

# IMMUNOLOGY2022™

THE 105<sup>TH</sup> ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

May 6–10, 2022 | Oregon Convention Center | Portland, OR

Visit [WWW.IMMUNOLOGY2022.ORG](http://WWW.IMMUNOLOGY2022.ORG) to view the full program.



## PRESIDENT'S PROGRAM

Session information subject to change. Program details are still evolving. Please visit [www.immunology2022.org](http://www.immunology2022.org) for the most up-to-date scientific program information.

### AAI PRESIDENT'S ADDRESS

FRIDAY, MAY 6, 5:00 PM

#### Immunology: Building on the Past to Meet the Moment

Presentation of AAI Lifetime Achievement Award

**Gary A. Koretzky**, Cornell Univ. and Weill Cornell Med., AAI President (2021–2022)



Gary A. Koretzky

#### Introduction

**Arthur Weiss**, HHMI, Univ. of California, San Francisco

### AAI PRESIDENT'S SYMPOSIUM

MONDAY, MAY 9, 12:30 PM – 2:30 PM

#### From Fundamental Investigation to Revolutions in Health Care: Stories of Immunological Discovery

Presentation of AAI Excellence in Mentoring Award

Chair: **Gary A. Koretzky**, Cornell Univ. and Weill Cornell Med., AAI President (2021–2022)

#### Speakers



**Arthur Weiss**, HHMI, Univ. of California, San Francisco

Early efforts to understand how the oligomeric T cell antigen receptor signals led to simplicity and complexity



**Carl H. June**, Univ. of Pennsylvania Perelman Sch. of Med.

Engineering the immune system as a new tool for cancer therapy



**M. Virginia Pascual**, Weill Cornell Med., Drukier Inst. for Children's Hlth.

A roadmap to personalized therapies for autoimmune diseases



**Raphaela T. Goldbach-Mansky**, NIAID, NIH

Autoinflammatory diseases in children

### 2022 DISTINGUISHED LECTURES

SATURDAY, MAY 7, 6:00 PM



**Robert D. Schreiber**, Washington Univ. Sch. of Med. in St. Louis

Neoantigens as probes and targets of immune responses to cancer

SUNDAY, MAY 8, 6:00 PM



**Katherine A. Fitzgerald**, Univ. of Massachusetts Med. Sch.

Regulation, initiation, and resolution of inflammation

MONDAY, MAY 9, 6:00 PM



**Yasmine Belkaid**, NIAID, NIH

Control of tissue immunity and repair by the microbiota

### IMMUNOLOGY2022™ VACCINE POLICY

In consideration of the health and safety of all meeting attendees and convention center staff, all registrants must provide official proof of WHO- or CDC-approved COVID-19 vaccination.

### IMMUNOLOGY2022™ MASK POLICY

Currently there is a mask policy in the State of Oregon. To read the full IMMUNOLOGY2022™ COVID-19 Vaccination Policy, visit [www.immunology2022.org/policy-statements](http://www.immunology2022.org/policy-statements).

### ABSTRACTS



Daily Dedicated Poster Presentation Time 2:30 PM – 3:45 PM

AAI invites the submission of abstracts that report new scientific research developments in all areas of immunology. Abstracts are welcome from scientists in all sectors—academia, research institutions, government, and industry.

All accepted abstracts will be programmed into **Poster Sessions**. Outstanding abstracts will also be programmed for podium presentations in **Block Symposia**.

To submit an abstract, please visit [www.immunology2022.org/abstracts](http://www.immunology2022.org/abstracts).

Abstract Submission **Now Open**  
Abstract Submission Closes **December 20, 2021**

#### Abstract Submission Fees

AAI Member \$90 Nonmember \$110

SATURDAY, MAY 7, 8:00 AM – 11:30 AM

### MAJOR SYMPOSIUM A Development of the Immune System

#### Chairs

**Avinash Bhandoola**, NCI, NIH  
**Ellen V. Rothenberg**, CalTech

### MAJOR SYMPOSIUM B Macrophage Biology, Diversity, and Inflammation

#### Chairs

**Mireia Guerau-de-Arellano**, The Ohio State Univ.  
**Claudia V. Jakobzick**, Geisel Sch. of Med. at Dartmouth

SUNDAY, MAY 8, 8:00 AM – 11:30 AM

### MAJOR SYMPOSIUM C Sex Differences in the Immune Response

#### Chairs

**Sabra L. Klein**, Johns Hopkins Bloomberg Sch. of Pub. Hlth.  
**Shannon E. Dunn**, Univ. of Toronto, Canada

### MAJOR SYMPOSIUM D Maintaining Tissue Homeostasis During Initiation and Resolution of Inflammation

#### Chairs

**Daniel J. Campbell**, Benaroya Res. Inst.  
**Keke C. Fairfax**, Univ. of Utah

MONDAY, MAY 9, 8:00 AM – 11:30 AM

### MAJOR SYMPOSIUM E Tumor Microenvironment

#### Chairs

**Shannon J. Turley**, Genentech  
**Padmanee Sharma**, Univ. of Texas MD Anderson Cancer Ctr.

### MAJOR SYMPOSIUM F B Cell Responses in Non-Lymphoid Tissues

#### Chairs

**Jennifer L. Gommerman**, Univ. of Toronto, Canada  
**Jeffrey L. Browning**, Boston Univ. Sch. of Med.

TUESDAY, MAY 10, 8:00 AM – 11:30 AM

### MAJOR SYMPOSIUM G Immunology of COVID-19: Mechanisms of Pathology and Protection

#### Chairs

**Ali H. Ellebedy**, Washington Univ. Sch. of Med. in St. Louis  
**Deepta Bhattacharya**, Univ. of Arizona

### MAJOR SYMPOSIUM H New Insights into Autoimmunity and Immune Tolerance

#### Chairs

**Hongbo Chi**, St. Jude Children's Res. Hosp.  
**Vijay K. Kuchroo**, Brigham and Women's Hosp.

### 2022 CAREER AWARD PRESENTATIONS AND LECTURES

Each year AAI recognizes the extraordinary professional achievements and career promise of its members. Those selected for the following AAI Career Awards will receive their awards and present their research in a lecture during the meeting.

#### AAI-BD Biosciences Investigator Award

Recognizes an early-career investigator who has made outstanding contributions to the field of immunology

#### AAI-BioLegend Herzenberg Award

Recognizes an individual who has made exemplary research contributions to the field of B cell biology

#### AAI-Steinman Award for Human Immunology Research

Recognizes an individual who has made significant contributions to the understanding of immune processes underlying human disease pathogenesis, prevention, and therapies

#### AAI-Thermo Fisher Meritorious Career Award

Recognizes a mid-career scientist for outstanding research contributions to the field of immunology

#### AAI Vanguard Lecture

Presented by an AAI member selected by the Minority Affairs Committee for their scientific achievement and exemplary career success

#### Chair

**Tonya J. Webb**, Univ. of Maryland Sch. of Med., AAI Minority Affairs Committee Chair



**Cherié L. Butts**, Biogen

Concept to approved drug: why immunologists are critical when developing new medicines

### GUEST SESSIONS

Each year the AAI annual meeting is joined by societies from around the world sponsoring dynamic symposia featuring specialty areas of immunology and related disciplines. Key NIH institutes also sponsor sessions.

### AAI COMMITTEE-SPONSORED SESSIONS AND EVENTS

AAI Committees host symposia, workshops, lectures, and events that address the most recent advances in their specialty areas of immunology research, as well as issues in public policy and career development.

**Clinical Immunology Committee:** *NextGen Transformative Immunologic Therapies for Human Disease*

**Committee on Public Affairs:** *ARPA-H: What You Need to Know and How It May Impact Federal Funding of Biomedical Research; and Vaccine Acceptance: Lessons from the Past and Tools for the Future*

**Committee on the Status of Women and Education Committee:** *Careers in Science Lecture and Roundtables*

**Education Committee:** *Careers in Biotech: Panel Discussion and Networking; and Immunology Teaching Interest Group*

**Membership Committee:** *New Member Reception (by invitation only)*

**Minority Affairs Committee:** *Careers Roundtables and Speed Networking Session; and AAI Vanguard Lecture*

**Program Committee:** *Back to School: A Review of Four Fast-Moving Fields*

**Publications Committee:** *A moderated panel on the best practices in scientific publishing*

**Veterinary Immunology Committee:** *Immunomodulation and Immunotherapy: Lessons to Improve Health*

### AAI CAREER DEVELOPMENT OPPORTUNITIES

Through workshops, presentations, roundtables, and one-on-one counseling, **IMMUNOLOGY2022™** will provide the following career development programs:

- Chalking Up Success: The All-Important Chalk Talk and Preparing for a Faculty Interview
- How to Convert Your CV into a Résumé
- How to Convert Your CV into a Résumé: One-on-One Consultation
- Interviewing for a Job
- Jobs Board
- NIH Grants Workshop: Demystifying the Grant Application Submission, Review, and Funding Processes
- How to Have a Successful Postdoctoral Experience
- and more!

### SOCIAL EVENTS

FRIDAY, MAY 6, 6:00 PM – 7:30 PM



### IMMUNOLOGY2022™ WELCOME BACK RECEPTION

**Together again!** Join us at the opening night **Welcome Back Reception** to celebrate the start of **IMMUNOLOGY2022™**! Come directly from the President's Address to a lineup of Portland's world-famous food trucks just outside the Convention Center, featuring cuisines for every taste. Reunite with friends, make new acquaintances, and plan your week. One complimentary drink ticket is included in your registration. Delicious and different! *Registered attendees only. Attendees must be 21 years of age or older.*

MONDAY, MAY 9, 7:00 PM – 9:30 PM



### IMMUNOLOGY2022™ GALA

Portland Art Museum

The **IMMUNOLOGY2022™ Gala** will be held at the Portland Art Museum ([www.portlandartmuseum.org](http://www.portlandartmuseum.org)), which features outstanding exhibits ranging from modern trends to historic art periods. Take part in interactive exhibits, view films, or gaze at classic pieces. The museum shop will also be open. The Portland Art Museum recognizes and honors the Indigenous communities—past, present, and future—of the region on whose ancestral lands it stands. Attendees will have access to the full museum. Food and drinks will be available, and as is the Gala's tradition, you will have the opportunity to express yourself on the Grand Ballroom dance floor! *Tickets will be available for purchase during the registration process. Attendees must be 21 years of age or older.*

### REGISTRATION

Early Registration opens **December 6, 2021** | Early Registration Deadline: **March 29, 2022**

The registration fee covers entrance to scientific sessions, poster hall, exhibits, the Welcome Back Reception, and the printed Meeting Guide. Visit [www.immunology2022.org/registration](http://www.immunology2022.org/registration) for complete details.

REGISTRATION CATEGORIES AND FEES	EARLY REGISTRATION Dec 6–Mar 29	ADVANCE REGISTRATION Mar 30–May 5	ON-SITE REGISTRATION May 6 or later
<b>MEMBERS*</b>			
Regular or Associate	\$425	\$525	\$625
Postdoc	\$325	\$425	\$525
Emeritus	\$250	\$300	\$350
Young Professional	\$325	\$425	\$525
Graduate Student	\$115	\$140	\$175
Undergraduate Institution Faculty	\$325	\$425	\$525
Undergrad Student	\$25	\$50	\$75
<b>NONMEMBERS*</b>			
Regular or Associate	\$695	\$795	\$895
Postdoc**	\$475	\$575	\$675
Young Professional**	\$475	\$575	\$675
Graduate Student**	\$200	\$300	\$400
Undergraduate Institution Faculty**	\$475	\$575	\$675
Undergrad Student**	\$80	\$110	\$130
High School Teacher**	\$50	\$50	\$50
High School Student**	\$25	\$25	\$25
Cancellation Fee (no refunds available after April 6, 2022)	\$100	\$100	n/a

\* Registrants must be members through January 1, 2023, at the time of registration to qualify for the lowest rates. **Registrants who renew or become members after registration for the meeting will not be refunded the difference in rates.** Visit [www.aai.org/membership](http://www.aai.org/membership) to join, or direct any inquiries to [members@aai.org](mailto:members@aai.org).

\*\* Contact [meetings@aai.org](mailto:meetings@aai.org) to register.



## ABSTRACT SUBMISSION TOPICS

For details on what the following topics include, visit [www.IMMUNOLOGY2022.org/abstracts/topic-categories](http://www.IMMUNOLOGY2022.org/abstracts/topic-categories).

- Antigen Processing and Presentation
- Basic Autoimmunity
- Cellular Adhesion, Migration, and Inflammation
- Cytokines and Chemokines and Their Receptors
- Hematopoiesis and Immune System Development
- Immediate Hypersensitivity, Asthma, and Allergic Responses
- Immune Mechanisms of Human Disease
- Immune Response Regulation: Cellular Mechanisms
- Immune Response Regulation: Molecular Mechanisms
- Immunology Education
- Innate Immune Responses and Host Defense: Cellular Mechanisms
- Innate Immune Responses and Host Defense: Molecular Mechanisms
- Lymphocyte Differentiation and Peripheral Maintenance
- Microbial, Parasitic, and Fungal Immunology
- Mucosal and Regional Immunology
- Technological Innovations in Immunology
- Therapeutic Approaches to Autoimmunity
- Transplantation Immunology
- Tumor Immunology
- Vaccines and Immunotherapy
- Veterinary and Comparative Immunology
- Viral Immunology

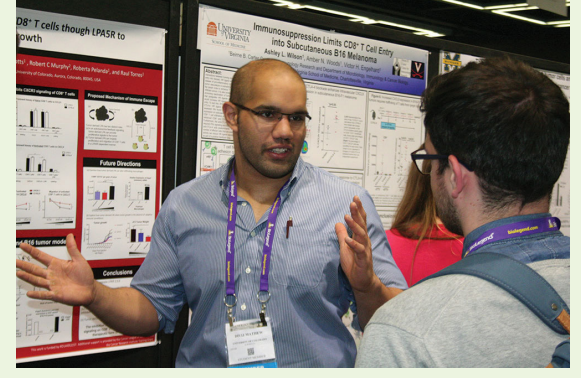
**At IMMUNOLOGY2019™, over 600 abstracts were programmed for podium presentations in Block Symposia.**

## POSTERS

Posters will rotate daily and will be available for viewing on Saturday, Sunday, and Monday from 9:30 AM to 4:30 PM in the Exhibit Hall. Authors will be present to discuss their work during daily poster sessions between 2:30 PM and 3:45 PM, unopposed by any other sessions.

If you wish to submit an abstract, visit [www.IMMUNOLOGY2022.org/abstracts](http://www.IMMUNOLOGY2022.org/abstracts). Please note:

- All accepted abstracts, including those selected for podium presentation, are required to be presented as a poster.
- Posters are viewable for one day only.
- Presenters are to place their posters on their assigned space between 7:30 AM and 9:30 AM on their scheduled day.
- All first authors must be present at their poster between the hours of 2:30 PM and 3:45 PM on their assigned day.
- Posters are to remain up until 3:45 PM and be removed no later than 4:30 PM on the assigned day; posters not removed will be discarded.



- Videoing or photographing posters without author permission is forbidden. Authors are allowed to photograph/video their own posters.

**Daily Unopposed Poster Presentation Times**  
Saturday through Monday: 2:30 PM – 3:45 PM

**IMPORTANT:** For presentation guidelines, visit [www.IMMUNOLOGY2022.org/abstracts](http://www.IMMUNOLOGY2022.org/abstracts).

## MEET THE EXHIBITORS ONLINE!

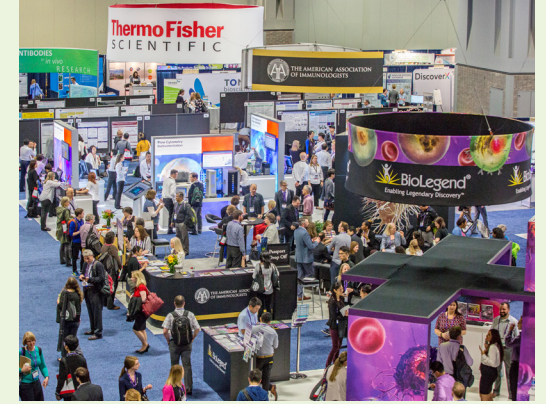
Visit [www.IMMUNOLOGY2022.org](http://www.IMMUNOLOGY2022.org) to learn about all the exciting new products and services you will see at IMMUNOLOGY2022™.

## EXHIBIT HALL

**Open Saturday, Sunday, and Monday from 9:30 AM – 4:30 PM**

Leading scientific companies and organizations will showcase their products and services. Returning this year is the "AAI Passport to Prizes Raffle" for attendees visiting the Exhibit Hall.

Three lucky winners will receive a \$250 gift card! Plan which exhibits you wish to visit, and learn more by viewing the interactive Exhibit Floor Plan at [www.IMMUNOLOGY2022.org/exhibitors](http://www.IMMUNOLOGY2022.org/exhibitors).



## EXHIBITOR WORKSHOPS

Take advantage of the knowledge-building opportunities presented in Exhibitor Workshops. Located on the Exhibit Floor, these workshops explore the newest technologies, products, and services through presentations, demonstrations, and discussions.

*Workshops are planned and conducted by exhibitors. These sessions do not constitute endorsement of any product or service by AAI.*

# IMMUNOLOGY2022™

## JOBS BOARD

**Post Online and Meet On-site**

AAI offers career services to job seekers and employers through the **Jobs Board**—free for meeting attendees and exhibitors.

TAKE ADVANTAGE OF THIS FREE CAREER SERVICE FOR ATTENDEES AND EXHIBITORS!

**Jobs Board submission information will be available online in February 2022.**



**Join us in PORTLAND May 6–10, 2022, for GREAT SCIENCE!**  
[www.IMMUNOLOGY2022.org](http://www.IMMUNOLOGY2022.org)



**Register before March 29, 2022, to take advantage of the Early Registration Discount!**

To register, visit [www.IMMUNOLOGY2022.org/registration](http://www.IMMUNOLOGY2022.org/registration).

**Book Your Hotel Early for the Best Selection and Rates!**

Take advantage of special rates and convenient locations when you stay at AAI-designated hotels.

View hotels in the AAI block at [www.IMMUNOLOGY2022.org/meeting-hotels](http://www.IMMUNOLOGY2022.org/meeting-hotels).

Learn more at [www.IMMUNOLOGY2022.org](http://www.IMMUNOLOGY2022.org).

Complete information on Awards at [www.AAI.org/Awards](http://www.AAI.org/Awards)

**TRAVEL AWARD & GRANT APPLICATIONS DEADLINE: DECEMBER 20, 2021**

**An average of 700 AAI members receive AAI travel awards each year!**



The AMERICAN ASSOCIATION OF IMMUNOLOGISTS  
1451 Rockville Pike, Suite 650 | Rockville, MD 20852

# IMMUNOLOGY2022™

FRIDAY, MAY 6 – TUESDAY, MAY 10, 2022

## IMPORTANT DATES AND DEADLINES

### Abstract Submission

Abstract Submission	<b>Now Open</b>
Abstract Submission Closes	<b>December 20, 2021</b>

### Registration

Registration Opens	<b>December 6, 2021</b>
Early Registration Discount Ends	<b>March 29, 2022</b>

### Awards

Travel Award & Grant Applications	<b>Now Open</b>
Travel Award & Grant Applications Due	<b>December 20, 2021</b>

### Housing

Discounted Housing Reservations	<b>Now Open</b>
Discounted Hotel Rates End	<b>April 3–14, 2022</b> (varies by hotel)

[www.IMMUNOLOGY2022.org](http://www.IMMUNOLOGY2022.org)

## PLEASE POST!



CALL FOR ABSTRACTS

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AAI ANNUAL MEETING | MAY 6–10, 2022 | OREGON CONVENTION CENTER | PORTLAND, OR

[www.IMMUNOLOGY2022.org](http://www.IMMUNOLOGY2022.org)