

NOVEMBER 13 – 16 | PITTSBURGH, PA | CONFERENCE PROGRAM



ABRCMS 2024



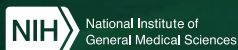
**Build Community,
Share Your Research,
Fuel Your Passion for STEM**



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Vivien Thomas Scholars Initiative



Shape our
FUTURE.

Learn about the

**Vivien Thomas Scholars Initiative
at Johns Hopkins University.**

Inspired by the work of Dr. Thomas, the Vivien Thomas Scholars Initiative (VTSI) is dedicated to nurturing, mentoring, and connecting the next generation of **leaders in STEM at historically black colleges and universities and minority-serving institutions.**

LEARN MORE ABOUT THIS INITIATIVE ▶




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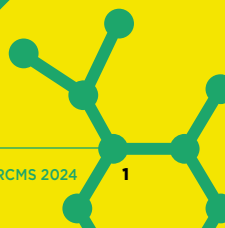
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Welcome from Dr. Avery August

On behalf of the Steering Committee for Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS), and the American Society for Microbiology, I would like to extend a hearty welcome to ABRCMS 2024 here in Pittsburgh, Pennsylvania. This is our northernmost meeting location, and we are really excited about being here. ABRCMS continues to thrive in the face of serious ongoing challenges to diversifying the STEM community. I continue to be extremely proud of our very strong tradition of supporting and investing in diversity and inclusion with excellence in STEM, because this diversity is our future.

Our theme this year is *"Build Community, Share Your Research, Fuel Your Passion for STEM."* From our very first meeting, ABRCMS has worked to build a truly inclusive community of scientists, assembling, engaging and supporting each other talking about science. ABRCMS is a place for inspiring and supporting the future leaders of a more diverse scientific community. While we started with a focus on undergraduate students, we have evolved to be a thriving community of scientists across the career spectrum.

The core of ABRCMS, and our theme, is building community for current and future leaders of STEM so that we can continue to share research advances in STEM. We achieve this by leveraging and bringing you the latest advancements in science, delivered by distinguished plenary speakers, from HHMI Investigator Dr. Diana Bautista, speaking on sensory neuroimmune interactions, to Distinguished Senior Law and Policy Fellow Jamie Lewis Keith on how we can develop a research ecosystem that includes all talent, to 2024 Macarthur Fellow "genius" awardee Ruha Benjamin on growing the world we want to live in. They are part of a large number of accomplished speakers and leaders from across career stages and fields. From undergraduate and post-baccalaureate students presenting their research, to graduate students sharing their thesis work in our graduate symposium, to independent scientists across the full career stage, all presenting leading-edge scientific talks. A key aspect of ABRCMS is the wide range of professional development programs to meet the many needs of our participants. I am always excited to see the sense of wonderment on the faces of those who are new to ABRCMS as they discover what an amazing space this is, the enveloping feeling of "community" that long-time attendees feel upon arrival. A warm, huge welcome to our supportive scientific community.

So, while you are here over the next few days, I encourage you to make the most of the one of a kind space, expand your connections, immerse yourself in the science (and really engage with the speakers by asking a lot of questions!), talk to the exhibitors, be prepared to mentor and be mentored, support and be supported, because ABRCMS built this scientific community for us, so that we can build the future of STEM.

The ABRCMS Steering Committee, the ASM staff, the exhibitors have put in a great deal of effort to bring you everything you experience here. The many volunteer judges, presenters, and convention center support staff are all here doing a remarkable job to make this meeting possible. We would like to thank them all in advance for all their hard work in making this meeting a success. And as always, we are eternally grateful for the continued support of Division of Training, Workforce Development, and Diversity at the National Institute of General Medical Sciences, NIH, whose funding has continued to make ABRCMS what it is.



With my warmest wishes,
Avery August, Ph.D.
Chairperson, ABRCMS

Greetings from NIH

On behalf of the National Institutes of Health's National Institute of General Medical Sciences (NIGMS), we would like to welcome you to the 2024 Annual Biomedical Research Conference for Minoritized Scientists. We are very proud to support this meeting, which brings together a community of outstanding scientists for stimulating discussions of research, careers and more.

This meeting is one element of our many activities in the areas of training, workforce development, diversity and research capacity building. Our NIGMS programs range from the high school level through the undergraduate, graduate, postdoctoral and faculty levels. For example, we support an array of programs to enhance diversity in the biomedical research workforce including Science Education Partnership Awards, Bridges to the Baccalaureate, Maximizing Access to Research Careers, Research Training Initiative for Scientific Enhancement, Initiative for Maximizing Student Development, Postbaccalaureate Research Education, Bridges to the Doctorate, Institutional Research and Academic Career Development Awards, Maximizing Opportunities for Scientific and Academic Independent Careers, the Diversity Supplement Program, the Tribal Undergraduate to Graduate Research Training and Leadership Experiences Program, the Advancing Research Careers program, the Native American Research Centers for Health and the Support for Research Excellence Programs.

For those of you who are attending as mentors and sponsors, we truly appreciate your dedication and many contributions to your students and our shared goals. For those of you still in training, we hope that your involvement in this meeting further inspires and motivates you to pursue careers and leadership positions in the biomedical research workforce and leadership roles in biomedical science. During your time here, you will gain important allies for your future: a community of peers who will become your colleagues and friends as well as a network of scientists and mentors who are deeply committed to your success in pursuit of a research doctorate and a career in the biomedical research workforce.

We encourage you to make the most of the meeting and take every advantage of the resources and opportunities it offers to help you prepare for the next stages of your research career. We look forward to seeing your presentations and talking to you over the course of the next few days.

Sincerely,



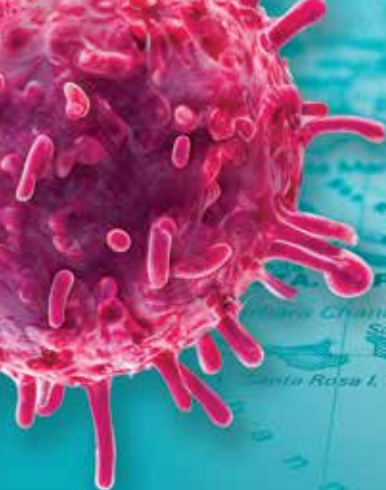
Jon R. Lorsch, Ph.D.

Director
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Medical Sciences National
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Alison Gammie, Ph.D.

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Join us in Downtown
Los Angeles for the

Microbial Sciences Event of the Year

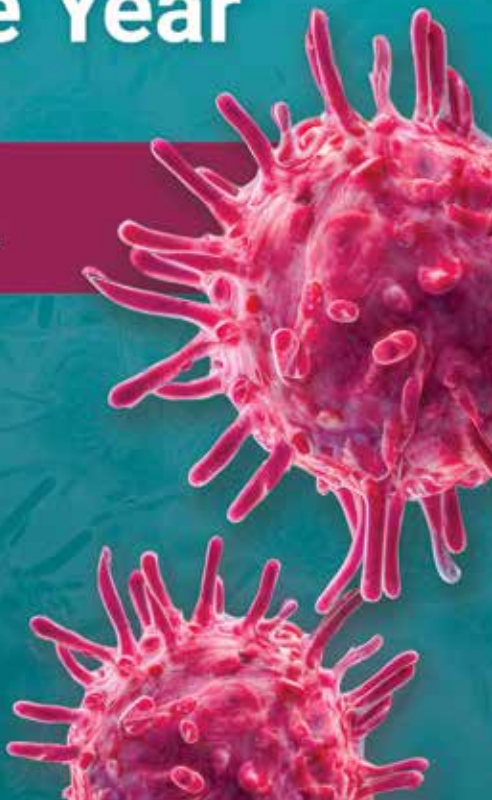
Abstract Submissions Open
Early November 2024

Visit [ASM.org/Microbe](https://asm.org/microbe)
to learn more.



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JUNE 19-23, 2025 | LOS ANGELES



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MedStar Harbor Hospital

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Burroughs Wellcome Fund

ABRCMS Conference Schedule-at-a-Glance

Wednesday, November 13

TIME	ACTIVITY
12:00 p.m. – 8:00 p.m.	Registration
2:00 p.m. – 4:00 p.m.	Concurrent Workshops
3:00 p.m. – 8:00 p.m.	Exhibitor Move-In
4:15 p.m. – 5:00 p.m.	Career Pathways and Networking Opportunities in STEM Disciplines Discussion
5:15 p.m. – 6:00 p.m.	Concurrent Professional Development Sessions
6:00 p.m. – 6:15 p.m.	ABRCMS Travel Awardee Meet & Greet
6:15 p.m. – 7:15 p.m.	Networking Dinner
7:30 p.m. – 8:30 p.m.	PREP Scholars Meet & Greet
7:30 p.m. – 8:30 p.m.	MARC Scholars Meet & Greet
7:30 p.m. – 8:30 p.m.	Bridges to Baccalaureate and BUILD Program Directors Meeting
7:30 p.m. – 8:30 p.m.	Bridges to Doctoral Program Directors Meeting
7:30 p.m. – 8:30 p.m.	MSTP–M.D./Ph.D. Program Directors Meeting
7:30 p.m. – 8:30 p.m.	NIGMS T32 Predoctoral Program Directors Meeting
7:30 p.m. – 9:30 p.m.	Graduate Student Poster Presentations and Reception
8:30 p.m. – 9:30 p.m.	MAPRS Program Director Meeting
8:30 p.m. – 9:30 p.m.	Judges Orientations by Discipline

Thursday, November 14

TIME	ACTIVITY
7:00 a.m. – 6:00 p.m.	Registration
7:15 a.m. – 8:00 a.m.	Continental Breakfast*
8:00 a.m. – 12:00 p.m.	Exhibitor Move-In
8:30 a.m. – 9:30 a.m.	Welcome and Opening Keynote Address
9:45 a.m. – 10:15 a.m.	Concurrent Scientific Expert Lecture Sessions
10:30 a.m. – 11:15 a.m.	Concurrent Professional Development Sessions
11:30 a.m. – 11:45 a.m.	Concurrent Scientific Flash Talks
12:00 p.m. – 1:00 p.m.	Networking Lunch
1:15 p.m. – 2:15 p.m.	Keynote Address
2:30 p.m. – 7:00 p.m.	Exhibit and Poster Hall Hours
2:45 p.m. – 4:00 p.m.	Poster Session 1 (A)

Thursday, November 14 (continued)

3:00 p.m. – 6:30 p.m.	Professional Development 30–min Theater Spotlights
4:15 p.m. – 5:30 p.m.	Poster Session 2 (B)
5:45 p.m. – 7:00 p.m.	Poster Session 3 (C)
7:00 p.m. – 8:00 p.m.	Networking Dinner
8:00 p.m. – 8:45 p.m.	Concurrent Professional Development Sessions

Friday, November 15

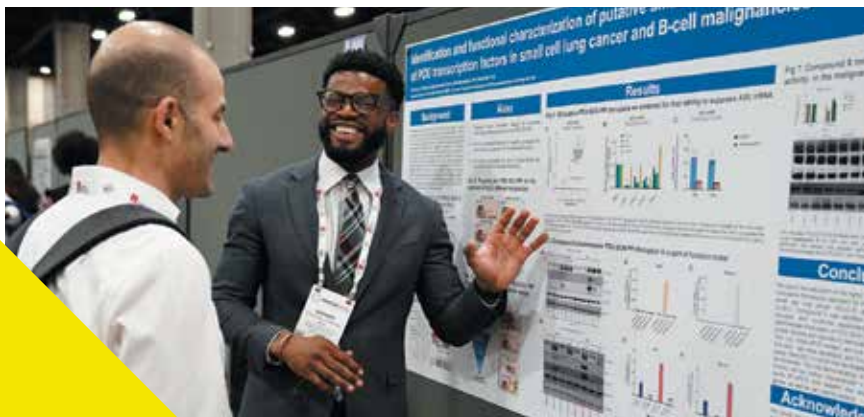
TIME	ACTIVITY
7:00 a.m. – 5:00 p.m.	Registration
7:15 a.m. – 8:00 a.m.	Continental Breakfast*
8:30 a.m. – 9:15 a.m.	Concurrent Professional Development Sessions
9:30 a.m. – 10:00 a.m.	Concurrent Scientific Expert Lecture Sessions
10:15 a.m. – 11:00 a.m.	Keynote Address
11:15 a.m. – 12:00 p.m.	Student Oral Presentations
11:15 a.m. – 12:00 p.m.	TWD–PDO Steering Committee Meeting
12:15 p.m. – 1:15 p.m.	Networking Lunch
1:30 p.m. – 2:15 p.m.	Keynote Address
2:30 p.m. – 3:30 p.m.	TWD–PDO Steering Committee and NIH Program Officers Meeting
2:30 p.m. – 7:00 p.m.	Exhibit and Poster Hall Hours
2:45 p.m. – 4:00 p.m.	Poster SESSION 4 (D)
3:00 p.m. – 6:30 p.m.	Professional Development 30–min Theater Spotlights
4:15 p.m. – 5:30 p.m.	Poster Session 5 (E)
5:45 p.m. – 7:00 p.m.	Poster Session 6 (F)
7:00 p.m.	FREE TIME
7:00 p.m. – 9:30 p.m.	Speakers, Exhibitors, Program Directors, and Judges Reception (nonstudents only)
7:00 p.m. – 9:30 p.m.	University of Pittsburgh's Meet and Greet
7:00 p.m. – 9:30 p.m.	Affiliated Events (by invitation only)

ABRCMS Conference Schedule-at-a-Glance (continued)

Saturday, November 16

TIME	ACTIVITY
7:00 a.m. – 12:00 p.m.	Registration
7:15 a.m. – 8:00 a.m.	Continental Breakfast*
8:15 a.m. – 9:15 a.m.	Exhibitor Feedback Session
8:15 a.m. – 9:15 a.m.	MARC Program Directors Meeting
8:15 a.m. – 9:15 a.m.	U-RISE Program Directors Meeting
8:15 a.m. – 9:15 a.m.	PREP Program Directors Meeting
8:15 a.m. – 9:15 a.m.	IMSD Program Directors Meeting
8:15 a.m. – 9:15 a.m.	G-RISE Program Directors Meeting
8:30 a.m. – 9:30 a.m.	Student Oral Presentations
9:30 a.m. – 12:00 p.m.	Exhibit Hall Hours
10:00 a.m. – 11:00 a.m.	ePoster Presentations (I)
10:30 a.m. – 11:45 a.m.	Exhibitor Spotlight Sessions
11:00 a.m. – 12:00 p.m.	ePoster Presentations (II)
12:15 p.m. – 4:00 p.m.	Exhibitor Move-Out
12:15 p.m. – 1:15 p.m.	Mentoring Session for Virtual Attendees
12:00 p.m. – 5:00 p.m.	FREE TIME
6:00 p.m. – 7:00 p.m.	Closing Dinner
7:30 p.m. – 8:30 p.m.	Closing Keynote Address & ABRCMS Alumni Panel Discussion
8:45 p.m. – 9:30 p.m.	Awards Ceremony and Recognition
10:00 p.m. – 1:00 a.m.	Games and Dance Social (all are invited)

*Breakfast will be available to attendees whose hotels do not provide complimentary breakfast.



ABRCMS Graduate Symposium Schedule-at-a-Glance

Saturday, November 16

TIME	ACTIVITY
10:00 a.m. – 10:20 a.m.	Welcome and Overview
10:30 a.m. – 11:15 a.m.	General Session
11:30 a.m. – 12:15 p.m.	Concurrent Professional Development Sessions
12:15 p.m. – 1:00 p.m.	Networking Lunch
1:00 p.m. – 1:45 p.m.	General Session
2:00 p.m. – 3:15 p.m.	Doctoral-level Graduate Student Oral Presentations
3:30 p.m. – 4:15 p.m.	Concurrent Professional Development Sessions

Sunday, November 17

TIME	ACTIVITY
7:15 a.m. – 8:15 a.m.	Breakfast
8:30 a.m. – 9:15 a.m.	General Session
9:30 a.m. – 10:45 a.m.	Doctoral-level Graduate Student Oral Presentations
10:45 a.m. – 11:00 a.m.	Refreshment Break
11:00 a.m. – 11:45 a.m.	Concurrent Professional Development Sessions
12:00 p.m. – 12:30 p.m.	Open Forum and Closing Remarks



ABRCMS Supporters

ABRCMS would like to recognize the following universities and organizations for their support of ABRCMS 2024.

Major Conference Sponsors



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Top Cell Biology Sessions

You're invited to attend two dynamic sessions presented by the American Society for Cell Biology during **ABRCMS 2024**.

Insights into Neurodegeneration: Cell Biology Illuminates Disease Mechanisms

Friday, November 15 | 9:30 a.m. – 10:00 a.m.

Presented By:

ASCB's Maximizing Access to Cell Biology for PEERS Committee

Speakers:

Dr. Mariana Torrente, Brooklyn College at CUNY

Dr. Fernando Vonhoff, University of Maryland, Baltimore County

Mentoring Matters! Inclusive Strategies to Increase Diversity in the STEM Workforce

Thursday, November 14 | 10:30 a.m. – 11:15 a.m.

Presented By:

ASCB's Maximizing Access to Cell Biology for PEERS Committee

Speakers:

Dr. Michelle Martínez Montemayor, Universidad Central del Caribe

Dr. Chrystal Starbird, University of North Carolina at Chapel Hill

Dr. Mariana Torrente, Brooklyn College – CUNY

Dr. MariaElena Zavala, California State University, Northridge

Keynote Speakers

Thursday, November 14

8:30 a.m. - 9:30 a.m.



Welcome Remarks

- **Avery August, Ph.D.**, Cornell University, Ithaca, NY



Greetings from Mayor of Pittsburgh

- **Ed Gainey**, Pittsburgh, PA



Greetings from NIH

- **Alison Gammie, Ph.D.**, National Institute of General Medical Sciences, Bethesda, MD



Greetings from ASM

- **Stefano Bertuzzi, Ph.D., M.P.H.**, American Society for Microbiology, Washington, DC

OPENING KEYNOTE ADDRESS

A Future of Excellence in the Bio-Sciences: Maximizing the “Can Do’s” For an Equitable & Diverse Education/ Research Ecosystem That Includes All Talent



SPEAKER

- **Jamie Lewis Keith, J.D.**, Education Counsel LLC, Washington, DC

Thursday, November 14

1:15 p.m. – 2:15 p.m.

KEYNOTE ADDRESS

Unleashing Innovation: A Passport to Limitless Possibilities and Social Impact



- **Cecelia C. Yates, Ph.D.**, University of Pittsburgh, Pittsburgh, PA



- **James Huguley, Ph.D.**, University of Pittsburgh, Pittsburgh, PA



- **Charles Jonassaint, Ph.D., MHS**, University of Pittsburgh, Pittsburgh, PA



- **Katrina Knight, Ph.D.**, University of Pittsburgh, Pittsburgh, PA



- **Juan Taboas, M.S., Ph.D.**, University of Pittsburgh, Pittsburgh, PA

Friday, November 15

10:15 a.m. – 11:00 a.m.

KEYNOTE ADDRESS



Pain Goes Viral: Adventures in Sensory Biology

- **Diana Bautista, Ph.D.**,
University of California,
Berkeley

Friday, November 15

1:30 p.m. – 2:15 p.m.

KEYNOTE ADDRESS



Reimagining STEM: From Artificial Intelligence to Abundant Imagination

- **Ruha Benjamin, Ph.D.**,
Princeton University,
Princeton, NJ

Saturday, November 16

7:30 p.m. – 8:30 p.m.

CLOSING KEYNOTE ADDRESS

**Conversations with ABRCMS Alumni:
Where Are They Now?**



Concurrent Scientific Speakers

Scientific Expert Lectures

Thursday, November 14 | 9:45 a.m. – 10:15 a.m.



Structures of Membrane Bound Dynamin Primed for Membrane Fission

- **John Jimah, Ph.D.**, Princeton University, Princeton, NJ



Microplastics: Hidden Accelerators of Colorectal Cancer

- **Xiang Xue, Ph.D.**, University of New Mexico, Albuquerque, NM



Next-Generation Organ Regeneration at Cell-by-Gene Resolution

- **Yvon Woappi, Ph.D.**, Columbia University, New York, NY



3-Dimensional Molecular Engineering of Functional Materials for Biologic Stabilization and Multiplex Bioimaging

- **Marco Messina, Ph.D.**, University of Delaware, Newark, DE



Visualizing DNA Quaternary Structures that Regulate CRISPR Adaptive Immunity

- **Andrew Santiago-Frangos, Ph.D.**, University of Pennsylvania, Philadelphia, PA



Microglia Phagocytotic Mechanisms During Brain Development

- **Nicholas Silva, Ph.D.**, University of California, San Francisco, San Francisco, CA



Confounders in Pulse Oximetry for Darkly Pigmented Populations

- **Joshua Burrow, Ph.D.**, Brown University, Providence, RI



Microbial Infection Induced Vision Loss

- **Ashok Kumar, Ph.D.**, Wayne State University, Detroit, MI



- **Rahul Saxena, Ph.D.**, Georgetown University, Washington, DC



Combating Viruses: Repurposing Clinically Relevant Anti-Metabolism Drugs as Viral Therapies

- **Tracie Delgado, Ph.D.**, Seattle Pacific University, Seattle, WA



Protecting the Most Vulnerable: Brain Injuries in Children

- **Ramesh Raghupathi, Ph.D.**, Drexel University, Philadelphia, PA



Andropause: The Unspoken Men's Midlife Health Crisis

- **M. Alicia Carrillo-Sepulveda, Ph.D.**, New York Institute of Technology, Old Westbury, NY



Climate Change and Health Disparities and Equity Research

- **Daniel Carrión, Ph.D., M.P.H.**, Yale University School of Public Health, New Haven, CT



- **Alix Rachman, M.P.H.**, Yale University School of Public Health, New Haven, CT

Scientific Flash Talks

Thursday, November 14 | 11:30 a.m. – 11:45 a.m.



The Duffy Null Phenotype: The Biggest Health Equity Issue You Haven't Heard of

- **Christina Barriteau, M.D., M.P.H.**, Northwestern University, Evanston, IL



NIH Data Sharing Policies

- **Danyelle Winchester, Ph.D.**, National Institutes of Health, Bethesda, MD



Stress and Fertility: How Metabolism Shapes Reproductive Output

- **Lydia Grmai, Ph.D.**, Yale School of Medicine, New Haven, CT



CRISPR: A Way Forward

- **Amalene Cooper-Morgan, Ph.D.**, Seton Hill University, Greensburg, PA



Compute This: Diversity is Key to an 'Omics Understanding of Age-Related and Neurological Diseases

- **Dana Crawford, Ph.D.**, Case Western Reserve University, Cleveland, OH



Living with a Killer: How Coevolved *Saccharomyces cerevisiae* Become Killer Toxin Resistant

- **Michelle Hays, Ph.D.**, Stanford University, Stanford, CA



Seeing is Believing: Zooming in on Bacteriophages with Cryo-EM

- **Krista Freeman, Ph.D.**, University of Pittsburgh, Pittsburgh, PA



Inflammation: Friend or Foe?

- **Ramiah Jacks, Ph.D.**, University of Michigan, Ann Arbor, MI



Microbes as Catalysts for a Bio-Revolution

- **Timothy Donohue, Ph.D.**, University of Wisconsin-Madison, Madison, WI



Sex-specific Regulation of Neural Circuits and Behaviors Underlying Substance Use Disorder

- **Lillian Brady, Ph.D., M.S.**, The University of Alabama at Birmingham, Birmingham, AL



An Integrated Approach to Studying Rare Neuromuscular Diseases

- **Timothy J. Hines, Ph.D.**, The Jackson Laboratory, Bar Harbor, ME



Leveraging the All of Us Database to Investigate the Obesity Epidemic in the Hispanic Population

- **Susan A. Holecchek, Ph.D.**, Arizona State University, Tempe, AZ



- **Keilen Kelly, B.S.**, Arizona State University, Tempe, AZ

Scientific Expert Lectures

Friday, November 15 | 9:30 a.m. – 10:00 a.m.



How the Fat Gets Onto the Proteins - Chemistry and Biology of Protein Lipidation Enzymes

- **Anirban Banerjee, Ph.D.**, Eunice Kennedy Shriver National Institute of Child Health and Human Development, Rockville, MD



Collab and Conquer: Teaming Up for Breakthroughs in Cancer Therapy

- **Claudia Benavente, Ph.D.**, University of California, Irvine, Irvine, CA
- **Michael Emanuele, Ph.D.**, University of North Carolina, Chapel Hill, NC



Insights into Neurodegeneration: Cell Biology Illuminates Disease Mechanisms

- **Mariana Torrente, Ph.D.**, City University of New York-Brooklyn College, Brooklyn, NY
- **Fernando Vonhoff, Ph.D.**, University of Maryland Baltimore County, Baltimore, MD



New Reactivity to Solve Chemical Challenges

- **Elias Picazo, Ph.D.**, University of Southern California, Los Angeles, CA



Single-Cell Analysis of Differentiation and Drug Response in Glioblastoma

- **Peter A. Sims, Ph.D.**, Columbia University, New York City, NY



Early Career Faculty Research Projects Using All of Us Data: Two Projects to Enhance STEM Education and Mitigate Health Disparities

- **Stacy Lloyd, Ph.D.**, Tuskegee University, Tuskegee, AL
- **Debra Murray, Ph.D.**, Baylor College of Medicine, Houston, TX



What Is Biophysics, and Why Should You Know About It?

- **Anna Bukiya, Ph.D.**, University of Tennessee Health Science Center, Memphis, TN
- **Candice M. Etson, Ph.D.**, Smith College, Northampton, MA



A Gain-of-Function Paradox: Unraveling Immune Responses to Viruses

- **Rachael Philips, Ph.D.**, National Institute of Arthritis, Musculoskeletal, and Skin, NIH, Bethesda, MD



Controlling the Gut Microbiome: Genetic vs Community Engineering

- **Diego Rivera-Gelsinger, Ph.D.**, Columbia University Irving Medical Center, New York, NY
- **Guillaume Urtecho, Ph.D.**, University of California, San Diego, San Diego, CA





New Perspectives and Directions on Hearing Science

- **Luz Stephanie Andrino, B.A.**,
Carnegie Mellon University,
Pittsburgh, PA
- **Julia Jones Huyck, Ph.D.**,
Kent State University, Kent, OH



Innovator's Playground: Engineering the Future with Bold Scientific Concepts

- **Brian O'Grady, Ph.D.**, Vanderbilt University, Nashville, TN



Cardiovascular Disparities: Systemic Injustice and Biology

- **Debora Kamin Mukaz, M.S., Ph.D.**,
Larner College of Medicine at the University of Vermont,
Burlington, VT





AMERICAN
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Are You an Early-career Scientist in Microbiology or Immunology?

The American Society for Microbiology (ASM) **Maximizing Opportunities for Scientific and Academic Independent Careers** (MOSAIC) program is dedicated to propelling early-career scientists from postdoctoral positions to tenure-track faculty roles at esteemed research-intensive institutions.

Learn More at
asm.org/education/mosaic-program

This ASM program is supported by the National Institute of Allergy and Infectious Diseases of the National Institutes of Health (NIH) Grant #UE5AI178763.



ABRCMS 2024 Conference

Daily Program

The ABRCMS Conference Program is current as of October 25, 2024. For the latest updates and information, please refer to the mobile app.

**Breakfast will be available for attendees whose hotels do not provide complimentary breakfast. All sessions will be located at the Convention Center unless noted.*

Wednesday, November 13

REGISTRATION OPEN

12:00 p.m. – 8:00 p.m.

📍 Concourse A

WORKSHOPS

(10 WORKSHOP OPTIONS) 2:00 p.m. – 4:00 p.m.

WORKSHOP 01

📍 328

Building Your Influence Network

(Recommended for All Attendees)

SPEAKER

- **Sally Davis, D.V.M., Ph.D., Dipl. ACVP, Dipl. ACVM,** Horner Davis Consulting, Manhattan, KS

WORKSHOP 02

📍 327

Celebrating Personal and Scientific Identities: Key Questions to Ask Yourself and Others to Find a Grad School Fit

(Recommended for Community College Students, Undergraduate Students, and Postbaccalaureate Students)

SPEAKERS

- **Ana Maria Acosta, Ph.D.,** Northwestern University, Evanston, IL
- **Rosemarie Jones, M.P.P.A.,** Washington University in St. Louis, St. Louis, MO
- **Cassandra VanDunk, Ph.D.,** St. Jude Children's Research Hospital Graduate School, Memphis, TN

WORKSHOP 03

📍 324

Crawl, Walk, Run: Exploring the Road to Culture

(Recommended for All Attendees)

SPEAKER

- **Terry Lee Watson, M.S.,** Strategies For Justice, BWMP LLC, State College, PA

WORKSHOP 04

📍 329

Decisions, Decisions, Decisions, To Gap Year or Not?

(Recommended for Community College Students and Undergraduate Students)

SPEAKERS

- **Tameka Clemons, Ph.D.,** University of Houston, Houston, TX
- **Kimberly Williams, Ph.D.,** Spelman College, Atlanta, GA

WORKSHOP 05

📍 326

Fair Play: Conversations About Racial Bias in STEM

(Recommended for Graduate Students)

SPEAKER

- **Christine M. Pribbenow, Ph.D.,** University of Wisconsin – Madison, Madison, WI

WORKSHOP 06

📍 325

FOA, NOFO, NOSI, RFA, ... What?! Insider Tips to Navigating NIH Grants

(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

SPEAKERS

- **Sydella A. Blatch Alexander, Ph.D.,** National Institute of General Medical Sciences, NIH, Bethesda, MD
- **Marie Harton, Ph.D.,** National Institute of General Medical Sciences, NIH, Bethesda, MD
- **Isaiah Vincent, Ph.D.,** National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH, Bethesda, MD

WORKSHOP 07

📍 301 – 303

Handling Well-Being Conversations Well; Tools For Effective Communication About Stress, Well-Being and Mental Health*(Recommended for All Attendees)***SPEAKER**

- **Sharon Milgram, Ph.D.**, Office of Intramural Training and Education, NIH, Bethesda, MD

WORKSHOP 08

📍 315 – 316

Mentoring Up: Expanding and Strengthening Your Mentoring Relationships*(Recommended for Graduate Students)***SPEAKERS**

- **W. Marcus Lambert, Ph.D.**, SUNY Downstate Health Sciences University, Brooklyn, NY
- **Maria Lima, Ph.D.**, CUNY School of Medicine, New York, NY

WORKSHOP 09

📍 330

Supporting Students' and Postdocs' Career Development: Evidence-Based Strategies for Training Programs and Faculty Mentors*(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)***SPEAKERS**

- **Cynthia Fuhrmann, Ph.D.**, UMass Chan Medical School, Worcester, MA
- **Bill Lindstaedt, Ph.D.**, Professional Development Hub, Indianapolis, IN

WORKSHOP 10

📍 323

The Art of Selling Your Science using the FUN-damentals of Fellowship / Grant Writing*(Recommended for Graduate Students and Post-doctoral Scientists)***SPEAKERS**

- **Crystal Botham, Ph.D.**, Stanford University, Stanford, CA
- **Colwyn Headley, Ph.D.**, Stanford University, Stanford, CA

CONCURRENT NETWORKING SESSIONS**(12 SESSION OPTIONS) 4:15 p.m. – 5:00 p.m.****Career Pathways And Networking Opportunities In Stem Discipline Discussions***(All Attendees)***DISCIPLINES**

- Biochemistry & Molecular Biology 📍 301 – 303
- Cancer Biology 📍 319 – 321
- Cell Biology 📍 304 – 305
- Chemistry 📍 315 – 316
- Computational and Systems Biology 📍 406
- Developmental Biology and Genetics 📍 401 – 402
- Engineering, Physics, and Mathematics 📍 317 – 318
- Immunology 📍 411 – 412
- Microbiology 📍 408 – 410
- Neuroscience 📍 413 – 415
- Physiology & Pharmacology 📍 407
- Social & Behavioral Sciences and Public Health 📍 403 – 405

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS**(10 SESSION OPTIONS) 5:15 p.m. – 6:00 p.m.****SESSION 01**

📍 406

Ain't No Stoppin' Us Now: Advancing Undergraduate STEM Education Through Radical Hope*(Recommended for All Attendees)***SPEAKER**

- **Terrell R. Morton, Ph.D.**, University of Illinois Chicago, Chicago, IL

SESSION 02

📍 304 – 305

Beyond Academia and Industry: Exploring Careers at National Labs*(Recommended for Community College Students and Undergraduate Students)***SPEAKER**

- **Anand Kumar, D.V.M., Ph.D.**, Los Alamos National Laboratory, Bioscience Division, Los Alamos, NM

SESSION 03

📍 315 – 316

Deaf Hub: Advocating for Researchers in Academia*(Recommended for All Attendees)***SPEAKERS**

- **Elizabeth Ayers, M.S.**, Deaf Hub, National Technical Institute of Technology at Rochester Institute of Technology; Highland Hospital, University of Rochester, Rochester, NY
- **Paul Craig, Ph.D.**, Rochester Institute of Technology, Rochester, NY
- **Dyl Levenson, B.S.**, Rochester Institute of Technology/National Technical Institute for the Deaf, Rochester, NY
- **Lea Michel, Ph.D.**, Rochester Institute of Technology, Rochester, NY
- **Elaine Smolock, Ph.D.**, University of Rochester, Rochester, NY
- **LeeAnne Valentine, M.S.**, Deaf Hub, National Technical Institute for the Deaf, Rochester, NY

SESSION 04

📍 317 – 318

Enhancing Undergraduate Student Success: The Power of the Alliance*(Recommended for All Attendees)***SPEAKERS**

- **Gina Astorini, M.S., Ed.D.**, The Leadership Alliance; Brown University, Providence, RI
- **Taiese Bingham–Hickman, M.S., M.B.A., Ph.D.**, The Leadership Alliance; Brown University, Providence, RI

SESSION 05

📍 319 – 321

ISSC: The Integration of Theoretical Frameworks and Intervention Science to Promote Systemic Change in Higher Education*(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)***SPEAKERS**

- **Beronda L. Montgomery, Ph.D.**, Grinnell College, Grinnell, IA
- **Sherilynn Black, Ph.D.**, Duke University, Durham, NC

SESSION 06

📍 403 – 405

M.D.–Ph.D., Is It Right for Me?*(Recommended for Students interested in the M.D., Ph.D. track)***SPEAKERS**

- **Juanita Merchant, M.D., Ph.D.**, University of Arizona, Tucson, AZ
- **Megan Williams, Ph.D.**, Vanderbilt University, Nashville, TN

PANELISTS

- **Brianna Evans, M.D.–Ph.D. Student**, Penn State University, University Park, PA
- **Ezekiel Olumuyide, M.D.–Ph.D. Student**, Icahn School of Medicine at Mount Sinai, New York, NY
- **Jailene Paredes Casado, M.D.–Ph.D. Student**, Perelman School of Medicine, Philadelphia, PA
- **Mbaekwe Ugonna, M.D.–Ph.D. Student**, University of Pittsburgh's MSTP, Pittsburgh, PA

SESSION 07

📍 401 – 402

NSF101– Demystifying and Personalizing the National Science Foundation*(Recommended for All Attendees)***SPEAKERS**

- **Anna K. Allen, Ph.D.**, National Science Foundation, Alexandria, VA
- **Sally O'Connor, Ph.D.**, National Science Foundation, Alexandria, VA
- **Samuel Scheiner, Ph.D.**, National Science Foundation, Alexandria, VA

SESSION 08


📍 301 – 303

Strategizing to Release One's Full Potential*(Recommended for Graduate Students)***SPEAKER**

- **Howard G. Adams, Ph.D.**, H.G. Adams & Associates, Inc., Norfolk, VA

SESSION 09

📍 407

Taking Your Science Outreach Project from Idea to Impact** Sponsored By: The Howard Hughes Medical Institute (HHMI)***(Recommended for Graduate Students and Postdoctoral Scientists)***SPEAKER**

- **Reyhaneh Maktoufi, Ph.D.**, Howard Hughes Medical Institute, Chevy Chase, MD

SESSION 10

📍 408 – 410

Your Superpower – The Personal Statement*(Recommended for Community College Students and Undergraduate Students)***SPEAKERS**

- **Nicquet Blake, Ph.D.**, University of California—San Francisco, San Francisco, CA
- **Patricia L. Cameron, Ph.D.**, Augusta University, Augusta, GA
- **Victoria Freedman, Ph.D.**, Albert Einstein College of Medicine, Bronx, NY
- **Steve Lee, Ph.D.**, Stanford University, Stanford, CA
- **Nancy Schwartz, Ph.D.**, University of Chicago, Chicago, IL

MEETING

6:00 p.m. – 6:15 p.m.

📍 Refer to Conference App

ABRCMS Travel Awardee Meet & Greet*(All ABRCMS Travel Awardees)***NETWORKING MEALS**

6:15 p.m. – 7:15 p.m.

📍 Hall C

Networking Dinner*(All Attendees)*

6:15 p.m. – 7:15 p.m.

📍 Westin, Allegheny Ballroom

Microbiology Networking Dinner

Sponsored By: American Society for Microbiology
*(For Microbiology Students and Faculty only)***NETWORKING EVENT**

7:30 p.m. – 9:30 p.m. 📍 Level 3 Concourse

Graduate Student Poster Presentations and Networking Reception*(By Invitation Only)***CONCURRENT MEETINGS****(6 MEETING OPTIONS) 7:30 p.m. – 8:30 p.m.****PREP Scholars Meet & Greet**

📍 323

*(By Invitation Only; PREP Program Directors, PREP alumni, and Current PREP Scholars)***MARC Scholars Meet & Greet**

📍 324

*(By Invitation Only; MARC Program Directors, MARC alumni, and current MARC Scholars)***Bridges to Baccalaureate and BUILD Program Directors Meeting**

📍 325

*(For B2B and BUILD Program Directors)***Bridges to Doctoral Program Directors Meeting**

📍 326

*(For B2D Program Directors)***MSTP–M.D./Ph.D. Program Directors Meeting**

📍 327

*(For Program Directors)***NIGMS T32 Predoctoral Program Directors Meeting**

📍 328

(For Program Directors)

CONCURRENT MEETINGS

(13 MEETING OPTIONS) 8:30 p.m. – 9:30 p.m.

Judges' Orientation Meetings

(For Judges Only)

DISCIPLINES

- Biochemistry and Molecular Biology 9 301 – 303
- Cancer Biology 9 319 – 321
- Cell Biology 9 304 – 305
- Chemistry 9 315 – 316
- Computational and Systems Biology 9 406

- Developmental Biology and Genetics 9 401 – 402
- Engineering, Physics, and Mathematics 9 317 – 318
- Immunology 9 411 – 412
- Microbiology 9 408 – 410
- Neuroscience 9 413 – 415
- Physiology & Pharmacology 9 407
- Social & Behavioral Sciences and Public Health 9 403 – 405

MAPRS Program Director Meeting 9 324
(By Invitation Only)

Thursday, November 14

REGISTRATION OPEN

7:00 a.m. – 6:00 p.m. 9 Concourse A

CONTINENTAL BREAKFAST

7:15 a.m. – 8:00 a.m. 9 Hall C

MEETING

7:45 a.m. – 8:15 a.m. 9 301 – 303

Judges Orientation Meeting

(Graduates)

KEYNOTE ADDRESS

8:30 a.m. – 9:30 a.m. 9 Ballroom ABC

KEYNOTE ADDRESS

Welcome and Opening Keynote Address

(Recommended for All Attendees)

Welcome Remarks

- **Avery August, Ph.D.**, Cornell University, Ithaca, NY

Greetings from Mayor of Pittsburgh

- **Ed Gainey**, Pittsburgh, PA

Greetings from NIH

- **Alison Gammie, Ph.D.**, National Institute of General Medical Sciences, Bethesda, MD

Greetings from ASM

- **Stefano Bertuzzi, Ph.D., M.P.H.**, American Society for Microbiology, Washington, DC

KEYNOTE ADDRESS

A Future of Excellence in the Bio-Sciences: Maximizing the “Can Do’s” For an Equitable & Diverse Education/Research Ecosystem That Includes All Talent

SPEAKER

- **Jamie Lewis Keith, J.D.**, Education Counsel LLC, Washington, DC

CONCURRENT SCIENTIFIC EXPERT LECTURES

(12 SESSION OPTIONS) 9:45 a.m. – 10:15 a.m.

SESSION 01

9 301 – 303

Structures of Membrane Bound Dynamin Primed for Membrane Fission

Discipline(s): Biochemistry and Molecular Biology
(Recommended for All Attendees)

SPEAKER

- **John Jimah, Ph.D.**, Princeton University, Princeton, NJ

SESSION 02

9 319 – 321

Microplastics: Hidden Accelerators of Colorectal Cancer

Discipline: Cancer Biology
(Recommended for All Attendees)

SPEAKER

- **Xiang Xue, Ph.D.**, University of New Mexico, Albuquerque, NM

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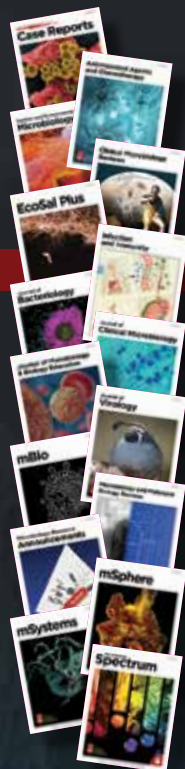
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SESSION 03

📍 304 – 305

Next-Generation Organ Regeneration at Cell-by-Gene Resolution**Discipline:** Cell Biology*(Recommended for All Attendees)***SPEAKER**

- **Yvon Woappi, Ph.D.**, Columbia University, New York, NY

SESSION 04

📍 315 – 316

3-Dimensional Molecular Engineering of Functional Materials for Biologic Stabilization and Multiplex Bioimaging**Discipline:** Chemistry*(Recommended for All Attendees)***SPEAKER**

- **Marco Messina, Ph.D.**, University of Delaware, Newark, DE

SESSION 05

📍 406

Visualizing DNA Quaternary Structures that Regulate CRISPR Adaptive Immunity**Discipline(s):** Computational and Systems Biology*(Recommended for All Attendees)***SPEAKER**

- **Andrew Santiago-Frangos, Ph.D.**, University of Pennsylvania, Philadelphia, PA

SESSION 06

📍 401 – 402

Microglia Phagocytotic Mechanisms During Brain Development**Discipline(s):** Developmental Biology and Genetics*(Recommended for All Attendees)***SPEAKER**

- **Nicholas Silva, Ph.D.**, University of California, San Francisco, San Francisco, CA

SESSION 07

📍 317 – 318

Confounders in Pulse Oximetry for Darkly Pigmented Populations**Discipline(s):** Engineering, Physics, and Mathematics*(Recommended for All Attendees)***SPEAKER**

- **Joshua Burrow, Ph.D.**, Brown University, Providence, RI

SESSION 08

📍 411 – 412

Microbial Infection Induced Vision Loss**Discipline:** Immunology*(Recommended for All Attendees)***SPEAKERS**

- **Ashok Kumar, Ph.D.**, Wayne State University, Detroit, MI
- **Rahul Saxena, Ph.D.**, Georgetown University, Washington, DC

SESSION 09

📍 408 – 410

Combating Viruses: Repurposing Clinically Relevant Anti-Metabolism Drugs as Viral Therapies**Discipline:** Microbiology*(Recommended for All Attendees)***SPEAKER**

- **Tracie Delgado, Ph.D.**, Seattle Pacific University, Seattle, WA

SESSION 10

📍 413 – 415

Protecting the Most Vulnerable: Brain Injuries in Children**Discipline:** Neuroscience*(Recommended for All Attendees)***SPEAKER**

- **Ramesh Raghupathi, Ph.D.**, Drexel University, Philadelphia, PA

SESSION 11

📍 407

Andropause: The Unspoken Men's Midlife Health Crisis**Discipline(s):** Physiology & Pharmacology*(Recommended for All Attendees)***SPEAKER**

- **M. Alicia Carrillo-Sepulveda, Ph.D.**, New York Institute of Technology, Old Westbury, NY

SESSION 12

📍 403 – 405

Climate Change and Health Disparities and Equity Research**Discipline(s):** Social & Behavioral Sciences and Public Health*(Recommended for All Attendees)***SPEAKERS**

- **Daniel Carrión, Ph.D., M.P.H.**, Yale University School of Public Health, New Haven, CT
- **Alix Rachman, M.P.H.**, Yale University School of Public Health, New Haven, CT

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

(12 SESSION OPTIONS) 10:30 a.m. – 11:15 a.m.

SESSION 01 304 – 305

Charting Your Academic Future: Pathways Through HHMI Fellowships and Overcoming Self-Selection

(Recommended for All Attendees)

SPEAKERS

- **Chantell Evans, Ph.D.**, Duke University, Durham, NC
- **Lauren Hagler, Ph.D.**, Texas A&M University, College Station, TX
- **Melanie R. McReynolds, Ph.D.**, Penn State University, University Park, PA
- **Nicolle Rosa Mercado, Ph.D.**, Johns Hopkins University School of Medicine, Baltimore, MD
- **Guillaume Urtecho, Ph.D.**, University of California, San Diego, San Diego, CA

SESSION 02 301 – 303

How We Learn and How We Don't

(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

SPEAKER

- **Robert Duke, Ph.D.**, The University of Texas at Austin, Austin, TX

SESSION 03 317 – 318

Impact of Diversity in Science Awards Provided by the Burroughs Wellcome Fund and Damon Runyon Cancer Research Foundation



Sponsored By: Burroughs Wellcome Fund and Damon Runyon Cancer Research Foundation

(Recommended for All Attendees)

SPEAKERS

- **Megan Allen, Ph.D.**, Damon Runyon Cancer Research Foundation, New York, NY
- **Tammy Collins, Ph.D.**, Burroughs Wellcome Fund, Research Triangle Park, NC
- **Alfred Mays, M.S.**, Burroughs Wellcome Fund, Research Triangle Park, NC

PANELISTS

- Select Awardees

SESSION 04 408 – 410

Mentoring Matters! Inclusive Strategies to Increase Diversity in the STEM Workforce

(Recommended for All Attendees)

SPEAKERS

- **Michelle Martinez Montemayor, Ph.D.**, Universidad Central del Caribe–School of Medicine, Bayamon, Puerto Rico
- **Chrystal Starbird, Ph.D.**, UNC School of Medicine, Chapel Hill, NC
- **Mariana Torrente, Ph.D.**, Brooklyn College CUNY, Brooklyn, NY
- **MariaElena Zavala, Ph.D.**, California State University Northridge, Northridge, CA

SESSION 05 406

Navigating NIH/NIGMS Individual Awards for an Early Research Career

(Recommended for All Students)

SPEAKERS

- **Lameese Akacem, Ph.D.**, National Institute of General Medical Sciences, Bethesda, MD
- **Jeremy McIntyre, Ph.D.**, National Institute of General Medical Sciences, Bethesda, MD
- **Joyce Stamm, Ph.D.**, National Institute of General Medical Sciences, Bethesda, MD

SESSION 06 319 – 321

Picking the Perfect Graduate Program for You

(Recommended for Students interested in the Ph.D. track)

SPEAKER

- **Lori Conlan, Ph.D.**, National Institutes of Health, OITE–Postbac Enrichment Program, Bethesda, MD

SESSION 07 403 – 405

Picking the Perfect Postbac

(Community College Students and Undergraduate Students)

SPEAKERS

- **Candice Askwith, Ph.D.**, The Ohio State University, Columbus, OH
- **Christiann Gaines, Ph.D.**, UNC Chapel Hill, Chapel Hill, NC
- **John J. Shacka, Ph.D.**, University of Alabama at Birmingham, Birmingham, AL
- **Courtney Swain, B.S.**, University of Alabama at Birmingham, Birmingham, AL

SESSION 08

📍 411 – 412

(Q&A)– A Future of Excellence in the Bio-Sciences: Maximizing the “Can Do’s” For an Equitable & Diverse Education/ Research Ecosystem That Includes All Talent*(Recommended for All Attendees)***SPEAKER**

- **Jamie Lewis Keith, J.D.**, Education Counsel LLC, Washington, DC

SESSION 09

📍 407

Science for All: Addressing and Overcoming Disability-Related Challenges*(Recommended for All Attendees)***SPEAKERS**

- **Haley Barlow, Ph.D.**, University of Massachusetts Chan Medical School, Worcester, MA
- **Jonathan Duvall, Ph.D.**, University of Pittsburgh, Pittsburgh, PA
- **Ellen S. Gawalt, Ph.D.**, Duquesne University, Pittsburgh, PA
- **Rachael Dawn Kramp, B.S.**, University of Pittsburgh, Pittsburgh, PA
- **Elizabeth N. Rudzki, B.S.**, University of Pittsburgh, Pittsburgh, PA

SESSION 10

📍 315 – 316

Success Stories: Crafting and Telling Your Story in your Personal Statements and Interviews*(Recommended for Community College Students, Undergraduate Students, and Postbaccalaureate Students)***SPEAKERS**

- **Nicquet Blake, Ph.D.**, University of California—San Francisco, San Francisco, CA
- **Patricia L. Cameron, Ph.D.**, Augusta University, Augusta, GA
- **Victoria Freedman, Ph.D.**, Albert Einstein College of Medicine, Bronx, NY
- **Joshua Hall, Ph.D.**, Howard Hughes Medical Institute—Center for the Advancement of Science Leadership and Culture, Chevy Chase, MD
- **Steve Lee, Ph.D.**, Stanford University, Stanford, CA
- **Nancy Schwartz, Ph.D.**, University of Chicago, Chicago, IL
- **Cherilynn Shadding, Ph.D.**, The University of Texas MD Anderson Cancer Center UTHealth Houston Graduate School of Biomedical Sciences, Houston, TX

SESSION 11

📍 401 – 402

The Missing Millions: Cultivating Inclusive Academic Innovation and Entrepreneurship
*(Recommended for All Attendees)***SPEAKER**

- **Cecelia C. Yates, Ph.D.**, University of Pittsburgh, Pittsburgh, PA

SESSION 12

📍 413 – 415

The Solution Room: Navigating Difficult Times as a Scientist*(Recommended for Graduate Students and Postdoctoral Scientists)***SPEAKERS**

- **Rae Hunter, Ph.D.**, Finnegan, Atlanta, GA
- **Ronald Hunter, Jr., Ph.D.**, U.S. Food and Drug Administration, Atlanta, GA

CONCURRENT SCIENTIFIC FLASH TALKS**(12 SESSION OPTIONS) 11:30 a.m. – 11:45 a.m.****SESSION 01**

📍 301 – 303

The Duffy Null Phenotype: The Biggest Health Equity Issue You Haven’t Heard Of**Discipline(s): Biochemistry and Molecular Biology**
*(Recommended for All Attendees)***SPEAKER**

- **Christina Barriteau, M.D., M.P.H.**, Northwestern University, Evanston, IL

SESSION 02

📍 319 – 321

NIH Data Sharing Policies**Discipline: Cancer Biology**
*(Recommended for All Attendees)***SPEAKER**

- **Danyelle Winchester, Ph.D.**, National Institutes of Health, Bethesda, MD

SESSION 03 📍 304 – 305**Stress and Fertility: How Metabolism Shapes Reproductive Output****Discipline:** Cell Biology*(Recommended for All Attendees)***SPEAKER**

- **Lydia Grmai, Ph.D.**, Yale School of Medicine, New Haven, CT

SESSION 04 📍 315 – 316**CRISPR: A Way Forward****Discipline:** Chemistry*(Recommended for All Attendees)***SPEAKER**

- **Amalene Cooper-Morgan, Ph.D.**, Seton Hill University, Greensburg, PA

SESSION 05 📍 406**Compute This: Diversity is Key to an 'Omics Understanding of Age-Related and Neurological Diseases****Discipline(s):** Computational and Systems Biology*(Recommended for All Attendees)***SPEAKER**

- **Dana Crawford, Ph.D.**, Case Western Reserve University, Cleveland, OH

SESSION 06 📍 401 – 402**Living With a Killer: How Coevolved *Saccharomyces cerevisiae* Become Killer Toxin Resistant****Discipline(s):** Developmental Biology and Genetics*(Recommended for All Attendees)***SPEAKER**

- **Michelle Hays, Ph.D.**, Stanford University, Stanford, CA

SESSION 07 📍 317 – 318**Seeing is Believing: Zooming in on Bacteriophages with Cryo-EM****Discipline(s):** Engineering, Physics, and Mathematics*(Recommended for All Attendees)***SPEAKER**

- **Krista Freeman, Ph.D.**, University of Pittsburgh, Pittsburgh, PA

SESSION 08 📍 411 – 412**Inflammation: Friend or Foe?****Discipline:** Immunology*(Recommended for All Attendees)***SPEAKER**

- **Ramiah Jacks, Ph.D.**, University of Michigan, Ann Arbor, MI

SESSION 09 📍 408 – 410**Microbes as Catalysts for a Bio–Revolution****Discipline:** Microbiology*(Recommended for All Attendees)***SPEAKER**

- **Timothy Donohue, Ph.D.**, University of Wisconsin–Madison, Madison, WI

SESSION 10 📍 413 – 415**Sex-Specific Regulation of Neural Circuits and Behaviors Underlying Substance Use Disorder****Discipline:** Neuroscience*(Recommended for All Attendees)***SPEAKER**

- **Lillian Brady, Ph.D., M.S.**, The University of Alabama at Birmingham, Birmingham, AL

SESSION 11 📍 407**An Integrated Approach to Studying Rare Neuromuscular Diseases****Discipline(s):** Physiology & Pharmacology*(Recommended for All Attendees)***SPEAKER**

- **Timothy J. Hines, Ph.D.**, The Jackson Laboratory, Bar Harbor, ME

SESSION 12 📍 403 – 405**Leveraging the All of Us Database to Investigate the Obesity Epidemic in the Hispanic Population****Discipline(s):** Social & Behavioral Sciences and Public Health*(Recommended for All Attendees)***SPEAKERS**

- **Susan A. Holechek, Ph.D.**, Arizona State University, Tempe, AZ
- **Keilen Kelly, B.S., Ph.D.**, Candidate, Arizona State University, Tempe, AZ

NETWORKING MEAL

12:00 p.m. – 1:00 p.m.

📍 Hall C

Networking Lunch

(Recommended for All Attendees)

KEYNOTE ADDRESS

1:15 p.m. – 2:15 p.m.

📍 Ballrooms ABC

Unleashing Innovation: A Passport to Limitless Possibilities and Social Impact

(Recommended for All Attendees)

Introductory Remarks

- Irene V. Hulede, ABRCMS, American Society for Microbiology, Washington, DC

SPEAKERS

- Cecelia C. Yates, Ph.D., University of Pittsburgh, Pittsburgh, PA
- James Huguley, Ph.D., University of Pittsburgh, Pittsburgh, PA
- Charles Jonassaint, Ph.D., MHS, University of Pittsburgh, Pittsburgh, PA
- Katrina Knight, Ph.D., University of Pittsburgh, Pittsburgh, PA
- Juan Taboas, M.S., Ph.D., University of Pittsburgh, Pittsburgh, PA

EXHIBIT AND POSTER HALL

2:30 p.m. – 7:00 p.m.

📍 Halls AB

Exhibit and Poster Hall open

(Recommended for All Attendees)

STUDENT POSTER PRESENTATIONS

2:45 p.m. – 7:00 p.m.

📍 Halls AB

(Recommended for All Attendees)

2:45 p.m. – 4:00 p.m.

Poster Session 1 (A)

4:15 p.m. – 5:30 p.m.

Poster Session 2 (B)

5:45 p.m. – 7:00 p.m.

Poster Session 3 (C)

CAREER PATHWAYS SPOTLIGHT

(5 SESSION OPTIONS)

📍 Exhibit Hall Theater (Aisle 300)

3:00 p.m. – 3:30 p.m.

From STEM to Federal Service: Career Pathways in Regulatory Science Research, Public Health Communication, and Policy at the U.S. Food and Drug Administration

(Recommended for All Attendees)

SPEAKERS

- Celene Moorer, M.S., US Food and Drug Administration (FDA), Silver Spring, MD
- La'Nissa Brown-Baker, Ph.D., US Food and Drug Administration (FDA), Silver Spring, MD

3:45 p.m. – 4:15 p.m.

The Joys of Science Research – Connecting Basic, Translational and Clinical Sciences

(Recommended for All Attendees)

SPEAKERS

- Anirban Banerjee, Ph.D., Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD
- Alexander Cartagena-Rivera, Ph.D., National Institute of Biomedical Imaging and Bioengineering, Bethesda, MD
- Astrid Haase, M.D., Ph.D., National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD
- J. Robert Hogg, Ph.D., National Heart, Lung and Blood Institute, Bethesda, MD
- Sadhana Jackson, M.D., National Institute of Neurological Disorders and Stroke, Bethesda, MD
- Fasil Tekola-Ayele, Ph.D., Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD
- Jinwei Zhang, Ph.D., National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD

4:30 p.m. – 5:00 p.m.

R&D in The Pharmaceutical Industry & Diversity and Inclusion as Drivers of Success

 Sponsored By: Eli Lilly & Company
(Recommended for All Attendees)

SPEAKERS

- James Beck, Ph.D., Eli Lilly & Company, Indianapolis, IN
- Carmen Gonzalez-Ferrer, M.S., Eli Lilly & Company, Indianapolis, IN

5:15 p.m. – 5:45 p.m.

**Pathways to Impact Health Inequities
Beyond the MD**
 **Sponsored By: Boston University**
(Recommended for All Attendees)
SPEAKERS

- **Laura Driscoll, P.T., D.P.T., M.S., G.C.S.**, Boston University Sargent College of Health & Rehabilitation Sciences, Boston, MA
- **Angelique Harris, M.A., Ph.D.**, Boston University Chobanian & Avedisian School of Medicine, Boston, MA
- **Jacqueline Hicks, Ph.D.**, Boston University School of Public Health, Boston, MA

6:00 p.m. – 6:30 p.m.

**Guardians of Innovation: Exploring Dynamic
Careers in Patent Law**

(Recommended for All Attendees)

SPEAKERS

- **Rae Hunter, Ph.D.**, Finnegan, Atlanta, GA
- **Pat Wilson, M.L.S.**, Finnegan, Atlanta, GA

NETWORKING MEAL

7:00 p.m. – 7:45 p.m.

📍 Hall C

Networking Dinner

(Recommended for All Attendees)

7:00 p.m. – 8:30 p.m.

📍 Westin, Pennsylvania Ballroom

MOSAIC Meet & Greet Reception

(By Invitation Only – for MOSAIC scholars & advisors, NIH representatives, and UE5)

**CONCURRENT
PROFESSIONAL
DEVELOPMENT SESSIONS**

(10 SESSION OPTIONS) 8:00 p.m. – 8:45 p.m.

SESSION 01

📍 304 – 305

**Academia Isn't All Filters: Finding Your Voice
in Research**

(Recommended for Community College Students and Undergraduate Students)

SPEAKERS

- **Erwin Cabrera, Ph.D.**, Stony Brook University, Stony Brook, NY
- **Kehinde Cole, Ph.D.**, Stony Brook University, Stony Brook, NY
- **Lydia Grmai, Ph.D.**, Yale School of Medicine, New Haven, CT

SESSION 02

📍 315 – 316

Adapting, Failing, and Growing Up to Success

(Recommended for All Attendees)

SPEAKER

- **Tamina Jeffers, Ph.D.**, WuXi Biologics, Cranbury, NJ

SESSION 03

📍 406

**Be a Star! How to Create a Competitive
Graduate School Application**

(Recommended for Community College Students, Undergraduate Students, and Postbaccalaureate Students)

SPEAKER

- **John Augusto, Ph.D.**, Georgia State University, Atlanta, GA



SESSION 04

📍 301 – 303

Build Your Mentoring Team: Strategies for Identifying and Nurturing Successful Mentor–Mentee Relationships*(Recommended for Community College Students, Undergraduate Students, and Postbaccalaureate Students)***SPEAKERS**

- **Nicquet Blake, Ph.D.**, University of California—San Francisco, San Francisco, CA
- **Patricia L. Cameron, Ph.D.**, Augusta University, Augusta, GA
- **Victoria Freedman, Ph.D.**, Albert Einstein College of Medicine, Bronx, NY
- **R. Jason Heustis, Ph.D.**, Harvard Medical School, Boston, MA
- **Steve Lee, Ph.D.**, Stanford University, Stanford, CA
- **Cherilynn Shadding, Ph.D.**, The University of Texas MD Anderson Cancer Center UTHealth Houston Graduate School of Biomedical Sciences, Houston, TX

SESSION 05

📍 408 – 410

Finding Your Research Home: Choosing a Graduate Program to Support Your Personal and Professional Growth*(Recommended for Community College Students, Undergraduate Students, and Postbaccalaureate Students)***SPEAKERS**

- **Lauren Essler, Ph.D.**, Harvard Medical School, Boston, MA
- **Karina Gonzalez Herrera, Ph.D.**, Yale School of Medicine, New Haven, CT
- **Michael Johnson, Ph.D.**, University of Arizona, Tucson, AZ
- **Deepali Ravel, Ph.D.**, Harvard T.H. Chan School of Public Health and Harvard Medical School, Boston, MA
- **David Rudner, Ph.D.**, Harvard Medical School, Boston, MA

SESSION 06

📍 403 – 405

From Doubt to Greatness: Mastering Imposter Syndrome and Achieving Your Best in STEM*(Recommended for All Attendees)***SPEAKER**

- **Ryan Johnson, Ph.D.**, Don't Be Scared/Langston University, Tulsa, OK

SESSION 07

📍 319 – 321

Giving Yourself Grace: Navigating Your Comeback After an Academic Setback*(Recommended for Undergraduate Students and Postbaccalaureate Students)***SPEAKERS**

- **Danielle Watt, Ph.D.**, UConn Health, Farmington, CT
- **John Williams, Ph.D.**, Albany State University, Albany, GA

SESSION 08

📍 413 – 415

LGBTQIA+ Meet & Greet: Conversation on Succeeding as a Scientist*(Recommended for All Attendees)***SPEAKERS**

- **Ronald Hunter, Jr., Ph.D.**, U.S. Food and Drug Administration, Atlanta, GA
- **Manu Platt, B.S., Ph.D.**, National Institute of Biomedical Imaging and Bioengineering, Bethesda, MD

SESSION 09

📍 401 – 402

Networking for Introverts: Making Meaningful Connections When You'd Rather Stay Home*(Recommended for All Attendees)***SPEAKER**

- **Shanique Edwards, Ph.D.**, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

SESSION 10

📍 317 – 318

Student-Led Learning: Innovative Pedagogy for Impact in a Minoritized Campus*(Recommended for Graduate Students and Postdoctoral Scientists)***SPEAKER**

- **Negin Mirhosseini, Ph.D.**, Texas A&M Higher Education Center, McAllen, TX

Friday, November 15

REGISTRATION OPEN

7:00 a.m. – 5:00 p.m.

📍 Concourse A

CONTINENTAL BREAKFAST

7:15 a.m. – 8:00 a.m.

📍 Hall C

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

(12 SESSION OPTIONS) 8:30 a.m. – 9:15 a.m.

SESSION 01

📍 304 – 305

All of Us In and Out of the Classroom: Strategies Engaging Students Underrepresented in the Biomedical Workforce with the All of Us Research Program

(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

SPEAKERS

- **Rubin Baskir, Ph.D.**, All of Us Research Program, National Institutes of Health (NIH), Silver Spring, MD
- **Susan Holechek, Ph.D.**, Arizona State University, Tempe, AZ
- **KiTani Lemieux, Ph.D.**, Xavier University of Louisiana, New Orleans, LA
- **Hadyatoullaye Sow, M.P.H.**, RTI International, Durham, NC

SESSION 02

📍 407

Data Analytics in Biological and Biomedical Research: Principles and Applications

(Recommended for All Attendees)

SPEAKER

- **Demelash Areda, Ph.D.**, Ottawa University, Ottawa, KS

SESSION 03

📍 315 – 316

Finding a NIH-Funded Graduate Fellowship That's Perfect For You



Sponsored By: Center for the Neural Basis of Cognition at the University of Pittsburgh and Carnegie Mellon University

(Recommended for Postbaccalaureate Students and Graduate Students)

SPEAKERS

- **Sachi Paul, B.S.**, University of Pittsburgh, Pittsburgh, PA
- **Julie Fiez, Ph.D.**, University of Pittsburgh, Pittsburgh, PA
- **Matthew Smith, Ph.D.**, Carnegie Mellon University, Pittsburgh, PA
- **Sossena Wood, Ph.D.**, Carnegie Mellon University, Pittsburgh, PA

SESSION 04

📍 317 – 318

Holistic & Mission-Driven Admissions in Graduate Education

(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

SPEAKERS

- **Sara Xayarath Hernández, M.R.P.**, Cornell University, Ithaca, NY
- **Denzil A. Streete, Ph.D.**, Massachusetts Institute of Technology, Cambridge, MA

SESSION 05

📍 411 – 412

How Are You Leveraging Artificial Intelligence to Be a Better Scientist?

(Recommended for All Attendees)

SPEAKER

- **Sebastian Alvarado, B.Sc., Ph.D.**, Queens College CUNY, New York City, NY

SESSION 06

📍 319 – 321

If You Don't Publish It, You Didn't Do It

(Recommended for Graduate Students)

SPEAKER

- **Victor DiRita, Ph.D.**, Michigan State University, East Lansing, MI



DIVERSITY IN LIFE SCIENCES PROGRAM FINANCIAL AID OPPORTUNITIES

Diversity, equity, and inclusion are essential to Keystone Symposia's mission to connect the scientific community. The inclusion of diverse perspectives broadens the scope of scientific inquiry and catalyzes the development of new research directions to address the complex scientific and medical problems that challenge our society today.

"I got to interact with highly respected pioneers in the field as well as talented scientists from leading companies, giving me valuable insights into both career paths and establishing connections that will be fruitful for my career advancement."

Keystone Symposia conferences provide a critical platform for showcasing the diversity of talent that propels scientific discovery, innovation and impact. To promote the inclusion of diverse perspectives at our conferences, Keystone Symposia offers two scholarship opportunities to support groups that are underrepresented in biomedical research. These scholarships of up to 1,200 USD each help defray the expenses associated with conference attendance, including registration, ground/air transportation, and lodging. Individuals from underrepresented racial and ethnic groups, individuals with disabilities, and individuals from disadvantaged backgrounds are eligible to apply.

UNDERREPRESENTED TRAINEE SCHOLARSHIPS

Provide funding to students and postdocs in the life sciences from underrepresented and disadvantaged backgrounds to attend our conferences where they can take advantage of invaluable career-development opportunities.

EARLY CAREER TRAVEL AWARDS

Provide funding to early-career investigators from underrepresented and disadvantaged backgrounds to attend our top tier scientific conferences to support their professional development at this critical career stage.



For more information on Keystone Symposia's
Diversity in Life Sciences Program, visit
[KEYSTONESYMPOSIA.ORG/DIVERSITY](https://www.keystonesymposia.org/diversity)



SESSION 07

📍 401 – 402

Lessons from Disabled Scientists*(Recommended for All Attendees)***SPEAKERS**

- **Amy Conaway, B.A.**, Dartmouth College, Hanover, NH
- **Uma Chatterjee, M.S., MHPS**, University of Wisconsin School of Medicine and Public Health, Madison, WI
- **Dionna Williams, Ph.D.**, Emory University, Atlanta, GA

SESSION 08

📍 403 – 405

Making Professionalism a Big Part of Your Professional Identity*(Recommended for Community College Students, Undergraduate Students, and Postbaccalaureate students)***SPEAKERS**

- **Tameka Clemons, Ph.D.**, University of Houston, Houston, TX
- **Jamaïne Davis, Ph.D.**, Meharry Medical College, Nashville, TN
- **Stephanie Richardson, Ph.D.**, Baylor College of Medicine, Houston, TX

SESSION 09

📍 408 – 410

Managing Burnout and Resiliency in STEM*(Recommended for All Attendees)***SPEAKERS**

- **Lillian Brady, Ph.D.**, The University of Alabama at Birmingham, Birmingham, AL
- **Melanie R. McReynolds, Ph.D.**, Penn State University, University Park, PA
- **Derrick Morton, Ph.D.**, University of Southern California, Los Angeles, CA
- **Flora Rutaganira, Ph.D.**, Stanford School of Medicine, Stanford, CA

SESSION 10

📍 406

National Institutes of Health (NIH): Improving the Review of Research Project Grant and Fellowship Applications*(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)***SPEAKER**

- **Delia Olufokunbi Sam, Ph.D.**, NIH Center for Scientific Review, Bethesda, MD

SESSION 11

📍 301 – 303

The Ins and Outs of Graduate School*(Recommended for Community College Students and Undergraduate Students)***MODERATOR**

- **Nicquet Blake, Ph.D.**, University of California—San Francisco, San Francisco, CA

PANELISTS

- **Brandon Chen, Graduate Student**, University of Michigan, Ann Arbor, MI
- **Teniola Idowu, Graduate Student**, New York University, School of Medicine, New York, NY
- **Thaybeth I. Malavé Méndez, Graduate Student**, University of California San Francisco, San Francisco, CA
- **Bahati Nkera, Graduate Student**, Brown University, Providence, RI
- **John Palacios, Graduate Student**, University of California, Irvine, Irvine, CA
- **Alexander Weingart, Graduate Student**, Beth Israel Deaconess Medical Center, Boston, MA
- **Hannah Wilkins, Graduate Student**, The Johns Hopkins University School of Medicine, Baltimore, MD

SESSION 12

📍 413 – 415

Time Management and Goal Setting*(Recommended for All Students)***SPEAKER**

- **Sandra Murray, Ph.D.**, University of Pittsburgh, Pittsburgh, PA

CONCURRENT SCIENTIFIC EXPERT LECTURES**(13 SESSION OPTIONS) 9:30 a.m. – 10:00 a.m.****SESSION 01**

📍 301 – 303

How the Fat Gets Onto the Proteins – Chemistry and Biology of Protein Lipidation Enzymes**Discipline(s): Biochemistry and Molecular Biology***(Recommended for All Attendees)***SPEAKER**

- **Anirban Banerjee, Ph.D.**, Eunice Kennedy Shriver National Institute of Child Health and Human Development, Rockville, MD

SESSION 02

📍 319 – 321

Collab and Conquer: Teaming Up for Breakthroughs in Cancer Therapy**Discipline: Cancer Biology***(Recommended for All Attendees)***SPEAKERS**

- **Claudia Benavente, Ph.D.**, University of California, Irvine, Irvine, CA
- **Michael Emanuele, Ph.D.**, University of North Carolina, Chapel Hill, NC

SESSION 03

📍 304 – 305

Insights Into Neurodegeneration: Cell Biology Illuminates Disease Mechanisms**Discipline: Cell Biology***(Recommended for All Attendees)***SPEAKERS**

- **Mariana Torrente, Ph.D.**, City University of New York–Brooklyn College, Brooklyn, NY
- **Fernando Vonhoff, Ph.D.**, University of Maryland Baltimore County, Baltimore, MD

SESSION 04

📍 315 – 316

New Reactivity to Solve Chemical Challenges**Discipline: Chemistry***(Recommended for All Attendees)***SPEAKER**

- **Elias Picazo, Ph.D.**, University of Southern California, Los Angeles, CA

SESSION 05

📍 406

Single-Cell Analysis of Differentiation and Drug Response in Glioblastoma**Discipline(s): Computational and Systems Biology***(Recommended for All Attendees)***SPEAKER**

- **Peter A. Sims, Ph.D.**, Columbia University, New York, NY

SESSION 06

📍 401 – 402

Early Career Faculty Research Projects Using All of Us Data: Two Projects to Enhance STEM Education and Mitigate Health Disparities**Discipline(s): Developmental Biology and Genetics***(Recommended for All Attendees)***SPEAKERS**

- **Stacy Lloyd, Ph.D.**, Tuskegee University, Tuskegee, AL
- **Debra Murray, Ph.D.**, Baylor College of Medicine, Houston, TX

SESSION 07

📍 317 – 318

What is Biophysics, and Why Should You Know About It?**Discipline(s): Engineering, Physics, and Mathematics***(Recommended for All Attendees)***SPEAKERS**

- **Anna Bukiya, Ph.D.**, University of Tennessee Health Science Center, Memphis, TN
- **Candice M. Etson, Ph.D.**, Smith College, Northampton, MA

SESSION 08

📍 411 – 412

A Gain-of-Function Paradox: Unraveling Immune Responses to Viruses**Discipline: Immunology***(Recommended for All Attendees)***SPEAKER**

- **Rachael Philips, Ph.D.**, National Institute of Arthritis, Musculoskeletal, and Skin, NIH, Bethesda, MD

SESSION 09

📍 408 – 410

Controlling the Gut Microbiome: Genetic vs Community Engineering**Discipline: Microbiology***(Recommended for All Attendees)***SPEAKERS**

- **Diego Rivera–Gelsinger, Ph.D.**, Columbia University Irving Medical Center, New York, NY
- **Guillaume Urtecho, Ph.D.**, University of California, San Diego, San Diego, CA

SESSION 10

📍 413 – 415

New Perspectives and Directions on Hearing Science**Discipline: Neuroscience***(Recommended for All Attendees)***SPEAKERS**

- **Luz Stephanie Andrino, B.A.**, Carnegie Mellon University, Pittsburgh, PA
- **Julia Jones Huyck, Ph.D.**, Kent State University, Kent, OH

SESSION 11

📍 407

Innovator's Playground: Engineering the Future with Bold Scientific Concepts**Discipline(s): Physiology & Pharmacology***(Recommended for All Attendees)***SPEAKER**

- **Brian O'Grady, Ph.D.**, Vanderbilt University, Nashville, TN

SESSION 12

📍 403 – 405

Cardiovascular Disparities: Systemic Injustice and Biology**Discipline(s): Social & Behavioral Sciences/Public Health***(Recommended for All Attendees)***SPEAKER**

- **Debra Kamin Mukaz, M.S., Ph.D.**, Larner College of Medicine at the University of Vermont, Burlington, VT

SESSION 13

📍 323

(Q&A) – Holistic & Mission-Driven Admissions in Graduate Education*(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)***SPEAKERS**

- **Sara Xayarath Hernández, M.R.P.**, Cornell University, Ithaca, NY
- **Denzil A. Streete, Ph.D.**, Massachusetts Institute of Technology, Cambridge, MA

KEYNOTE ADDRESS**10:15 a.m. – 11:00 a.m.** 📍 Ballroom ABC**Pain Goes Viral: Adventures in Sensory Biology***(Recommended for All Attendees)***MODERATOR**

- **Crystal Watkins, M.D., Ph.D.**, MedStar Harbor Hospital, Baltimore, MD

SPEAKER

- **Diana Bautista, Ph.D.**, University of California, Berkeley, Berkeley, CA

CONCURRENT STUDENT ORAL PRESENTATIONS**(12 SESSION OPTIONS) 11:15 a.m. – 12:00 p.m.****ORAL SESSION 1***(Recommended for All Attendees)*

- Biochemistry and Molecular Biology 📍 301 – 303
- Cancer Biology 📍 319 – 321
- Cell Biology 📍 315 – 316
- Chemistry 📍 304 – 305
- Computational & Systems Biology 📍 406
- Developmental Biology & Genetics 📍 407
- Engineering, Physics, and Mathematics 📍 401 – 402
- Immunology 📍 411 – 412
- Microbiology 📍 408 – 410
- Neuroscience 📍 413 – 415
- Physiology and Pharmacology and Cell Biology 📍 317 – 318
- Social and Behavioral Sciences and Public Health 📍 403 – 405

MEETING**11:15 a.m. – 12:00 p.m.** 📍 323**TWD–PDO Steering Committee Meeting***(By Invitation Only)***NETWORKING MEAL****12:15 p.m. – 1:15 p.m.** 📍 Hall C**Networking Lunch***(Recommended for All Attendees)***KEYNOTE ADDRESS****1:30 p.m. – 2:15 p.m.** 📍 Ballrooms ABC**Reimagining STEM: From Artificial Intelligence to Abundant Imagination***(Recommended for All Attendees)***MODERATOR**

- **Beronda Montgomery, Ph.D.**, Grinnell College, Grinnell, IA

SPEAKER

- **Ruha Benjamin, Ph.D.**, Princeton University, Princeton, NJ

MEETING

2:30 p.m. – 3:30 p.m.

📍 323

TWD–PDO Steering Committee and NIH Program Officers Meeting*(By Invitation Only)***EXHIBIT AND POSTER HALL**

2:30 p.m. – 7:00 p.m.

📍 Halls AB

Exhibit and Poster Hall Open*(Recommended for All Attendees)***STUDENT POSTER PRESENTATIONS**

2:45 p.m. – 7:00 p.m.

📍 Halls AB

(Recommended for All Attendees)

2:45 p.m. – 4:00 p.m.

Poster Session 4 (D)

4:15 p.m. – 5:30 p.m.

Poster Session 5 (E)

5:45 p.m. – 7:00 p.m.

Poster Session 6 (F)**CAREER PATHWAYS AND ENHANCING SKILLSETS SPOTLIGHT****(5 SESSION OPTIONS)**

3:00 p.m. – 6:30 p.m.

📍 Exhibit Hall Theater (Aisle 300)

3:00 p.m. – 3:30 p.m.

Trans–NIH Training Opportunities and Leveraging Your Experience Into a Clinical Research Career*(Recommended for All Attendees)***SPEAKERS**

- **Manu Platt, B.S., Ph.D.**, National Institute of Biomedical Imaging and Bioengineering, Bethesda, MD
- **Vanitha S. Raman, B.Sc., M.Sc., Ph.D.**, National Institute of Allergy and Infectious Diseases (NIAID), Rockville, MD
- **Cendrine Robinson, Ph.D., M.P.H.**, National Institute on Deafness and Other Communication Disorders (NIDCD), Rockville, MD
- **Abisola Tepede, Pharm.D., R.Ph., PMP**, National Institute of Child Health and Human Development (NICHD), Bethesda, MD

3:45 p.m. – 4:15 p.m.

The State of the Industry Job Market – Opportunities, Challenges, and Strategies for Success*(Recommended for All Attendees)***SPEAKER**

- **Lauren Celano, M.B.A.**, Propel Careers, Boston, MA

4:30 p.m. – 5:00 p.m.

Shining Light on Your Work: Requesting Standout Recommendation Letters*(Recommended for All Attendees)***SPEAKER**

- **Laura Muller, Ph.D.**, The Jackson Laboratory, Bar Harbor, ME

5:15 p.m. – 5:45 p.m.

Who is the 'Peer' in Peer Review? Engage in the Scientific Community Through Preprint Publication and Review*(Recommended for All Attendees)***SPEAKERS**

- **Sarah Fankhauser, Ph.D.**, Oxford College of Emory University, Oxford, GA
- **Gary McDowell, Ph.D.**, Lightoller LLC, Chicago, IL

6:00 p.m. – 6:30 p.m.

Accomplishing More by Doing Less: Practicing and Modeling Healthy Productivity*(Recommended for All Attendees)***SPEAKERS**

- **Latisha Franklin, Ph.D.**, The Pennsylvania State University Millennium Scholars Program, University Park, PA
- **Georjanne Rosa, M.S.**, The Pennsylvania State University Millennium Scholars Program, University Park, PA

FREE TIME

7:00 p.m.

Dinner on Own*(All Attendees)*

NETWORKING EVENTS

7:00 p.m. – 9:30 p.m.

Speakers, Exhibitors, Program Directors, and Judges Reception 📍 **Omni Hotel – 17th Floor**
(By Invitation – Nonstudents Only)

AFFILIATED EVENTS

7:00 p.m. – 9:30 p.m.

University of Pittsburgh Graduate Program in Microbiology and Immunology Panel Discussion 📍 **323**



Sponsored By: University of Pittsburgh Graduate Program in Microbiology and Immunology (PMI), Departments of Immunology and Microbiology & Molecular Genetics
(By Invitation Only)

Michigan State University Networking Reception 📍 **326**



Sponsored By: MSU Graduate and Professional School Programs
(By Invitation Only)

University of Pittsburgh's Meet & Greet
 📍 **August Wilson African American Cultural Center**



Sponsored By: University of Pittsburgh
(Recommended for Graduate Students)

FRIDAY



Saturday, November 16

REGISTRATION OPEN

7:00 a.m. – 12:00 p.m.

📍 Concourse A

NETWORKING MEAL

CONTINENTAL BREAKFAST*

7:15 a.m. – 8:00 a.m.

📍 Hall C

MEETINGS

(6 MEETING OPTIONS)

8:15 a.m. – 9:15 a.m.

Exhibitor Feedback Session & Breakfast

📍 Exhibit Hall Theater (Aisle 300)

(For Exhibitors)

MARC Program Directors Meeting

📍 324

(For Program Directors)

U-RISE Program Directors Meeting

📍 325

(For Program Directors)

PREP Program Directors Meeting

📍 326

(For Program Directors)

IMSD Program Directors Meeting

📍 327

(For Program Directors)

G-RISE Program Directors Meeting

📍 328

(For Program Directors)

CONCURRENT STUDENT ORAL PRESENTATIONS

(12 SESSION OPTIONS)

8:30 a.m. – 9:30 a.m.

ORAL SESSION 2

(Recommended for All Attendees)

- Biochemistry and Molecular Biology 📍 301 – 303
- Biochemistry and Molecular Biology and Cancer Biology 📍 304 – 305
- Cancer Biology 📍 319 – 321
- Engineering, Physics, and Mathematics (I) 📍 315 – 316
- Engineering, Physics, and Mathematics (II) 📍 317 – 318

- Microbiology, Computational & Systems Biology, and Developmental Biology & Genetics 📍 408 – 410
- Microbiology 📍 407
- Neuroscience (I) 📍 411 – 412
- Neuroscience (II) 📍 413 – 415
- Neuroscience (III) 📍 401 – 402
- Social and Behavioral Sciences and Public Health and Neuroscience 📍 403 – 405
- Social and Behavioral Sciences and Public Health 📍 406

EXHIBIT HALL FEATURES

9:30 a.m. – 12:00 p.m.

📍 Halls AB

Exhibit Hall Open

(Recommended for All Attendees)

EXHIBITOR SPOTLIGHTS

(2 SESSION OPTIONS)

📍 Exhibit Hall Theater (Aisle 300)

10:30 a.m. – 10:45 a.m.

Learning About Laney!



Sponsored By: Emory University – Laney Graduate School

(Recommended for All Attendees)

SPEAKERS

- **Megan Pendleton, M.Ed.**, Emory University Laney Graduate School, Atlanta, GA
- **Amanda Marie James, Ph.D.**, Emory University Laney Graduate School, Atlanta, GA

10:50 a.m. – 11:05 a.m.

Careers in Infectious Diseases



Sponsored By: Infectious Diseases Society of America (IDSA)

(Recommended for All Attendees)

SPEAKER

- **Cornelius (Neil) J. Clancy, M.D.**, University of Pittsburgh, Pittsburgh, PA

STUDENT PRESENTATIONS

ePoster Presentations 📍 Conference App

(Recommended for All Attendees)

SESSION 01 10:00 a.m. – 11:00 a.m.

SESSION 02 11:00 a.m. – 12:00 p.m.

FREE TIME

12:00 p.m. – 5:00 p.m.

Free Time

(Recommended for All Attendees)

12:15 p.m. – 1:15 p.m. 📍 Conference App

Virtual Mentoring Session

(Recommended for Virtual Attendees)

CLOSING

6:00 p.m. – 7:00 p.m. 📍 Hall C

Closing Dinner

(Recommended for All Attendees)

7:30 p.m. – 8:30 p.m. 📍 Ballroom ABC

CLOSING KEYNOTE ADDRESS

**Conversations with ABRCMS Alumni:
Where Are They Now?**



**Sponsored By: UT Southwestern
Medical Center**

(Recommended for All Attendees)

8:45 p.m. – 9:30 p.m. 📍 Ballrooms ABC

Awards Ceremony and Recognition

(Recommended for All Attendees)

10:00 p.m. – 1:00 a.m. 📍 Concourses ABC

Games and Dance Social

(Recommended for All Attendees)

SATURDAY





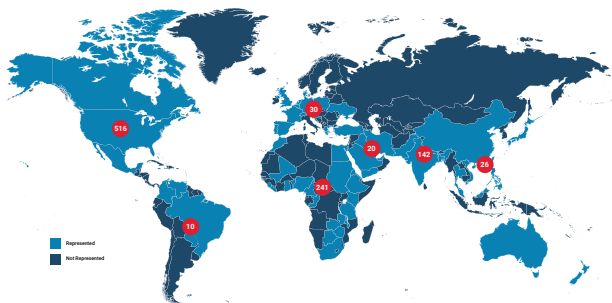
Mentoring Opportunity

Personalized Coaching, Guidance, and Leadership Development

A transformative opportunity offered by the ASM Future Leaders Mentorship Fellowship (FLMF), which supports and connects experts in various careers with **graduate students** in **microbiology**.

Our Global FLMF Community

Join over 900 fellows and mentors from over 53 countries.



Benefits:



Expert Mentorship



Leadership and Mentoring Skill Enhancement



Portfolio Building and Networking Opportunities



Become a Voice in Your Field



Apply to be a Fellow or Mentor



Summer Research Programs in Milwaukee, WI for Undergrads



Housing

We provide housing near campus for non-local participants.



Stipend

We provide a \$6,000 stipend for the summer.



Transportation

We provide one roundtrip transportation to/from the program, and travel to/from a scientific conference.



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Feb 1st

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ABRCMS 2024 GRADUATE SYMPOSIUM PROGRAM

SPONSORED BY:



Repeated Session

Saturday, November 16

OPENING SESSION

10:00 a.m. – 10:20 a.m.

📍 403 – 405

Welcome and Overview

(For Graduate Students)

SPEAKER

- **Irene V. Hulede**, ABRCMS, American Society for Microbiology, Washington, DC

GENERAL SESSION

10:30 a.m. – 11:15 a.m.

📍 403 – 405

How We Learn and How We Don't

(For Graduate Students)

SPEAKER

- **Robert A. Duke, Ph.D.**, The University of Texas at Austin, Austin, TX

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

(5 SESSION OPTIONS) 11:30 a.m. – 12:15 p.m.

SESSION 01

📍 408 – 410

Navigating Academia: First-Generation Graduate Students Moving Toward Earning An Advance Degree

(For Graduate Students)

SPEAKER

- **Curtis Byrd, Ed.D.**, Academic Pipeline, Atlanta, GA

SESSION 02

📍 406

Should I Pursue a Postdoc or Not? Selecting a Training Experience to Match Career Goals While Balancing Diversity Values

(For Graduate Students)

SPEAKERS

- **Thomas Kimbis, J.D.**, National Postdoctoral Association, Bethesda, MD
- **Bill Mahoney, Ph.D.**, University of Washington, Seattle, WA
- **Caleb McKinney, Ph.D.**, Georgetown University, Washington, DC
- **Alberto Roca, Ph.D.**, DiverseScholar, Irvine, CA

SESSION 03

📍 403 – 405

Submission 101: I Have Done the Science Now How Do I Submit?

(For Graduate Students)

SPEAKERS

- **Adrianna Borgia, M.S.**, American Society for Microbiology, Washington, DC
- **Laurie Webby, B.S.**, American Society for Microbiology, Washington, DC

SESSION 04

📍 401 – 402

The Solution Room: Navigating Difficult Times as a Scientist

(For Graduate Students)

SPEAKERS

- **Rae Hunter, Ph.D.**, Finnegan, Henderson, Farabow, Garrett & Dunner, LLP, Atlanta, GA
- **Ronald Hunter, Jr., Ph.D.**, Cardinal Health, Inc., Dublin, OH

SATURDAY

SESSION 05

📍 407

Your Authentic Advantage: Navigating Job Applications with Confidence*(For Graduate Students)***SPEAKERS**

- **Elizabeth Eikmann, Ph.D.**, Washington University in St Louis, St Louis, MO
- **Peter Myers, Ph.D.**, Washington University in St Louis, St Louis, MO

GENERAL SESSION

1:00 p.m. – 1:45 p.m.

📍 403 – 405

Advancing Your Research Career: Leveraging Federal Funding and Mentorship Opportunities (NSF, VA, NIH)*(For Graduate Students)***SPEAKERS**

- **Shakeria Cohen, Ph.D.**, Department of Veteran Affairs, Washington, DC
- **Luis Cubano, Ph.D.**, National Science Foundation, Alexandria, VA
- **Cendrine Robinson, Ph.D.**, National Institute on Deafness and Communication Disorders, Bethesda, MD
- **Mark Roltsch, Ph.D.**, Department of Veteran Affairs, Washington, DC
- **Joyce Stamm, Ph.D.**, National Institute of General Medical Sciences, Bethesda, MD

CONCURRENT GRADUATE STUDENT ORAL PRESENTATIONS 1**(5 SESSION OPTIONS) 2:00 p.m. – 3:15 p.m.***(For Graduate Students)***SESSION 01**

📍 401 – 402

Disciplines: Cancer Biology and Computational and Systems Biology**SESSION 02**

📍 403 – 405

Disciplines: Developmental Biology and Genetics, Neuroscience, and Social and Behavioral Sciences and Public Health**SESSION 03**

📍 406

Disciplines: Engineering, Physics and Mathematics and Chemistry**SESSION 04**

📍 407

Disciplines: Immunology and Microbiology**SESSION 05**

📍 408 – 410

Disciplines: Biochemistry and Molecular Biology, Cell Biology, and Physiology and Pharmacology**CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS****(5 SESSION OPTIONS) 3:30 p.m. – 4:15 p.m.****SESSION 01**

📍 407

A Path to Mental and Physical Wellness as a Graduate Student*(For Graduate Students)***SPEAKER**

- **Latisha Franklin, Ph.D.**, Penn State University, University Park, PA

SESSION 02

📍 401 – 402

A Practical Guide to Negotiation*(For Graduate Students)***SPEAKER**

- **Kate Sleeth, Ph.D.**, EduKatedSTEM, La Canada Flintridge, CA



SESSION 03

📍 408 – 410

**Green Cards for Scientific Researchers:
How to Win Your EB-1A/NIWCase**
(For Graduate Students)

SPEAKER

- **Marco Pignone, III, Esq.**, Getson & Schatz P.C., Philadelphia, PA

SESSION 05

📍 403 – 405

**Staying On or Wandering Off the
Pathway: How Can We Get Where
We Want to Go?**
(For Graduate Students)

SPEAKER

- **Peter Lipke, Ph.D.**, Brooklyn College of City University of New York, Brooklyn, NY

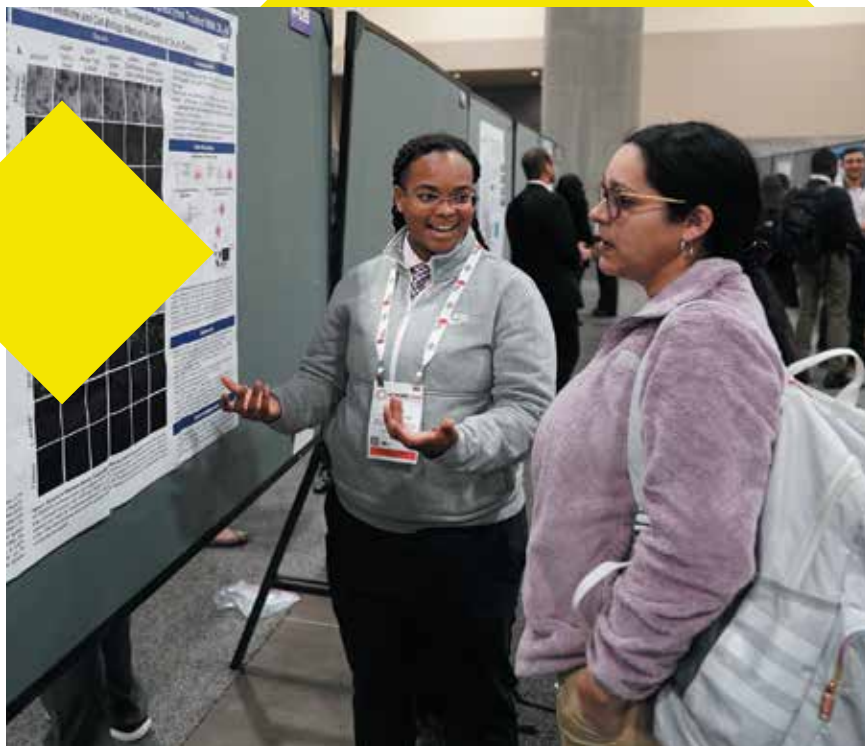
SESSION 04

📍 406

**Prepare to Network: Connecting
Effectively at Conferences**
(For Graduate Students)

SPEAKERS

- **Heather Dillon, M.Sc.**, University of California, San Diego, La Jolla, CA
- **Melanie Sinche, M.Ed., M.A.**, University of Virginia, Charlottesville, VA



SATURDAY

Sunday, November 17

GENERAL SESSION

8:30 a.m. – 9:15 a.m.

📍 403 – 405

Navigating the Mentorship Maze: Building a Mentor Network to Support Your Goals

(For Graduate Students)

SPEAKERS

- **Lauren Essler, Ph.D.**, Harvard Medical School, Boston, MA
- **Karina Gonzalez Herrera, Ph.D.**, Yale School of Medicine, New Haven, CT
- **Deepali Ravel, Ph.D.**, Harvard Medical School, Boston, MA

CONCURRENT GRADUATE STUDENT ORAL PRESENTATIONS 2

(5 SESSION OPTIONS) 9:30 a.m. – 10:45 a.m.

Graduate Student Oral Presentations

(For Graduate Students)

SESSION 01

📍 401 – 402

Disciplines: Biochemistry and Molecular Biology and Immunology

SESSION 02

📍 403 – 405

Disciplines: Cancer Biology, Microbiology, and Physiology and Pharmacology

SESSION 03

📍 406

Disciplines: Cell Biology and Microbiology

SESSION 04

📍 407

Discipline: Neuroscience

SESSION 05

📍 408 – 410

Disciplines: Developmental Biology and Genetics, Engineering, Physics and Mathematics, and Neuroscience

REFRESHMENT BREAK

10:45 a.m. – 11:00 a.m.

📍 4th Floor Foyer

(For Graduate Students)

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

(5 SESSION OPTIONS) 11:00 a.m. – 11:45 a.m.

SESSION 01

📍 407



A Path to Mental and Physical Wellness as a Graduate Student

(For Graduate Students)

SPEAKER

- **Latisha Franklin, Ph.D.**, Penn State University, University Park, PA

SESSION 02

📍 401 – 402



A Practical Guide to Negotiation

(For Graduate Students)

SPEAKER

- **Kate Sleeth, Ph.D.**, EduKatedSTEM, La Canada Flintridge, CA

SESSION 03

📍 408 – 410



Green Cards for Scientific Researchers: How to Win Your EB-1A/NIWCase

(For Graduate Students)

SPEAKER

- **Marco Pignone, III, Esq.**, Getson & Schatz P.C., Philadelphia, PA

SESSION 04

📍 406



Prepare to Network: Connecting Effectively at Conferences

(For Graduate Students)

SPEAKERS

- **Heather Dillon, M.Sc.**, University of California, San Diego, La Jolla, CA
- **Melanie Sinche, M.Ed., M.A.**, University of Virginia, Charlottesville, VA

SESSION 05

📍 403 – 405



Staying On or Wandering Off the Pathway: How Can We Get Where We Want to Go?

(For Graduate Students)

SPEAKER

- **Peter Lipke, Ph.D.**, Brooklyn College of City University of New York, Brooklyn, NY

CLOSING

12:00 p.m. – 12:30 p.m.

📍 403 – 405

Closing and Open Forum

(For Graduate Students)

SPEAKER

- **Tiffani Fonseca, M.B.A.**, ABRCMS, American Society for Microbiology, Washington, DC



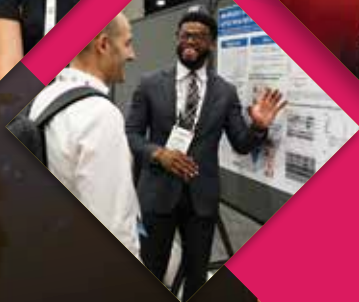
SUNDAY

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