple specialties to provide comprehensive, in-office infusion and subcutaneous injection services. At Altus Biologics, we are committed to improving access, quality of care and affordability for all patients.
Aluna
345 California Street
Suite 700
San Francisco, CA 94104
(415) 320-0690
https://alunacare.com/
Booth #345
Spirometry
Aluna is an award-winning at-home spirometer that helps patients with asthma take control of their lung health. It is a revolutionary way for patients and their doctors to have a daily understanding of lung health, medication use, and exposure to environmental risk factors.

American Board of Allergy and Immunology
1835 Market Street
Suite 1210
Philadelphia, PA 19103
(215) 592-9466
https://abai.org
Booth #238
Physician Education
The ABAI was established in 1971 as a Conjoint Board of the ABIM and ABP. The internal medicine subspecialty existed from 1936-1971 and the pediatric subspecialty existed from 1944-1971. The ABAI is committed to working closely with its parent boards to maintain the highest educational and clinical standards in the specialty of allergy/immunology.

American Partnership for Eosinophilic Disorders
PO Box 29545
Atlanta, GA 30359
(713) 493-7749
https://apfed.org/
Booth #234
Patient/Public Education
The future and long-term vision of APFED is to become an all-encompassing eosinophil advocacy organization. APFED hopes to represent most eosinophil-associated diseases disorders. By continuing to cultivate successful working relationships with physicians’ organizations we hope to bridge the gap between patient and doctor.

Amgen/AstraZeneca
1800 Concord Pike
Wilmington, DE 19803
(800) 236-9933
https://www.tezspirehcp.com/
Booth #1207
Pharmaceuticals
Amgen and AstraZeneca have partnered together to bring new and innovative science to an area where challenges still exist. The partnership leverages both companies’ respective capabilities including AstraZeneca’s extensive respiratory experience and Amgen’s deep history in inflammatory diseases and bringing novel therapies to patients.

ARS Pharmaceuticals, Inc.
3525 Del Mar Heights Road
855
San Diego, CA 92130
(858) 799-1840
http://ars-pharma.com
Booth #333
Pharmaceuticals
Our mission at ARS Pharmaceuticals is to provide at-risk patients and their families superior protection from severe allergic reactions. We are developing a product that patients and their caregivers can use without anxiety or hesitation, confident in both the product and the ability to administer it.

Aspire Allergy & Sinus
5929 Balcones Drive
Austin, TX 78731
(210) 556-6131
http://www.aspireallergy.com
Booth #1258
Physician Recruitment
Aspire Allergy & Sinus is a leader in allergy and sinus care. We are currently in 5 states and looking to expand patient services through acquisition opportunities with reputable practices. With Aspire, physicians can continue to care for their patients, secure their future without the hassles of running a practice.
Asthma and Allergy Foundation of America (AAFA)

1235 South Clark Street
Suite 305
Arlington, VA 22202
(202) 466-7643
https://www.aafa.org

Exhibits #250
Patient/Public Education
The Asthma and Allergy Foundation of America (AAFA) is the oldest and largest nonprofit patient organization dedicated to improving the quality of life for people with asthma, allergies and related conditions through support, advocacy, education and research. Visit aafa.org or kidswithfoodallergies.org to learn more.

AstraZeneca

1800 Concord Pike
Wilmington, DE 19803
(800) 236-9933
https://www.astrazeneca-us.com/

Exhibits #406
Pharmaceuticals
AstraZeneca is a global, science-led biopharmaceutical company that focuses on the discovery, development and commercialization of prescription medicines in Oncology and BioPharmaceuticals, including Cardiovascular, Renal&Metabolism, and Respiratory&Immunology. Based in Cambridge, UK, AstraZeneca operates in over 100 countries, and its innovative medicines are used by millions of patients worldwide. www.astrazeneca-us.com

BioCryst Pharmaceuticals, Inc.

4505 Emperor Boulevard
Suite 200
Durham, NC 27703
(919) 226-5852
https://www.biocryst.com/

Exhibits #223
Pharmaceuticals
BioCryst is a biotech company committed to discovering novel, oral, small-molecule medicines that treat rare diseases in which significant unmet medical needs exist. We’re dedicated to delivering extraordinary medicines that empower patients to live ordinary lives. In December 2020, the FDA approved ORLASEYO (berotralstat).

Blueprint Medicines

45 Sidney Street
Cambridge, MA 02139
(617) 374-7580
http://www.blueprintmedicines.com

Exhibits #458
Pharmaceuticals
Blueprint Medicines is a global precision therapy company that aims to invent transformative medicines for people with cancer and hematologic disorders. We are delivering our approved therapies to patients in the United States and Europe, and we are globally advancing multiple programs for genomically defined cancers, systemic mastocytosis, and cancer immunotherapy.

Chemotechnique Diagnostics / Dormer Laboratories

91 Kelfield Street
Unit 5
Toronto, ON M9W 5A3
Canada
(416) 242-6167
http://dormer.com

Exhibits #311
Diagnostic Testing
Chemotechnique Diagnostics, Malmo, Sweden, since 1981 recognized world leader in patch testing allergens and accessories. Over 550 total allergens, with 45 specialized series. “I-Q” Chambers, most advanced leak-free cells, are utilized on both IQ-ULTRA and IQ-ULTIMATE chamber formats. Dormer Laboratories Inc. is Chemotechnique’s North American Distributor.

Chiesi Global Rare Diseases

One Boston Place
Boston, MA 02108
(774) 245-2064
https://www.chiesiglobalrarediseases.com/

Exhibits #1427
Pharmaceuticals
Chiesi Global Rare Diseases is a business unit of the Chiesi Group established in February 2020 and focused on research and development of treatments for rare and ultra-rare disorders. For more information visit https://www.chiesiglobalrarediseases.com/.
**Circassia Inc.**
1100 Perimeter Park Drive
Suite 114
Morrisville, NC 27560
(919) 655-7129
https://www.niox.com
Booth #1233
Diagnostic Testing
NIOX® is the gold standard FeNO analyzer from Circassia, the world leader in FeNO testing. NIOX VERO® accurately assesses airway inflammation at the point-of-care by measuring fractional exhaled nitric oxide (FeNO). Accurate, reliable, and straightforward, NIOX VERO can help diagnose asthma, optimize treatment, reduce exacerbations, and uncover non-adherence to medication.

**Code Ana**
123 Metairie Road
Metairie, LA 70005
(617) 584-9181
https://codeana.org/
Booth #254
Patient/Public Education
Code Ana equips K-12 and preschool staff to be prepared for medical emergencies like anaphylaxis through online learning courses, in-person and virtual workshops, and collaborations with other like-minded organizations. Please visit our website at https://codeana.org/.

**CSL Behring**
1020 First Avenue
King of Prussia, PA 19406
(610) 878-4000
https://www.cslbehring.com
Booth #1434
Pharmaceuticals
CSL Behring is a global biotherapeutics leader driven by our promise to save lives. We meet patients’ needs using the latest technologies to develop and deliver innovative biotherapies that are used to treat serious and rare conditions such as coagulation disorders, primary immune deficiencies, hereditary angioedema and respiratory disease.

**CuraScript SD**
255 Technology Park
Lake Mary, FL 32746
(877) 599-7748
https://curascriptsd.com/
Booth #1019
Pharmaceuticals
CuraScript SD provides integrated delivery solutions for the safe & efficient distribution of specialty pharmaceuticals & associated medical supplies. We’ve been caring for those who care for more than a quarter of a century by supplying biologics, branded drugs, generics, vaccines, infused medications and ancillary supportive care products to a wide range of medical providers.

**Cycle Pharmaceuticals**
315 University Avenue
2nd Floor
Westwood, MA 02090
(800) 903-1793
https://cyclepharma.com/
Booth #1446
Pharmaceuticals
Cycle Pharmaceuticals is a global, privately-owned and patient-dedicated biotechnology company headquartered in Cambridge, UK. Our mission is to utilize the latest pharmaceutical technologies to deliver superior drug treatments to better serve rare genetic disease patients. In addition, we provide individualized patient support services to meet patient needs swiftly and efficiently.
DBV Technologies
25 Deforest Avenue
Suite 203
Summit, NJ 07901
(484) 357-7850
https://www.dbv-technologies.com
Booth #1418

Immunotherapy
DBV Technologies is a global biopharmaceutical company that’s developing an investigational epicutaneous immunotherapy (EPIT™) treatment option for the millions of people suffering from life-threatening food allergies and other immunological disorders. Starting with peanut, we are investigating food allergy treatments that are designed to potentially reduce the risk of unpredictable, life-threatening reactions due to accidental exposure.

Edge Pharmacy Holdings
450 Weaver Street
Suite 3
Winooski, VT 05404
(802) 992-1178
https://www.edgepharmaceuticals.com/
Booth #208

Allergenic Extracts
Edge Pharmacy Holdings comprises several companies addressing different needs of healthcare providers. Products and services from Edge include compounded prescription named patient treatment sets (Edge Pharma, an FDA registered 503B Outsourcing facility), wholesale distribution of allergenic extracts, and much more (Edge Pharmaceuticals), and cloud-based allergy practice software (Xtract Solutions).

Elsevier
1600 John F. Kennedy Boulevard
Suite 1600
Philadelphia, PA 19103
(215) 239-3900
https://www.us.elsevierhealth.com/medicine/allergy
Booth #446

Publications
Elsevier is a world-leading provider of medical books and reference materials, empowering medical professionals to make better decisions, and deliver better care.

EMED Technologies Corporation
1262 Hawks Flight Court
Suite 200
El Dorado Hills, CA 95762
(916) 932-0071
https://www.emedtc.com/
Booth #1347

Equipment/Supplies
EMED designs, develops & markets infusion therapy medical devices worldwide. EMED offers the SCig60™ mechanical syringe pump, a full line of patented Soft-Glide® Needle Sets, Infuset™ fixed-rate control sets, VersaRate® & VersaRate® Plus, patented variable rate control sets & AccuFlow® controllers. Learn more about our innovative technologies, visit www.emedtc.com.

Emmes
401 North Washington Street
Suite 700
Rockville, MD 20850
(301) 251-1161
https://www.emmes.com
Booth #1415

Clinical Research Organizations
Emmes collaborates with clients to produce valued, trusted scientific research. We are passionate about making a difference in the quality of human health, and have supported more than a thousand studies across a diverse range of diseases since our formation in 1977.

Eurofins Viracor
1001 Northwest Technology Drive
Lee’s Summit, MO 64086
(816) 554-5171
https://www.eurofins-viracor.com/
Booth #1237

Diagnostic Testing
We are passionate about providing timely, actionable diagnostic information — never losing sight of the connection between the testing we perform and the patients you serve.

European Academy of Allergy, Asthma and Clinical Immunology
Hagenholzstrasse 111
3rd Floor
Zurich, 8050
Switzerland
0041 44 205 55 33
https://eaaci.org
Professional Association
The European Academy of Allergy and Clinical Immunology (EAACI) is an association of clinicians, researchers and allied health professionals, dedicated to improving the health of people affected by allergic diseases. EAACI is the primary source of expertise in Europe for all aspects of allergy.
Food Allergy & Anaphylaxis Connection Team (FAACT)
5512 Charleston Woods Drive
Liberty Township, OH 45044
(815) 276-3015
https://www.FoodAllergyAwareness.org/
Booth #236
Patient/Public Education
FAACT’s mission is to educate, advocate, and raise awareness for all individuals and families affected by food allergies and life-threatening anaphylaxis. FAACT has all the resources you need to manage food allergies at school, preparing for college, dining out safely, issues in the workplace, traveling, bullying, mental health, and more.

Food Allergy Research & Education
7901 Jones Branch Drive
Suite 240
McLean, VA 22102
(800) 929-4040
https://www.foodallergy.org/
Booth #252
Patient/Public Education
FARE enhances the lives of individuals with food allergies empowering them to lead safe, productive lives with the respect of others through education and advocacy initiatives and improved awareness around healthcare options, treatment and the prevention of food allergies.

Food Equality Initiative, Inc.
300 East 39th Street
Kansas City, MO 64111
(816) 800-0884
https://foodequalityinitiative.org/
Booth #256
Patient/Public Education
At Food Equality Initiative, food is medicine. We provide access to the only known medicine to treat food allergies, celiac disease, and other food-related conditions. By subsidizing a food delivery service and crafting fresh educational material, we ease the financial and psychological strain of diet-treated illnesses on individuals and families.

Genentech - Novartis
1 DNA Way
South San Francisco, CA 94080
(650) 225-1000
http://www.gene.com
Booth #414
Pharmaceuticals
Considered the founder of the industry, Genentech, now a member of the Roche Group, has been delivering on the promise of biotechnology for more than 40 years.

GlaxoSmithKline
5 Moore Drive
Research Triangle, NC 27709
(888) 825-5249
http://www.gsk.com
Booth #1119
Pharmaceuticals
GSK is a science-led global healthcare company with a special purpose: to help. We research, develop and manufacture innovative pharmaceutical, biological, vaccine, and consumer healthcare products in an effort to bring differentiated, high quality products to the people who need them.

Grifols USA, LLC.
2410 Lillyvale Avenue
Los Angeles, CA 90032
(323) 225-2221
http://grifols.com
Booth #1351
Pharmaceuticals
Grifols is a global healthcare company that since its founding in Barcelona in 1909 has enhanced the health and well-being of people around the world. Our four divisions - Bioscience, Diagnostic, Hospital, and Bio Supplies - develop, produce, and market innovative solutions and services in more than 100 countries. For more information, please visit http://grifols.com

Hikma Specialty USA Inc
1809 Wilson Rd
Columbus, OH 43228
(614) 276-4000
https://hikma-specialty.com/
Booth #237
Pharmaceuticals
At Hikma Specialty USA Inc., we create high-quality medicines and help make them available and affordable to the people who need them. Our customers and partners know they can depend on us to deliver innovative solutions that meet today’s healthcare needs. Visit www.hikma-specialty.com

HollisterStier Allergy
3525 North Regal Street
Spokane, WA 99207
(509) 964-1998
https://hsallergy.com
Booth #207
Allergenic Extracts
The sole provider of venom extracts in the U.S., HollisterStier Allergy manufactures a complete line of immunotherapy supplies: allergenic extracts, positive and negative controls, diagnostic devices, and sterile empty vials.
Horizon Therapeutics
1 Horizon Way
Deerfield, IL 60015
(224) 383-3000
https://www.horizontherapeutics.com/
Booth #1229
Pharmaceuticals
Horizon is focused on researching, developing and commercializing medicines that address critical needs for people impacted by rare and rheumatic diseases. Our pipeline is purposeful: we apply scientific expertise and courage to bring clinically meaningful therapies to patients. We believe science and compassion must work together to transform lives.

Immune Deficiency Foundation
110 West Road
Suite 300
Towson, MD 21204
(410) 321-6647
https://primaryimmune.org
Booth #240
Physician Education
The Immune Deficiency Foundation improves the diagnosis, treatment, and quality of life of people affected by primary immunodeficiency through fostering a community empowered by advocacy, education, and research.

Immune Epitope Database and Analysis Resource
9420 Athena Circle
La Jolla, CA 92037
(858) 752-6959
https://www.iedb.org/
Booth #244
Computer Hardware/Software
The Immune Epitope Database and Analysis Resource Program (IEDB) is a freely available database funded by the NIAID that allows easy searching of all published experimental data characterizing antibody and T cell epitopes studied in humans, non-human primates, and other animal species. Epitopes involved in infectious disease, allergy, autoimmunity, and transplant are included.

Incyte Corporation
1801 Augustine Cut-off
Wilmington, DE 19803
(314) 503-5594
https://www.incyte.com
Booth #921
Pharmaceuticals
Incyte is a Wilmington, Delaware-based, global biopharmaceutical company focused on finding solutions for serious unmet medical needs through the discovery, development, and commercialization of proprietary therapeutics. For additional information on Incyte, please visit Incyte.com and follow @Incyte on Twitter. For more information on OPZELURA™ (ruxolitinib) cream 1.5%, visit OpzeluraHCP.com.

International Eosinophil Society, Inc.
555 East Wells Street
Suite 1100
Milwaukee, WI 53202
(414) 276-6445
https://www.eosinophil-society.org/
Booth #232
Clinical Research Organizations
The International Eosinophil Society, Inc. (IES) is an organization of scientists and clinicians interested in the eosinophil, a blood cell strongly associated with many diseases. The society sponsors biennial meetings to review new information about the eosinophil and its roles in health and disease.

Johnson & Johnson
199 Grandview Road
Skillman, NJ 07960
(862) 222-7631
http://www.zyrtecprofessional.com
Booth #214
Pharmaceuticals
ZYRTEC® (Cetirizine) is an over the counter oral anti-histamine from Johnson & Johnson Consumer Inc. Zyrtec® offers both children’s and adult products that may temporarily relieve allergy symptoms of sneezing, runny nose, itchy, watery eyes, and itchy nose or throat up to 24 hours.
kaléo
111 Virginia Street
Suite 300
Richmond, VA 23219
(804) 545-6360
http://www.kaleo.com
Booth #339
Pharmaceuticals
kaléo is a pharmaceutical company dedicated to building innovative solutions that can help empower patients with certain serious, life-threatening medical conditions and their caregivers. kaléo products combine established drugs with innovative delivery platforms, with the goal of achieving safety, efficacy and cost effectiveness.

Kenota Health
335 Gage Avenue
Unit 1
Kitchener, ON N2M 5E1
Canada
(519) 208-9732
https://kenota.com/
Booth #1421
Diagnostic Equipment
Kenota Health is a medical device company with the goal of making allergy testing safe, simple and certain. The Kenota System provides allergists with an in-house tool for rapid blood-based specific IgE testing, facilitating patient assessment and treatment.

KoKo, LLC
1200 South Fordham Street
Suite B
Longmont, CO 80503
(720) 640-4222
https://www.kokopft.com
Booth #327
Spirometry
KoKo’s legacy of innovation dates back to the iron lung in the 1930s. Our mission is to provide high-quality respiratory data to improve patients’ lives. KoKo spirometers are clinically proven in studies worldwide, providing unparalleled reliability and accuracy. Visit us to learn how KoKo Spirometers help you enhance patient care.

LEO Pharma
7 Giralda Farms
2nd Floor
Madison, NJ 07940
(877) 494-4536
https://www.leo-pharma.us/
Booth #1337
Pharmaceuticals
Founded in 1908 and owned by the LEO Foundation, LEO Pharma has devoted decades of research and development to advance the science of dermatology, setting new standards of care for people with skin conditions.

LEO Pharma
7 Giralda Farms
2nd Floor
Madison, NJ 07940
(877) 494-4536
https://www.leo-pharma.us/
Booth #1444
Pharmaceuticals
Visit our booth for LEO Pharma medical related questions. At LEO Pharma we drive dermatology with our knowledge, collaboration and curiosity. We are at the forefront of science in developing new medicines for dermatology. As long as there is a patient out there needing our help, we carry on our mission.

Lincoln Diagnostics, Inc.
240 East Hickory Point Road
Decatur, IL 62526
(800) 537-1336
https://www.lincolndiagnostics.com/
Booth #1141
Diagnostic Equipment
Lincoln Diagnostics is displaying state-of-the-art, safety-engineered skin testing devices that meet all current OSHA requirements-Multi-Test PC (Pain Control), UniTest PC (Pain Control), Multi-Test II, Multi-Test, Duotip-Test II, and Duotip-Test. Please visit our exhibit to learn about Lincoln’s devices’ economic value and why they are the most widely used and most extensively published on devices available.

Med Learning Group
3101 West Dr Martin Luther King Jr Boulevard
Tampa, FL 33607
(910) 612-3411
https://www.medlearninggroup.com/
Booth #1413
Physician Education
MLG is hosting this 10x10 booth as an resource to distribute various educational tools for both physician and patient education. Tools will include downloadable animation, customizable posters, and more.
MEDI LAZER
6950 West Via Olivero Avenue
5
Las Vegas, NV 89117
(844) 556-3120
https://medilazer.net/
Booth #323
Equipment/Supplies
Light therapy devices and hypoallergenic products.

MedicoCX
800 West Main Street
1460
Boise, ID 83702
(850) 598-1042
https://www.medico.cx
Booth #309
Office Management
MedicoCX is a group of independent specialists, primarily allergists, dedicated to providing evidence-based, standardized care while also capitalizing on cumulative buying power in an effort to decrease the cost of medical supplies and medications, including biologics.

Merck & Co., Inc.
2000 Galloping Hill Road
K61
Kenilworth, NJ 07033
(908) 740-4000
http://www.merck.com
Booth #445
Pharmaceuticals
For more than a century, Merck has been inventing for life, bringing forward medicines and vaccines for many of the world’s most challenging diseases. Today, Merck continues to be at the forefront of research to deliver innovative health solutions and advance the prevention and treatment of diseases that threaten people and animals around the world.

Methapharm
81 Sinclair Boulevard
Brantford, ON N3S 7X6
Canada
(519) 751-3602
https://provocholine.com/
Booth #1425
Diagnostic Testing
Methapharm specializes in respiratory diagnostics in the United States. We currently offer Provocholine for methacholine challenge testing and Aridol for mannitol challenge testing. These bronchoprovocation dose response tests can help to confirm or rule out a diagnosis of current asthma.

MGC Diagnostics
350 Oak Grove Parkway
St. Paul, MN 55127
(651) 484-4874
https://mgcdiagnostics.com/
Booth #1442
Diagnostic Equipment
MGC Diagnostics® is a global medical technology company dedicated to cardiorespiratory health solutions. Our Exhaled Nitric Oxide, Forced Oscillation Technique and Spirometry devices are perfectly suited for clinical and research work in Allergy and Asthma clinics. Our systems provide solutions for early detection and medication control programs for Asthma Management.

Micro Direct, Inc.
803 Webster Street
Lewiston, ME 04240
(800) 588-3381
https://www.mdspiro.com
Booth #307
Spirometry
For over 25 years, Micro Direct has been offering spirometers designed to meet your needs. From a simple hand-held to full featured PC and desktop models, Micro Direct has a spirometer to meet your needs. Please stop by our booth to see the exciting new spirometers we are offering.

MIR-Medical International Research
5462 South Westridge Drive
New Berlin, WI 53151
(844) 464-7872
http://www.spirometry.com
Booth #1335
Spirometry
MIR - Medical International Research is a company founded in 1993 that today is a global leader in the field of design, production and international sales of diagnostic devices and software applications for the analysis of lung function. In particular MIR specializes in: Spirometry, Oximetry and mHealth.

Mission: Allergy, Inc.
28 Hawleyville Road
PO Box 45
Hawleyville, CT 06440
(203) 364-1570
https://www.missionallergy.com
Booth #1328
Environmental Products
Leading allergists recommend Mission: Allergy for its scientific accuracy and its highest quality microfiber pillow and mattress encasings and other products for allergen avoidance. Please stop by our booth to request your free supply of our informative Allergy Self-Help Guide for patients, and to view live Dust Mites in High-Definition.
Modernizing Medicine
4850 T-Rex Avenue
Suite 200
Boca Raton, FL 33431
(561) 880-2998
https://www.modmed.com/otolaryngology/
Booth #1350

Computer Hardware/Software
The modmed® suite is a cloud-based, EHR and practice management (PM) system designed to adapt to each doctor’s style of practice, remembering preferences and automatically suggesting documentation and billing codes. Our EHR, works seamlessly with our other products and services including PM, revenue cycle management, analytics, modmed Telehealth, modmed Pay, patient engagement tools and more.

Morgan Scientific, Inc.
151 Essex Street
8th Floor
Haverhill, MA 01832
(978) 521-4440
https://www.morgansci.com/
Booth #1336

Spirometry
Timeless Precision Spirometry: Morgan Scientific’s ComPAS2 Software is the next generation of best in class PFT software that revolutionizes pulmonary function testing as we know it. Never has pulmonary function testing been so breathtaking. It is the perfect match for your spirometry needs, with unparalleled accuracy, reliability, and connectivity.

MotherToBaby Pregnancy Studies
9500 Gilman Drive
MC 0828
La Jolla, CA 92903
(877) 311-8972
https://mothertobaby.org/healthcare-professionals/allergy-immunology/
Booth #242

Clinical Research Organizations
MotherToBaby Pregnancy Studies is evaluating the effects of asthma and atopic dermatitis with the medications used to treat these diseases during pregnancy. If you have a pregnant patient diagnosed with any of the above conditions, refer them today!

National Allergy Bureau
555 East Wells Street
Suite 1100
Milwaukee, WI 53202
(414) 918-3095
https://pollen.aaaai.org/#/
Booth #226

Patient/Public Education
Learn about the NAB and how to become a certified counting station. Increase your knowledge of the functionality and usefulness of pollen/fungus counts being collected by active stations within NAB for the public and interested AAAAI members.

Naväge Nasal Care
1 American Road
Suite 1100
Brooklyn, OH 44144
(216) 801-4708
https://navage.com/
Booth #220

Health/Body Care
Nasal irrigation works and Naväge makes it easy! Naväge is the world’s only nasal irrigator with powered suction, to flush out allergens, mucus, and bacteria naturally. It’s the easy-to-use, drug-free alternative to pills and sprays.

NeilMed
601 Aviation Boulevard
Santa Rosa, CA 95403
(707) 525-3784
https://www.neilmed.com
Booth #1422

Pharmaceuticals
The mission of the company is to create and maintain safe, affordable and effective products to sustain long-term growth and create drug free and effective sinus, ear, first aid, and baby care devices for millions of consumers worldwide. Please visit the website www.neilmed.com for more details.

Novartis Pharmaceuticals Corporation
One Health Plaza
East Hanover, NJ 07936
(888) 669-6682
https://www.novartis.com
Booth #430

Pharmaceuticals
Novartis is reimagining medicine to improve and extend people’s lives. As a leading global medicines company, we use innovative science and digital technologies to create transformative treatments in areas of great medical need. We rank among the world’s top companies investing in research and development, and our products reach nearly 800 million people globally.
Nutricia North America
77 Upper Rock Circle
Suite 303
Rockville, MD 20850
(301) 503-1457
https://nutricia-na.com/
Booth #538
Nutrition
Nutricia is a global health company that leads the development and use of advanced medical nutrition for specialized care. Nutricia products and services transform the daily lives of millions of infants, children, adults and aging seniors.

Optinose
1020 Stony Hill Road
Suite 300
Yardley, PA 19067
(267) 364-3505
http://xhancehcp.com
Booth #422
Pharmaceuticals
Optinose is a specialty pharmaceutical company focused on serving the needs of patients cared for by ear, nose and throat (ENT) and allergy specialists. Learn more about deposition with XHANCE® (fluticasone propionate) nasal spray 93 mcg by visiting our booth or www.xhancehcp.com.

Option Care Health
3000 Lakeside Drive
Suite 300N
Bannockburn, IL 60015
(224) 775-6100
https://optioncarehealth.com
Booth #222
Other
Option Care Health is the largest national infusion services provider, delivering intravenous treatments for a wide range of acute and chronic conditions. For over 40 years, we’ve delivered infusion medications and seamless transitional care for patients in their home or at one of our conveniently located ambulatory infusion suites.

Optum Infusion Pharmacy
15529 College Boulevard
Lenexa, KS 66219
(913) 217-9766
https://specialty.optumrx.com/infusion
Booth #1239
Other
Optum® Infusion Pharmacy is a home infusion care provider with a national network of pharmacies. We specialize in immunoglobulin, parenteral nutrition, anti-infectives, hydration, biologics and other specialty infusions. Our comprehensive services include specially trained in-house nurses and pharmacists, around-the-clock clinical support, reimbursement specialists and ongoing patient education.

Pfizer
235 East 42nd Street
New York, NY 10017
(212) 733-2323
http://www.pfizer.com
Booth #1041
Pharmaceuticals
Pfizer Inc.: Working together for a healthier world®
At Pfizer, we apply science and our global resources to bring therapies to people that extend and significantly improve their lives. We strive to set the standard for quality, safety and value in the discovery, development and manufacture of health care products.

Pfizer
235 East 42nd Street
New York, NY 10017
(212) 733-2323
http://www.pfizer.com
Booth #1242
Pharmaceuticals
Pfizer Inc.: Breakthroughs that change patients’ lives
At Pfizer, we apply science and our global resources to bring therapies to people that extend and significantly improve their lives. We strive to set the standard for quality, safety and value in the discovery, development and manufacture of health care products.

Pharming Healthcare Inc.
10 Independence Boulevard
4th Floor
Warren, NJ 07059
(908) 295-9241
https://www.pharming.com/
Booth #450
Pharmaceuticals
Pharming is a global, commercial stage biopharmaceutical company developing innovative protein replacement therapies and precision medicines for the treatment of rare diseases and unmet medical needs.

PulmOne USA
270 Madison Avenue
9th Floor
New York, NY 10016
(844) 785-6663
https://www.pulm-one.com/
Booth #1159
Diagnostic Equipment
Learn about the MiniBox+: Complete Pulmonary Function Testing (PFT) with desktop, cabinless plethysmography. FAST: Lung Volumes, Spirometry and DLCO in only 20 minutes. EASY: Fully automated. SAFE: Complies with COVID-19 safety recommendations. PROVEN: Equivalency to body box. GREAT ROI: Within months. Used by physicians across the US.
**Exhibits**

**Reckitt/Mead Johnson Nutrition**
2400 West Lloyd Expressway
Evansville, IN 47721
(812) 429-5000
http://www.hcp.meadjohnson.com
Booth #1409
Nutrition
Mead Johnson Nutrition (MJN)/Reckitt has combined state-of-the-art research, scientific partnerships, and commitment to the highest quality and nutritional standards to boost developing minds and bodies. Our Enfa portfolio and innovations are trusted by parents and healthcare professionals around the world to support growing families at every stage of development.

**Regeneron Pharmaceuticals**
777 Old Saw Mill River Road
Tarrytown, NY 10591
(914) 847-7000
https://www.regeneron.com/
Booth #1261
Pharmaceuticals
Regeneron is a leading biotechnology company that invents life-transforming medicines for serious diseases. Founded and led for over 30 years by physician-scientists, our unique ability to repeatedly translate science into medicine has led to numerous FDA-approved treatments and product candidates in development. Visit www.Regeneron.com to learn more.

**Revivicor Inc.**
1700 Kraft Drive
Suite 2400
Blacksburg, VA 24060
(540) 808-2606
https://www.revivicor.com
Booth #1022
Pharmaceuticals
The GalSafe™ pig has undetectable endogenous galactose-alpha-1,3-galactose (a-gal) sugar residues which causes allergic response in certain individuals (Alpha-Gal Syndrome). Products derived from the GalSafe™ pig are intended as sources of food or human therapeutics including excipients, devices, drugs, or biological products.

**Sanofi Genzyme and Regeneron**
777 Old Saw Mill River Road
Tarrytown, NY 10591
(914) 847-7000
https://www.dupixenthcp.com
Booth #215
Pharmaceuticals
Regeneron and Sanofi collaborate to jointly develop certain fully-human monoclonal antibody therapies under a global collaboration agreement. Regeneron is a leading biotechnology company that invents life-transforming medicines for serious diseases. Sanofi is a global biopharmaceutical company focused on human health. For more information, visit www.Regeneron.com and www.Sanofi.com.

**SENTA Partners**
8200 Roberts Drive
Suite 450
Sandy Springs, GA 30350
(678) 933-6349
https://sentapartners.com/
Booth #1023
Office Management
Management Service Organization working with ENT and Allergy Physicians.
Allergenic Extracts

SmartPractice offers innovative patch test products and easier access to educational resources to help diagnose allergic contact dermatitis and find solutions to help your patients live healthier, happier lives.

Stallergenes Greer

Headquartered in North Carolina, Stallergenes Greer’s business in the United States is part of a leading global biopharmaceutical company specializing in the development and commercialization of allergy immunotherapy (AIT) products and services for use in the diagnosis and treatment of allergies.

Takeda

Takeda is a global, values-based, R&D-driven biopharmaceutical leader headquartered in Japan, committed to discover and deliver life-transforming treatments, guided by our commitment to patients, our people and the planet. www.takeda.com

Teva Pharmaceuticals

Teva Pharmaceuticals has been developing and producing medicines for more than a century. We are a global leader in generic and specialty medicines with a portfolio consisting of over 3,500 products in nearly every therapeutic area.

Teva Pharmaceuticals (Medical Affairs)

Teva Pharmaceuticals has been developing and producing medicines for more than a century. We are a global leader in generic and specialty medicines with a portfolio consisting of over 3,500 products in nearly every therapeutic area.
The Clinical Trials Network (CTNx)
700 West Saint Clair Avenue
Suite 416
Cleveland, OH 44113
(440) 396-7278
https://www.thectnx.com
Booth #919
Clinical Research Organizations
The Allergy/Immunology Clinical Trials Network (CTNx) is a rapidly expanding network of private practice clinical research sites. We help new and existing sites through a unique approach to streamlining the administrative, regulatory, and compliance aspects of conducting clinical trials. Our network spans the United States, providing a diverse patient population throughout our centers.

The Mast Cell Disease Society, Inc.
PO Box 416
Sterling, MA 01564
(701) 314-9686
https://www.tmsforacure.org
Patient/Public Education
The Mast Cell Disease Society, Inc. (TMS) is a nonprofit organization dedicated to providing multi-faceted support to patients, families, and medical professionals in our community and to leading the advancement of knowledge and research in mast cell diseases through education, advocacy and collaboration.

Thermo Fisher Scientific
Rapsgatan 7P
Uppsala, 751 37
Sweden
(461) 816-5000
http://thermofisher.com/phadia
Booth #1437
Diagnostic Equipment
Thermo Fisher Scientific is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner and safer. Our complete blood test systems support the clinical diagnosis of allergy, asthma and autoimmune diseases.

Thorasy Thoracic Medical Systems Inc.
6560 Avenue de l’Esplanade
Suite 103
Montreal, QC H2V4L5
Canada
(514) 384-8555
https://www.thorasy.com/
Booth #336
Diagnostic Equipment
Thorasy is a small medium-sized enterprise (SME), based in Montreal, Quebec, Canada, which designs, manufactures and markets respiratory medical devices. Thorasy applies state-of-the-art research and technology in the development of products for the assessment and monitoring of lung diseases such as asthma, COPD and cystic fibrosis.

US WorldMeds, Inc
4441 Springdale Road
Louisville, KY 40241
(502) 802-4252
https://usworldmeds.com
Booth #216
Pharmaceuticals
USWM, LLC (US WorldMeds) is a privately held specialty pharmaceutical company that develops, licenses, and markets unique healthcare products designed to improve the lives of patients with challenging conditions and unmet medical needs. US WorldMeds has built a branded product portfolio in the therapeutic areas of addiction medicine, malignant hyperthermia, and allergy.

VitalFlo Health
224 Fayetteville Street
Raleigh, NC 27601
(919) 741-0282
https://www.vitalflohealth.com/contact
Booth #1338
Spirometry
VitalFlo is a digital health company focused on Remote Patient Monitoring Spirometry for allergy, asthma and other lung conditions. We use mobile spirometers and indoor/outdoor air quality to monitor a patient’s lung health and trends.

Vitalograph
13310 West 99th Street
Lenexa, KS 6621
(913) 732-3228
http://www.vitalograph.com
Booth #439
Spirometry
A Global Leader in Respiratory Diagnostics At Vitalograph, we constantly work to push the boundaries of innovation through our high-quality spirometry medical devices. Our devices are found in healthcare and occupational health settings worldwide, where they are used to aid the diagnosis and management of respiratory conditions.
Vyaire Medical
510 Technology Drive
Irvine, CA 92618
(714) 883-2257
https://www.vyaire.com/
Booth #212
Spirometry
Spirometry and FeNO

World Allergy Organization (WAO)
555 East Wells Street
Suite 1100
Milwaukee, WI 53202
(414) 276-1791
https://www.worldallergy.org/
Booth #246
Professional Association
The World Allergy Organization (WAO) is an international umbrella organization whose members consist of 103 regional and national allergology and clinical immunology societies from around the world. By collaborating with member societies, WAO provides direct educational outreach programs, symposia and lectureships to members in nearly 100 countries around the globe.

X4 Pharmaceuticals
61 North Beacon Street
4th Floor
Boston, MA 02134
(215) 828-4763
http://www.x4pharma.com
Booth #1147
Pharmaceuticals
X4 Pharmaceuticals, a leader in discovery and development of therapies resulting from CXCR4 pathway dysfunction. The candidate, mavorixafor, a first-in-class, oral, small molecule CXCR4 antagonist is in a Phase 3 trial in WHIMs, and two Phase 1b trials – combination with ibrutinib in Waldenström’s macroglobulinemia, and monotherapy in Severe Congenital Neutropenia.

ZEPHYRx
2 Third Street
Troy, NY 12180
(315) 246-9048
https://www.zephyrx.com/
Booth #1450
Spirometry
The ZEPHYRx Remote Respiratory Monitoring (RRM) solution combines an innovative cloud platform with the service and support clinical teams need to deliver a successful RRM solution. A RRM solution offers invaluable advantages: far greater frequency of remote monitoring vs. in-clinic appointments, just-in-time respiratory testing, and features to support patient adherence.
**Exhibit Quick Reference Guide**

### Allergenic Extracts
- Edge Pharmacy Holdings ................................................................. 208
- HollisterStier Allergy ........................................................................ 207
- SmartPractice .................................................................................. 1417
- Stallergenes Greer ........................................................................... 1429

### Clinical Research Organizations
- Emmes ......................................................................................... 1415
- International Eosinophil Society, Inc. .............................................. 232
- MotherToBaby Pregnancy Studies .................................................... 242
- The Clinical Trials Network (CTNx) .................................................. 919

### Computer Hardware/Software
- AllergyEHR a division of Meditab Software, Inc. ................................. 331
- Immune Epitope Database and Analysis Resource ............................. 244
- Modernizing Medicine .................................................................... 1350

### Diagnostic Equipment
- Kenota Health ................................................................................ 1421
- Lincoln Diagnostics, Inc. ................................................................. 1141
- MGC Diagnostics ............................................................................ 1442
- PulmOne USA ................................................................................ 1159
- Thermo Fisher Scientific .................................................................. 1437
- Thorasys Thoracic Medical Systems Inc. ........................................... 336

### Diagnostic Testing
- Chemoteknic Diagnostics / Dormer Laboratories ................................ 311
- Circassia Inc. ................................................................................... 1233
- Eurofins Viracor ............................................................................... 1237
- Methapharm ................................................................................... 1425

### Environmental Products
- Mission: Allergy, Inc. ....................................................................... 1328

### Equipment/Supplies
- EMED Technologies Corporation ..................................................... 1347
- MEDI LAZER .................................................................................. 323

### Health/Body Care
- Navage Nasal Care .......................................................................... 220

### Immunotherapy
- Advanced Infusion Care .................................................................. 1411
- ALK-Abelló, Inc. ............................................................................... 1407
- Altus Biologics .................................................................................. 444
- DBV Technologies ............................................................................ 1418
- Stallergenes Greer ........................................................................... 1435

### Nutrition
- Ajinomoto Cambrooke ...................................................................... 1240
- Nutricia North America .................................................................... 538
- Reckitt/Mead Johnson Nutrition ......................................................... 1409

### Office Management
- ABISA ............................................................................................. 1423
- MedicoCX ....................................................................................... 309
- SENTA Partners ............................................................................... 1023

### Other
- Accredo ............................................................................................ 540
- Indoor Biotechnologies, Inc. .............................................................. 1018
- Option Care Health .......................................................................... 222
- Optum Infusion Pharmacy ................................................................ 1239

### Patient/Public Education
- Advocacy & Awareness for Immune Disorders Association (AAIDA) .. 230
- Allergy & Asthma Network ............................................................... 228
- American Partnership for Eosinophilic Disorders ........................... 234
- Asthma and Allergy Foundation of America (AAFA) ......................... 250
- Code Ana ......................................................................................... 254
- Food Allergy & Anaphylaxis Connection Team (FAACT) .................. 236
- Food Allergy Research & Education ............................................... 252
- Food Equality Initiative, Inc. ............................................................. 256
- National Allergy Bureau .................................................................. 226

### Pharmaceuticals
- AbbVie ............................................................................................ 1151
- ADMA Biologics .............................................................................. 206
- Aimmune Therapeutics ..................................................................... 941
- Amgen/AstraZeneca ........................................................................ 1207
- ARS Pharmaceuticals, Inc. ................................................................. 333
- AstraZeneca .................................................................................... 406
- BioCryst Pharmaceuticals, Inc. ........................................................ 223
- Blueprint Medicines ......................................................................... 458
- Chiesi Global Rare Diseases ............................................................. 1427
- CSL Behring .................................................................................... 1021
- CSL Behring .................................................................................... 1434
- Curascript SD .................................................................................. 1019
- Cycle Pharmaceuticals .................................................................... 1446
- Genentech - Novartis ....................................................................... 414
- GlaxoSmithKline .............................................................................. 1119
- Grifols USA, LLC ............................................................................. 1351
- Hikma Specialty USA Inc ................................................................. 237
- Horizon Therapeutics ....................................................................... 1229
- Incyte Corporation ........................................................................... 921
- Johnson & Johnson ......................................................................... 214
- kaléo ............................................................................................... 339
- LEO Pharma .................................................................................... 1337
- LEO Pharma .................................................................................... 1444
- Merck & Co., Inc. ............................................................................. 445
- NeilMed ............................................................................................ 1422
- Novartis Pharmaceuticals Corporation ............................................. 430
Exhibit Quick Reference Guide

Optinose ................................................................. 422
Pfizer ........................................................................... 1041
Pfizer ........................................................................... 1242
Pharming Healthcare Inc. ........................................... 450
Regeneron Pharmaceuticals ........................................ 351
Regeneron Pharmaceuticals ......................................... 1261
Revivicor Inc. ............................................................. 1022
Sanofi Genzyme and Regeneron ................................... 215
Sanofi Genzyme and Regeneron ................................... 907
Takeda ......................................................................... 929
Takeda ................................................................. 925
Takeda Pharmaceuticals USA, Inc. ............................ 1024
Teva Pharmaceuticals .................................................. 1329
Teva Pharmaceuticals (Medical Affairs) ...................... 1452
US WorldMeds, Inc ..................................................... 216
X4 Pharmaceuticals ..................................................... 1147

Physician Education
American Board of Allergy and Immunology .................. 238
Immune Deficiency Foundation .................................... 240
Med Learning Group .................................................. 1413

Physician Recruitment
Allergy Partners .......................................................... 441
AllerVie Health .......................................................... 1343
Aspire Allergy & Sinus .................................................. 1258

Professional Association
World Allergy Organization (WAO) ............................ 246

Publications
Allergy & Asthma Proceedings ................................. 1332
Elsevier ................................................................. 446

Spirometry
Aluna ................................................................. 345
KoKo, LLC .......................................................... 327
Micro Direct, Inc ...................................................... 307
MIR-Medical International Research ......................... 1335
Morgan Scientific, Inc ................................................. 1336
VitalFlo Health ....................................................... 1338
Vitalograph ............................................................ 439
Vyaire Medical .......................................................... 212
ZEPHYRx ............................................................. 1450
North Building - Lower Level

- Passenger Elevator
- Escalator
- Restrooms
- First Aid

Escalators to West Building

HALL 4

HALL 6

First Aid
Passenger Elevator
Escalator
Restrooms
West Building - 300 Level

- 301 A
- 301 C
- 301 D
- Pedestrian Skybridge to North Building

Symbols:
- First Aid
- Passenger Elevator
- Escalator
- Restrooms
A
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Broderick, Lori, MD PhD, San Diego, CA - 4304
Brown, Emily, Kansas City, MO - 5136
Bryant-Stephens, Tyra, MD FAAAAI, Philadelphia, PA - 5220
Buchheit, Kathleen, M., MD, Needham, MA - 1508, 5129
Buckstein, Don, A., MD FAAAAI, Lake Mills, WI - 2805
Bundy, Vanessa L., MD PhD, Falls Church, VA - 2501
Burbank, Allison, J., MD, Chapel Hill, NC - 3304, 5002
Burchard, Esteban, G., MD, San Francisco, CA - 2302
Burks, A. Wesley, MD FAAAAI, Chapel Hill, NC - 1012
Busse, Paula, J., MD FAAAAI, New York, NY - 1504
Busse, William, W., MD FAAAAI, Madison, WI - 1011, 1530, 2302
Butte, Manish, MD PhD, Los Angeles, CA - 1524
C
Cahill, Katherine, N., MD FAAAAI, Nashville, TN - 2810, 3608, 5215, 5301
Calabria, Christopher, MD FAAAAI, Helotes, TX - 1806, 2553, 2809
Campbell, Ronna, L., MD, PhD, Rochester, MN - 5104
Cardet, Juan Carlos, MD, Tampa, FL - 2002
Cardonova, Victoria, MD PhD, Barcelona, Spain - 3301
Carlson, John, C., MD PhD, New Orleans, LA - 4305
Carlsten, Chris, MD, Vancouver, BC, Canada - 5214
Carter, Melody, C., MD FAAAAI, Bethesda, MD - 1201, 2405
Casale, Thomas, B., MD FAAAAI, Tampa, FL - 2806, 5111
Casanova, Jean-Laurent, MD PhD, New York, NY - 2101
Casey, Alicia, MD, Boston, MA - 5112
Castells, Mariana, C., MD PhD FAAAAI, Boston, MA - 0102, 1101, 1205, 1801, 2510
Castro, Mario, MD MPH, Kansas City, MO - 1203, 5111
Cataldo, Mary, E., MD, Brookville, NY - 1251, 3308
Cavuto Petrizo, Marie, MD, MSc FAAAAI, Hempstead, NY - 5003
Celedon, Juan, C., MD FAAAAI, Pittsburgh, PA - 2302
Chambless, Jeffrey, MD, Dallas, TX - 2022, 3601, 4701
Chang, Amy, PhD, Auckland, New Zealand - 5116
Chan, Edmond, S., MD FAAAAI, Vancouver, BC - 5105
Chatila, Talal, A., MD MSc, Boston, MA - 2304, 3307
Chehade, Mirna, MD MPH FAAAAI, New York, NY - 0101, 2807, 5137
Cheung, Dorothy, S., MD FAAAAI, South San Francisco, CA - 2405
Chinn, Ivan, MD, Houston, TX - 2303, 2552, 2603, 3603
Chinthrajah, Sharon, MD FAAAAI, Stanford, CA - 5302
Chiu, Paul, MD FAAAAI, Milwaukee, WI - 1012
Cho, Seong, Ho, MD FAAAAI, Tampa, FL - 5120
Chow, Timothy, MD, Dallas, TX - 5103
Ciccioppo, Christina, E., MD FAAAAI, Chicago, IL - 1208
Cianferoni, Antonella, MD PhD FAAAAI, Philadelphia, PA - 1505, 2605
Coffman, William, W., MD FAAAAI, Madison, WI - 1011, 1530, 2302
Butte, Manish, MD PhD, Los Angeles, CA - 1524

138

American Academy of Allergy, Asthma & Immunology
ANNUAL MEETING
PHOENIX, AZ - FEBRUARY 25-28, 2022

Faculty Index
Faculty Index

Collins, Margaret, H., MD, Cincinnati, OH - 0101
Commins, Scott, P., MD PhD, Chapel Hill, NC - 0101
Cooke, Andrew, J., MD, Tavares, FL - 4005
Cooper, Megan A., MD PhD, Webster Groves, MO - 1211
Copaescu, Ana, MD, Montreal, QC - 0102, 1201, 1205
Covar, Ronina, MD FAAAAI, Denver, CO - 3004, 5110
Cox, Amanda L., MD FAAAAI, New York, NY - 2012, 5133, 5141, 5218
Crain, Maria, RN MA CPNP, Dallas, TX - 1213, 2411, 3308, 4701
Crowe, Jr., James, MD, Nashville, TN - 5203

D
Dahlsgaard, Katherine, PhD, Philadelphia, PA - 2021
Dalan, Dan, MD FAAAAI, Eagan, MN - 1206
D’Amato, Gennaro, MD FAAAAI, Napoli, Italy - 3704, 5209
Darr, Jennifer, M., MSW LCSW, Denver, CO - 2312
Davis, Carla M., MD FAAAAI, Houston, TX - 0101, 2306
Davis, Ray S., MD FAAAAI, Saint Louis, MO - 2805
Decuyper, Ine I., MD PhD, Antwerpen, Belgium - 2811
Del Giacco, Stefano, MD, Monserrato (Cagliari), Italy - 2301
Dellon, Evan S., MD, Chapel Hill, NC - 0101, 3006
Denlinger, Loren C., MD PhD, Madison, WI - 1203, 3551
Deterding, Robin, MD, Boulder, CO - 1601
Doherty, Taylor A., MD FAAAAI, La Jolla, CA - 2810, 4308, 5143
Dong, Gang, MD PhD, Rockville, MD - 1212
Doherty, Taylor, A., MD FAAAAI, La Jolla, CA - 2810, 4308, 5143
Doong, Gang, MD PhD, Rockville, MD - 1212
Dorsey, Morna J., MD MMSc FAAAAI, San Francisco, CA - 2505
Dowden, Amy M., MD FAAAAI, Iowa City, IA - 1106
Dowling, Paul J., MD FAAAAI, Henderson, NV - 1110
Dribin, Tim, MD, Cincinnati, OH - 1206
Du Toit, George, MD FAAAAI, Shepperton, - 4101
Duff, Carla M., CPNP-PC APRN MSN CCR, Treasure Island, FL - 1102
Durham, Stephen R., MA MD FRCP, London, United Kingdom - 5125
Dwyer, Ashley A., MPH, Chicago, IL - 1528

E
Ebisawa, Motohiro, MD PhD FAAAAI, Kanagawa, - 3301
Eisenbarth, Stephanie C., MD PhD, Cheshire, CT - 1525
Ellayam, David, MD, Bellingham, WA - 1210
Ellis, Alysa, MD FAAAAI, Town and Country, MO - 4701
Elverson, Wendy, RD LDN, Arlington, MA - 2313
Epland, Kristin, NP, Maple Grove, MN - 1102, 1531
Epstein, Tolly, MD MS FAAAAI, Carmel, IN - 1806, 2553, 2809, 5144

F
Farmer, Jocelyn, MD PhD, Boston, MA - 1012
Fasano, Mary Beth, MD MSPH FAAAAI, Iowa City, IA - 1201, 4008
Faustino, Lucas, D., PhD, Boston, MA - 3307
Ferarquao, Denisa, E., MD, Bronx, NY - 5211
Fishman, Jennifer, RN BSN, New York, NY - 5142
Foer, Dinah, MD, Boston, MA - 5108, 5212
Folacier, Luz S., MD FAAAAI, Mineola, NY - 1201
Forbes Satter, Lisa R., MD FAAAAI, Houston, TX - 1524, 2004, 2806, 3703
Ford, Mandy L., PhD, Atlanta, GA - 5113
Forno, Erick, MD MPH, Pittsburgh, PA - 5106

G
Gaffin, Jonathan M., MD, Boston, MA - 4711
Gaffin, Jonathan, M., MD, Cincinnati, OH - 0101
Commins, Scott P., MD PhD, Chapel Hill, NC - 0101
Cooke, Andrew J., MD, Tavares, FL - 4005
Cooper, Megan A., MD PhD, Webster Groves, MO - 1211
Copaescu, Ana, MD, Montreal, QC - 0102, 1201, 1205
Covar, Ronina, MD FAAAAI, Denver, CO - 3004, 5110
Cox, Amanda L., MD FAAAAI, New York, NY - 2012, 5133, 5141, 5218
Crain, Maria, RN MA CPNP, Dallas, TX - 1213, 2411, 3308, 4701
Crowe, Jr., James, MD, Nashville, TN - 5203

D
Dahlsgaard, Katherine, PhD, Philadelphia, PA - 2021
Dalan, Dan, MD FAAAAI, Eagan, MN - 1206
D’Amato, Gennaro, MD FAAAAI, Napoli, Italy - 3704, 5209
Darr, Jennifer, M., MSW LCSW, Denver, CO - 2312
Davis, Carla M., MD FAAAAI, Houston, TX - 0101, 2306
Davis, Ray S., MD FAAAAI, Saint Louis, MO - 2805
Decuyper, Ine I., MD PhD, Antwerpen, Belgium - 2811
Del Giacco, Stefano, MD, Monserrato (Cagliari), Italy - 2301
Dellon, Evan S., MD, Chapel Hill, NC - 0101, 3006
Denlinger, Loren C., MD PhD, Madison, WI - 1203, 3551
Deterding, Robin, MD, Boulder, CO - 1601
Doherty, Taylor A., MD FAAAAI, La Jolla, CA - 2810, 4308, 5143
Dong, Gang, MD PhD, Rockville, MD - 1212
Dorsey, Morna J., MD MMSc FAAAAI, San Francisco, CA - 2505
Dowden, Amy M., MD FAAAAI, Iowa City, IA - 1106
Dowling, Paul J., MD FAAAAI, Henderson, NV - 1110
Dribin, Tim, MD, Cincinnati, OH - 1206
Du Toit, George, MD FAAAAI, Shepperton, - 4101
Duff, Carla M., CPNP-PC APRN MSN CCR, Treasure Island, FL - 1102
Durham, Stephen R., MA MD FRCP, London, United Kingdom - 5125
Dwyer, Ashley A., MPH, Chicago, IL - 1528

E
Ebisawa, Motohiro, MD PhD FAAAAI, Kanagawa, - 3301
Eisenbarth, Stephanie C., MD PhD, Cheshire, CT - 1525
Ellayam, David, MD, Bellingham, WA - 1210
Ellis, Alysa, MD FAAAAI, Town and Country, MO - 4701
Elverson, Wendy, RD LDN, Arlington, MA - 2313
Epland, Kristin, NP, Maple Grove, MN - 1102, 1531
Epstein, Tolly, MD MS FAAAAI, Carmel, IN - 1806, 2553, 2809, 5144

F
Farmer, Jocelyn, MD PhD, Boston, MA - 1012
Fasano, Mary Beth, MD MSPH FAAAAI, Iowa City, IA - 1201, 4008
Faustino, Lucas, D., PhD, Boston, MA - 3307
Ferarquao, Denisa, E., MD, Bronx, NY - 5211
Fishman, Jennifer, RN BSN, New York, NY - 5142
Foer, Dinah, MD, Boston, MA - 5108, 5212
Folacier, Luz S., MD FAAAAI, Mineola, NY - 1201
Forbes Satter, Lisa R., MD FAAAAI, Houston, TX - 1524, 2004, 2806, 3703
Ford, Mandy L., PhD, Atlanta, GA - 5113
Forno, Erick, MD MPH, Pittsburgh, PA - 5106

G
Gaffin, Jonathan M., MD, Boston, MA - 4711
Gaffin, Jonathan, M., MD, Cincinnati, OH - 0101
Commins, Scott P., MD PhD, Chapel Hill, NC - 0101
Cooke, Andrew J., MD, Tavares, FL - 4005
Cooper, Megan A., MD PhD, Webster Groves, MO - 1211
Copaescu, Ana, MD, Montreal, QC - 0102, 1201, 1205
Covar, Ronina, MD FAAAAI, Denver, CO - 3004, 5110
Cox, Amanda L., MD FAAAAI, New York, NY - 2012, 5133, 5141, 5218
Crain, Maria, RN MA CPNP, Dallas, TX - 1213, 2411, 3308, 4701
Crowe, Jr., James, MD, Nashville, TN - 5203
Facuity Index

Hubbard, Tamara, LPC, Lake Zurich, IL - 2021
Huntwork, Margaret, MD, New Orleans, LA - 5119

I

Iammatteo, Melissa, MD, White Plains, NY - 0102
Israel, Elliot, MD FAAAAI, Boston, MA - 1203

J

Jackson, Daniel, J., MD FAAAAI, Madison, WI - 1203, 3707, 5202
Jacobson, Kraig, W., MD FAAAAI, Eugene, OR - 0201
Janssen, Erin, M., MD PhD, Boston, MA - 5216
Jarwiwa, Sunit, P., MD, Bronx, NY - 1805, 3003
Jarvinen-Seppo, Kirsi, M., MD PhD FAAAAI, Rochester, NY - 4101
Jefferson, Akilah, A., MD MSc, La Jolla, CA - 5124
Jensen, Elizabeth, T., MPH PhD, Winston Salem, NC - 0101, 4306
Jerschow, Elina, MD FAAAAI, Bronx, NY - 3002
Johnson, Christine, C., Kennebunk, ME - 1204
Johnson, Elizabeth, LPN, Charlotte, NC - 5139, 5217
Johnston, Douglas, T., DO, Waxhaw, NC - 1202, 1522
Jones, Bridgette, MD MS FAAAAI, Kansas City, MO - 1503, 2302, 3303
Jones, Douglas, H., MD FAAAAI, Clearfield, UT - 1208
Jutel, Marek, M., MD PhD, Wroclaw, Poland - 2301

K

Kagen, Steven, MD FAAAAI, Appleton, WI - 1206
Kahwash, Basel, M., MD, Nashville, TN - 1201, 3602
Kakumanu, Sujani, S., MD FAAAAI, Madison, WI - 3606 4301
Kaplan, Allen, P., MD FAAAAI, Charleston, SC - 1202
Kaplan, Daniel, MD, PhD, Pittsburgh, PA - 1807
Karagiannis, Sophia, N., PhD, London, United Kingdom - 5211
Kase Tanno, Luciana, MD, PhD, Montpellier, - 3301
Kato, Atsushi, PhD, Chicago, IL - 5143
Keet, Corinne, MD MS PhD, Baltimore, MD - 1205, 1212, 5004, 5117,
Keswani, Anjeni, MD FAAAAI, Washington, DC - 0601
Khan, Yasmin W., Nashville, TN - 0601
Khan, David, MD FAAAAI, Dallas, TX - 1521, 1801, 5118
Keswani, Anjeni, MD FAAAAI, Washington, DC - 0601
Khan, David, MD FAAAAI, Dallas, TX - 1521, 1801, 5118
Khan, Yasmin W., Nashville, TN - 0601
Khera, Paneez, MD FAAAAI, Bethesda, MD - 1805, 3009
Khurana Hershey, Gurjit, K., MD PhD FAAAAI, Cincinnati, OH - 1012, 1803, 2521
Kelso, John M., MD FAAAAI, San Diego, CA - 0601
Kenedy, Joshua, L., MD FAAAAI, Little Rock, AR - 5202
Keswani, Anjali, MD FAAAAI, Madison, WI - 3606 4301
Khan, David, MD FAAAAI, Dallas, TX - 1521, 1801, 5118
Khan, Yasmin W., Nashville, TN - 0601
Khoury, Paneez, MD FAAAAI, Bethesda, MD - 1805, 3009
Khurana Hershey, Gurjit, K., MD PhD FAAAAI, Cincinnati, OH - 1012, 1803, 2521
Kiley, James, P., PhD, Bethesda, MD - 1203, 5220
Kim, Brian, S., MD, MTR, FAAD, St. Louis, MO - 3510
Kliever, Kara, PhD RD, Mason, OH - 0101
Kloepfer, Kirsten, M., MS FAAAAI, Indianapolis, IN - 5001
Kluczen, Jamie, R., PharmD, MBA, BCPS, BCACP - 5101
Knight, Adina, Kay, MD FAAAAI, Rockville, MD - 2405
Kocatürk Göncü, Emek, MD, Istanbul, Turkey - 1202
Kodroff, Elynn, E., MD FAAAAI, Littleton, CO - 1210
Korenbrot-Hanin, Melissa, T., ACSW LCSW, Saint Louis, MO - 2021, 2312
Kotyttan, Leah, C., PhD, Cincinnati, OH - 0101, 1204, 4306
Kovalszki, Anna, MD, Ann Arbor, MI - 2509
Kraft, Monica, MD FAAAAI, Tucson, AZ - 2805, 5121
Kwak, Jason, MD, New Haven, CT - 1201, 5003
Kwan, Mildred, MD PhD FAAAAI, Chapel Hill, NC - 2004, 2806, 5206
Kwong, Christina, MD FAAAAI, Phoenix, AZ - 1201

L

Laidlaw, Tanya, M., MD FAAAAI, Needham, MA - 0001, 0102, 1212, 1508, 2802
Lam, Kent, MD, Norfolk, VA - 2009
Lambrecht, Bart, N., MD PhD, Zwijnaarde, Belgium - 5303
Lan, Jennifer, MD, Potomac, MD - 5219
Lane, Andrew, P., MD, Baltimore, MD - 5128
Lang, David, M., MD FAAAAI, Cleveland, OH - 0102, 1526, 2551
Lara-Marquez, Maria Luz, L., MD PhD, San Diego, CA - 3303, 5106
Larenas-Linnemann, Desiree, E., MD FAAAAI, Mexico City, - 5118, 5144
Larkin, Allyson, S., MD FAAAAI, Pittsburg, PA - 5210
Lawrence, Monica, G., MD FAAAAI, Charlottesville, VA - 5204
Lebovidge, Jennifer, S., PhD, Boston, MA - 5140
Ledford, Dennis, K., MD FAAAAI, Tampa, FL - 2005
Lee, Gerald, B., MD FAAAAI, Atlanta, GA - 1209, 3003
Lee, Jivanne, K., MD, Santa Monica, CA - 5131
Lee, Tricia, D., MD, New York, NY - 5210
Lee-Sarwar, Kathleen, M., MS, Brookline, MA - 5109
Leiding, Jennifer, MD FAAAAI, Seminole, FL - 1201, 3005
Leo, Harvey, MD FAAAAI, Ypsilanti, MI - 2801
Leung, Donald, Y.M., MD PhD FAAAAI, Denver, CO - 1011, 1012, 3302
Levetin, Estelle, PhD FAAAAI, Tulsa, OK - 0201, 1206, 3001
Levy, Bruce, D., MD, Boston, MA - 5213
Levy, Joshua, M., MD MPH, Atlanta, GA - 1808
Lewis, Megan Ott, MSN CRNP, Philadelphia, PA - 5133
Lim, Kaiser, G., MD FAAAAI, Rochester, MN - 4303
Lirely, Kaylee, D., BSN RN, Dallas, TX - 5134
Liu, Andrew, H., MD FAAAAI, Aurora, CO - 1601, 2002, 4712
Lombard, Lisa, PhD, Oak Park, IL - 1528
Looney, Richard, MD FAAAAI, Rochester, NY - 2802
Louisias, Margie, MD, MPH, Chestnut Hill, MA - 2306, 5004
Lukacs, Nicholas, W., PhD, Ann Arbor, MI - 1804
Lumry, William, R., MD FAAAAI, Dallas, TX - 1522

M

Mack, Douglas, P., MD, Burlington, ON - 2313
Macy, Eric, M., MD FAAAAI, San Diego, CA - 0102
Maglione, Paul, J., MD PhD, Boston, MA - 3306, 4003
Mahdavinia, Mahboobeh, MD PhD, Chicago, IL - 1529, 3508, 3607, 5120, 5121
Maitland, Anne, L., MD PhD, Tarrytown, NY - 2510
Marshall, Gailen, D., MD PhD, Jackson, MS - 5004
Marsden, Benjamin, PhD, Lausanne, Switzerland - 5001
Mathur, Sameer, K., MD PhD FAAAAI, Madison, WI - 2011, 4704
Matsui, Elizabeth, C., MD MHS FAAAAI, Austin, TX - 2306, 2801, 3304
Mattos, Jose, L., MD, MPH, Charlottesville, VA - 5122
Maurer, Marcus, MD, Berlin, Germany - 5212
McClellan, Bruce, M., MD FAAAAI, Sanford, NC - 0001
McGarey, Jr., Patrick, MD, Charlottesville, VA - 5122
McGowan, Emily, C., MD PhD FAAAAI, Charlottesville, VA - 1012, 2551
Mehta, Reena, S., MD FAAAAI, New Orleans, LA - 5207
Mersha, Tesfaye, B., PhD, Cincinnati, OH - 1207
Metz, Gregory, MD FAAAAI, Oklahoma City, OK - 1250
Micheletti, Robert, G., MD, Philadelphia, PA - 0102
Miller, Rachel, L., MD FAAAAI, New York, NY - 1204
Minnicuzo, Michael, PhD, Montgomery Village, MD - 0101
Mjosberg, Jenny, Solna, Sweden - 5132
Moore, Wendy, C., MD, Winston Salem, NC - 1203
Moran, Timothy, P., MD PhD FAAAAI, Durham, NC - 3307, 3553
Mosmann, Giselle, MD MS FAAAAI, Wilmette, IL - 1011, 1012, 1601, 1805, 2701, 2803, 3301
Moss, Richard, B., MD, Palo Alto, CA - 5208
Mudd, Kim, E., RN MSN CCRP, Baltimore, MD - 5139, 5141
Mueller, Geoffrey, A., PhD, Research Triangle Park, NC - 2522
Muir, Amanda, MD, Philadelphia, PA - 0101
Mustillo, Peter, MD FAAAAI, Columbus, OH - 1502

N
Nair, Parameswaran, K., MD PhD, Hamilton, ON - 3708
Nanavandan, Nidhy, MD, Denver, CO - 2504
Nelson, Harold, S., MD FAAAAI, Denver, CO - 2809
Nelson, Michael, R., MD PhD FAAAAI, Charlottesville, VA - 1011, 2803
Newcomb, Dawn, C., PhD, Nashville, TN - 1204, 1211, 3558
Nieto, Antonio, MD PhD, Valencia, Spain - 2307
Nimmagadda, Sai, R., MD FAAAAI, Long Grove, IL - 1528
Norton, Allison, E., MD FAAAAI, Nashville, TN - 5102
Nowak-Wegrzyn, Anna, H., MD PhD FAAAAI, New York, NY - 1201, 4101, 5137
Nyenhuis, Sharmilee, MD FAAAAI, Chicago, IL - 2602, 3702, 4005, 4302

O
Ogbogu, Princess, U., MD FAAAAI, Columbus, OH - 2405, 3009, 3305, 3706
Oppenheimer, John, MD FAAAAI, Morrisstown, NJ - 1810, 2305, 2551,

P
Pacheco, Karin, A., MD MSPH FAAAAI, Denver, CO - 2811, 3604
Panganiban, Christine, M., MD FAAAAI, Suwon, South Korea - 5214
Parrish, Christopher, P., MD FAAAAI, Dallas, TX - 5133, 5128
Patil, Sarita, U., MD FAAAAI, Newton, MA - 1012, 1212, 2522, 3007
Patterson, Amber, M., MD FAAAAI, Findlay, OH - 2307, 2607
Peebles, Stokes, MD FAAAAI, Nashville, TN - 1211, 2010, 2810
Perry, Tamara, T., MD FAAAAI, Little Rock, AR - 1802, 3502, 3706, 4301
Pesk, Robbie, D, MD, Little Rock, AR - 0101
Peters, Anju, T., MD MSCI FAAAAI, Pittsburgh, PA - 5205
Phadke, Neelam, A., MD, Melrose, MA - 1201
Phillips, Elizabeth, J., MD FAAAAI FIDSA, Franklin, TN - 0102, 5101
Phipatanakul, Wanda, MD MS FAAAAI, Hopkinton, MA - 1011, 1802, 2803, 4301
Pien, Lily, MD FAAAAI, Cleveland, OH - 5003
Pistiner, Michael, MD MMSc, Newton, MA - 3501, 5105, 5302
Pitchford, Simon, MD, London, United Kingdom - 5215
Platts-Mills, Thomas, A., MD PhD FAAAAI, Charlottesville, VA - 4006
Polk, Brooke, I., MD FAAAAI, St. Louis, MO - 1201
Pomes, Anna, PhD FAAAAI, Charlottesville, VA - 2522
Ponda, Punita, MD FAAAAI, Bayside, NY - 1209, 1806, 2809, 5144
Pongdee, Thanai, MD FAAAAI, Rochester, MN - 1805, 2011, 4602
Poole, Jill, A., MD FAAAAI, Omaha, NE - 3304, 4705
Portnoy, Jay, M., MD FAAAAI, Kansas City, MO - 1206, 1213, 3704, 4712, 5126
Prince, Benjamin, T., MD MCSI FAAAAI, Columbus, OH - 2603, 3005, 3603, 5116

Q
Quinn, James, M., MD FAAAAI, San Antonio, TX - 1110, 2503, 5201
Quirce, Santiago, MD PhD, Madrid, Spain - 4705

R
Rabito, Felicia, A., PhD MPH, New Orleans, LA - 4305
Rachid, Rima, A., MD FAAAAI, Boston, MA - 2304
Ramos, Ashley, PhD, Washington, DC - 5103
Ramratnam, Sima, K., MD MPH, Madison, WI - 5109
Ramsey, Allison, MD FAAAAI, Rochester, NY - 0102
Rance, Karen, S., DNP APRN CPNP AEC, Fishers, IN - 2022
Randolph, Christopher, C., MD FAAAAI, Waterbury, CT - 5107
Rank, Matthew, A., MD FAAAAI, Scottsdale, AZ - 1503, 5118
Reddel, Helen, K., MBBS PhD, Glebe, Australia - 4702
Reddy, Ashwini, MD FAAAAI, Philadelphia, PA - 5207
Redmond, Margaret, MD, Columbus, OH - 1209
Renz, Harald, E., MD FAAAAI, Marburg, Germany - 5001
Rider, Nick, L., DO FAAAAI, Houston, TX - 1526
Riedl, Marc, A., MD MS, La Jolla, CA - 1522
Risma, Kimberly, A., MD PhD FAAAAI, Cincinnati, OH - 0102, 1012
Robbins, Karen, MD FAAAAI, Washington, DC - 1101
Romberg, Neil, D., MD, Philadelphia, PA - 5115
Rorie, Andrew, C., MD FAAAAI, Omaha, NE - 0201, 1206
Rosenberg, Lisa, B., MD MSW LCSW CSSW, Cherry Hill, NJ - 1251
Rosenzweig, Sergio, MD, Bethesda, MD - 2552
Ross, Jaime, E., RN MSN, New York, NY - 5134
Rudenko, Michael, MD PhD FAAAAI, London, United Kingdom - 1202
Rudman Spergel, Amanda, K., MD, Bethesda, MD - 2521
Ruffner, Melanie, A., MD PhD, Rutledge, PA - 2605, 4306

S
Saavedra, Arturo, MD PhD, Charlottesville, - 0102
Saff, Rebecca, MD PhD FAAAAI, Boston, MA - 0102, 1012, 1501
Saini, Sarbjeet, S., MD FAAAAI, Baltimore, MD - 1202, 1807
Sampson, Hugh, A., MD FAAAAI, New York, NY - 4101
Santos, Alexandra, F., MD PhD, London, United Kingdom - 1804, 3007, 3705
Saper, Vivian, E., MD FAAAAI, San Mateo, CA - 5101
Sastre, Joaquin, MD PhD FAAAAI, Tres Cantos, Spain - 5126
Schafer, Ewa, H., MD FAAAAI, Glenview, IL - 1527
Schatz, Michael, MD MS FAAAAI, San Diego, CA - 1521, 1801
Scherzer, Rebecca, MD FAAAAI, Columbus, OH - 045
Schoen, Brian, C., MD FAAAAI, Akron, OH - 2313
Schwartz, David, J., MD, Potomac, MD - 0001
Schwartz, Lawrence, B., MD PhD FAAAAI, Richmond, VA - 1011, 4308
Schwarze, Jurgen, MD, Edinburgh, Scotland - 2301
Scurlock, Amy, M., MD FAAAAI, Little Rock, AR - 2405
Searing, Daniel, A., MD, Aurora, CO - 3502
Sedmi, Roma, PhD FAAAAI, Oakville, ON - 3708
Seroz, Marcus, M., MD, Littleton, CO - 0102, 1510
Seumois, Gregory, PhD, La Jolla, CA - 2506
Shahlaee, Amir, H., MD FAAAAI, London, United Kingdom - 2307, 5126
Sharma, Hemant, MD MHS FAAAAI, Ellicott City, MD - 1011, 3303
Faculty Index

Sheehan, Will, J., MD FAAAAI, Bethesda, MD - 4711
Sheikh, Javed, MD FAAAAI, Los Angeles, CA - 1110
Sheikh, Shahid, I., MD, Columbus, OH - 3308
Shenoy, Erica, S., MD, Boston, MA - 0102
Sheth, Dipa, K., MD FAAAAI, Vienna, VA - 2502
Shields, Adrian, MBBS, MRCP, Birmingham, United Kingdom - 5114
Shroba, Jodi, A., MSN APRN CPNP, Olathe, KS - 1101, 1251, 2411, 5136
Sicherer, Scott, H., MD FAAAAI, New York, NY - 1521
Silvers, William, S., MD FAAAAI, Denver, CO - 2005, 2811
Singh, Anne Marie, MD, Madison, WI - 3553, 4307, 4704
Skipp, Paul, BSc, PhD, Southampton, United Kingdom - 1523
Smith, Tukisa, MD MS, San Diego, CA - 5124
Snyder, Brenda, L., MSN RN CPNP, Kansas City, MO - 1102
Sokol, Caroline, L., MD PhD FAAAAI, Boston, MA - 2812, 3306
Soong, Weily, MD FAAAAI, Birmingham, AL - 2502
Spencer, Lisa, A., PhD, Ipswich, MA - 4704
Spergel, Jonathan, M., MD PhD FAAAAI, Philadelphia, PA - 0101
Staicu, Mary, PharmD, Rochester, NY - 0102
Steele, Pamela, H., MSN CPNP AE-C, Raleigh, NC - 1213, 1251
Steen, Hanno, PhD, Boston, MA - 1523
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Tripathi, Anubha, MD, Chevy Chase, MD - 5219
Trogan, Amanda, S., BSN RN, Silver Spring, MD - 5142
Trubiano, Jason, A., MD PhD, Melbourne, Australia - 0102
Turner, Justin, MD, Nashville, TN - 5130
Turner, Paul, J., MD PhD, London, United Kingdom - 2808, 3301

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W
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Wechsler, Michael, E., MD, Denver, CO - 4702
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Wenzel, Sally, E., MD FAAAAI, Pittsburgh, PA - 1205, 5213
Wesemann, Duane, R., MD PhD, Brookline, MA - 2101
West, Laura, J., MD, Pittsburgh, PA - 5210
White, Andrew, MD FAAAAI, San Diego, CA - 1501, 5301
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Y
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Z
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Vann, Elizabeth, RN, Denver, CO - 2007
Vargas, Sara, MD, Boston, MA - 5112
Keyword Index

ABPA  2511, 5208
Adherence  2007, 3552, 5116
Adverse Reactions to drugs and biologics Diagnosis and Treatment  102, 1501, 1801, 2804, 5101, 5102
Aerobiology  1206, 3001
Airborne Allergens: dust mites, cockroach, animals, molds, pollens  201, 3704, 5209
Allergen Immunotherapy Extracts: Standardization/Cross-Reactivity/Compatibility  2809
Allergen Immunotherapy with aeroallergens: SLIT/SCIT/Rhinitis/Asthma/AD  1806, 2553, 4703, 5125, 5144
Allergen Immunotherapy: Mechanisms  3306
Allergen Immunotherapy: Newer Techniques (Non-food/Intralymphatic/Epicutaneous/Other routes/Peptide/Recombinant)  2307
Allergy Diagnostics: Skin tests/In-Vitro Tests/Biomarkers  4006, 4712, 5126, 5127
Anaphylaxis  2001, 2551, 3101, 3301, 3501, 3701, 5103, 5104, 5105
Angioedema (idiopathic, hereditary)  1522
Animal Models of Allergic Diseases  2010
Asthma and the Allied Health Professional  1213, 1250, 1810, 2312, 3308, 3520
Asthma in Schools  1202, 3502, 4301
Asthma: Diagnosis (allergic, immunologic, inflammatory and genetic assessment)  1503, 1521, 1523, 1530, 2002, 4701
Asthma: Diagnosis (pulmonary function, bronchoprovocation, imaging)  2303, 3002, 3551
Asthma: Epidemiology, Intervention, and Public Health  1203, 1601
Asthma: Exercise-induced bronchospasm  5107
Asthma: Other  1011, 1204, 2301, 2801, 3003, 4008, 4302, 5108
Asthma: Outcomes/Mortality
Asthma: Pathogenesis (Risk factors, genetics, infections that increase asthma risk, air pollutants)  1803, 5001, 5109
Asthma: Pathophysiology (includes lower airway remodeling)  3708
Asthma: Presentation and Problems in Different Age Groups Infants/Childhood/Adults/Elderly  1504, 2003, 2504, 3004, 3503, 4702, 5110, 5202
Asthma: Prevention/Disease modification  2302, 3702, 4002, 5203
Asthma: Therapy (biologics, immunomodulators)  1520, 4711, 5111, 5301
Atopic dermatitis and other eczemas  3302
Billing and Coding/Insurance Issues (eg, contracts, appeals)  1208
Biological Therapies/ Gene Transfer/ Immunomodulators/Suppressives (including anti-IgE, DNA, CpG ODNs), Immunoglobulin Replacement Therapy  2004, 2806, 5113, 5204
Biostatistics and data analysis  5117
Clinical Quality Improvement  2305
Complementary and Alternative Treatments in Allergy/Controversial Treatments  2501, 2502, 3303, 5106
Contact dermatitis/Contact hypersensitivity  1201, 3011
COPD, Asthma/COPD Overlap Syndrome  2805, 3304, 3505
Cough: mechanisms, diagnosis, therapy  4303
Cytokines/Chemokines/Lipid Mediators  2810
Dermatologic Disease: Treatments  1510
Environmental exposure assessment and Abatement/Environmental control  2811, 4305, 4705
EORD: Other  2802
Eosinophilic Gastrointestinal Disease (Eosinophilic colitis/ Eosinophilic Enteritis/Eosinophilic Esophagitis/Eosinophilic Gastritis) Diagnosis, Treatment  0101, 1505, 2512, 2807, 3006, 4306
Eosinophils/Hypereosinophilic Syndromes  2011, 2509, 3009, 4704
Epidemiology of FAED disorders  1207
Evidence-based/Clinical Practice Guideline  5118
FAED: Other  1506, 1804, 2012, 2521, 4101, 5220
Food Allergens: Structure/Cross-Reactivity  2522
Food Allergy/Hypersensitivity: Diagnosis, Treatment, Emerging Treatments  2304, 2808, 3007, 3511, 3705, 5302
Food/Drug/Insect/Latex Allergy and the Allied Health Professional  2021, 2313, 5133
Health Behavior and Education  4307, 5003
Healthcare Disparities  2306, 3305, 3706, 5119, 5120
Healthcare Quality and Outcomes  1526, 5123
HEDQ: Other  5124
IgE and Fe?-R/IgE receptor/Allergen Binding  5211
Immune tolerance/Immunoregulation  2505, 4304
Immunodiagnostics/ Major Histocompatibility Complex/Serologic Tests (ELISA, Western blot/Cell surface markers and receptors (flow cytometry)/Molecular Diagnostics/Tissue Typing/Cell Surface Markers  1205
Immunogenetics  1524, 2303, 5114, 5115
Immunologic Aspects of Infectious Diseases (Lyme Disease, TB, Leprosy, Hepatitis, Syphilis) 3504
Immunologic/Inflammatory Gastrointestinal Disorders (Celiac Disease, Non-celiac gluten sensitivity, FPIES, Inflammatory Bowel Disease) 1525
Immunotherapy and the Allied Health Professional 5134
Innate Immune Mechanisms and Allergy (TLRs, NLRs) 1211, 5132
Insect Hypersensitivity 5201
Interstitial/Immunologic lung disease 4003, 5112
IRSO: Other 1210, 3508
MAAI: Other 1212, 1508
Mast Cell Disorders 2510, 5212
Mast Cells and Basophils 1807
Mechanisms of Allergic Diseases 1808, 3510, 3553, 4308, 5213, 5214
Molecular Biology (TRECs, RTPCR, Gene Chips, Whole Exon Sequencing, GWAS) 2506
Neutrophils/Phagocytosis/Killing 3005
Ocular Disorders (Immunologic Eye Disease/Conjunctivitis): diagnosis and therapy 4713
Office Management/Procedures and the Allied Health Professional 5217
Other Allied Health Topics 1101, 1251, 1531, 4020, 5135, 5136, 5137, 5139, 5218
Outdoor Air Quality (O3, SO2, NO2, Particulates, CO) 5002
Patient Education and the Allied Health Professional 5140, 5141, 5142
Platelets 5215
Primary (Congenital) Immunodeficiencies: B Cell/ Antibody Deficiencies; Complement Deficiencies; Neutrophil Deficiencies; T Cell Deficiencies 1102, 1502, 2552, 3010, 3703, 5205
Professionalism/Professional Development 0601, 1012, 1110, 1209, 1507, 1527, 2405, 2701, 2803, 5004, 5210
Quality of Life 1528
Rhinosinusitis: pathophysiology 3707, 5128, 5129, 5143, 5303
Secondary (Acquired) Immunodeficiencies/HIV 5206
Sinuses/AFS/Middle Ear Surgical Intervention 2009
Smoking cessation, e-cigarettes, cannabis 2005
T cells and B cells in Allergic Disease 3307, 5216
Technology 1805, 4005
Upper Airway, Nose, Sinuses, Middle Ear Disorders: treatment 5121, 5122
Upper Airway, Nose, Sinuses, Middle Ear Disorders: treatment 5131
Urticaria (acute, chronic, physical) 1202, 2022
Vaccines/Immunoprophylaxis Vaccine 0001, 2101, 5207

Upper Airway, Nose, Sinuses, Middle Ear Disorders: diagnosis 1529, 5130
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