Distinct Perspectives, Aligned Purpose.

Your perspective matters—to your classmates, your PhD program, and the world. We believe that exchanging ideas with people from different backgrounds and disciplines makes everyone’s work more dynamic and impactful, at every level. Within our community of bright, motivated students, you’ll be empowered to share your unique experiences and learn from those around you on the path to becoming a leader in your field. The future of STEM depends on our ability to capture excellence from all corners.

Shape our FUTURE. Become a Vivien Thomas Scholar.

The Vivien Thomas Scholars Initiative (VTSI) is a $150 million initiative, backed by Bloomberg Philanthropies, dedicated to nurturing, mentoring, and connecting exceptional diverse talent at historically black colleges and universities and other minority-serving institutions to STEM graduate education and future leadership in STEM.

VTSI Provides:

- **Exceptional Research Training:**
  Join one of over 30 exceptional Hopkins STEM PhD programs for your own graduate journey of discovery, working closely with the world’s leading scholars and scientists at the nation’s first research university.

- **Excellent Advising and Mentorship:**
  Meet regularly with dedicated mentors for personal advising, mentorship and sponsorship, all directed towards ensuring that VTSI scholars fully thrive personally and professionally along their graduate journey and beyond.

- **Professional and Career Development Activities:**
  The VTSI will provide and support professional, career and life design opportunities to provide a robust foundation for VTSI scholars to soar in their future STEM careers.

- **Community:**
  Join an outstanding community of Hopkins students and scholars whose diverse histories and life journeys bring exceptional community and richness to the Hopkins space. Join fellow VTSI scholars for regular social and community activities across the full course of your journey at Hopkins.

- **Benefits:**
  A competitive annual stipend plus tuition, health and other benefits. Full waiver of PhD application fee.

MORE INFORMATION AVAILABLE AT JHU.EDU/VIVIEN-THOMAS
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instagram.com/ABRCMS

Download the official conference mobile app for the most up-to-date
and detailed information.
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 Phoenix, Arizona, and ABRCMS 2023. The meeting continues to evolve in response to ongoing changes, including changes in the national environment that make it even more of an imperative that ABRCMS exists. I continue to be heartened and extremely proud that ABRCMS continues its very strong traditions of investment in diversity and inclusion with excellence in STEM, because to do otherwise is to not invest in our future.

And so our theme this year is "Investing in the Future." At ABRCMS, we have a long history of working to create a truly inclusive community of scientists, meeting, talking about science, and supporting each other. And we will not stop doing so. Since our first meeting in 2001, ABRCMS has been a place where we inspire and support the careers of leaders who are the future of a more diverse scientific enterprise. Starting with a focus on undergraduate students, we are now a thriving community of scientists at all career stages, with increased opportunities for support across the career spectrum. And each year, we welcome new scientists to our fold, because ABRCMS is an investment in the future, all of our futures, in STEM.

The core of ABRCMS, and our theme, is creating the future leaders of STEM. We do this by bringing the most cutting edge science, from plenary speakers Neuroscientist Dr. Gina Poe, human rights advocate Eddie Ndopu, described by Time magazine as “...one of the most powerful disabled people on the planet...”, to Dr. Carlos Bustamante, former Professor of Genetics and Biomedical Data Science at Stanford University, and Founder and CEO of Galatea Bio Inc. Of course, these speakers are just examples of the number of accomplished speakers from across the career spectrum, from undergraduate and post-baccalaureate students presenting their work, to graduate students sharing their thesis work in our graduate symposium, to independent scientists at all career stages, all presenting leading-edge scientific talks. And a staple of ABRCMS is investing in our future, with a wide range of professional development programs to meet the many needs of our participants, no matter the career stage. Personally, I always look forward to the excited faces of those new to ABRCMS as they discover what we have to offer, as well as that feeling of "community" that those of us who have been to the meeting many times feel when we arrive. Welcome to our supportive scientific community.

So, as you join us for the next few days, take advantage of this unique place, build your network, soak in the science (and ask lots of questions!), visit with 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 worked hard to deliver everything you see during your time here. Many volunteer judges, presenters, convention center support staff are all here doing a remarkable job to make this meeting possible. I would like to thank them all in advance for all their hard work 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 2023 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, Building Infrastructure Leading to Diversity, 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 Native American Research Centers for Health, the Support for Research Excellence Programs, and the National Research Mentoring Network.

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
National Institute of General Medical Sciences,
National Institutes of Health

Alison Gammie, Ph.D.
Director
Division of Training, Workforce Development, and Diversity, National Institute of General Medical Sciences,
National Institutes of Health
ABRCMS365 is year-round, online programming that provides continued learning, with unparalleled professional development, scientific and networking opportunities.

Explore Content Designed For:
- Community College, Undergraduate and Postbaccalaureate Students
- Graduate Students and Postdoctoral Scientists
- Researchers, Faculty Members and Administrators, including those working in Diversity and Inclusion

Mark your calendar for our upcoming events at www.abrcms.org/abrcms365

ABRCMS Career & Research Summit
January 23, 2024 | 2 – 5:30 p.m. ET
January 25, 2024 | 2 – 5:30 p.m. ET

ABRCMS ePoster Spring Symposium for Emerging Scientists
April 25, 2024 | 4:00 – 8:00 p.m. ET

Are You Interested in the Current State of Stem Careers & Research?
Dive into Career Pathways & Stay Informed with Cutting-Edge Research

Participate in a Free Virtual Scientific Spring Symposium
Abstract Submissions, Volunteer Opportunities, and Registration are Open!

Register for the Summit
Learn More
ABRCMS Steering Committee

Avery August, Ph.D., Chairperson
Cornell University, College of Veterinary Medicine

Lisa Barnes, Ph.D.
Rush University

Squire Booker, Ph.D.
Penn State University

Cherrie Boyer, Ph.D.
University of California, San Francisco

Arturo Casadevall, M.D., M.S., Ph.D.
The Johns Hopkins University

Lydia Contreras, Ph.D.
University of Texas at Austin

Tracy Johnson, Ph.D.
University of California, Los Angeles

Beronda Montgomery, Ph.D.
Grinnell College

Juan S. Ramírez Lugo, Ph.D.
University of Puerto Rico, Rio Piedras

Mary Sanchez Lanier, Ph.D.
Washington State University

Crystal Watkins, M.D., Ph.D.
MedStar Harbor Hospital

ABRCMS Subcommittees

JUDGES TRAINING AD HOC COMMITTEE

Marlene de la Cruz, Ph.D.
University of California, Irvine

Bolaji Thomas, Ph.D.
Rochester Institute of Technology

Alfredo Torres, Ph.D.
University of Texas Medical Branch at Galveston

PARTNERSHIP AD HOC COMMITTEE

Cheré Butts, Ph.D.
Biogen, Inc.

Victoria McGovern, Ph.D.
Burroughs Wellcome Fund
# ABRCMS Graduate Symposium Schedule-at-a-Glance

*All times are listed in MT.

## TUESDAY, NOVEMBER 14

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:00 a.m. – 4:30 p.m.</td>
<td>Registration</td>
</tr>
<tr>
<td>8:30 a.m. – 9:30 a.m.</td>
<td>Welcome &amp; Overview</td>
</tr>
<tr>
<td>9:30 a.m. – 10:15 a.m.</td>
<td>General Session</td>
</tr>
<tr>
<td>10:30 a.m. – 11:15 a.m.</td>
<td>Concurrent Professional Development Sessions</td>
</tr>
<tr>
<td>11:30 a.m. – 12:15 p.m.</td>
<td>Graduate Symposium General Session</td>
</tr>
<tr>
<td>12:30 p.m. – 1:45 p.m.</td>
<td>Networking Lunch</td>
</tr>
<tr>
<td>2:00 p.m. – 3:15 p.m.</td>
<td>Doctoral-Level Graduate Student Oral Presentations</td>
</tr>
<tr>
<td>3:30 p.m. – 4:15 p.m.</td>
<td>Concurrent Professional Development Sessions</td>
</tr>
<tr>
<td>4:15 p.m. – 4:30 p.m.</td>
<td>Break</td>
</tr>
<tr>
<td>4:30 p.m. – 6:00 p.m.</td>
<td>General Session</td>
</tr>
<tr>
<td>6:00 p.m.</td>
<td>Dinner On Own</td>
</tr>
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## WEDNESDAY, NOVEMBER 15

<table>
<thead>
<tr>
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<td>Doctoral-Level Graduate Student Oral Presentations</td>
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<tr>
<td>10:45 a.m. – 11:00 a.m.</td>
<td>Break</td>
</tr>
<tr>
<td>11:00 a.m. – 11:45 a.m.</td>
<td>Concurrent Professional Development Sessions</td>
</tr>
<tr>
<td>12:00 p.m. – 12:30 p.m.</td>
<td>Open Forum and Closing Remarks</td>
</tr>
<tr>
<td>12:30 p.m. – 2:00 p.m.</td>
<td>Free Time</td>
</tr>
<tr>
<td>7:30 p.m. – 9:30 p.m.</td>
<td>Graduate Student Poster Presentations and Reception</td>
</tr>
</tbody>
</table>

*ABRCMS 2023 DAILY PROGRAM*
GRADUATE SYMPOSIUM MAP

Sheraton Phoenix Downtown Hotel - 2nd Level

Biomedical Education & Innovation
Developing the Next Generation of Scientific Leaders

Interested in Summer Internships, Postbaccalaureate Internships, or Postdoctoral Fellowships? Want to gain industry and STEM leadership experience? Imagine performing research at a leading global pharmaceutical corporation while gaining practical experience and contributing to the search for new disease therapies.

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*Offer valid from November 8 through November 30, 2023

A riveting exploration of the world of science, diving headfirst into its triumphs and tribulations

Thinking about Science: Good Science, Bad Science, and How to Make It Better
Ferric C. Fang, Arturo Casadevall
Paper 978-1-683-67434-4
October 2023
544 pages

Reviews the ongoing arms race between science and bacteria’s remarkable ability to adapt

Revenge of the Microbes: How Bacterial Resistance is Undermining the Antibiotic Miracle, 2nd Edition
Brenda A. Wilson, Brian T. Ho
Paper 978-1-683-67008-7
April 2023
176 pages

Brings to life inspiring stories of medical pioneers whose work changed our understanding of how we think about and treat infectious diseases

Germ Theory: Medical Pioneers in Infectious Diseases, 2nd Edition
Robert P. Gaynes
Paper 978-1-683-67376-7
November 2022
384 pages

Trace the evolution of diagnostic virology from yellow fever to COVID-19

To Catch a Virus, 2nd Edition
John Booss, Marie Louise Landry, Marilyn J. August (With)
Paper 978-1-683-67373-6
November 2022
416 pages

A delight for readers of all ages featuring over 250 superb illustrations including algae, molds, bacteria, protozoa, and viruses

The Invisible ABCs: Exploring the World of Microbes
Rodney P. Anderson
Hardcover 978-1-555-81386-4
September 2006
64 pages

Covers the history of twelve important diseases and addresses public health responses and societal upheavals

Twelve Diseases that Changed Our World
Irwin W. Sherman
Paper 978-1-555-81466-3
August 2007
240 pages

Presents a rogues’ gallery of epidemic-causing microorganisms placed in the context of world history

The Power of Plagues, 2nd Edition
Irwin W. Sherman
Paper 978-1-683-67000-1
June 2017
512 pages

A textbook for anyone who needs to learn the basics of bioinformatics—the use of computational methods to better understand biological systems

Computational Biology: A Hypertextbook
Scott T. Kelley, Dennis Didulo
Paper 978-1-683-67002-5
January 2018
210 pages

Meet women who, despite obstacles and tough odds, have become scientific leaders and revered mentors

Women in Microbiology
Rachel J. Whitaker (Editor), Hazel A. Barton (Editor)
Paper 978-1-555-81953-8
May 2018
368 pages
Tuesday, November 14

8:00 a.m. – 4:30 p.m.  SPD - Valley of the Sun Foyer
GRADUATE SYMPOSIUM REGISTRATION
(Registered Graduate Students, Faculty, Program Directors)

8:30 a.m. – 9:30 a.m.  SPD - Valley of the Sun C
WELCOME & INTRODUCTIONS
(Recommended for All Attendees)

SPEAKER
• Irene Hulede, ABRCMS, American Society for Microbiology, Washington, DC

9:30 a.m. – 10:15 a.m.  SPD - Valley of the Sun C
Tips to Navigate Your Career Growth
(All Attendees)

SPEAKER
• Eydith Commencia Ortiz, Ph.D., CONECTA Partners, San Francisco, CA

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS
(3 SESSION OPTIONS)

10:30 a.m. – 11:15 a.m.  SPD - Valley of the Sun A
SESSION 01
One Brand, One Sound!
(Recommended for Graduate Students)

SPEAKERS
• Tamika Hurst-Darby, Ph.D., Cincinnati Children’s Research Foundation, Cincinnati, OH
• Uma Sivaprasad, Ph.D., Cincinnati Children’s Research Foundation, Cincinnati, OH

10:30 a.m. – 11:15 a.m.  SPD - Valley of the Sun B
SESSION 02
Stepping into Leading
(Recommended for Graduate Students)

SPEAKERS
• Paola Cepeda, Ph.D., Washington University in St. Louis, St. Louis, MO
• Peter Myers, Ph.D., Washington University in St. Louis, St. Louis, MO

10:30 a.m. – 11:15 a.m.  SPD - Valley of the Sun D
SESSION 03
The Solution Room: Navigating Difficult Times as a Scientist
(Recommended for All Attendees)

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

11:30 a.m. – 12:15 p.m.  SPD - Valley of the Sun C
Mental Health and Wellness: Our Community and Our Identity in STEM
(Recommended for All Attendees)

SPEAKERS
• Erica Sanchez, Ph.D., University of Texas at Dallas, Dallas, TX
• Danielle Williams, University of North Carolina at Chapel Hill, Chapel Hill, NC

12:30 p.m. – 1:45 p.m.  SPD - Valley Overlook
NETWORKING LUNCH

CONCURRENT STUDENT ORAL PRESENTATIONS
(5 SESSION OPTIONS)

2:00 p.m. – 3:15 p.m.  SPD - Valley of the Sun A
CONCURRENT ORAL PRESENTATIONS I
Biochemistry & Chemistry
(Recommended for All Attendees)

PRESENTERS
• 2:00 p.m. – 2:10 p.m.
  Ana De La Cruz, The Johns Hopkins University School of Medicine
  GO-01: ZNF598's Recruitment Dynamics in Ribosome-associated Protein Quality Control Revealed Through Single-Molecule Imaging

• 2:13 p.m. – 2:23 p.m.
  Christy Eslinger, Oklahoma State University Center for Health Sciences
  GO-02: Hypermethylation Activation of Glutaminase (GLS) Gene in Colon Inflammation

• 2:26 p.m. – 2:36 p.m.
  Sita Chandrasekaran, University of California, Berkeley
  GO-03: Programmable RNA Editing via CRISPR-guided Trans-Splicing
12:39 p.m. – 2:49 p.m.
Zaniqua Bullock, Baylor College of Medicine
GO-04: Evaluating Novel Small Molecule Drug Discovery Methods in the Pursuit of Novel Immune Checkpoint Inhibitors Targeting the CTLA-4/B7 Protein-Protein Interaction

2:52 p.m. – 3:02 p.m.
Hendryck Gellineau, Northwestern University Feinberg School of Medicine
GO-05: Cobalt(III) Schiff-base Complexes as Resistance Attenuating Agents

3:05 p.m. – 3:15 p.m.
Normanda Brown, Clark Atlanta University
GO-06: Green Mechanochemical Synthesis of Imine-Linked Covalent Organic Frameworks for High Iodine Capture

PRESENTERS
• 2:00 p.m. – 2:10 p.m.
Cristian Saez Gonzalez, The Johns Hopkins University
GO-07: The Role of Acetylated Microtubules in Directed Cell Migration

• 2:13 p.m. – 2:23 p.m.
Richaundra Randle, Meharry Medical College
GO-08: Interferon-Inducible Protein 16 Regulates Hypoxia-Induced Apolipoprotein L1 Expression in Human Podocytes

• 2:26 p.m. – 2:36 p.m.
Natalie Alexander, University of Alabama
GO-09: Vascular Endothelial Growth Factor Contributes to Blood Brain Barrier Disruption During Breast Cancer Cell Interaction in iPSC-Brain Endothelial Cell Model

• 2:39 p.m. – 2:49 p.m.
Ariane Imulinde Sugi, Tulane University
GO-10: Impact of the Timing of Hypertension on the Cardiovascular Response to Estrogen

• 2:52 p.m. – 3:02 p.m.
Annet Kyomuhangi, University of Kentucky
GO-11: Repurposing Lapatinib as a Novel Anti-inflammatory Drug for the Management of Acute and Chronic Pain

• 3:05 p.m. – 3:15 p.m.
Meghna Srinivasa Rao, University of Maryland Eastern Shore
GO-12: Exosome Mimetic Hybrid Nanoparticles with Delivery of siRNA for Bone Tissue Engineering

2:00 p.m. – 3:15 p.m. ☞ SPD - Valley of the Sun C
CONCURRENT ORAL PRESENTATIONS III
Computational and Systems Biology & Engineering, Physics and Mathematics
(Recommended for All Attendees)

PRESENTERS
• 2:00 p.m. – 2:10 p.m.
Wilfredo Gonzalez Rivera, University of California, San Diego
GO-13: Breaking Barriers in GWAS for Admixed Populations: Unraveling the Complexity of Social Descriptors and Genetic Variation in Precision Medicine

• 2:13 p.m. – 2:23 p.m.
Laura Ojeda, University of Southern California
GO-14: Characterizing Whole Brain Neuronal Seizures in Live Zebrafish with Fourier Light Field Microscopy

• 2:26 p.m. – 2:36 p.m.
Taya Lee, University of Maryland
GO-15: Ethyl Cellulose Ethanol Injector for Cervical Neoplasia Treatment

• 2:39 p.m. – 2:49 p.m.
Dominique Walker, Brown University
GO-17: Targeting Candida infections with peptide-decorated liposomes

• 2:52 p.m. – 3:02 p.m.
Diane Ingabire, Virginia Commonwealth University
GO-18: Sustained-Release Delivery of Nor-LAAM for Treating Opioid Use Disorder (OUD)

2:00 p.m. – 3:15 p.m. ☞ SPD - Valley of the Sun D
CONCURRENT ORAL PRESENTATIONS IV
Immunology & Microbiology
(Recommended for All Attendees)

PRESENTERS
• 2:00 p.m. – 2:10 p.m.
Harmony Saunders, University of Kansas Medical Center
GO-19: O-GlcNAc contributes to adipocyte mediated inflammation

• 2:13 p.m. – 2:23 p.m.
Zavier Eure, University of Florida
GO-20: Differences in Porphyromonas gingivalis OMV Mediated Responses due to Sphingolipid Status

• 2:26 p.m. – 2:36 p.m.
G. Okoye, Vanderbilt University School of Medicine
GO-21: MAIT Cells are Critical and Sufficient to Protect from Murine Pulmonary Tularemia-like Disease Caused by Francisella Tularensis

• 2:39 p.m. – 2:49 p.m.
Jalene Velazquez, Washington State University
GO-22: Distinct antibody effector profiles track with the development of Post-Ebola Syndrome
2:00 p.m. – 3:15 p.m.  
**SPD - Valley of the Sun E**  
**CONCURRENT ORAL PRESENTATIONS V**  
**Neuroscience & Social and Behavioral Sciences and Public Health**  
(Recommended for All Attendees)

**PRESENTERS**

- 2:00 p.m. – 2:10 p.m.  
  **Eric Stokes**, University of Colorado, Anschutz Medical Campus  
  GO-25: Different Neurexin3aA687X mutations distinctly alter trans-synaptic interactions and synaptic properties

- 2:13 p.m. – 2:23 p.m.  
  **Anneliese Ceisel**, The Johns Hopkins University School of Medicine  
  GO-26: Survival and integration of human retinal ganglion cells transplanted into zebrafish larvae

- 2:26 p.m. – 2:36 p.m.  
  **Manuela Velez Galindo**, Arizona State University  
  GO-27: Gray matter characteristics of motor brain regions in aging autistic adults versus neurotypical controls

- 2:39 p.m. – 2:49 p.m.  
  **Omar Koita**, Oregon Health and Science University  
  GO-28: Acute and Chronic Actions of Opioids on the Anterior Paraventricular Nucleus of the Thalamus

- 2:52 p.m. – 3:02 p.m.  
  **Jacqueline Hernandez**, The Lundquist Institute at Harbor-UCLA  
  GO-29: Defects in cell polarity of Mucopolysaccharidosis type III (MPS III) forebrain neurons

- 3:05 p.m. – 3:15 p.m.  
  **Michelle Mendoliaza**, Icahn School of Medicine  
  GO-30: Characterizing Resilience in Inflammatory Bowel Disease Patients: A Patient-Centered Qualitative Study and Preliminary Scale Development

**CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS (3 SESSION OPTIONS)**

3:30 p.m. – 4:15 p.m.  
**SPD - Valley of the Sun A**  
**SESSION 01**  
How to Apply for an Academic Faculty Position and Keep It!  
(Recommended for Graduate Students)

**SPEAKER**

- **Benjamin Garcia, Ph.D.**, Washington University School of Medicine, St. Louis, MO

3:30 p.m. – 4:15 p.m.  
**SPD - Valley of the Sun B**  
**SESSION 02**  
Launching Your Career as a Researcher: Opportunities from the National Institutes of Health, National Science Foundation, Department of Veteran Affairs, and Centers for Disease Control and Prevention  
(Recommended for All Attendees)

**SPEAKERS**

- **Cendrine Robinson, Ph.D.**, NIH, National Institute on Deafness and Other Communication Disorders, Bethesda, MD
- **Mark Roltsch, Ph.D.**, Department of Veteran Affairs, Washington, DC
- **Althea Grant-Lenzy, Ph.D.**, Centers for Disease Control and Prevention, Atlanta, GA

3:30 p.m. – 4:15 p.m.  
**SPD - Valley of the Sun D**  
**SESSION 03**  
Postdoctoral Fellowships in Industry  
(Sponsored by Merck Research Laboratories)  
(Recommended for Graduate Students)

**SPEAKERS**

- **James Goggins, Ph.D.**, Merck Research Laboratories, South San Francisco, CA
- **Ian Mangion, Ph.D.**, Merck Research Laboratories, Rahway, NJ

4:15 p.m. – 4:30 p.m.  
**SPD - Valley of the Sun Foyer**  
**REFRESHMENT BREAK**

4:30 p.m. – 6:00 p.m.  
**SPD - Valley of the Sun C**  
Creating a Useful Individual Development Plan  
(Recommended for All Attendees)

**SPEAKER**

- **Bill Lindstaedt, M.A., M.S.**, Professional Development Hub, Indianapolis, IN

6:00 p.m.  
**DINNER ON OWN**
Wednesday, November 15

8:00 a.m. – 11:00 a.m.  SPD - Valley of the Sun Foyer
GRADUATE SYMPOSIUM REGISTRATION

8:30 a.m. – 9:15 a.m.  SPD - Valley of the Sun C
Unlocking Your Potential in Biomedical Sciences with Design Thinking
(Recommended for All Attendees)

SPEAKER
• Gian Carlo Molina-Castro, Ph.D., The Johns Hopkins University, Baltimore, MD

CONCURRENT STUDENT ORAL PRESENTATIONS (5 SESSION OPTIONS)

9:30 a.m. – 10:45 a.m.  SPD - Valley of the Sun A
CONCURRENT ORAL PRESENTATIONS I
Biochemistry and Molecular Biology & Computational and Systems Biology & Microbiology
(Recommended for All Attendees)

PRESENTERS
• 9:30 a.m. – 9:40 a.m.
Alex Francette, The University of Pittsburgh
GO-31: The Long and Short of It: Direct and Indirect Contributions of the Paf1 Complex to Gene Expression

• 9:43 a.m. – 9:53 a.m.
Alyssa Paparella, Baylor College of Medicine
GO-32: Delving into Epigenetic Modifications through Histone Proteoform Analysis of a H3.3K36M Oncohistone

• 9:56 a.m. – 10:06 a.m.
Edgar Manriquez-Sandoval, Johns Hopkins University
GO-33: Asymmetrical Protein-Chaperone Interactions between DnaK/J-domain Proteins in Mycobacterium tuberculosis

• 10:09 a.m. – 10:19 a.m.
Brianah McCoy, Arizona State University
GO-34: DNA Methylation Dynamics of the Aging Immune System in Companion Dogs

• 10:22 a.m. – 10:32 a.m.
Amy Conaway, Dartmouth College
GO-35: A novel link between quorum sensing, metabolism, and virulence provides insight into Pseudomonas aeruginosa variants in chronic infections

• 10:35 a.m. – 10:45 a.m.
Ifeanyichukwu Eke, Michigan State University
GO-36: Mechanistic Insights into the Antimycobacterial Activities of New Nitro-containing Compound

9:30 a.m. – 10:45 a.m.  SPD - Valley of the Sun B
CONCURRENT ORAL PRESENTATIONS II
Cancer Biology
(Recommended for All Attendees)

PRESENTERS
• 9:30 a.m. – 9:40 a.m.
Charlene Mansour, Rutgers New Jersey Medical School
GO-37: Investigating the Effect of Bacteria in the Growth of Breast Cancer Cell Lines

• 9:43 a.m. – 9:53 a.m.
Rarnice Johnson, Clark Atlanta University
GO-38: Gai2 plays a vital in Rac1 dependent activation of Wave2 axis and essential for cell migration in prostate cancer cells

• 9:56 a.m. – 10:06 a.m.
Alyssa Lucero, University of Maryland Eastern Shore
GO-39: Molecular mechanism underlying miR-99b-5p/AR/mTOR mediated signaling in African American prostate cancer

• 10:09 a.m. – 10:19 a.m.
Robin Brice, Clark Atlanta University
GO-40: GATA3 and E2F6 Negatively Regulate WDR77 Expression in Prostate Cancer Cells, Inhibiting Cell Growth

• 10:22 a.m. – 10:32 a.m.
Lissah Johnson, Harvard T.H. Chan School of Public Health
GO-41: Uncovering Novel Vulnerabilities in Ovarian Cancer by Studying Cell Death in Neoplastic Transformation

• 10:35 a.m. – 10:45 a.m.
Mercy Amofa, University of Maryland Eastern Shore School of Pharmacy
GO-42: Characterization of PGE2 EP4 Receptor in Ovarian Cancer

9:30 a.m. – 10:45 a.m.  SPD - Valley of the Sun C
CONCURRENT ORAL PRESENTATIONS III
Developmental Biology and Genetics & Engineering, Physics and Mathematics
(Recommended for All Attendees)

PRESENTERS
• 9:30 a.m. – 9:40 a.m.
Gabrielle Rozumek, University of Michigan
GO-43: Humanized Mouse Model of C-Terminal MYRF Mutation Alters Gene Expression and Cell Cycle in Retinal Pigment Epithelial Cells
9:43 a.m. – 9:53 a.m.  Halima Aweis, University of Rochester  
GO-44: Myelin maturation in macaque and murine striatum follows temporal and spatial patterns during postnatal development

9:56 a.m. – 10:06 a.m.  Savannah Davis, Syracuse University  
GO-45: Argonautes HRDE-1 and PRG-1/PIWI Mediate Intergenerational Inheritance of Ancestral Starvation Memory in C. elegans

10:09 a.m. – 10:19 a.m.  Taylor Seawell, Clemson University  
GO-46: Evaluating Biomechanical Changes in Vascular Grafts through Use of a Custom Perfusion Bioreactor

10:22 a.m. – 10:32 a.m.  Roni Romero Melendez, University of the District of Columbia  
GO-47: Investigating Simulated Exploration Extravehicular Mobility Unit (xEMU) Spacesuit Effects on Standing Balance

10:35 a.m. – 10:45 a.m.  Ifunanya Nwogbaga, The Johns Hopkins University  
GO-48: Developing a Theoretical Framework for Accelerating Wound Healing Using Pulsed Electric Fields

9:30 a.m. – 10:45 a.m.  SPD - Valley of the Sun D  
CONCURRENT ORAL PRESENTATIONS IV  
Chemistry & Microbiology & Neuroscience  
(Recommended for All Attendees)

PRESENTERS

9:30 a.m. – 9:40 a.m.  Rhashanda Haywood, University of Maryland Eastern Shore  
GO-49: Target Identification and Lead Optimization of Small Organic Molecules as Potential Anti Seizure Agents

9:43 a.m. – 9:53 a.m.  Oluwadamilola Okeyyon, UWE Bristol  
GO-50: The Effects of Herbal Teas and Supplements on the Human Microbiota and Metabolism

9:56 a.m. – 10:06 a.m.  Brittany Lindsay, Florida A&M University  
GO-51: Vibrio Flesh-Eating Bacteria Proliferate in Warming Coastal Waters: Possible Implications for Public Health, Climate Change, and Bacterial Predation

10:09 a.m. – 10:19 a.m.  Ryan Valdez, Washington University in St. Louis  
GO-52: Working Under Pressure: How Lipopolysaccharide Contributes to Cell Envelope Rigidity in Gram-negative Bacteria

10:22 a.m. – 10:32 a.m.  Cierra Isom, University of Louisville School of Medicine  
GO-53: Identifying the Impact of a Novel Threonine Phosphorylation Motif in the Alphaviral Capsid Protein

10:35 a.m. – 10:45 a.m.  Christopher Knapp, Rowan-Virtua School of Osteopathic Medicine  
GO-54: Sex differences in risk/reward decision making and prefrontal catecholamine regulation following repetitive mild traumatic brain injury

9:30 a.m. – 10:45 a.m.  SPD - Valley of the Sun E  
CONCURRENT ORAL PRESENTATIONS V  
Physiology and Pharmacology & Social and Behavioral Sciences and Public Health  
(Recommended for All Attendees)

PRESENTERS

9:30 a.m. – 9:40 a.m.  Angela Hatton, University of Maryland Eastern Shore  
GO-55: The Osteoimmunomodulatory Effect of Cytokines Treating Mesenchymal Stem Cells on Bone Healing

9:43 a.m. – 9:53 a.m.  Iram Elamin, University of Maryland Eastern Shore  
GO-56: Trb3 Directed Target Therapy for Treating Osteoporotic Bone Defects

9:56 a.m. – 10:06 a.m.  Shane Boomer, University of South Dakota  
GO-57: Overexpression of Regulator of G Protein Signaling 2 (RGS2) in the Paraventricular Nucleus Reduces Blood Pressure in Angiotensin-II Induced Hypertensive Rats

10:09 a.m. – 10:19 a.m.  Chloe Jones, Auburn University  
GO-58: Black Women are Fitting in Resistance Exercise- The Effect of a Culturally-tailored and Theory-based Resistance Exercise Intervention on Motivation, Self-Regulation, and Adherence

10:22 a.m. – 10:32 a.m.  Joy Xu, David Geffen School of Medicine at UCLA  
GO-59: Psychological interventions of virtual gamification within academic intrinsic motivation: A systematic review

10:35 a.m. – 10:45 a.m.  Stephen Gallegos, Arizona State University  
GO-60: The Strengthening Skills Program for Autistic Adults Across the Lifespan: Preliminary Efficacy for Improving Adaptive Functioning and Quality of Life

10:45 a.m. – 11:00 a.m.  SPD - Valley of the Sun Foyer  
REFRESHMENT BREAK
CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS
(3 SESSION OPTIONS)

11:00 a.m. – 11:45 a.m.  SPD - Valley of the Sun A
SESSION 01
Civic Engagement 101: From Idea to Reality
(Recommended for Graduate Students)

SPEAKERS
- Jasmine George, Ph.D., Research!America, Arlington, VA
- Sophia Kaska, Ph.D., Research!America, Arlington, VA

11:00 a.m. – 11:45 a.m.  SPD - Valley of the Sun B
SESSION 02
Resiliency and Managing Burnout in STEM
(Recommended for All Attendees)

SPEAKERS
- Lillian J. Brady, Ph.D., Vanderbilt University Medical Center, Nashville, TN
- Antentor Hinton, Jr., Ph.D., Vanderbilt University, Nashville, TN
- Melanie McReynolds, Ph.D., Pennsylvania State University, University Park, PA

11:00 a.m. – 11:45 a.m.  SPD - Valley of the Sun C
SESSION 03
What Do I Do Now... To Pursue a Postdoc or Not to Pursue a Postdoc, That is the Question!
(Recommended for Graduate Students)

SPEAKERS
- Tom Kimbas, J.D., National Postdoctoral Association, Rockville, MD
- Bill Mahoney, Ph.D., University of Washington, Seattle, WA
- Caleb McKinney, Ph.D., M.P.S., Georgetown University, Washington, DC

12:00 p.m. – 12:30 p.m.  SPD - Valley of the Sun C
OPEN FORUM AND CLOSING REMARKS
(Recommended for All Attendees)

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

Training the next generation of leaders in medicine and biomedical research
Applications for the 2024 Cohort are Now Open!

Explore the exceptional opportunity offered by the ASM Future Leaders Mentorship Fellowship (FLMF), a comprehensive 2-3-year initiative. This program is dedicated to nurturing reciprocal leadership, coaching, mentoring, and developing knowledge growth by strategically connecting master’s and doctoral-level graduate students from historically excluded communities in microbial sciences with experienced scientists and professionals from diverse career sectors.

Apply to be a:
- Fellow
- Mentor

Application Deadline: February 15, 2024
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>12:00 p.m. – 8:00 p.m.</td>
<td>Registration</td>
</tr>
<tr>
<td>2:00 p.m. – 4:00 p.m.</td>
<td>Concurrent Workshops</td>
</tr>
<tr>
<td>3:00 p.m. – 8:00 p.m.</td>
<td>Exhibitor Move-In</td>
</tr>
<tr>
<td>4:15 p.m. – 5:00 p.m.</td>
<td>Career Pathways &amp; Opportunities in STEM Disciplines Discussion</td>
</tr>
<tr>
<td>5:15 p.m. – 6:00 p.m.</td>
<td>Concurrent Professional Development Sessions</td>
</tr>
<tr>
<td>6:00 p.m. – 6:15 p.m.</td>
<td>ABRCMS Travel Awardee Meet &amp; Greet</td>
</tr>
<tr>
<td>6:15 p.m. – 7:15 p.m.</td>
<td>Networking Dinner</td>
</tr>
<tr>
<td>7:30 p.m. – 8:30 p.m.</td>
<td>PREP Scholars Meet &amp; Greet</td>
</tr>
<tr>
<td>7:30 p.m. – 9:30 p.m.</td>
<td>Program Directors Meetings</td>
</tr>
<tr>
<td>7:30 p.m. – 9:30 p.m.</td>
<td>Graduate Student Poster Presentations and Reception</td>
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</table>

**THURSDAY, NOVEMBER 16**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m. – 7:00 p.m.</td>
<td>Registration</td>
</tr>
<tr>
<td>7:15 a.m. – 8:00 a.m.</td>
<td>Continental Breakfast*</td>
</tr>
<tr>
<td>8:00 a.m. – 12:00 p.m.</td>
<td>Exhibitor Move-In</td>
</tr>
<tr>
<td>8:30 a.m. – 9:30 a.m.</td>
<td>Welcome and Opening Keynote</td>
</tr>
<tr>
<td>9:45 a.m. – 10:15 a.m.</td>
<td>Concurrent Scientific Expert Lecture Sessions</td>
</tr>
<tr>
<td>10:30 a.m. – 11:15 a.m.</td>
<td>Concurrent Professional Development Sessions</td>
</tr>
<tr>
<td>11:30 a.m. – 11:45 a.m.</td>
<td>Concurrent Scientific Flash Talks</td>
</tr>
<tr>
<td>12:00 p.m. – 1:00 p.m.</td>
<td>Networking Lunch by Scientific Disciplines</td>
</tr>
<tr>
<td>1:15 p.m. – 2:00 p.m.</td>
<td>Keynote Address</td>
</tr>
<tr>
<td>2:15 p.m. – 6:30 p.m.</td>
<td>Exhibit and Poster Hall Hours</td>
</tr>
<tr>
<td>2:15 p.m. – 3:30 p.m.</td>
<td>Poster Session 1 (A)</td>
</tr>
<tr>
<td>3:30 p.m. – 6:15 p.m.</td>
<td>Professional Development 30-min Theater Spotlights (Career Pathways)</td>
</tr>
<tr>
<td>3:45 p.m. – 5:00 p.m.</td>
<td>Poster Session 2 (B)</td>
</tr>
<tr>
<td>5:15 p.m. – 6:30 p.m.</td>
<td>Poster Session 3 (C)</td>
</tr>
<tr>
<td>6:45 p.m. – 7:45 p.m.</td>
<td>Networking Dinner</td>
</tr>
<tr>
<td>6:45 p.m. – 7:45 p.m.</td>
<td>Affiliated Events (By Invitation Only)</td>
</tr>
<tr>
<td>8:00 p.m. – 9:15 p.m.</td>
<td>Student Oral Presentations</td>
</tr>
</tbody>
</table>
## FRIDAY, NOVEMBER 17

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m. – 7:00 p.m.</td>
<td>Registration</td>
</tr>
<tr>
<td>7:15 a.m. – 8:00 a.m.</td>
<td>Continental Breakfast*</td>
</tr>
<tr>
<td>8:30 a.m. – 9:15 a.m.</td>
<td>Concurrent Professional Development Sessions</td>
</tr>
<tr>
<td>9:30 a.m. – 10:00 a.m.</td>
<td>Concurrent Scientific Expert Lecture Sessions</td>
</tr>
<tr>
<td>10:15 a.m. – 11:00 a.m.</td>
<td>Keynote Address</td>
</tr>
<tr>
<td>11:15 a.m. – 12:00 p.m.</td>
<td>Concurrent Professional Development Sessions</td>
</tr>
<tr>
<td>12:15 p.m. – 1:00 p.m.</td>
<td>Networking Lunch by Scientific Disciplines</td>
</tr>
<tr>
<td>1:30 p.m. – 2:15 p.m.</td>
<td>Keynote Address</td>
</tr>
<tr>
<td>2:30 p.m. – 6:45 p.m.</td>
<td>Exhibit and Poster Hall Hours</td>
</tr>
<tr>
<td>2:30 p.m. – 3:45 p.m.</td>
<td>Poster Session 4 (D)</td>
</tr>
<tr>
<td>3:00 p.m. – 6:30 p.m.</td>
<td>Professional Development 30-min Theater Spotlights (Enhancing Skillsets)</td>
</tr>
<tr>
<td>4:00 p.m. – 5:15 p.m.</td>
<td>Poster Session 5 (E)</td>
</tr>
<tr>
<td>5:30 p.m. – 6:45 p.m.</td>
<td>Poster Session 6 (F)</td>
</tr>
<tr>
<td>7:00 p.m.</td>
<td>FREE TIME</td>
</tr>
<tr>
<td>7:00 p.m. – 9:00 p.m.</td>
<td>Speakers, Exhibitors, Program Directors, and Judges Reception (Nonstudents Only)</td>
</tr>
<tr>
<td>7:00 p.m. – 9:00 p.m.</td>
<td>Affiliated Events (By Invitation Only)</td>
</tr>
<tr>
<td>7:00 p.m. – 9:30 p.m.</td>
<td>Movie Night, featuring: Woman King</td>
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## SATURDAY, NOVEMBER 18

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m. – 1:00 p.m.</td>
<td>Registration</td>
</tr>
<tr>
<td>7:15 a.m. – 8:00 a.m.</td>
<td>Continental Breakfast*</td>
</tr>
<tr>
<td>8:00 a.m. – 9:15 a.m.</td>
<td>Exhibitor Feedback Session</td>
</tr>
<tr>
<td>8:30 a.m. – 9:30 a.m.</td>
<td>Program Directors Meetings</td>
</tr>
<tr>
<td>8:30 a.m. – 9:30 a.m.</td>
<td>Student Oral Presentations</td>
</tr>
<tr>
<td>9:30 a.m. – 12:00 p.m.</td>
<td>Exhibit Hall Hours</td>
</tr>
<tr>
<td>10:00 a.m. – 11:00 a.m.</td>
<td>ePoster Presentation Session 1 (VA)</td>
</tr>
<tr>
<td>11:00 a.m. – 12:00 p.m.</td>
<td>ePoster Presentation Session 2 (VB)</td>
</tr>
<tr>
<td>12:15 p.m. – 4:00 p.m.</td>
<td>Exhibitor Move-Out</td>
</tr>
<tr>
<td>12:00 p.m. – 5:00 p.m.</td>
<td>FREE TIME</td>
</tr>
<tr>
<td>5:00 p.m. – 6:00 p.m.</td>
<td>Closing Banquet</td>
</tr>
<tr>
<td>6:15 p.m. – 7:30 p.m.</td>
<td>Closing Keynote Address &amp; ABRCMS Alumni Panel Discussion</td>
</tr>
<tr>
<td>7:45 p.m. – 9:30 p.m.</td>
<td>Awards Ceremony and Recognition</td>
</tr>
<tr>
<td>10:00 p.m. – 1:00 a.m.</td>
<td>Game and Dance Social (All Attendees)</td>
</tr>
</tbody>
</table>

* Breakfast availability at the conference center will be limited. If your hotel provides breakfast, we kindly request that you dine at your hotel. This greatly assists ABRCMS in maintaining lower registration fees each year.
The ABRCMS Conference Program is current as of [INSERT PRINT DATE]. For the latest updates and information, please refer to the mobile app.

REGISTRATION
ABRCMS registration is located at the Phoenix Convention Center. Full-service registration for all attendees, including badge pick-up is in the North Hall Lobby 4-6.

- **Wednesday, November 15**
  12:00 p.m. - 8:00 p.m.
- **Thursday, November 16**
  7:00 a.m. - 7:00 p.m.
- **Friday, November 17**
  7:00 a.m. - 7:00 p.m.
- **Saturday, November 18**
  7:00 a.m. - 1:00 p.m.

CONFERENCE POLICIES
Name Badge Policy and Badge Replacement
All ABRCMS attendees are required to always wear conference badges onsite. Badges give you access to sessions, the exhibit hall, and workshops. It is your responsibility to ensure that you always have your badge. There is a charge of $25 for badge replacement. No exceptions will be made.

Dress Code
ABRCMS attendees are expected to dress professionally for all conference activities.

Cell Phone Usage
Out of consideration for your ABRCMS colleagues, all cell phones must be silenced in session rooms.

Photos and Video
By registering for ABRCMS, you agree to allow ASM/ABRCMS to use any photos or video taken of you during the conference in news media, website, publications, articles, marketing pieces, etc. To protect data shared during presentations, no photos may be taken of posters or scientific session slides at ABRCMS.

ABRCMS Code of Conduct
The American Society for Microbiology (ASM)/Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS) is the main forum for microbial sciences that considers and debates scientific issues in an orderly, respectful and fair manner. The ASM/ABRCMS is committed to providing an environment that encourages the free expression and exchange of scientific ideas and promotes equal opportunities and respectful treatment for all participants. Differing perspectives are valued and ASM/ABRCMS welcomes the diversity of individuals and their identities. All participants are expected to treat others with respect and consideration, follow venue rules and alert ASM/ABRCMS staff or security of any dangerous situations or anyone in distress.

ASM/ABRCMS prohibits and will not tolerate any form of harassment or bullying at its events, whether the event is in person or virtual. This applies to all ASM/ABRCMS related events.

For in person or virtual ASM/ABRCMS events, individuals may also report complaints via 866-209-5916 or www.ethcomp.com/asm. All complaints will be responded to promptly and treated seriously and, to the extent possible, confidentially.

To read and access the entire Events Code of Conduct, please visit: https://asm.org/Articles/Meetings/ASM-Events-Code-of-Conduct

ADA
Pursuant to the Americans with Disabilities Act, if you require services or aids to participate fully in ABRCMS, please visit the registration desk.

CONFERENCE APP
Get the latest program, exhibitor information, maps and more in the palm of your hand with the ABRCMS Mobile App. Search for ABRCMS 2023 in your app store or scan this QR code to download.

WI-FI ACCESS
Free Wi-Fi is available in the exhibit hall, session rooms, and convention center hallways. This service has been brought to you by ABRCMS and the American Society for Microbiology.

- **NETWORK**: ABRCMS
- **PASSWORD**: 2023ABRCMS

DINING PLAN
Dining is included in the ABRCMS registration fee. Registration includes the following meals:

- **Wednesday**: Dinner
- **Thursday**: Limited Breakfast*, Lunch, and Dinner
- **Friday**: Limited Breakfast* and Lunch
- **Saturday**: Limited Breakfast* and Dinner

Note: The most common food allergens have been avoided to the best extent. Please read the food labels carefully on the buffets. Many of the items on the buffets and plated meals will accommodate gluten-free and dairy-free diets.

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

Section continued on next page...
CLOSING EVENTS: BANQUET, KEYNOTE PANEL, AND AWARDS CEREMONY & RECOGNITION
ABRCMS closing events will be held on Saturday, November 18 at the Convention Center. Details can be found below.

- **Banquet**
  5:00 p.m. – 6:00 p.m. ........................ North Hall A-D

- **Keynote Panel**
  6:15 p.m. – 7:30 p.m. ....................... North Ballroom

- **Awards Ceremony & Recognition**
  7:45 p.m. – 9:30 p.m ....................... North Ballroom

DESIGNATED SPACES
All rooms are located at the Convention Center and will be available from Wednesday, November 15 – Saturday, November 18.

- **Speaker Ready Room** .......................... North 123
- **Judges Lounge** ................................. North 124
- **Poster Presentation Practice Room** ........... North 126 AB
- **Oral Presentation Practice Room** .............. North 126 C
- **ADA Resource Room** .......................... North 127 B
- **Exam Room** ................................. North 131 A, 131 B, and 131 C
  To accommodate students who need to take exams while at the conference, please visit the the ABRCMS information desk (Booth 801) to sign-up.
- **First Aid Room** ............................ North LL - Show Office 6 (Across from Registration)
- **Mamava Pods (Lactation Spaces)** ............ North level 2 Foyer & West Atrium
- **Prayer/Meditation Room** ..................... West 203
- **Attendee Lounge** ............................... West 301 A

CONFERENCE EVALUATION
This year, we are re-implementing real-time evaluation during sessions. Please take a few minutes to complete your evaluation in the conference app at the end of each session you attend. A post-conference evaluation will be emailed to all attendees following the conference. We value your feedback. Every completed evaluation helps us improve future conferences.

DISCOVER PHOENIX
LOCAL INFORMATION
ABRCMS GRADUATE SYMPOSIUM
As ABRCMS has been working to expand our programming and experience, we’re excited to enter into the second year of the ABRCMS Graduate Symposium, taking place November 14 – 15. The Graduate Symposium is designed for graduate students, in one of our 12 STEM disciplines, at the master’s- and doctoral-level, and provides a unique opportunity for graduate students to highlight their research in oral presentations, strengthen their professional development skills, and build their scientific networks among STEM and career professionals.

Welcome to the graduate students who are part of this ABRCMS event!

EPOSTERS
Check out the student ePoster sessions, which will be available to all attendees on Saturday, November 18, from 10:00 a.m. – 12:00 p.m., located in the conference app through the ePoster platform, FourWaves. All registered attendees were sent an email from FourWaves with instructions on how to log-in to view the live presentations.

ABRCMS365
Your ABRCMS experience no longer has to end on the last day of the conference. ABRCMS365 is an extension of the conference that allows you and your students to continue learning, with webinars that explore professional development, diversity, and scientific topics. Take advantage of this opportunity to stay connected by visiting: abrcms.org/online.

MENTORING AND COACHING HUB
Take this opportunity to convene with various mentors, who are available for 1:1 coaching in the Exhibit Hall during Exhibit Hall hours.

Lead Impactful Biomedical Sciences Research for the Future

Looking for a dynamic graduate program at a leading research institution that offers a platform for groundbreaking and impactful research in biomedical sciences? Interested in advancing research that addresses health disparities?

Stop by booth #326 to learn about research opportunities tailored to your interests across various biomedical science disciplines. At Howard, you'll collaborate with professors and research mentors committed to your success.

Don’t miss this chance to connect with us, ask questions, and take the first step toward an exciting future in biomedical sciences. We can't wait to meet you!
For Exhibitors

ABRCMS Exhibits will take place in the Phoenix Convention Center North Lower Level Halls 4–6.

MOVE-IN
• Wednesday, November 15
  3:00 p.m. – 8:00 p.m.
• Thursday, November 16
  8:00 a.m. – 12:00 p.m.

EXHIBIT HOURS
• Thursday, November 16
  2:15 p.m. – 6:30 p.m.
• Friday, November 17
  2:30 p.m. – 6:45 p.m.
• Saturday, November 18
  9:30 a.m. – 12:00 p.m.

MOVE-OUT
• Saturday, November 18
  12:15 p.m. – 4:00 p.m.

EARLY ADMITTANCE
Your exhibitor badge allows you access to the Exhibit Hall 30 minutes prior to the opening of the Exhibit Hall. Due to security, you will not be allowed to enter the Exhibit Hall earlier than 30 minutes or anytime outside of exhibit hours. Please plan accordingly.

EXHIBITOR SERVICE CENTER
The Exhibitor Service Center is where exhibitors can find the exhibitor lounge, Freeman, Smart City (Internet), Projection (A/V) and Maritz (Lead Retrieval) service desks. The Exhibitor Service Center is located in the 1700 aisle.

LEAVING EARLY
We encourage all exhibitors to stay for the duration of the conference. Students are expecting full participation. Exhibitors who wish to leave early will be responsible for the shipment of their materials. Freeman will only ship materials for exhibitors on the last day of the conference.

EXHIBITOR FEEDBACK SESSION AND BREAKFAST
All exhibitors are invited to join Avery August, Ph.D., ABRCMS chairperson and Co-PI, and Irene Hulede, ABRCMS director and Co-PI, for breakfast and feedback on Saturday, November 18, from 8:00 a.m. – 9:15 a.m. in room CC - North 128.

Important Reminder: Judges’ score submissions are due by 1:00 p.m. MT on Saturday, November 18.

For Judges

ABRCMS Community College, Undergraduate, and Postbaccalaureate Posters Presentations will take place at the Phoenix Convention Center North Lower Level Halls 4–6.

JUDGES LOUNGE
Location: North 124
The Judges Lounge is open during the following times:
• Wednesday, Nov. 15:
  12:00 p.m. – 7:00 p.m.
• Thursday, Nov. 16:
  7:00 a.m. – 8:30 p.m.
• Friday, Nov. 17:
  8:00 a.m. – 7:00 p.m.
• Saturday, Nov. 18:
  8:00 a.m. – 1:00 p.m.

JUDGES MEETINGS
All judges must check-in during the Judges Meeting on Wednesday, November 15 at 5:15 p.m., located at the Convention Center. Judges who do not check in will not receive their assigned presentations on Thursday. Each discipline will meet in its own room. A list of disciplines and room locations can be found below:

Biochemistry and Molecular Biology .................... 223
Cancer Biology ............................................. 129 A
Cell Biology.................................................... 128 A
Chemistry ..................................................... 130
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Immunology .................................................. 129 B
Microbiology ................................................ 226
Neuroscience ................................................ 221
Physiology & Pharmacology ......................... 128 B
Social & Behavioral Sciences and Public Health ... 228

If a Judge cannot attend this meeting, please go to the Judges Lounge (North 124)

SPEAKERS, EXHIBITORS, JUDGES AND PROGRAM DIRECTORS NETWORKING SOCIAL
Friday, November 17, from 7:00 p.m. – 9:00 p.m., located at the Sheraton Phoenix Downtown Ballroom. This reception is exclusively for speakers, exhibitors, judges, and program directors who are nonstudents.
ABRCMS offers many opportunities for networking. Join colleagues with similar interests to share ideas and develop research collaborations. Networking is strongly encouraged throughout the conference. Attendees are asked to sit in their respective disciplines during lunch on Thursday and Friday.

Disciplines tables are identified by tablecloth. If table is occupied in your primary discipline, we ask that you locate a table in your secondary discipline. See discipline color chart below.
ABRCMS would like to recognize the following universities and organizations for their support of ABRCMS 2023.

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• Burroughs Wellcome Fund
• Howard Hughes Medical Institute (HHMI)
• Universidad Autónoma de Guadalajara (UAG) School of Medicine
Keynote Speakers

Thursday, November 16
9:00 a.m. – 9:30 a.m.

Opening Scientific Keynote Address
Sleep on It: Discoveries of How Emotional and Cognitive Functions Reset During Sleep

Gina Poe, Ph.D.
University of California, Los Angeles, CA

Thursday, November 16
1:15 p.m. – 2:00 p.m.

Keynote Address
Interview with Edward (Eddie) Npodu

Edward (Eddie) Npodu
Human Rights Activist

Friday, November 17
10:15 a.m. – 11:00 a.m.

Keynote Panel
ABRCMS Past, Present, and Future: Discussion with Leaders

Clifton Poodry, Ph.D.
University of Oregon, Eugene, OR

Elba Serrano, Ph.D.
New Mexico State University, Las Cruces, NM

Juanita Merchant, M.D., Ph.D.
University of Arizona, Tucson, AZ

Stefano Bertuzzi, Ph.D., M.P.H.
American Society for Microbiology, Washington, DC
Keynote Speakers

Friday, November 17
1:30 p.m. – 2:15 p.m.

Scientific Keynote Address
Enabling Precision Health
at Scale for All

Carlos D. Bustamante, Ph.D.
Galatea Bio, Inc., Hialeah, FL

Saturday, November 18
6:15 p.m. – 7:30 p.m.

Closing Keynote Panel
Conversations with ABRCMS Alumni: Where Are They Now?

ABRCMS Alumni Panelists

Vladimir Diaz-Ochoa, Ph.D.
University of California, Davis, Davis, CA

Teresa Shakespeare, Ph.D.
Savannah State University, Savannah, GA

Fiorella Penaloza, D.M.
University of Hawaii- West Oahu, Kapolei, HI

Kafui Dzirasa, M.D., Ph.D.
Duke University, Durham, NC
What the Heme? Structures of Eukaryotic ALA Synthase Reveal Differences in Metabolic Control
Breann Brown, Ph.D., Vanderbilt University, Nashville, TN

Understanding Genetic Variation: A Matter of Taste from Individual and Community Level Perspectives
Paule Joseph, Ph.D., National Institutes of Health, Washington, DC

Why Leukemia Patients with African Ancestry Respond Poorly to Therapy
H. Leighton Grimes, Ph.D., Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

Understanding Genetic Variation: A Matter of Taste from Individual and Community Level Perspectives
Krystal Tsosie, Ph.D., Arizona State University, Tempe, AZ

Cell Biology: Land of Image-ination
C. Patrick Lusk, Ph.D., Yale School of Medicine, New Haven, CT

Biomedical Engineering: Making Impact on Diseases that Affect Your Community
Manu Platt, Ph.D., NIH, National Institute of Biomedical Imaging and Bioengineering, Bethesda, MD

Nano-bio Interactions for Plant Genetic Engineering
Roxana Coreas, Ph.D., University of California, Berkeley, Berkeley, CA

Why Recognize Protein When Fats Taste So Good?
Dequina Nicholas, Ph.D., University of California Irvine, Irvine, CA

What Can We Do With the Largest, Diverse Dataset?: Two Approaches Using the All of Us Workbench
Catherine Gavile, Ph.D., University of Utah, Salt Lake City, UT

Microbes Cruising the Atmosphere
Lizbeth Davila-Santiago, Ph.D., University of Puerto Rico, Arecibo, Arecibo, PR

What Can We Do With the Largest, Diverse Dataset?: Two Approaches Using the All of Us Workbench
Panagiotis Katsonis, Ph.D., Baylor College of Medicine, Houston, TX

Microbes Cruising the Atmosphere
Natasha DeLeon-Rodriguez, Ph.D., Inter American University of Puerto Rico, San Juan, PR
**Race, Health, and the Built Microbiome**
Joseph Graves Jr., Ph.D., North Carolina A&T State University, Greensboro, NC

**The All of Us Research Program: Transforming Research for All of Us**
Minnkyong Lee, Ph.D., NIH All of Us Research Program, Bethesda, MD

**Get the Dose Right: Biologic Agonist Dosing Considerations**
Ebehiremen Ayewoh, Ph.D., Genentech, San Francisco, CA

**Revolutionizing Liver Cancer Treatment**
Mehdi Zreik, M.S., Wayne State University School of Medicine, Detroit, MI

**Autophagy Regulation in Human Disease: From Cancer to Neurodegeneration**
Anthony Venida, Ph.D., University of California, San Francisco, San Francisco, CA

**Chemistry to Shed Light on Biology**
John C. Jewett, Ph.D., University of Arizona, Tucson, AZ

**Microbes as Solutions to Climate Change**
Timothy Donohue, Ph.D., University of Wisconsin-Madison, Madison, WI

**Computational Odyssey: Molecular Marvels in Structural Biology**
Mert Gur, Ph.D., University of Pittsburgh, Pittsburgh, PA

**Promoting Inclusion in Neurorehabilitation Research**
Natalia Sánchez, Ph.D., Chapman University, Irvine, CA

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**SCIENTIFIC FLASH TALKS**
Thursday, November 16 | 11:30 a.m. – 11:45 a.m.

**Can Cannabinoids Be an Alternative to Opioids in Chronic Pain Relief?**
Michael Burton, Ph.D., The University of Texas at Dallas, Dallas, TX

**Using Genomic Technology To Improve Human Health in Inclusive Ways**
Robin Aguilar, B.A., Ph.D., University of Washington, Seattle, WA

**Disparities in Pulse Oximetry Standards and Performance**
Joshua Burrow, Ph.D., Brown University, Providence, RI

**Comorbidities, Immunity, and Cancer**
Curtis Henry, Ph.D., Emory University, Atlanta, GA

**Microbes as Solutions to Climate Change**
Timothy Donohue, Ph.D., University of Wisconsin-Madison, Madison, WI

**Promoting Inclusion in Neurorehabilitation Research**
Natalia Sánchez, Ph.D., Chapman University, Irvine, CA
ABRCMS is one of the largest research-based minority conferences that attracts such top-talent and bright young leaders.”

**SCIENTIFIC EXPERT LECTURES**

Friday, November 17 | 9:30 a.m. – 10:00 a.m.

- **Cycling of NAD+ Precursors Between the Host Tissues and Gut Microbiome**  
  Melanie McReynolds, Ph.D., Pennsylvania State University

- **Applications of Chemical Imaging Techniques in Microbial Ecology**  
  Xavier Mayali, Ph.D., Lawrence Livermore National Laboratory, Livermore, CA

- **How Plant Disease Shaped History – Lessons for the Future of Human Health**  
  Lindsey Burbank, Ph.D., USDA, Agricultural Research Service, Parlier, CA

- **Applications of Chemical Imaging Techniques in Microbial Ecology**  
  Laura Sanchez, Ph.D., University of California, Santa Cruz, CA

- **Biological Determinants of Racial and Ethnic Disparities in Cancer**  
  Nyasha Chambwe, Ph.D., Feinstein Institutes for Medical Research, Manhasset, NY

- **Unmasking Selective Functions of Extracellular Signal-Regulated Kinase 1/2 Signaling in the Developing Cerebral Cortex**  
  Jason M. Newbern, Ph.D., Arizona State University, Tempe, AZ

- **A Reason To Die: Necroptotic Cell Death, Stress and Virus Infection**  
  Bert Jacobs, Ph.D., Arizona State University, Tempe, AZ

- **A Reason To Die: Necroptotic Cell Death, Stress and Virus Infection**  
  Morgan Woolridge, B.S., Arizona State University, Tempe, AZ

- **Pathways to Careers in Pharmacy and Pharmaceutical Sciences**  
  Julio Duarte, Pharm.D., Ph.D., University of Florida, Gainesville, FL

- **Promoting Inclusion in Neurorehabilitation Research**  
  Sydney Schaefer, Ph.D., Arizona State University, Tempe, AZ

- **Novel Approaches for Therapeutic Target Identification in Cancer**  
  Claudia Benavente, Ph.D., University of California, Irvine, Irvine, CA

- **Novel Approaches for Therapeutic Target Identification in Cancer**  
  Thomas Martinez, Ph.D., University of California, Irvine, Irvine, CA

- **A Reason To Die: Necroptotic Cell Death, Stress and Virus Infection**  
  Morgan Woolridge, B.S., Arizona State University, Tempe, AZ
Scaling Up Bacteriophage Hunting in Resource-Poor Countries: An Affordable Solution to Tackle Multidrug Resistance
Liesl Jeffers-Francis, Ph.D., North Carolina A&T State University, Greensboro, NC

Racism, Health Literacy, and Stroke: A Hip Hop Public Health Approach
Olajide A. Williams, Ph.D., Columbia University, New York, NY

Preclinical Drug Discovery of NLRP3 Inflammasome Inhibitors
Amol Kulkarni, Ph.D., Howard University, Washington, D.C.

The Untold and Overlooked Path of Menopause
Maria Alicia Carrillo Sepulveda, Ph.D., New York Institute of Technology, New York, NY

Future of Lay Citizen Response to the Opioid Overdose Crisis
Wasantha Jayawardene, M.D., Ph.D., Southern Illinois University, Carbondale, IL

Using Mathematics to Investigate Retina Degeneration
Erika Tatiana Camacho, Ph.D., The University of Texas at San Antonio, San Antonio, TX

Racism, Health Literacy, and Stroke: A Hip Hop Public Health Approach
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Erika Tatiana Camacho, Ph.D., The University of Texas at San Antonio, San Antonio, TX
Shape the Science at

ASM Microbe 2024

Abstract Submission and Travel Awards Open Nov. 15

Dec. 5 | Early Abstract Deadline
Jan. 23 | General Abstract Deadline

Submit Now!
This schedule is subject to change. For the most up-to-date information, please refer to the mobile app.

CC = Convention Center
SPD = Sheraton Phoenix Downtown Hotel

Wednesday, November 15

12:00 p.m. – 8:00 p.m.  CC - North Lobby 4–6
REGISTRATION OPEN

WORKSHOPS
(6 WORKSHOP OPTIONS)

2:00 p.m. – 4:00 p.m.  CC - North 127 C
WORKSHOP 01
Celebrating Personal and Scientific Identities: Key Questions to Ask Yourself and Others to Find a Grad School Fit
(Recommended for Community College, Undergraduate, and Postbaccalaureate Students)

SPEAKERS
- Ana Maria Acosta, Ph.D., Northwestern University, Evanston, IL
- Rosie Jones, M.A., Washington University, St. Louis, MO
- Cassandra VanDunk, Ph.D., St. Jude Children’s Research Hospital Graduate School, Memphis, TN

2:00 p.m. – 4:00 p.m.  CC - North 129 A
WORKSHOP 02
Crawl, Walk, Run: Exploring the Road to Cultural Competencies ★
(Recommended for All Attendees)

MODERATOR
- Charlene Mansour, Graduate Student, Rutgers New Jersey Medical School, Newark, NJ

SPEAKER
- Terry Watson, M.S., Penn State World Campus, University Park, PA

2:00 p.m. – 4:00 p.m.  CC - North 130
WORKSHOP 04
Leadership to Transgress: A Culturally Responsive Approach to Graduate Student Development that Challenges Dominant Leadership Norms
(Recommended for Graduate Students, Postdoctoral Scientists, and Faculty, Program Directors, and Exhibitors)

SPEAKERS
- Bruce Birren, Ph.D., Broad Institute of MIT and Harvard, Cambridge, MA
- Sherilynn Black, Ph.D., Duke University, Durham, NC
- Angela Byars-Winston, Ph.D., Institute for Diversity Science, Center for the Improvement of Mentored Experiences in Research, Collaborative Center for Health Equity, University of Wisconsin-Madison, WI
- Sonia Zárate, Ph.D., Center for the Advancement of Science Leadership & Culture, Howard Hughes Medical Institute, Chevy Chase, MD

2:00 p.m. – 4:00 p.m.  CC - North 128 A
WORKSHOP 05
NIH Insider’s View: Demystifying Peer-review for Grad Students and Postdocs
(Recommended for Graduate Students and Postdoctoral Scientists)

SPEAKERS
- Shakira Nelson, Ph.D., NIH, National Institute of General Medical Sciences, Bethesda, MD
- Sonia Ortiz-Miranda, M.Sc., Ph.D., NIH, National Institute of General Medical Sciences, Bethesda, MD
- Isaah Vincent, Ph.D., NIH, National Institute of General Medical Sciences, Bethesda, MD

2:00 p.m. – 4:00 p.m.  CC - North 128 B
WORKSHOP 06
Demystifying and Personalizing the National Science Foundation
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

SPEAKERS
- Anna Allen, Ph.D., National Science Foundation, Alexandria, VA
- Christopher Balakrishnan, Ph.D., National Science Foundation, Alexandria, VA
- Bianca Garner, Ph.D., National Science Foundation, Alexandria, VA
- Sally O’Connor, Ph.D., National Science Foundation, Alexandria, VA

★ Repeated Session
CONCURRENT NETWORKING SESSIONS (12 SESSION OPTIONS)

4:15 p.m. – 5:00 p.m.
CAREER PATHWAYS AND OPPORTUNITIES IN STEM DISCIPLINES DISCUSSION
(Recommended for All Attendees)

Biochemistry and Molecular Biology  CC - North 121
Cancer Biology  CC - North 122
Cell Biology  CC - North 224
Chemistry  CC - North 226
Computational and Systems Biology  CC - North 225
Developmental Biology and Genetics  CC - North 227
Engineering, Physics and Mathematics  CC - North 221
Immunology  CC - North 229
Microbiology  CC - North 222
Neuroscience  CC - North 231
Physiology & Pharmacology  CC - North 228
Social & Behavioral Sciences and Public Health  CC - North 232

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS (8 SESSION OPTIONS)

5:15 p.m. – 6:00 p.m.  CC - North 224
SESSION 01
Becoming Allies: Inclusion of Deaf and Hard of Hearing in Higher Education
(Recommended for All Attendees)

MODERATOR
• Patricia White, Ph.D., University of Rochester Medical Center, Rochester, NY

SPEAKERS
• Adrita Arefin, B.S., Rochester Institute of Technology, Rochester, NY
• Jessica Contreras, Ph.D., Rochester Institute of Technology, Rochester, NY
• Hannah Defelice, Rochester Institute of Technology, Rochester, NY
• Dyl Levenson, B.S., Rochester Institute of Technology, Rochester, NY
• Deirdre Schlehofer, Ph.D., Rochester Institute of Technology, Rochester, NY

5:15 p.m. – 6:00 p.m.  CC - North 121
SESSION 02
Building Meaningful Relationships in Academic and Professional Life
(Community College Students, Undergraduate Students, Postbaccalaureate Students, Graduate Students)

SPEAKERS
• Caleb McKinney, Ph.D., M.P.S., Georgetown University Medical Center, Washington, DC
• Weiwei Xu, Ph.D., Tulane University Health Sciences Center, New Orleans, LA

5:15 p.m. – 6:00 p.m.  CC - North 122
SESSION 03
Enhancing Access and Student Success through The Leadership Alliance (TLA) Workshops
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

SPEAKERS
• Gina Astorini, Ed.D., Brown University, Providence, RI
• Taiese Bingham-Hickman, Ph.D., Brown University, Providence, RI

5:15 p.m. – 6:00 p.m.  CC - North 229
SESSION 04
LGBTQIA+ Meet and Greet - Conversation on Succeeding as a Scientist
(Recommended for All Attendees)

SPEAKERS
• Ronald Hunter, Jr., Ph.D., Cardinal Health, Inc., Dublin, OH
• Manu Platt, Ph.D., NIH, National Institute of Biomedical Imaging and Bioengineering, Bethesda, MD

5:15 p.m. – 6:00 p.m.  CC - North 227
SESSION 05
Transforming the Challenges of the Supreme Court’s Harvard/UNC Rulings into a Future of Equity & Diversity in STEMM Academia & Research
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

MODERATOR
• Avery August, Ph.D., Cornell University, Ithaca, NY

SPEAKER
• Jamie Lewis Keith, J.D., Education Counsel LLC, Washington, DC

5:15 p.m. – 6:00 p.m.  CC - North 222
SESSION 06
Strategizing to Release One’s Full Potential ★
(Recommended for Graduate Students and Postdoctoral Scientists)

MODERATOR
• Robert Hall, Graduate Student, Stanford University, Stanford, CA

SPEAKER

★Repeated Session
5:15 p.m. – 6:00 p.m.  
**SESSION 07**

*The Personal Statement in the Post-SCOTUS Era* ★
(Recommended for Community College, Undergraduate, and Postbaccalaureate Students)

**SPEAKERS**
- Nicquet Blake, Ph.D., University of California, San Francisco, San Francisco, CA
- Victoria Freedman, Ph.D., Albert Einstein College of Medicine, Bronx, NY
- Nancy Schwartz, Ph.D., University of Chicago, Chicago, IL

5:15 p.m. – 6:00 p.m.  
**SESSION 08**

*What's Next After ABRCMS: Understanding National Pathway Programs Into Graduate School and Beyond* (Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

**SPEAKERS**
- Curtis Byrd, Ed.D., Academic Pipeline Project, Atlanta, GA
- Rihana Mason, Ph.D., Academic Pipeline Project, Atlanta, GA

6:00 p.m. – 6:15 p.m.  
**ABRCMS TRAVEL Awardee Meet & Greet**
(By Invitation Only)

7:30 p.m. – 8:30 p.m.  
**PREP SCHOLARS MEET & GREET**
(By Invitation Only; Recommended for current PREP scholars, PREP alumni, and PREP program directors)

**FACILITATORS**
- Candice Askwith, Ph.D., The Ohio State University, Columbus, OH
- John Shacka, Ph.D., University of Alabama at Birmingham, Birmingham, AL

7:30 p.m. – 8:30 p.m.  
**BRIDGES TO BACCALAUREATE AND BUILD PROGRAM DIRECTORS MEETING**
(Recommended for Current and Aspirational B2B and BUILD Program Directors)

**FACILITATOR**
- Paul Laybourn, Ph.D., Colorado State University, Fort Collins, CO

7:30 p.m. – 8:30 p.m.  
**MSTP-M.D./PH.D. PROGRAM DIRECTORS MEETING**
(Recommended for Current and Aspirational Directors for NIGMS Programs)

**FACILITATOR**
- José E. Cavazos, M.D., Ph.D., UT Health San Antonio, San Antonio, TX

8:30 p.m. – 9:00 p.m.  
**MAPRS PROGRAM DIRECTOR MEETING**
(By Invitation Only)

**FACILITATOR**
- Joyce A. Lloyd, Ph.D., Virginia Commonwealth University, Richmond, VA

**Thursday, November 16**

7:00 a.m. - 7:00 p.m.  
**REGISTRATION OPEN**

7:15 a.m. – 8:00 a.m.  
**CONTINENTAL BREAKFAST**
(Breakfast will be available to attendees whose hotels do not provide complimentary breakfast)
7:15 a.m. – 8:00 a.m.  CC - North 224
JUDGES MEETING
Only for Judges in the following disciplines who did NOT attend Wednesday’s Judges Meeting at 5:15 pm.

8:30 a.m. – 9:30 a.m.  CC - North Ballroom
WELCOME AND OPENING KEYNOTE ADDRESS
(Recommended for All Attendees)

GREETINGS FROM NIH
• Alison Gammie, Ph.D., National Institute of General Medical Sciences, Bethesda, MD

WELCOME REMARKS
• Avery August, Ph.D., Cornell University, Ithaca, NY

ABRCMS OPENING SCIENTIFIC KEYNOTE ADDRESS
Sleep on It: Discoveries of How Emotional and Cognitive Functions Reset During Sleep

MODERATOR
• Mary Sanchez-Lanier, Ph.D., Washington State University, Pullman, WA

SPEAKER
• Gina Poe, Ph.D., University of California, Los Angeles, CA

9:45 a.m. – 10:15 a.m.  CC - North 121
SESSION 01
What the Heme? Structures of Eukaryotic ALA Synthase Reveal Differences in Metabolic Control
(Recommended for All Attendees)

MODERATOR
• Anupama Kante, Ph.D., Avid Bioservices, Tustin, CA

SPEAKER
• Breann Brown, Ph.D., Vanderbilt University, Nashville, TN

9:45 a.m. – 10:15 a.m.  CC - North 122
SESSION 02
Why Leukemia Patients with African Ancestry Respond Poorly to Therapy
(Recommended for All Attendees)

MODERATOR
• Erica Sanchez, Ph.D., University of Texas at Dallas, Dallas, TX

SPEAKER
• H. Leighton Grimes, Ph.D., Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

9:45 a.m. – 10:15 a.m.  CC - North 224
SESSION 03
Cell Biology: Land of Image-ination
(Recommended for All Attendees)

MODERATOR
• Skylar D. King, Ph.D., University of Missouri School of Medicine, Columbia, MO

SPEAKER
• C. Patrick Lusk, Ph.D., Yale School of Medicine, New Haven, CT

9:45 a.m. – 10:15 a.m.  CC - North 225
SESSION 04
Nano-bio Interactions for Plant Genetic Engineering
(Recommended for All Attendees)

MODERATOR
• Zerihun Assefa, Ph.D., North Carolina A&T State University, Greensboro, NC

SPEAKER
• Roxana Coreas, Ph.D., University of California, Berkeley, Berkeley, CA

9:45 a.m. – 10:15 a.m.  CC - North 226
SESSION 05
What Can We Do With the Largest, Diverse Dataset?: Two Approaches Using the All of Us Workbench
(Recommended for All Attendees)

MODERATOR
• Stacy Lloyd, Ph.D., Tuskegee University, Tuskegee, AL

SPEAKERS
• Catherine Gavile, Ph.D., University of Utah, Salt Lake City, UT
• Panagiotis Katsonis, Ph.D., Baylor College of Medicine, Houston, TX

9:45 a.m. – 10:15 a.m.  CC - North 227
SESSION 06
Understanding Genetic Variation: A Matter of Taste from Individual and Community Level Perspectives
(Recommended for All Attendees)

MODERATOR
• Debra Murray, Ph.D., Baylor College of Medicine, Houston, TX

SPEAKERS
• Paule Joseph, Ph.D., National Institutes of Health, Bethesda, MD
• Krystal Tsosie, Ph.D., Arizona State University, Tempe, AZ
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<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Recommended for</th>
<th>Moderator</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:45 a.m. – 10:15 a.m.</td>
<td>CC - North 221</td>
<td>Biomedical Engineering: Making Impact on Diseases that Affect Your Community</td>
<td>All Attendees</td>
<td>Simone Douglas-Green, Ph.D., Massachusetts Institute of Technology, Cambridge, MA</td>
<td>Manu Platt, Ph.D., NIH, National Institute of Biomedical Imaging and Bioengineering, Bethesda, MD</td>
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<td>9:45 a.m. – 10:15 a.m.</td>
<td>CC - North 229</td>
<td>Why Recognize Protein When Fats Taste So Good?</td>
<td>All Attendees</td>
<td>Colwyn Headley, Ph.D., Stanford University, Stanford, CA</td>
<td>Dequina Nicholas, Ph.D., University of California Irvine, Irvine, CA</td>
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<tr>
<td>9:45 a.m. – 10:15 a.m.</td>
<td>CC - North 222</td>
<td>Microbes Cruising the Atmosphere</td>
<td>All Attendees</td>
<td>Emma Amissah, Ph.D., Columbia University, New York City, NY</td>
<td>Lizbeth Davila-Santiago, Ph.D., University of Puerto Rico, Arecibo, PR</td>
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<td>Natasha DeLeon-Rodriguez, Ph.D., Inter American University of Puerto Rico, San Juan, PR</td>
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<td>9:45 a.m. – 10:15 a.m.</td>
<td>CC - North 223</td>
<td>Can Cannabinoids Be an Alternative to Opioids in Chronic Pain Relief?</td>
<td>All Attendees</td>
<td>Cezar Borba, Ph.D., University of Florida, Gainesville, FL</td>
<td>Michael Burton, Ph.D., The University of Texas at Dallas, Dallas, TX</td>
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<tr>
<td>10:30 a.m. – 11:15 a.m.</td>
<td>CC - North 222</td>
<td>Centering Racial and Cultural Identity in Inclusive Science Communication</td>
<td>All Attendees</td>
<td>Maija Brown, Ph.D., University of Minnesota, Minneapolis, MN</td>
<td>Danielle Watt, Ph.D., University of Connecticut Health, Storrs, CT</td>
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CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS
(8 SESSION OPTIONS)
10:30 a.m. – 11:15 a.m.  CC - North 224
SESSION 02
Cracking the Code: Unlocking Success in Applying for Burroughs Wellcome Fund’s CASI and PDEP Postdoctoral Grants by Getting into Reviewer’s Heads
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitor)

SPEAKERS
• Tammy Collins, Ph.D., Burroughs Wellcome Fund, Research Triangle Park, NC
• Alfred Mays, M.S., Burroughs Wellcome Fund, Research Triangle Park, NC

10:30 a.m. – 11:15 a.m.  CC - North 232
SESSION 03
Cultivating Equitable Ecosystems in Academia: An Examination of the Intersection between Power, Fear, and Equity
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

SPEAKERS
• Sherilynn Black, Ph.D., Duke University, Durham, NC
• Beronda Montgomery, Ph.D., Grinnell College, Grinnell, IA

10:30 a.m. – 11:15 a.m.  CC - North 226
SESSION 04
Decisions, Decisions, Decisions: To Gap Year or Not?
(Recommended for Students interested in the Gap Year)

SPEAKERS
• Myles Akabas, M.D., Ph.D., Albert Einstein College of Medicine, New York, NY
• Lawrence ‘Skip’ Brass, M.D., Ph.D., University of Pennsylvania, Philadelphia, PA
• Tameka Clemons, Ph.D., University of Houston, Houston, TX
• Kimberly Williams, Ph.D., Spelman College, Atlanta, GA
• Megan Williams, Ph.D., Vanderbilt University, Nashville, TN

10:30 a.m. – 11:15 a.m.  CC - North 225
SESSION 05
Enhancing Professional Skills for Scientists: Beyond the Bench ★
(Recommended for Community College, Undergraduate, Postbaccalaureate, and Graduate Students)

SPEAKERS
• Emily Harms, Ph.D., The Rockefeller University, New York, NY
• Andrea Morris, Ph.D., The Rockefeller University, New York, NY
• Ashton Murray, Ph.D., The Rockefeller University, New York, NY

10:30 a.m. – 11:15 a.m.  CC - North 231
SESSION 06
Entrepreneurial Initiatives at NIH for Early Career Stages
(Recommended for Graduate Students, Postdoctoral Scientists and Faculty)

SPEAKERS
• Eddie Billingslea, Ph.D., NIH, National Institute of General Medical Sciences, Bethesda, MD
• Stephanie Davis, Ph.D., NIH, National Heart, Lung, and Blood Institute, Bethesda, MD
• Rajesh Kumar, Ph.D., NIH, National Institute on Aging, Bethesda, MD

10:30 a.m. – 11:15 a.m.  CC - North 228
SESSION 07
How We Learn…And How We Don’t ★
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

MODERATOR
• Robert Hall, Graduate Student, Stanford University, Stanford, CA

SPEAKER
• Robert A. Duke, Ph.D., The University of Texas at Austin, Austin, TX

10:30 a.m. – 11:15 a.m.  CC - North 221
SESSION 08
MD-PhD, Is It Right of Me? ★
(Recommended for Students interested in the M.D., Ph.D. track)

MODERATOR
• Jason A. Wertheim, M.D., Ph.D., University of Arizona College of Medicine, Tucson, AZ

SPEAKER
• Juanita Merchant, M.D., Ph.D., University of Arizona College of Medicine, Tucson, AZ

STUDENT PANELISTS
• Eric Barrientos, University of Colorado School of Medicine, Anschutz, CO
• Jonathan Do, University of Arizona College of Medicine - Phoenix, Phoenix, AZ
• Jazmine Grant, University of Texas Health, Houston, TX
• Ateh Zinkeng, University of Arizona, Tucson, AZ

★ Repeated Session
10:30 a.m. – 11:15 a.m.  
**SESSION 09**  
Navigating the Job Market: From Application to Negotiation  
(Recommended for Graduate Students and Postdoctoral Scientists)  

**MODERATOR**  
- Shaikhah Alshuaib, Graduate Student, Boston University, Boston, MA  

**SPEAKER**  
- Tamica Sears, M.A., Sears Coaching, Tempe, AZ

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10:30 a.m. – 11:15 a.m.  
**SESSION 10**  
Picking the Perfect Graduate Program for You ★  
(Recommended for Students interested in the Ph.D. track)  

**MODERATOR**  
- Sarah Olson, Graduate Student, University of Arizona, Tucson, AZ  

**SPEAKER**  
- Natasha Lugo-Escobar, Ph.D., National Institutes of Health, OITE-Postbac Enrichment Program, Bethesda, MD

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10:30 a.m. – 11:15 a.m.  
**SESSION 11**  
Resiliency and Managing Burnout in STEM  
(Recommended for All Attendees)  

**SPEAKERS**  
- Lillian J. Brady, Ph.D., Vanderbilt University Medical Center, Nashville, TN  
- Antentor Hinton, Jr., Ph.D., Vanderbilt University, Nashville, TN  
- Melanie McReynolds, Ph.D., Pennsylvania State University, University Park, PA

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10:30 a.m. – 11:15 a.m.  
**SESSION 12**  
Time Management and Goal Setting  
(Community College Students, Undergraduate Students, Postbaccalaureate Students, Graduate Students)  

**MODERATOR**  
- Akua Mensah, Graduate Student, Albert Einstein College of Medicine, Bronx, NY  

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

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**CONCURRENT SCIENTIFIC FLASH TALKS (12 SESSION OPTIONS)**

11:30 a.m. – 11:45 a.m.  
**SESSION 01**  
Get the Dose Right: Biologic Agonist Dosing Considerations  
(Recommended for All Attendees)  

**MODERATOR**  
- Anupama Kante, Ph.D., Avid Bioservices, Tustin, CA  

**SPEAKER**  
- Ebehiremen Ayewoh, Ph.D., Genentech, San Francisco, CA

11:30 a.m. – 11:45 a.m.  
**SESSION 02**  
Revolutionizing Liver Cancer Treatment  
(Recommended for All Attendees)  

**MODERATOR**  
- Cathy Gavile, Ph.D., University of Utah, Salt Lake City, UT  

**SPEAKER**  
- Mehdi Zreik, M.S., Wayne State University School of Medicine, Detroit, MI

11:30 a.m. – 11:45 a.m.  
**SESSION 03**  
Autophagy Regulation in Human Disease: From Cancer to Neurodegeneration  
(Recommended for All Attendees)  

**MODERATOR**  
- Skylar D. King, Ph.D., University of Missouri School of Medicine, Columbia, MO  

**SPEAKER**  
- Anthony Venida, Ph.D., University of California, San Francisco, San Francisco, CA

11:30 a.m. – 11:45 a.m.  
**SESSION 04**  
Chemistry to Shed Light on Biology  
(Recommended for All Attendees)  

**MODERATOR**  
- Zerihun Assefa, Ph.D., North Carolina A&T State University, Greensboro, NC  

**SPEAKER**  
- John C. Jewett, Ph.D., University of Arizona, Tucson, AZ

★ Repeated Session
11:30 a.m. – 11:45 a.m.  CC - North 225  
SESSION 05  
Computational Odyssey: Molecular Marvels in Structural Biology  
(Recommended for All Attendees)  

MODERATOR  
• Nicole Rockweiler, Ph.D., The Broad Institute, Cambridge, MA  

SPEAKER  
• Mert Gur, Ph.D., University of Pittsburgh, Pittsburgh, PA  

11:30 a.m. – 11:45 a.m.  CC - North 227  
SESSION 06  
Using Genomic Technology To Improve Human Health in Inclusive Ways  
(Recommended for All Attendees)  

MODERATOR  
• Farhat Avin, Ph.D., Tennessee State University, Nashville, TN  

SPEAKER  
• Robin Aguilar, B.A., Ph.D., University of Washington, Seattle, WA  

11:30 a.m. – 11:45 a.m.  CC - North 221  
SESSION 07  
Disparities in Pulse Oximetry Standards and Performance  
(Recommended for All Attendees)  

MODERATOR  
• Simone Douglas-Green, Ph.D., Massachusetts Institute of Technology, Cambridge, MA  

SPEAKER  
• Joshua Burrow, Ph.D., Brown University, Providence, RI  

11:30 a.m. – 11:45 a.m.  CC - North 229  
SESSION 08  
Comorbidities, Immunity, and Cancer  
(Recommended for All Attendees)  

MODERATOR  
• Colwyn Headley, Ph.D., Stanford University, Stanford, CA  

SPEAKER  
• Curtis Henry, Ph.D., Emory University, Atlanta, GA  

11:30 a.m. – 11:45 a.m.  CC - North 222  
SESSION 09  
Microbes as Solutions to Climate Change  
(Recommended for All Attendees)  

MODERATOR  
• Emma Amissah, Ph.D., Columbia University, New York City, NY  

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

11:30 a.m. – 11:45 a.m.  CC - North 231  
SESSION 10  
Promoting Inclusion in Neurorehabilitation Research  
(Recommended for All Attendees)  

MODERATOR  
• Cezar Borba, Ph.D., University of Florida, Gainesville, FL  

SPEAKERS  
• Natalia Sánchez, Ph.D., Chapman University, Irvine, CA  
• Sydney Schaefer, Ph.D., Arizona State University, Tempe, AZ  

11:30 a.m. – 11:45 a.m.  CC - North 228  
SESSION 11  
Pathways to Careers in Pharmacy and Pharmaceutical Sciences  
(Recommended for All Attendees)  

MODERATOR  
• Khaja Shameem Mohammed Abdul, Ph.D., Huntington Medical Research Institutes, Pasadena, CA  

SPEAKER  
• Julio Duarte, Pharm.D., Ph.D., University of Florida, Gainesville, FL  

12:00 p.m. – 1:00 p.m.  CC - North Hall A–D  
NETWORKING LUNCH BY SCIENTIFIC DISCIPLINES  
(refer to color chart)
1:15 p.m. – 2:00 p.m.  
**KEYNOTE ADDRESS**  
**Interview with Edward (Eddie) Npodu**  
(Recommended for All Attendees)  

**MODERATOR**  
• Tracy Johnson, Ph.D. University of California, Los Angeles, Los Angeles, CA  

**SPEAKER**  
• Edward (Eddie) Npodu, Human Rights Activist

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**EXHIBIT & POSTER HALL AND THEATER SPOTLIGHTS**  
2:15 p.m. – 6:30 p.m.  
[CC - North Lower Level Hall 4–6]  
**EXHIBIT AND POSTER HALL OPEN**

2:15 p.m. – 3:30 p.m.  
[CC - North Lower Level Hall 4–6]  
**POSTER SESSION 1 (A)**

2:45 p.m. – 3:15 p.m.  
[CC - Exhibit Hall Theater]  
**SESSION 01**  
**Fork in The Road: Mapping Industry vs. Academia**  
(Recommended for All Attendees)

**SPEAKERS**  
• James Beck, Ph.D., Eli Lilly & Company, Indianapolis, IN  
• Carmen Gonzalez-Ferrer, M.Sc., Eli Lilly & Company, Indianapolis, IN

3:30 p.m. – 4:00 p.m.  
[CC - Exhibit Hall Theater]  
**SESSION 02**  
**NIH/NICHD Training Opportunities and Leveraging Your Biomedical Experience Into a Clinical Research Career**  
(Recommended for All Attendees)

**SPEAKERS**  
• Sujata Bardhan, M.S., Ph.D., NIH, National Institute of Child Health and Human Development, Bethesda, MD  
• Joe Gindhart, Ph.D., NIH, National Institute of Child Health and Human Development, Bethesda, MD  
• Abisola Tepe, Pharm.D., R.Ph., P.M.P., NIH, National Institute of Child Health and Human Development, Bethesda, MD

3:45 p.m. – 5:00 p.m.  
[CC - North Lower Level Hall 4–6]  
**POSTER SESSION 2 (B)**

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4:15 p.m. – 4:45 p.m.  
[CC - Exhibit Hall Theater]  
**SESSION 03**  
**Who Owns It? Careers in Patent Law**  
(Recommended for All Attendees)

**SPEAKERS**  
• Yasar Diab, M.S., Finnegan, Henderson, Farabow, Garrett & Dunner, LLP, Washington, DC  
• Rae Hunter, Ph.D., Finnegan, Henderson, Farabow, Garrett & Dunner, LLP, Atlanta, GA

5:00 p.m. – 5:30 p.m.  
[CC - Exhibit Hall Theater]  
**SESSION 04**  
**FDA Overview and Navigating the Federal Hiring Process**  
(Recommended for All Attendees)

**SPEAKER**  
• La’Nissa Brown-Baker, Ph.D., D.A.B.T., US Food and Drug Administration (FDA), Rockville, MD

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5:15 p.m. – 6:30 p.m.  
[CC - North Lower Level Hall 4–6]  
**POSTER SESSION 2 (C)**

5:45 p.m. – 6:15 p.m.  
[CC - Exhibit Hall Theater]  
**SESSION 05**  
**Turning Innovations Into Impact: Careers in Tech Transfer**  
(Recommended for All Attendees)

**SPEAKER**  
• Michael Woods, M.S., Technology Commercialization, University of Minnesota, Minneapolis, MN

6:45 p.m. – 7:45 p.m.  
[CC - North Hall A-D]  
**NETWORKING DINNER**

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**CONCURRENT STUDENT ORAL PRESENTATIONS**  
8:00 p.m. – 9:15 p.m  
**STUDENT ORAL PRESENTATIONS 1**  
(Recommended for All Attendees)

**Oral Session 1: Biochemistry and Molecular Biology and Chemistry**  
[CC - North 224]

**MODERATOR**  
• Juan Ramírez Lugo, Ph.D., University of Puerto Rico, Río Piedras, PR

**PRESENTERS**  
• 0-001 Nusrat Islam  
• 0-002 Cesar Martinez  
• 0-003 Ismael Wane  
• 0-004 Yolanda Torres  
• 0-005 Andrew Ireland
Oral Session 1: Biochemistry and Molecular Biology and Neuroscience

**MODERATOR**
- Charles Bevins, M.D., Ph.D., University of California, Davis, Davis, CA

**PRESENTERS**
- O-006 Attia Robinson
- O-007 JaNya Brown
- O-008 Stephany Chuquimarca
- O-010 Ashley Person

Oral Session 1: Cancer Biology

**MODERATOR**
- Manu Platt, Ph.D., National Institutes of Health, Bethesda, MD

**PRESENTERS**
- O-011 Uchechi Asika
- O-012 Justin Bromell
- O-014 Zaria Herriman
- O-015 Shaunaee Smith

Oral Session 1: Cell Biology and Developmental Biology and Genetics

**MODERATOR**
- Tracy Johnson, Ph.D., University of California, Los Angeles, CA

**PRESENTERS**
- O-017 Jakya Bethea
- O-018 Alana Powell
- O-019 Andrew Opincar
- O-020 Alex Flores

Oral Session 1: Computational and Systems Biology

**MODERATOR**
- Bolaji Thomas, Ph.D., Rochester Institute of Technology, Rochester, NY

**PRESENTERS**
- O-021 Sabbir Hossain
- O-022 Dylan Agymang
- O-024 Alexandria Johnson
- O-025 Alice Frederick

Oral Session 1: Developmental Biology, Genetics and Immunology

**MODERATOR**
- Marlene de la Cruz, Ph.D., University of California, Irvine, CA

**PRESENTERS**
- O-026 Katelyn King
- O-027 Ogechukwu Ogbogu
- O-028 Cyrille Teforlack
- O-029 Devin Gee
- O-030 Eduardo Zarate Martinez

Oral Session 1: Engineering, Physics and Mathematics

**MODERATOR**
- Angela Alexander-Bryant, Ph.D., Clemson University, Clemson, SC

**PRESENTERS**
- O-031 Karen Harrison
- O-032 Trevor Hughes
- O-033 James Owens
- O-034 Andrea Rivera
- O-035 Karah Moore

Oral Session 1: Immunology

**MODERATOR**
- Cherié Butts, Ph.D., Biogen, Cambridge, MA

**PRESENTERS**
- O-036 Laura Arroyo
- O-037 Katherine Gu
- O-038 Amanda Ng
- O-039 Gabriela Santos
- O-040 Yeongseo Son

Oral Session 1: Neuroscience and Social and Behavioral Sciences and Public Health

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

**PRESENTERS**
- O-041 Bapange Kasonga
- O-042 Adriana Pinheiro Machado
- O-043 Olivia Sconyers
- O-044 Anica Acuna
- O-045 Chanasei Ziemann

Oral Session 1: Physiology and Pharmacology

**MODERATOR**
- Amanda Marie James, Ph.D., Emory University, Atlanta, GA

**PRESENTERS**
- O-051 Abigail Carr
- O-052 Sera Chase
- O-053 Alena Thotam
- O-054 Enrique Valenzuela Lesme
- O-055 Nina Shaffer
Oral Session 1: Social and Behavioral Sciences and Public Health

**MODERATOR**
- Lisa Barnes, Ph.D., Rush University, Chicago, IL

**PRESENTERS**
- O-056 Zara McPartland
- O-057 Kennedi Sullivan
- O-058 Cayla Cruz
- O-059 Angela Cuccio
- O-060 Elaijah Lapay

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**Friday, November 17**

7:00 a.m. - 7:00 p.m.  
REGISTRATION OPEN

7:15 a.m. – 8:00 a.m.  
CONTINENTAL BREAKFAST
(Breakfast will be available to attendees whose hotels do not provide complimentary breakfast)

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**CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS (8 SESSION OPTIONS)**

**8:30 a.m. – 9:15 a.m.**  
**CC - North 231**
**SESSION 01**
Better Letters: How To Write and Evaluate Letters of Recommendation for PEER (Persons Excluded Based on Ethnicity or Race) Applicants
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

**MODERATOR**
- Jeremy Boutin, Graduate Student, Washington State University, Pullman, WA

**SPEAKER**
- Joyce Pieretti, Ph.D., Oregon Health and Science University, Portland, OR

**8:30 a.m. – 9:15 a.m.**  
**CC - North 121**
**SESSION 02**
Crawl, Walk, Run: Exploring the Road to Cultural Competencies
(Recommended for Community College, Undergraduate, and Postbaccalaureate Students)

**MODERATOR**
- Charlene Mansour, Graduate Student, Rutgers New Jersey Medical School, Newark, NJ

**SPEAKER**
- Terry Watson, M.S., Penn State World Campus, University Park, PA

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**8:30 a.m. – 9:15 a.m.**  
**CC - North 229**
**SESSION 03**
Developing Your Personal Brand as an Emerging Scholar
(Recommended for All Students)

**MODERATOR**
- Shaikhah Alshuaib, Graduate Student, Boston University, Boston, MA

**SPEAKER**
- Tamica Sears, M.A., Sears Coaching, Tempe, AZ

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**8:30 a.m. – 9:15 a.m.**  
**CC - North 122**
**SESSION 04**
Enhancing Professional Skills for Scientists: Beyond the Bench
(Recommended for Community College, Undergraduate, Postbaccalaureate, and Graduate Students)

**SPEAKERS**
- Emily Harms, Ph.D., The Rockefeller University, New York, NY
- Andrea Morris, Ph.D., The Rockefeller University, New York, NY
- Ashton Murray, Ph.D., The Rockefeller University, New York, NY

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**8:30 a.m. – 9:15 a.m.**  
**CC - North 225**
**SESSION 05**
Fostering a Healthy Learning Environment: Strategies for Self Advocacy and Mentoring Up
(Recommended for All Attendees)

**SPEAKER**
- Hallie Dowling-Huppert, M.Ed., Massachusetts Institute of Technology, Cambridge, MA

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**8:30 a.m. – 9:15 a.m.**  
**CC - North 228**
**SESSION 06**
Graduate Admissions: Maximizing Equity & Minimizing Risk in a Post-SCOTUS Landscape
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

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

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

★ Repeated Session
8:30 a.m. – 9:15 a.m.  CC - North 224
SESSION 07
Holistic Admissions in Your Graduate Program
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

MODERATOR
- Gabrielle Rozumek, Graduate Student, University of Michigan, Ann Arbor, MI

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

8:30 a.m. – 9:15 a.m.  CC - North 232
SESSION 08
NIGMS Workforce Development and Research Training Grant Funding
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

SPEAKERS
- Sydella Blatch, Ph.D., NIH, National Institute of General Medical Sciences, Bethesda, MD
- Marie Harton, Ph.D., NIH, National Institute of General Medical Sciences, Bethesda, MD

8:30 a.m. – 9:15 a.m.  CC - North 222
SESSION 09
NIH Research Training Opportunities for Individual Applicants, From Graduate Student to Early Career Faculty
(Recommended for Graduate Students and Postdoctoral Scientists)

SPEAKERS
- Shakira Nelson, Ph.D., NIH, National Institute of General Medical Sciences, Bethesda, MD
- Patrick Still, Ph.D., NIH, National Center for Complementary and Integrative Health, Bethesda, MD

8:30 a.m. – 9:15 a.m.  CC - North 221
SESSION 10
Strategic Networking: Cultivating Your Career Support Network
(Recommended for Graduate Students and Postdoctoral Scientists)

SPEAKERS
- Heather Dillon, M.Sc., B.S., University of California, San Diego, La Jolla, CA
- B. Bea Rajansomith, M.B.A., B.A., Salk Institute for Biological Studies, La Jolla, CA

8:30 a.m. – 9:15 a.m.  CC - North 227
SESSION 11
The Personal Statement in the Post-SCOTUS Era
(Recommended for Community College, Undergraduate, and Postbaccalaureate Students)

SPEAKERS
- Nicquet Blake, Ph.D., University of California, San Francisco, San Francisco, CA
- Victoria Freedman, Ph.D., Albert Einstein College of Medicine, Bronx, NY
- Nancy Schwartz, Ph.D., University of Chicago, Chicago, IL

8:30 a.m. – 9:15 a.m.  CC - North 226
SESSION 12
Using AI/ChatGPT to Write Scientific Manuscripts in Biomedical Research: Best Practices and Caution
(Recommended for Community College, Undergraduate, Postbaccalaureate, and Graduate Students)

MODERATOR
- Sarah Olson, Graduate Student, University of Arizona, Tucson, AZ

SPEAKER
- Demelah Areda, Ph.D., Ottawa University, Ottawa, KS

CONCURRENT SCIENTIFIC EXPERT LECTURES (12 SESSION OPTIONS)

9:30 a.m. – 10:00 a.m.  CC - North 121
SESSION 01
Cycling of NAD+ Precursors Between the Host Tissues and Gut Microbiome
(Recommended for All Attendees)

MODERATOR
- Anupama Kante, Ph.D., Avid Bioservices, Tustin, CA

SPEAKER
- Melanie McReynolds, Ph.D., Pennsylvania State University, University Park, PA

9:30 a.m. – 10:00 a.m.  CC - North 122
SESSION 02
Novel Approaches for Therapeutic Target Identification in Cancer
(Recommended for All Attendees)

MODERATOR
- Cathy Gavile, Ph.D., University of Utah, Salt Lake City, UT

SPEAKERS
- Claudia Benavente, Ph.D., University of California, Irvine, Irvine, CA
- Thomas Martinez, Ph.D., University of California, Irvine, Irvine, CA

Repeated Session
9:30 a.m. - 10:00 a.m.  CC - North 224
SESSION 03
A Reason To Die: Necroptotic Cell Death, Stress and Virus Infection
(Recommended for All Attendees)
MODERATOR
• Skylar D. King, Ph.D., University of Missouri School of Medicine, Columbia, MO

SPEAKERS
• Bert Jacobs, Ph.D., Arizona State University, Tempe, AZ
• Morgan Woolridge, B.S., Arizona State University, Tempe, AZ

9:30 a.m. – 10:00 a.m.  CC - North 226
SESSION 04
Applications of Chemical Imaging Techniques in Microbial Ecology
(Recommended for All Attendees)
MODERATOR
• Kazuhiro Sonoda, Ph.D., M.B.A., Heritage University, Toppenish, WA

SPEAKERS
• Xavier Mayali, Ph.D., Lawrence Livermore National Laboratory, Livermore, CA
• Laura Sanchez, Ph.D., University of California, Santa Cruz, CA

9:30 a.m. – 10:00 a.m.  CC - North 225
SESSION 05
Biological Determinants of Racial and Ethnic Disparities in Cancer
(Recommended for All Attendees)
MODERATOR
• Nicole Rockweiler, Ph.D., The Broad Institute, Cambridge, MA

SPEAKER
• Nyasha Chambwe, Ph.D., Feinstein Institutes for Medical Research, Manhasset, NY

9:30 a.m. – 10:00 a.m.  CC - North 227
SESSION 06
Unmasking Selective Functions of Extracellular Signal-Regulated Kinase 1/2 Signaling in the Developing Cerebral Cortex
(Recommended for All Attendees)
MODERATOR
• Farhat Avin, Ph.D., Tennessee State University, Nashville, TN

SPEAKER
• Jason M. Newbern, Ph.D., Arizona State University, Tempe, AZ

11:15 a.m. – 12:00 p.m.  CC - North 221
SESSION 07
Using Mathematics to Investigate Retina Degeneration
(Recommended for All Attendees)
MODERATOR
• Simone Douglas-Green, Ph.D., Massachusetts Institute of Technology, Cambridge, MA

SPEAKER
• Erika Tatiana Camacho, Ph.D., The University of Texas at San Antonio, San Antonio, TX

9:30 a.m. – 10:00 a.m.  CC - North 229
SESSION 08
Preclinical Drug Discovery of NLRP3 Inflammusosome Inhibitors
(Recommended for All Attendees)
MODERATOR
• Diana Elizondo, Ph.D., National Institute of Child Health and Human Development, Bethesda, MD

SPEAKER
• Amol Kulkarni, Ph.D., Howard University, Washington, DC

9:30 a.m. – 10:00 a.m.  CC - North 222
SESSION 09
Scaling Up Bacteriophage Hunting in Resource-Poor Countries: An Affordable Solution to Tackle Multidrug Resistance
(Recommended for All Attendees)
MODERATOR
• Emma Amissah, Ph.D., Columbia University, New York City, NY

SPEAKER
• Liesl Jeffers-Francis, Ph.D., North Carolina A&T State University, Greensboro, NC

9:30 a.m. – 10:00 a.m.  CC - North 231
SESSION 10
Racism, Health Literacy, and Stroke: A Hip Hop Public Health Approach
(Recommended for All Attendees)
MODERATOR
• Cezar Borba, Ph.D., University of Florida, Gainesville, FL

SPEAKER
• Olajide A. Williams, Ph.D., Columbia University, New York, NY
9:30 a.m. – 10:00 a.m.  CC - North 228
SESSION 11
The Untold and Overlooked Path of Menopause
(Recommended for All Attendees)

MODERATOR
• Khaja Shameem Mohammed Abdul, Ph.D., Huntington Medical Research Institutes, Pasadena, CA

SPEAKER
• Maria Alicia Carrillo Sepulveda, Ph.D., New York Institute of Technology, New York, NY

9:30 a.m. – 10:00 a.m.  CC - North 232
SESSION 12
Future of Lay Citizen Response to the Opioid Overdose Crisis
(Recommended for All Attendees)

MODERATOR
• Obidiugwu K. Duru, M.D., M.S., University of California, Los Angeles, Los Angeles, CA

SPEAKER
• Wasantha Jayawardene, M.D., Ph.D., Southern Illinois University, Carbondale, IL

10:15 a.m. – 11:00 a.m.  CC - North Ballroom
KEYNOTE PANEL
ABRCMS Past, Present, and Future:
Discussion with Leaders
(Recommended for All Attendees)

MODERATOR
• Avery August, Ph.D., Cornell University, Ithaca, NY

SPEAKERS
• Clifton Poodry, Ph.D., University of Oregon, Eugene, OR
• Elba Serrano, Ph.D., New Mexico State University, Las Cruces, NM
• Juanita Merchant, M.D., Ph.D., University of Arizona, Tucson, AZ
• Stefano Bertuzzi, Ph.D., M.P.H., American Society for Microbiology, Washington, DC

11:15 a.m. – 12:00 p.m.  CC - North 232
SESSION 01
Graduate Admissions: Maximizing Equity & Minimizing Risk in a Post-SCOTUS Landscape ★
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

MODERATOR
• Avery August, Ph.D., Cornell University, Ithaca, NY

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

11:15 a.m. – 12:00 p.m.  CC - North 231
SESSION 02
How We Learn…And How We Don’t ★
(Recommended for Postdoctoral Scientists, Faculty, Program Directors, and Exhibitors)

MODERATOR
• Akua Mensah, Graduate Student, Albert Einstein College of Medicine, Bronx, NY

SPEAKER
• Robert A. Duke, Ph.D., The University of Texas at Austin, Austin, TX

11:15 a.m. – 12:00 p.m.  CC - North 226
SESSION 03
Lessons from Disabled Scientists
(Recommended for Community College, Undergraduate, and Postbaccalaureate Students)

SPEAKERS
• Uma Chatterjee, M.S., University of Wisconsin-Madison, Madison, WI
• Callie Mahrer, M.S., The University of Arizona College of Medicine, Phoenix, AZ
• Alyssa Paparella, B.A., Baylor College of Medicine, Houston, TX

11:15 a.m. – 12:00 p.m.  CC - North 227
SESSION 04
MD-PhD, Is It Right of Me? ★
(Recommended for Students interested in the M.D., Ph.D. track)

MODERATOR
• Jason A. Wertheim, M.D., Ph.D., University of Arizona College of Medicine, Tucson, AZ

SPEAKER
• Juanita Merchant, M.D., Ph.D., University of Arizona College of Medicine, Tucson, AZ

★ Repeated Session
STUDENT PANELISTS
• Eric Barrientos, University of Colorado School of Medicine, Anschutz, CO
• Jonathan Do, University of Arizona College of Medicine - Phoenix, Phoenix, AZ
• Jazmine Grant, University of Texas Health, Houston, TX
• Ateh Zinkeng, University of Arizona, Tucson, AZ

11:15 a.m. – 12:00 p.m.  CC - North 225
SESSION 05
Mental Health and Wellness: Our Community and Our Identity in STEM
(Recommended for All Attendees)

SPEAKERS
• Erica Sanchez, Ph.D., University of Texas at Dallas, Dallas, TX
• Danielle Williams, University of North Carolina at Chapel Hill, Chapel Hill, NC

11:15 a.m. – 12:00 p.m.  CC - North 221
SESSION 06
Navigating the Mentorship Maze: Building a Mentor Network To Support Your Goals
(Recommended for Graduate Students and Postdoctoral Scientists)

SPEAKERS
• Lauren Essler, B.S., Ph.D., Harvard Medical School, Boston, MA
• Karina Gonzalez Herrera, B.S., M.S., Ph.D., Yale School of Medicine, New Haven, CT
• Deepali Ravel, B.S., Pharm.D., Harvard T.H. Chan School of Public Health, Boston, MA
• Lilien Uchima, B.S., Ph.D., Harvard Medical School, Boston, MA

11:15 a.m. – 12:00 p.m.  CC - North 229
SESSION 07
Picking the Perfect Graduate Program for You ★
(Recommended for Students interested in the Ph.D. track)

MODERATOR
• Sarah Olson, Graduate Student, University of Arizona, Tucson, AZ

SPEAKER
• Natasha Lugo-Escobar, Ph.D., National Institutes of Health, OITE-Postbac Enrichment Program, Bethesda, MD

11:15 a.m. – 12:00 p.m.  CC - North 224
SESSION 08
Picking the Perfect Postbac
(Recommended for Community College, Undergraduate, and Postbaccalaureate Students)

MODERATORS
• Candice Askwith, Ph.D., The Ohio State University, Columbus, OH
• John Shacka, Ph.D., University of Alabama at Birmingham, Birmingham, AL

SPEAKERS
• Christiann Hatalya Gaines, Ph.D., The University of North Carolina at Chapel Hill, Chapel Hill, NC
• LaKeya Hardy, Ph.D., The University of North Carolina at Chapel Hill, Chapel Hill, NC
• Andrew Makarewicz, B.A., B.S., National Institutes of Health, Bethesda, MD
• Monn Monn Myat, Ph.D., Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

11:15 a.m. – 12:00 p.m.  CC - North 222
SESSION 09
Scientific Publishing for All: Tips and Strategies
(Recommended for Graduate Students and Postdoctoral Scientists)

SPEAKERS
• Hossam Ashour, B.Pharm., Ph.D., University of South Florida, St. Petersburg, FL
• Hatem Elshabrawy, Ph.D., Sam Houston State University, Conroe, TX

11:15 a.m. – 12:00 p.m.  CC - North 122
SESSION 10
Smashing Doubts, Building Dreams: Conquer Imposter Syndrome for a Thriving STEM Journey!
(Recommended for All Attendees)

MODERATOR
• Jeremy Boutin, Graduate Student, Washington State University, Pullman, WA

SPEAKER
• Ryan Johnson, Ph.D., Don’t Be Scared, Tulsa, OK

★ Repeated Session
ABRCMS 2023 FINAL PROGRAM

11:15 a.m. – 12:00 p.m. **CC - North 228**
SESSION 11
Strategizing to Release One’s Full Potential ★
(Recommended for Graduate Students and Postdoctoral Scientists)

MODERATOR
- Gabrielle Rozumek, Graduate Student, University of Michigan, Ann Arbor, MI

SPEAKER

11:15 a.m. – 12:00 p.m. **CC - North 121**
SESSION 12
The Ins and Outs of Graduate School
(Recommended for Community College, Undergraduate, and Postbaccalaureate Students)

MODERATOR
- Niquet Blake, Ph.D., University of California, San Francisco, CA

PANELISTS
- Kenya Bonitto, Graduate Student, University of California, San Francisco, San Francisco, CA
- Christy Eslinger, Graduate Student, Oklahoma State University Center for Health Sciences, Tulsa, OK
- Robert Hall, Graduate Student, Stanford University, Stanford, CA
- Kristopher Rapeta, Graduate Student, Washington State University, Pullman, WA
- Briana Whitehead, Graduate Student, The Johns Hopkins University, Baltimore, MD
- Estefany Yamilet Reyes, Graduate Student, Duke University, Durham, NC

11:15 a.m. – 12:00 p.m. **CC - North 128 A**
TWD-PDO STEERING COMMITTEE MEETING
(By Invitation Only)

FACILITATOR
- Joyce A. Lloyd, Ph.D., Virginia Commonwealth University, Richmond, VA

12:15 p.m. – 1:15 p.m. **CC - North Hall A–D**
NETWORKING LUNCH BY SCIENTIFIC DISCIPLINES
(refer to color chart)

1:30 p.m. – 2:15 p.m. **CC - North Ballroom**
SCIENTIFIC KEYNOTE ADDRESS
Enabling Precision Health at Scale for All
(Recommended for All Attendees)

MODERATOR
- Arturo Casadevall, M.D., M.S., Ph.D., The Johns Hopkins University, Baltimore, MD

SPEAKER
- Carlos D. Bustamante, Ph.D., Galatea Bio, Inc., Hialeah, FL

2:30 p.m. – 3:30 p.m. **CC - North 128 A**
TWD-PDO STEERING COMMITTEE AND NIH PROGRAM OFFICERS
(By Invitation Only)

FACILITATOR
- Joyce A. Lloyd, Ph.D., Virginia Commonwealth University, Richmond, VA

EXHIBIT & POSTER HALL AND THEATER SPOTLIGHTS

2:30 p.m. – 6:45 p.m. **CC - North Lower Level Hall 4–6**
EXHIBIT AND POSTER HALL OPEN

2:30 p.m. – 3:45 p.m. **CC - North Lower Level Hall 4–6**
POSTER SESSION 4 (D)

3:00 p.m. – 3:30 p.m. **CC - Exhibit Hall Theater**
SESSION 01
Playing at Coding: Having Fun While Learning To Code for Science and Salary
(Recommended for All Attendees)

SPEAKERS
- Saba Baskoylu, Ph.D., Massachusetts Institute of Technology, Cambridge, MA
- Gabriela Manzano Nieves, Ph.D., Weill Cornell Medicine, New York, NY

3:45 p.m. – 4:15 p.m. **CC - Exhibit Hall Theater**
SESSION 02
Effective Strategies for Applying to Competitive Scholarships
(Recommended for All Attendees)

SPEAKERS
- Justin Bromell, Morehouse College, Atlanta, GA
- Sebastian (Sebo) Diaz, B.S., Massachusetts Institute of Technology/Harvard University, Cambridge, MA
- John Mateja, Ph.D., Barry Goldwater Scholarship and Excellence in Education Foundation, Alexandria, VA
- Triscia Hendrickson, Ph.D., Morehouse College, Atlanta, GA

4:00 p.m. – 5:15 p.m. **CC - North Lower Level Hall 4–6**
POSTER SESSION 5 (E)

4:30 p.m. – 5:00 p.m. **CC - Exhibit Hall Theater**
SESSION 03
You Got the Interview, Now What!? How To Ace Your Behavioral-Based Interview
(Recommended for All Attendees)

SPEAKERS
- Maria Alvim-Gaston, Ph.D., Eli Lilly & Company, Indianapolis, IN
- Joel Soler, Ph.D., Eli Lilly & Company, Colorado Springs, CO

*Repeated Session*
5:15 p.m. – 5:45 p.m.  
**SESSION 04**  
Fostering a Healthy Learning Environment: Strategies for Self Advocacy and Mentoring Up  ★  
(Recommended for All Attendees)

**SPEAKER**  
- Hallie Dowling-Huppert, M.Ed., Massachusetts Institute of Technology, Cambridge, MA

5:30 p.m. – 6:45 p.m.  
**POSTER SESSION 06 (F)**

6:00 p.m. – 6:30 p.m.  
**SESSION 05**  
Using Project Management Tools in Research and in Life  
(Recommended for All Attendees)

**SPEAKERS**  
- Caleb McKinney, Ph.D., M.P.S., Georgetown University, Washington, DC  
- Elizabeth Salm, Ph.D., Georgetown University, Washington, DC

7:00 p.m.  
**DINNER ON OWN**

7:00 p.m. – 9:00 p.m.  
**UNC - CHAPEL HILL HEALTH SCIENCES RECEPTION**  
Hosted by the University of North Carolina  
(By Invitation Only)

7:00 p.m. – 9:00 p.m.  
**MICHIGAN STATE UNIVERSITY RECEPTION**  
Hosted by Michigan State University  
(By Invitation Only)

7:00 p.m. – 9:00 p.m.  
**SPD - Phoenix Ballroom**  
**SPEAKERS, EXHIBITORS, PROGRAM DIRECTORS, AND JUDGES RECEPTION**  
(By Invitation Only; Nonstudents Only)

7:00 p.m. – 9:30 p.m.  
**SPD - Encanto**  
**MOVIE NIGHT: WOMAN KING**  
(Recommended for All Attendees)

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8:00 a.m. – 9:15 a.m.  
**EXHIBITOR FEEDBACK SESSION AND BREAKFAST**  
(For Exhibitors Only)

8:30 a.m. – 9:30 a.m.  
**G-RISE PROGRAM DIRECTORS MEETING**  
(Recommended for Current and Aspirational G-RISE Program Directors)

**FACILITATOR**  
- Ruth E. Stark, Ph.D., CUNY City College of New York, New York, NY

8:30 a.m. – 9:30 a.m.  
**IMSD PROGRAM DIRECTORS MEETING**  
(Recommended for Current and Aspirational IMSD Program Directors)

**FACILITATOR**  
- Aldrin V. Gomes, Ph.D., University of California, Davis, Davis, CA

8:30 a.m. – 9:30 a.m.  
**MARC PROGRAM DIRECTORS MEETING**  
(Recommended for Current and Aspirational MARC Program Directors)

**FACILITATOR**  
- Marlene de la Cruz, Ph.D., University of California, Irvine, Irvine, CA

8:30 a.m. – 9:30 a.m.  
**PREP PROGRAM DIRECTORS MEETING**  
(Recommended for Current and Aspirational PREP Program Directors)

**FACILITATORS**  
- Candice Askwith, Ph.D., The Ohio State University, Columbus, OH  
- John Shacka, Ph.D., University of Alabama at Birmingham, Birmingham, AL

8:30 a.m. – 9:30 a.m.  
**U-RISE PROGRAM DIRECTORS MEETING**  
(Recommended for Current and Aspirational U-RISE Program Directors)

**FACILITATOR**  
- Maria Elena Zavala, Ph.D., California State University, Northridge, Northridge, CA

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**Saturday, November 18**

7:00 a.m. - 1:00 p.m.  
**CC - North Hall Lobby 4–6**  
**REGISTRATION OPEN**

7:15 a.m. – 8:00 a.m.  
**CC - North Hall A–D**  
**CONTINENTAL BREAKFAST**  
(∗∗Breakfast will be available to attendees whose hotels do not provide complimentary breakfast)
CONCURRENT STUDENT ORAL PRESENTATIONS (12 SESSION OPTIONS)

8:30 a.m. – 9:15 a.m.

STUDENT ORAL PRESENTATIONS 2
(Recommended for All Attendees)

Oral Session 2: Biochemistry and Molecular Biology (I)  CC - North 121

MODERATOR
• Charles Bevins, M.D., Ph.D., University of California, Davis, CA

PRESENTERS
• O-061 Cyrus Tau
• O-062 Elise Turner
• O-063 Joy Brewer
• O-064 Miriam Restrepo

Oral Session 2: Biochemistry and Molecular Biology (II)  CC - North 122

MODERATOR
• Gustavo Silva, Ph.D., Duke University, Durham, NC

PRESENTERS
• O-066 Naomi Leno
• O-067 Kenneth Hsu
• O-068 Angela Xiong

Oral Session 2: Cancer Biology  CC - North 224

MODERATOR
• Luisel Ricks-Santi, Ph.D., University of Florida, Gainesville, FL

PRESENTERS
• O-069 Zam Cing
• O-070 Juan Martinez
• O-072 Amara Nnawuchi

Oral Session 2: Cancer Biology and Chemistry  CC - North 226

MODERATOR
• Squire Booker, Ph.D., Pennsylvania State University, State College, PA

PRESENTERS
• O-073 Karington Perry
• O-074 Anthony Woodruff
• O-075 Devin Hemmans
• O-076 Diana Llamas

Oral Session 2: Cell Biology  CC - North 225

MODERATOR
• Brent Berwin, Ph.D., The Jackson Laboratory, Bar Harbor, ME

PRESENTERS
• O-077 Andras Bencze
• O-078 Laiith Bahlouli
• O-079 Miray Girgus
• O-080 Daria Bonds

Oral Session 2: Engineering, Physics and Mathematics  CC - North 227

MODERATOR
• Candice Eton, Ph.D., Wesleyan University, Middletown, CT

PRESENTERS
• O-081 Sacred Moseley
• O-082 Valike Tamakloe
• O-083 Samuel Lorenzo
• O-084 Sean McFadden

Oral Session 2: Immunology & Microbiology  CC - North 221

MODERATOR
• Cleber Ouverney, Ph.D., San Jose State University, San Jose, CA

PRESENTERS
• O-085 José Candelaria Marrero
• O-086 Ngoc Thao Uyen Vuong
• O-087 Samuel Cimbora
• O-088 Verónica Bado

Oral Session 2: Microbiology  CC - North 222

MODERATOR
• Michael Johnson, Ph.D., University of Arizona, Tucson, AZ

PRESENTERS
• O-089 Emily Perez
• O-090 Carolyn Ruiz-Rivera
• O-091 Meilin Scott
• O-092 Danielle Winston

Oral Session 2: Neuroscience  CC - North 229

MODERATOR
• Crystal Watkins, M.D., Ph.D., MedStar Harbor Hospital, Baltimore, MD

PRESENTERS
• O-093 Ritiha Bhalla
• O-094 Kaie Hall
• O-095 Juan Pineda
• O-096 Priscilla Ramchand
Oral Session 2: Neuroscience and Social and Behavioral Sciences and Public Health

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

**PRESENTERS**
- O-097 Yeritmary Rodríguez-Delgado
- O-098 Amara Wilcox
- O-099 Amerie Jackson
- O-100 Devon Newman

Oral Session 2: Social and Behavioral Sciences and Public Health (I)

**MODERATOR**
- Cherrie Boyer, Ph.D., University of California, San Francisco, CA

**PRESENTERS**
- O-101 Rhiannon Wagner
- O-102 Glicia Brotherson
- O-103 Samantha Cajamarca
- O-104 Rayna Carter

Oral Session 2: Social and Behavioral Sciences and Public Health (II)

**MODERATOR**
- David Córdova, Ph.D., University of Michigan, Ann Arbor, MI

**PRESENTERS**
- O-105 Fariha Haider
- O-106 Tiana Morel
- O-107 Suhaah Nadir
- O-108 Kevin Soto

9:30 a.m. – 12:00 p.m. EXHIBIT HALL OPEN

**VIRTUAL STUDENT PRESENTATIONS**

10:00 a.m. – 11:00 a.m. ePOSTER PRESENTATION SESSION 1 (VA)

11:00 a.m. – 12:00 p.m. ePOSTER PRESENTATION SESSION 2 (VB)

12:00 p.m. – 5:00 p.m. LUNCH ON OWN AND FREE TIME

**CLOSING BANQUET, KEYNOTE, AND AWARDS**

5:00 p.m. – 6:00 p.m.

**CLOSING BANQUET**
(Recommended for All Attendees)

6:15 p.m. – 7:30 p.m.

**CLOSING REMARKS AND ABRCMS ALUMNI PANEL**
(Recommended for All Attendees)

**CONFERENCE REFLECTIONS**
- Irene Hulede, ABRCMS, American Society for Microbiology, Washington, DC

**ABRCMS CLOSING KEYNOTE PANEL**
Conversations with ABRCMS Alumni: Where Are They Now?

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

**PANELISTS**
- Vladimir Diaz-Ochoa, Ph.D., University of California, Davis, Davis, CA
- Teresa Shakespeare, Ph.D., Savannah State University, Savannah, GA
- Fiorella Penaloza, D.M., University of Hawaii-West Oahu, Kapolei, HI
- Kafui Dzirasa, M.D., Ph.D., Duke University, Durham, NC

7:45 p.m. – 9:30 p.m.

**AWARDS CEREMONY AND RECOGNITION**
(Recommended for All Attendees)

**MODERATOR**
- Juan S. Ramírez Lugo, Ph.D., University of Puerto Rico, Rio Piedras, Puerto Rico

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

10:00 p.m. – 1:00 a.m.

**GAME AND DANCE SOCIAL**
(Recommended for All Attendees)
Explore the Power of Community with

ASM

Connect on a local level, join a branch or student chapter and network with peers and industry leaders in-person.

Collaborate with peers and experts world-wide in ASM Connect, our online member community.

Get a jump start on your career with ASM’s Microbiology Careers Salary Survey - view comprehensive compensation and benefits data across the microbiology industry to help you plan your career path.

Stop by ASM Booth #800 to learn more.

asm.org/join
North Building - 100 Level

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OPEN TO PHX KITCHENS
DOWNTOWN FOOD HALL BELOW

ELEVATORS TO LEVEL 100
AND PARKING GARAGE

ESCALATORS

TERRACE

WOMEN

MEN

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FLOOR PLANS

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Supporting Your Journey to Faculty Success

Are you an early-career scientist from a historically underrepresented group in microbiology and 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 historically underrepresented groups from postdoctoral positions to tenure-track faculty roles at esteemed research-intensive institutions.

**Key Goals of MOSAIC:**

- Promote Faculty Diversity
- Equip MOSAIC Scholars to Mentor Future Scientists
- Provide Mentorship Support
- Drive Diversity in the Microbial Sciences

**Program Highlights:**

- Career & Professional Development Tools: Gain foundational skills for faculty positions.
- Tenure-Track Success: Launch a successful academic career.
- Scientific Leadership: Accelerate your journey to leadership roles.

_Funded by a grant from the National Institute of Allergy and Infectious Diseases (NIAID) under award number P01107._
EXHIBIT AND POSTER HALL MAP

- **ABRCMS Info Booth**: Booth 801
- **Mentoring & Coaching Hub**: 200 aisle
- **Headshot Lounge**: 1700 aisle
- **Exhibit Hall Theater**: 1600 aisle
- **Interview/Recruiting Rooms**: 200 aisle
- **Exhibitor Lounge**: Behind Exhibit Hall Theater

**ABRCMS 2023 FINAL PROGRAM**
The ABRCMS Exhibit Hall Passport offers you the chance to win prizes while touring the latest offerings and services presented by exhibitors. Participate for your chance to win a $50 Gift Card!

Download the mobile app and scan the QR code signs located in the participating exhibitors booths. Participants fully completing scan for all exhibits by 11:00 am on Saturday, November 18th will be eligible for the drawing. Winners will be announced on Saturday in the Exhibit and Poster Hall. You do not need to be present to win.
ASM Exemplifies Inclusive Diversity with Equity, Access and Accountability (IDEAA).

IDEAA enhances innovation, broadens the health research agenda and furthers scientific advancement.

Explore IDEAA Programs
A.T. Still University .................................................. 1109
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