FINAL PROGRAM



ANNUAL BIOMEDICAL RESEARCH CONFERENCE FOR MINORITIZED SCIENTISTS



Managed by AMERICAN SOCIETY FOR MICROBIOLOGY



National Institute of General Medical Sciences



Vivien Thomas Scholars Initiative

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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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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.



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And so our theme this year is "Investing in the Future." At ABCRMS, 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



Get Connected, Stay Connected



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

Are You Interested in the Current State of Stem Careers & Research?

Dive into Career Pathways & Stay Informed with Cutting-Edge Research



ABRCMS ePoster Spring Symposium for Emerging Scientists

April 25, 2024 | 4:00 – 8:00 p.m. ET

Participate in a Free Virtual Scientific Spring Symposium

Abstract Submissions, Volunteer Opportunities, and Registration are Open!

Learn More



ABRCMS Steering Committee



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



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



Lisa Barnes, Ph.D. Rush University



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



Squire Booker, Ph.D. Penn State University



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



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



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

PARTNERSHIP AD HOC COMMITTEE



Cherié Butts, Ph.D. Biogen, Inc.



Victoria McGovern, Ph.D. Burroughs Wellcome Fund



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



ABRCMS Graduate Symposium Schedule-at-a-Glance

*All times are listed in MT.

TUESDAY, NOVEMBER 14

8:00 a.m. – 4:30 p.m. 8:30 a.m. – 9:30 a.m. 9:30 a.m. – 10:15 a.m. 10:30 a.m. – 11:15 a.m. 11:30 a.m. – 12:15 p.m. 12:30 p.m. – 1:45 p.m. 2:00 p.m. – 3:15 p.m.

3:30 p.m. – 4:15 p.m. 4:15 p.m. – 4:30 p.m. 4:30 p.m. – 6:00 p.m. 6:00 p.m. Registration Welcome & Overview General Session Concurrent Professional Development Sessions Graduate Symposium General Session Networking Lunch Doctoral-Level Graduate Student Oral Presentations Concurrent Professional Development Sessions Break General Session Dinner On Own | Free Time

WEDNESDAY, NOVEMBER 15

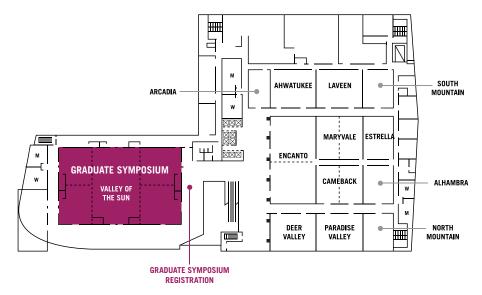
8:00 a.m. – 11:00 a.m. 8:30 a.m. – 9:15 a.m. 9:30 a.m. – 10:45 a.m.

10:45 a.m. – 11:00 a.m. 11:00 a.m. – 11:45 a.m. 12:00 p.m. – 12:30 p.m. 12:30 p.m. – 2:00 p.m. 7:30 p.m. – 9:30 p.m.

RegistrationGeneral SessionDoctoral-Level Graduate Student OralPresentationsBreakConcurrent Professional Development SessionsOpen Forum and Closing RemarksFree TimeGraduate Student Poster Presentationsand Reception



Sheraton Phoenix Downtown Hotel - 2nd Level





Stop by booth #1529 to learn more and talk with our Postbaccalaureate Interns!

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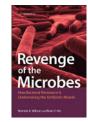


A riveting exploration of the world of science, diving headfirst into its triumphs and tribulations

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

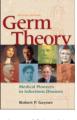


Reviews the ongoing arms race between science and bacteria's remarkable ability to adapt

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 April 2023 384 pages

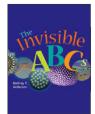


Trace the evolution of diagnostic virology from yellow fever to COVID-19

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

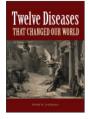


A delight for readers of all ages featuring over 250 superb illustrations including algae, molds, bacteria, protozoa, and viruses

The Invisible ABCs: Exploring the World of Microbes

Rodney P. Anderson

Hardcover 978-1-555-81386-4 September 2006 64 pages

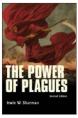


Covers the history of twelve important diseases and addresses public health responses and societal upheavals

Twelve Diseases that Changed Our World

Irwin W. Sherman Paper

978-1-555-81466-3 August 2007 240 pages

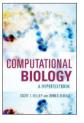


Presents a rogues' gallery of epidemic-causing microorganisms placed in the context of world history

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



AMERICAN SOCIETY FOR MICROBIOLOGY

WILEY

ABRCMS GRADUATE SYMPOSIUM PROGRAM

The ABRCMS Graduate Symposium is sponsored by: Biogen, Inc.

Tuesdav. November 14

SPD - Valley of the Sun Fover 8:00 a.m. - 4:30 p.m. GRADUATE SYMPOSIUM REGISTRATION

(Registered Graduate Students, Faculty, Program Directors)

8:30 a.m. - 9:30 a.m. **WELCOME & INTRODUCTIONS**

SPD - Valley of the Sun C

(Recommended for All Attendees)

SPEAKER

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

SPD - Valley of the Sun C 9:30 a.m. - 10:15 a.m.

My Career Journey: How to Craft your Unique Path (All Attendees)

SPEAKER

Eydith Comenencia 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

- Tamiika Hurst-Darby, Ph.D., Cincinnati Children's Research Foundation, Cincinnati, OH
- . Uma Sivaprasad, Ph.D., Cincinnati Children's Research Foundation, Cincinnati, OH

SPD - Valley of the Sun B

10:30 a.m. - 11:15 a.m.

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

SPD - Valley of the Sun D 10:30 a.m. - 11:15 a.m. 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

SPD - Valley of the Sun C 11:30 a.m. - 12:15 p.m. 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. NETWORKING LUNCH

SPD - Valley Overlook

CONCURRENT STUDENT ORAL PRESENTATIONS (5 SESSION OPTIONS)

SPD - Valley of the Sun A 2:00 p.m. - 3:15 p.m. CONCURRENT ORAL PRESENTATIONS I **Biochemistry & Chemistry**

(Recommended for All Attendees)

MODERATOR

Matt Peck, Ph.D., Washington State University, Pullman, WA

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 Ribosomeassociated 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**

- 2:39 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

2:00 p.m. – 3:15 p.m. CONCURRENT ORAL PRESENTATIONS II

Cell Biology & Physiology and Pharmacology (Recommended for All Attendees)

MODERATOR

 Bolaji Thomas, Ph.D., Rochester Institute of Technology, Rochester, NY

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 Antiinflammatory 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. CONCURRENT ORAL PRESENTATIONS III Computational and Systems Biology & Engineering,

Physics and Mathematics (Recommended for All Attendees)

MODERATOR

Pamela Lovern, Ph.D., Oklahoma State University, Stillwater, OK

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. Lauro 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 peptidedecorated 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. **ONCURRENT ORAL PRESENTATIONS IV** Immunology & Microbiology

(Recommended for All Attendees)

MODERATOR

• Erika Lutter, Ph.D., Oklahoma State University, Stillwater, OK

PRESENTERS

- 2:00 p.m. 2:10 p.m. Harmony Saunders, University of Kansas Medical Center GO-19: O-GIcNAc 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

2:52 p.m. - 3:02 p.m. Clara FLores. Clemson University GO-24: Decreased Carbohydrate Complexity Reduces

Microbial Taxonomic Redundancy of the Murine Gut

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)

MODERATOR

Jasmine George, Ph.D., Research!America, Arlington, VA

PRESENTERS

2:00 p.m. - 2:10 p.m.

Eric Stokes, University of Colorado, Anschutz Medical Campus

GO-25: Different Neurexin3aA687X mutations distinctly alters 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-UCI A

GO-29: Defects in cell polarity of Mucopolysaccharidosis type III (MPS III) forebrain neurons

3:05 p.m. - 3:15 p.m. Michelle Mendiolaza. 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. SESSION 01

SPD - Valley of the Sun A

SPD - Valley of the Sun D

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)

SPFAKERS

- Jovce Belcher. Ph.D., National Science Foundation. Alexandria, VA
- 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. SESSION 03

Postdoctoral Fellowships in Industry

Sponsored by Merck Research Laboratories

(Recommended for Graduate Students)

SPEAKER

James Goggins. Ph.D., Merck Research Laboratories. South San Francisco, CA

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

SPD - Valley of the Sun C 4:30 p.m. - 6:00 p.m. 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. Order State State

(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. **ONCURRENT ORAL PRESENTATIONS I** Biochemistry and Molecular Biology & Computational and Systems Biology & Microbiology

(Recommended for All Attendees)

MODERATOR

 Melanie McReynolds, Ph.D., Penn State University, University Park, PA

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)

MODERATOR

· Eugene Manley, Jr., Ph.D., SCHEQ Foundation, New York, NY

PRESENTERS

- 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

9:30 a.m. – 10:45 a.m. ONCURRENT ORAL PRESENTATIONS III

Developmental Biology and Genetics & Engineering, Physics and Mathematics (Recommended for All Attendees)

MODERATOR

 Michelle Juarez, Ph.D., Stony Brook University, Stony Brook, NY

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. CONCURRENT ORAL PRESENTATIONS IV

Chemistry & Microbiology & Neuroscience (Recommended for All Attendees)

MODERATOR

• Erika Lutter, Ph.D., Oklahoma State University, Stillwater, OK

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 Okeyoyin, 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 G0-54: 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)

MODERATOR

 Stefanie Varghese, Ph.D., M.B.A., FAAO, The University of Alabama at Birmingham, Birmingham, AL

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. 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. 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. 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 Kimbis, 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)

SPEAKERS

- Tiffani Fonseca, M.B.A, ABRCMS, American Society for Microbiology, Washington, DC
- Kenneth D. Gibbs, Jr., Ph.D., M.P.H., NIH, National Institute of General Medical Sciences, Bethesda, MD



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Apply to be a:

Fellow

 \checkmark

Mentor

Application Deadline: February 15, 2024



ABRCMS Conference Schedule-at-a-Glance

*All times are listed in MT.

WEDNESDAY, NOVEMBER 15

12:00 p.m. – 8:00 p.m. 2:00 p.m. – 4:00 p.m. 3:00 p.m. – 8:00 p.m. 4:15 p.m. – 5:00 p.m.

5:15 p.m. – 6:00 p.m.

6:00 p.m. – 6:15 p.m. 6:15 p.m. – 7:15 p.m. 7:30 p.m. – 8:30 p.m. 7:30 p.m. – 9:30 p.m. 7:30 p.m. – 9:30 p.m. Registration Concurrent Workshops Exhibitor Move-In Career Pathways & Opportunities in STEM Disciplines Discussion Concurrent Professional Development Sessions ABRCMS Travel Awardee Meet & Greet Networking Dinner PREP Scholars Meet & Greet Program Directors Meetings Graduate Student Poster Presentations and Reception

THURSDAY, NOVEMBER 16

7:00 a.m. – 7:00 p.m. 7:15 a.m. – 8:00 a.m. 8:00 a.m. – 12:00 p.m. 8:30 a.m. – 9:30 a.m. 9:45 a.m. – 10:15 a.m. 10:30 a.m. – 11:15 a.m.

11:30 a.m. – 11:45 a.m. 12:00 p.m. – 1:00 p.m. 1:15 p.m. – 2:00 p.m. 2:15 p.m. – 6:30 p.m. 2:15 p.m. – 3:30 p.m. 3:30 p.m. – 6:15 p.m.

3:45 p.m. – 5:00 p.m. 5:15 p.m. – 6:30 p.m. 6:45 p.m. – 7:45 p.m. 6:45 p.m. – 7:45 p.m. 8:00 p.m. – 9:15 p.m.

Registration Continental Breakfast* Exhibitor Move-In Welcome and Opening Keynote **Concurrent Scientific Expert Lecture Sessions Concurrent Professional Development** Sessions Concurrent Scientific Flash Talks Networking Lunch by Scientific Disciplines Keynote Address **Exhibit and Poster Hall Hours** Poster Session 1 (A) Professional Development 30-min Theater Spotlights (Career Pathways) Poster Session 2 (B) Poster Session 3 (C) **Networking Dinner** Affiliated Events (By Invitation Only) Student Oral Presentations

FRIDAY, NOVEMBER 17

7:00 a.m. - 7:00 p.m. 7:15 a.m. - 8:00 a.m. 8:30 a.m. - 9:15 a.m. 9:30 a.m. - 10:00 a.m. 10:15 a.m. - 11:00 a.m. 11:15 a.m. - 12:00 p.m. 12:15 p.m. - 1:00 p.m. 1:30 p.m. – 2:15 p.m. 2:30 p.m. - 6:45 p.m. 2:30 p.m. - 3:45 p.m. 3:00 p.m. - 6:30 p.m. 4:00 p.m. - 5:15 p.m. 5:30 p.m. - 6:45 p.m. 7:00 p.m. 7:00 p.m. - 9:00 p.m. 7:00 p.m. - 9:00 p.m.

7:00 p.m. – 9:30 p.m.

SATURDAY, NOVEMBER 18

7:00 a.m. - 1:00 p.m. 7:15 a.m. - 8:00 a.m. 8:00 a.m. - 9:15 a.m. 8:30 a.m. - 9:30 a.m. 8:30 a.m. - 9:30 a.m. 9:30 a.m. - 12:00 p.m. 10:00 a.m. - 11:00 a.m. 11:00 a.m. - 12:00 p.m. 12:15 p.m. - 4:00 p.m. 12:00 p.m. - 5:00 p.m. 5:00 p.m. - 6:00 p.m. 6:15 p.m. - 7:30 p.m.

7:45 p.m. – 9:30 p.m. 10:00 p.m. – 1:00 a.m.

Registration Continental Breakfast* Concurrent Professional Development Sessions **Concurrent Scientific Expert Lecture Sessions** Kevnote Address Concurrent Professional Development Sessions Networking Lunch by Scientific Disciplines Kevnote Address Exhibit and Poster Hall Hours Poster Session 4 (D) Professional Development 30-min Theater Spotlights (Enhancing Skillsets) Poster Session 5 (E) Poster Session 6 (F) FREE TIME Speakers, Exhibitors, Program Directors, and Judges Reception (Nonstudents Only) Affiliated Events (By Invitation Only) Movie Night, featuring: Woman King

Registration Continental Breakfast* Exhibitor Feedback Session Program Directors Meetings Student Oral Presentations Exhibit Hall Hours ePoster Presentation Session 1 (VA) ePoster Presentation Session 2 (VB) Exhibitor Move-Out FREE TIME Closing Banquet Closing Keynote Address & ABRCMS Alumni Panel Discussion Awards Ceremony and Recognition Game and Dance Social (All Attendees)

* 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 ABRMCS in maintaining lower registration fees each year.

GENERAL CONFERENCE INFORMATION

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.



Web Version

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
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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 ...

GENERAL CONFERENCE INFORMATION

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 RoomNorth 127 B
- Exam RoomNorth 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.







ENHANCEMENTS AND HIGHLIGHTS

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. MT,** 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.



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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?

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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!

EXHIBITOR AND JUDGES CORNER

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.

For Judges

ABRCMS Community College, Undergraduate, and Postbaccalaureate Posters Presentations will take place at the Phoenix Convention Center in 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	9 223
Cancer Biology 9	129 A
Cell Biology 9	128 A
Chemistry	9 130
Computational and Systems Biology 9	127 C
Developmental Biology and Genetics	
Engineering, Physics, and Mathematics	9 230
Immunology 💡	129 B
Microbiology	9 226
Neuroscience	
Physiology & Pharmacology	128 B
Social & Behavioral Sciences and Public Health	<mark>9</mark> 228

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

SPEAKERS, EXHIBITORS, JUDGES AND PROGRAM DIRECTORS RECEPTION

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.

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

NETWORKING MEALS BY SCIENTIFIC DISCIPLINES

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 your primary discipline tables are fully occupied, we ask that you locate a table in your secondary discipline. **See discipline color chart below.**





ABRCMS Supporters

ABRCMS would like to recognize the following universities and organizations for their support of ABRCMS 2023.

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- University of South Florida (USF) PhD Programs in College of Engineering
- University of Texas (UT) Health San Antonio GSBS

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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) Ndopu

Edward (Eddie) Ndopu 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





SCIENTIFIC EXPERT LECTURES Thursday, November 16 | 9:45 a.m. - 10:15 a.m.



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



Eating the Nucleus: a **Mechanism of Nuclear** Autophagy 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

Microbes Cruising the

University of Puerto Rico.

Arecibo, Arecibo, PR

Atmosphere



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



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

Lizbeth Davila-Santiago, Ph.D.,







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



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



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 Samantha Stewart, M.S., Vanderbilt University Medical Center/All of Us Data and Research Center, Nashville, TN

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



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



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



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



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



Autophagy Regulation in Human Disease: From Cancer to Neurodegeneration Anthony Venida, Ph.D., Stanford University, Stanford, CA



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



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



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



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



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



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



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



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



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



Biological Determinants of Racial and Ethnic Disparities in Cancer Nyasha Chambwe, Ph.D.,

Feinstein Institutes for Medical Research, Manhasset, NY



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



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 Morgan Woolridge, B.S., Arizona State University, Tempe, AZ



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 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



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



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

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A CONFERENCE FOR UNDERGRADUATE EDUCATORS NOVEMBER 15 -17, 2024 | PITTSBURGH, PA



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!



DAILY PROGRAM

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. REGISTRATION OPEN QCC - North Lobby 4–6

WORKSHOPS (6 WORKSHOP OPTIONS)

2:00 p.m. – 4:00 p.m. WORKSHOP 01

CC - North 127 C

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)

SPEAKER

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

2:00 p.m. – 4:00 p.m. WORKSHOP 03

💡 CC - North 129 B

Fair Play: Discussions about Racial Bias in STEMM (Recommended for Graduate Students and Postdoctoral

Scientists) SPEAKERS

- Donald Dantzler, M.S.E.-P.D., University of Wisconsin, Madison, Madison, WI
- Christine Pribbenow, Ph.D., University of Wisconsin, Madison, Madison, WI

2:00 p.m. – 4:00 p.m. WORKSHOP 04

CC - North 130

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. WORKSHOP 05

CC - North 128 A

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. 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

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	QCC - North 224
Chemistry	
Computational and Systems Biology	
Developmental Biology and Genetics	9CC - North 227
Engineering, Physics and Mathematics	QCC - North 221
Immunology	CC - North 229
Microbiology	CC - North 222
Neuroscience	QCC - North 231
Physiology & Pharmacology	9CC - North 228
Social & Behavioral Sciences and Public Health	

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. 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. SESSION 03

CC - North 122

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.

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. SESSION 05

QCC - North 227

© CC - North 229

Advancing a Future of Equity & Diversity in STEMM

Education & Research in the New Legal Landscape (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

CC - North 222 5:15 p.m. - 6:00 p.m. 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

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

©CC - North 121

5:15 p.m. - 6:00 p.m. SESSION 07

CC - North 231

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

©CC - North 232

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

5:15 p.m. - 6:00 p.m. JUDGES MEETING BY DISCIPLINE

(For Judges Only)

Biochemistry and Molecular Biology	9CC - North 223
Cancer Biology	♀CC - North 129 A
Cell Biology	♀CC - North 128 A
Chemistry	9CC - North 130
Computational and Systems Biology	CC - North 127 C
Developmental Biology and Genetics	9CC - North 225
Engineering, Physics and Mathematics	9CC - North 230
Immunology	
Microbiology	CC - North 226
Neuroscience	9CC - North 221
Physiology & Pharmacology	QCC - North 128 B
Social & Behavioral Sciences and Public Health	h 💡CC - North 228

6:00 p.m. - 6:15 p.m. **Outside CC by ABRCMS Sign** ABRCMS TRAVEL AWARDEE MEET & GREET

(By Invitation Only)

6:15 p.m. - 7:15 p.m. **NETWORKING DINNER**

CC - North Hall A–D

የ CC - West Ballroom 301 BCD 7:30 p.m. - 9:30 p.m. GRADUATE STUDENT POSTER PRESENTATIONS AND GRADUATE STUDENT RECEPTION

Co-sponsored by Mayo Clinic and Co-sponsored by Merck, Inc. (For Graduate Students and Postdoctoral Scientists)

7:30 p.m. - 8:30 p.m. CC - 301A West Ballroom 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

©CC - North 129 A 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

CC - North 127 C 7:30 p.m. - 8:30 p.m.

BRIDGES TO DOCTORAL PROGRAM DIRECTORS MEETING (Recommended for Current and Aspirational B2D Program Directors)

FACILITATOR

Megumi Fuse, B.Sc., M.Sc., Ph.D., San Francisco State University, San Francisco, CA

© CC - North 129 B 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

© CC - North 130 8:30 p.m. - 9:30 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

Sec - North Hall Lobby 4–6

7:15 a.m. - 8:00 a.m. CONTINENTAL BREAKFAST

💡 CC - North Hall A-D

(Breakfast will be available to attendees whose hotels do not provide complimentary breakfast)

7:15 a.m. - 8:00 a.m. JUDGES MEETING

CC - North 224

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.

OCC - 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

CONCURRENT SCIENTIFIC EXPERT LECTURES (12 SESSION OPTIONS)

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

Why Leukemia Patients with African Ancestry **Respond Poorly to Therapy**

(Recommended for All Attendees)

MODERATOR

SESSION 02

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. SESSION 03

© CC - North 224

Eating the Nucleus: a Mechanism of Nuclear Autophagy

(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 226 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

© CC - North 225 9:45 a.m. - 10:15 a.m. 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. SESSION 06

CC - North 227

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

9:45 a.m. - 10:15 a.m. SESSION 07

QCC - North 221

Biomedical Engineering: Making Impact on Diseases that Affect Your Community

(Recommended for All Attendees)

MODERATOR

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

SPEAKER

 Manu Platt, Ph.D., NIH, National Institute of Biomedical Imaging and Bioengineering, Bethesda, MD

9:45 a.m. – 10:15 a.m. SESSION 08

🛛 💡 CC - North 229

OCC - North 222

Why Recognize Protein When Fats Taste So Good? (Recommended for All Attendees)

MODERATOR

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

SPEAKER

 Dequina Nicholas, Ph.D., University of California Irvine, Irvine, CA

9:45 a.m. - 10:15 a.m.

SESSION 09

Microbes Cruising the Atmosphere

(Recommended for All Attendees)

MODERATOR

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

SPEAKERS

- Lizbeth Davila-Santiago, Ph.D., University of Puerto Rico, Arecibo, Arecibo, PR
- Natasha DeLeon-Rodriguez, Ph.D., Inter American University of Puerto Rico, San Juan, PR

9:45 a.m. - 10:15 a.m. SESSION 10

CC - North 231

Can Cannabinoids Be an Alternative to Opioids in Chronic Pain Relief?

(Recommended for All Attendees)

MODERATOR

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

SPEAKER

 Michael Burton, Ph.D., The University of Texas at Dallas, Dallas, TX

9:45 a.m. – 10:15 a.m. SESSION 11

©CC - North 228

SESSION 11 Race, Health, and the Built Microbiome

(Recommended for All Attendees)

MODERATOR

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

SPEAKER

 Joseph Graves Jr., Ph.D., North Carolina A&T State University, Greensboro, NC

9:45 a.m. – 10:15 a.m. SESSION 12 The All of Us Pesearch Program. Transforming

The All of Us Research Program: Transforming Research for All of Us (Recommended for All Attendees)

(Recommended for All Attende

MODERATOR

• Gaybe M. Moore, Ph.D., Oberlin College, Oberlin, OH

SPEAKERS

- Minnkyong Lee, Ph.D., NIH All of Us Research Program, Bethesda, MD
- Samantha Stewart, M.S., Vanderbilt University Medical Center/All of Us Data and Research Center, Nashville, TN

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS (8 SESSION OPTIONS)

10:30 a.m. - 11:15 a.m. SESSION 01

CC - North 222

Centering Racial and Cultural Identity in Inclusive Science Communication

(Recommended for Graduate Students and Postdoctoral Scientists)

SPEAKERS

- Maija Brown, Ph.D., University of Minnesota, Minneapolis, MN
- Danielle Watt, Ph.D., University of Connecticut Health, Storrs, CT

10:30 a.m. - 11:15 a.m. SESSION 02

CC - North 224

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.

QCC - 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. 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. SESSION 05

CC - North 225

Enhancing Professional Skills for Scientists: Bevond the Bench ★

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

MODERATOR

 Shaikhah Alshuaib, Graduate Student, Boston University, Boston, MA

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. SESSION 06

🖓 CC - North 231

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. QCC - 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. SESSION 08

© CC - North 221

MD-PhD, Is It Right for 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

CC - North 227

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

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

10:30 a.m. - 11:15 a.m.

QCC - North 229

©CC - North 121

SESSION 11

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

SPEAKERS

- Lillian J. Brady, Ph.D., University of Alabama at Birmingham, Birmingham, AL
- Antentor Hinton, Jr., Ph.D., Vanderbilt University, Nashville, TN
- Melanie McReynolds, Ph.D., Pennsylvania State University, University Park, PA

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

CONCURRENT SCIENTIFIC FLASH TALKS (12 SESSION OPTIONS)

11:30 a.m. - 11:45 a.m.

CC - North 121

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. QCC - North 122 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. <mark>SESSION 03</mark>

🖓 CC - North 224

© CC - North 226

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., Stanford University, Stanford, 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

11:30 a.m. - 11:45 a.m. 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. SESSION 06

🛛 💡 CC - North 227

©CC - North 225

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

Disparities in Pulse Oximetry Standards

and Performance

(Recommended for All Attendees)

MODERATOR

SESSION 07

 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. SESSION 09

🖓 CC - North 222

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. 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. SESSION 11

© CC - North 228

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

11:30 a.m. – 11:45 a.m. 💡 CC

🖓 CC - North 232

SESSION 12 How Plant Disease Shaned History - Lessons for the

How Plant Disease Shaped History – Lessons for the Future of Human Health

(Recommended for All Attendees)

MODERATOR

Gaybe M. Moore, Ph.D., Oberlin College, Oberlin, OH

SPEAKER

 Lindsey Burbank, Ph.D., United States Department of Agriculture, Parlier, CA

12:00 p.m. – 1:00 p.m. **OVER UNCH BY SCIENTIFIC DISCIPLINES** (refer to color chart)

1:15 p.m. – 2:00 p.m. KEYNOTE ADDRESS

QCC - North Ballroom

Interview with Edward (Eddie) Ndopu (Recommended for All Attendees)

MODERATOR

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

SPEAKER

Edward (Eddie) Npodu, Human Rights Activist

EXHIBIT & POSTER HALL AND THEATER SPOTLIGHTS

2:15 p.m. – 6:30 p.m. QCC - North Lower Level Hall 4–6 EXHIBIT AND POSTER HALL OPEN

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

2:45 p.m. – 3:15 p.m. 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. SESSION 02

QCC - Exhibit Hall Theater

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 Tepede, 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. QC - North Lower Level Hall 4–6 POSTER SESSION 2 (B)

4:15 p.m. – 4:45 p.m. SESSION 03

💡 CC - Exhibit Hall Theater

OCC - Exhibit Hall Theater

Who Owns It? Careers in Patent Law (Recommended for All Attendees)

(Recommended for All Attendees)

SPEAKERS

- Yasir 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. 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

5:15 p.m. – 6:30 p.m. 🖓 CC - North Lower Level Hall 4–6 POSTER SESSION 3 (C)

5:45 p.m. – 6:15 p.m. 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. NETWORKING DINNER 💡 CC - North Hall A-D

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

- O-001 Nusrat Islam
- 0-002 Cesar Martinez
- 0-003 Ismael Wane
- 0-004 Yolanda Torres
- 0-005 Andrew Ireland

©CC - North 227

🖓 CC - North 229

CC - North 228

©CC - North 231

Oral Session 1: Biochemistry OCC - North 226 and Molecular Biology and Neuroscience

MODERATOR

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

PRESENTERS

- O-006 Attia Robinson
- 0-007 JaNya Brown
- 0-008 Stephany Chuquimarca
- 0-010 Ashley Person

Oral Session 1: Cancer Biology

MODERATOR

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

PRESENTERS

- 0-011 Uchechi Asika
- 0-012 Justin Bromell
- 0-014 Zaria Herriman
- 0-015 Shaunae Smith

Oral Session 1: Cell Biology

and Developmental Biology and Genetics

MODERATOR

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

PRESENTERS

- 0-017 Jakyia Bethea
- 0-018 Alana Powell
- 0-019 Andrew Opincar
- 0-020 Alex Flores

Oral Session 1: Computational and Systems Biology

MODERATOR

 Bolaji Thomas, Ph.D., Rochester Institute of Technology, Rochester, NY

PRESENTERS

- 0-021 Sabbir Hossain
- 0-022 Dylan Agyemang
- 0-024 Alexandria Johnson
- 0-025 Alice Frederick

Oral Session 1: Developmental Biology, Genetics and Immunology

MODERATOR

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

PRESENTERS

- 0-026 Katelyn King
- 0-027 Ogechukwu Ogbogu
- 0-028 Cyrille Teforlack
- 0-029 Devin Gee
- 0-030 Eduardo Zarate Martinez

Oral Session 1: Engineering, Physics and Mathematics

MODERATOR

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

PRESENTERS

- 0-031 Karen Harrison
- 0-032 Trevor Hughes
- 0-033 James Owens
- 0-034 Andrea Rivera
- 0-035 Karah Moore

Oral Session 1: Immunology

OCC - North 121

OCC - North 122

MODERATOR

• Cherié Butts, Ph.D., Biogen, Cambridge, MA

PRESENTERS

- 0-036 Laura Arroyo
- 0-037 Katherine Gu
- O-038 Amanda Ng
- 0-039 Gabriella Santos
- 0-040 Yeongseo Son

Oral Session 1: Microbiology

MODERATOR

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

PRESENTERS

- 0-041 Bapange Kasonga
- 0-042 Adriana Pinheiro Machado
- 0-043 Olivia Sconyers
- 0-044 Anica Acuna
- 0-045 Chanasei Ziemann

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

QCC - North 222

MODERATOR

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

PRESENTERS

- 0-046 Adyasha Aruk
- 0-047 Kamilis Hernández-Alejandro
- 0-048 Katrina Jensen
- 0-049 Porter Bischoff
- 0-050 Janae McDowell

Oral Session 1: Physiology and Pharmacology

MODERATOR

Amanda Marie James, Ph.D., Emory University, Atlanta, GA

PRESENTERS

- 0-051 Abigail Carr
- 0-052 Sera Chase
- 0-053 Alena Thotam
- 0-054 Enrique Valenzuela Lesme
- 0-055 Nina Shaffer

© CC - North 232



and Public

Oral Session 1: Social and CC - North 221 Behavioral Sciences and Public Health

MODERATOR

Lisa Barnes, Ph.D., Rush University, Chicago, IL

PRESENTERS

- 0-056 Zara McPartland
- 0-057 Kennedi Sullivan
- 0-058 Cayla Cruz
- 0-059 Angela Cuccio
- 0-060 Elaijah Lapay

Friday, November 17

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

CC - North Hall Lobby 4-6

7:15 a.m. - 8:00 a.m. CONTINENTAL BREAKFAST

CC - North Hall A–D

(Breakfast will be available to attendees whose hotels do not provide complimentary breakfast)

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

8:30 a.m. - 9:15 a.m. SESSION 01

© CC - North 231

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.

OCC - North 121

SESSION 02

Crawl, Walk, Run: Exploring the Road to Cultural Competencies *

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

SPEAKER

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

8:30 a.m. - 9:15 a.m. SESSION 03

© CC - North 229

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

© CC - North 122 8:30 a.m. - 9:15 a.m. SESSION 04

Enhancing Professional Skills for Scientists: Bevond the Bench ★

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

MODERATOR

Shaikhah Alshuaib, Graduate Student, Boston University, Boston, MA

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

8:30 a.m. - 9:15 a.m. SESSION 05

© CC - North 225

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

8:30 a.m. - 9:15 a.m. SESSION 06

© CC - North 228

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

224 CC - North 224

OCC - North 232

8:30 a.m. – 9:15 a.m. 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.

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.

QCC - 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 Rajsombath, M.B.A., B.A., Salk Institute for Biological Studies, La Jolla, CA

8:30 a.m. – 9:15 a.m. SESSION 11

© CC - North 227

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. QC - North 226 SESSION 12

Using Al/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

• Demelash 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. 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.

QCC - North 226

OCC - North 224

SESSION 04

Applications of Chemical Imaging Techniques in Microbial Ecology

(Recommended for All Attendees)

MODERATOR

 Nana Ankrah, Ph.D., State University of New York-Plattsburgh, Plattsburgh, NY

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

Biological Determinants of Racial and Ethnic Disparities in Cancer

(Recommended for All Attendees)

MODERATOR

SESSION 05

 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. SESSION 08

© CC - North 229

Preclinical Drug Discovery of NLRP3 Inflammasome

(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. SESSION 09

🛛 🖓 CC - North 222

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. SESSION 10 **CC** - North 231

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. SESSION 11

QCC - North 228

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.

QCC - 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

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS (8 SESSION OPTIONS)

11:15 a.m. – 12:00 p.m. SESSION 01

©CC - North 232

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. 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. SESSION 03

QCC - North 226

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. **QCC** - North 227 SESSION 04

MD-PhD, Is It Right for 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

Toxoc at Austi-

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. SESSION 05

QCC - North 225

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.

QCC - 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., Ph.D., Harvard T.H. Chan School of Public Health, Boston, MA
- Lilen 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. SESSION 08

🖓 CC - North 224

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. SESSION 09

🖓 CC - North 222

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. SESSION 10

CC - North 122

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

11:15 a.m. – 12:00 p.m. SESSION 11

CC - North 228

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

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

11:15 a.m. – 12:00 p.m. 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. OCC - 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. **QCC** - North Hall A–D NETWORKING LUNCH BY SCIENTIFIC DISCIPLINES (refer to color chart)

1:30 p.m. – 2:15 p.m. OCC - 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 MEETING

(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. 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. 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. QCC - North Lower Level Hall 4–6 POSTER SESSION 5 (E)

4:30 p.m. – 5:00 p.m. 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. 💡 CC - Exhibit Hall Theater 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. QCC - North Lower Level Hall 4–6 **POSTER SESSION 6 (F)**

6:00 p.m. - 6:30 p.m. CC - Exhibit Hall Theater 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**

CC - North 129 A 7:00 p.m. - 9:00 p.m. **UNC - CHAPEL HILL HEALTH SCIENCES RECEPTION** Hosted by the University of North Carolina (By Invitation Only)

2 CC - North 129 B 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. MOVIE NIGHT: WOMAN KING

(Recommended for All Attendees)

Saturday, November 18

7:00 a.m. - 1:00 p.m. REGISTRATION OPEN

💡 CC - North Hall Lobby 4–6

7:15 a.m. - 8:00 a.m. CONTINENTAL BREAKFAST

\rm CC - North Hall A–D

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

©CC - North 128 A 8:00 a.m. – 9:15 a.m. EXHIBITOR FEEDBACK SESSION AND BREAKFAST

(For Exhibitors Only)

© CC - North 130

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. CC - North 129 B IMSD PROGRAM DIRECTORS MEETING

(Recommended for Current and Aspirational IMSD Program Directors)

FACIL ITATOR

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

8:30 a.m. - 9:30 a.m. CC - North 128 B 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

💡 CC - North 129 A 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**

2 CC - North 230

(Recommended for Current and Aspirational U-RISE Program Directors)

FACILITATOR

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

SPD - Encanto

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)

MODERATOR

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

PRESENTERS

- 0-061 Cyrus Tau
- 0-062 Elise Turner
- 0-063 Joy Brewer
- 0-064 Miriam Restrepo

Oral Session 2: Biochemistry and Molecular Biology (II)

MODERATOR

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

PRESENTERS

- 0-066 Naomi Leno
- 0-067 Kenneth Hsu
- 0-068 Angela Xiong

Oral Session 2: Cancer Biology

MODERATOR

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

PRESENTERS

- 0-069 Zam Cing
- 0-070 Juan Martinez
- O-072 Amara Nnawuchi

Oral Session 2: Cancer Biology and Chemistry

MODERATOR

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

PRESENTERS

- 0-073 Karington Perry
- 0-074 Anthony Woodruff
- 0-075 Devin Hemmans
- 0-076 Diana Llamas

Oral Session 2: Cell Biology

CC - North 225

MODERATOR

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

PRESENTERS

- 0-077 Andras Bencze
- 0-078 Laith Bahlouli
- 0-079 Miray Girguis
- O-080 Daria Bonds

Oral Session 2: Engineering, Physics and Mathematics

MODERATOR

 Candice Etson, Ph.D., Wesleyan University, Middletown, CT

PRESENTERS

- 0-081 Sacred Moseley
- 0-082 Valike Tamakloe
- 0-083 Samuel Lorenzo
- 0-084 Sean McFadden

Oral Session 2: Immunology & Microbiology

MODERATOR

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

PRESENTERS

- 0-085 José Candelaria Marrero
- 0-086 Ngoc Thao Uyen Vuong
- 0-087 Samuel Cimbora
- 0-088 Verónica Bado

Oral Session 2: Microbiology

MODERATOR

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

PRESENTERS

- O-089 Emily Perez
- 0-090 Carolyn Ruiz-Rivera
- 0-091 Meilin Scott
- O-092 Danielle Winston

Oral Session 2: Neuroscience

ce 🛛 🖓 CC - North 229

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

PRESENTERS

MODERATOR

- 0-093 Ritika Bhalla
- 0-094 Kaie Hall
- 0-095 Juan Pineda
- 0-096 Priscilla Ramchand



QCC - North 221

QCC - North 222

© CC - North 224

CC - North 226

CC - North 121

©CC - North 122

OCC - North 231

Oral Session 2: Neuroscience and Social and Behavioral Sciences and Public Health

MODERATOR

• Ramesh Raghupathi, Ph.D., Drexel University, Philadelphia, PA

PRESENTERS

- 0-097 Yeritmary Rodríguez-Delgado
- O-098 Amara Wilcox
- 0-099 Amerie Jackson
- 0-100 Devon Newman

Oral Session 2: Social and Oct - North 228 Behavioral Sciences and Public Health (I)

MODERATOR

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

PRESENTERS

- 0-101 Rhiannon Wagner
- 0-102 Cilicia Brotherson
- 0-103 Samantha Cajamarca
- 0-104 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

- 0-105 Fariha Haider
- 0-106 Tiana Morel
- 0-107 Suhaah Nadir
- 0-108 Kevin Soto

9:30 a.m. - 12:00 p.m.

QCC - North Hall 4-6

EXHIBIT HALL OPEN (Recommended for All Attendees)

VIRTUAL STUDENT PRESENTATIONS

10:00 a.m. – 11:00 a.m. ePOSTER PRESENTATION SESSION 1 (VA) (Recommended for All Attendees)

11:00 a.m. – 12:00 p.m. **POSTER PRESENTATION SESSION 2 (VB)** (Recommended for All Attendees)

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.

QCC - North Hall A–D

CLOSING BANQUET (Recommended for All Attendees)

6:15 p.m. – 7:30 p.m.

OC - North Ballroom

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. **WARDS 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)



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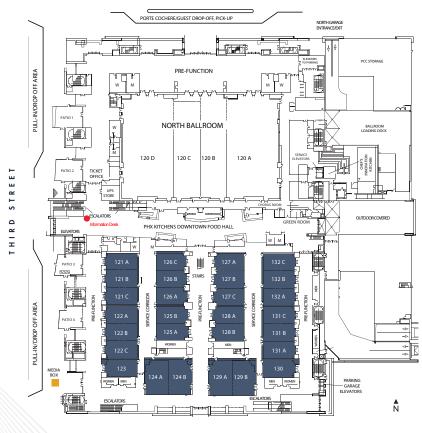
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FLOOR PLANS

North Building - 100 Level



MONROE STREET

WASHINGTON STREET

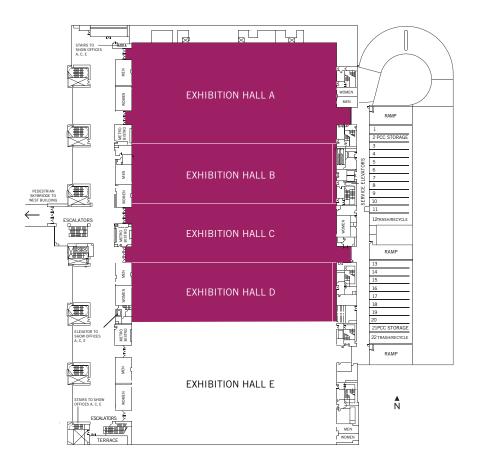
General Session	120 ABCD
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Judges Lounge	
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Oral Presentation Practice Room	
ADA Resource Room	127 B
Exam/Study Room	131 A
Exam/Study Room	131 B
Exam/Study Room	131 C

North Building - 200 Level Session Rooms

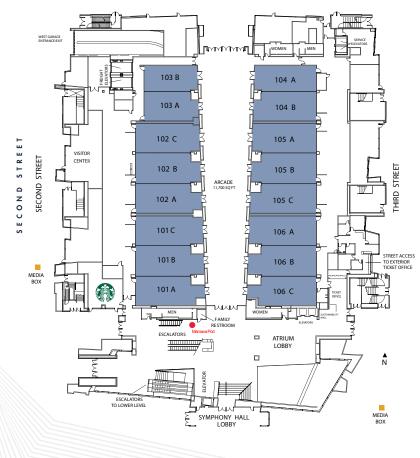
MONROE STREET



North Building - 300 Level Meal Room



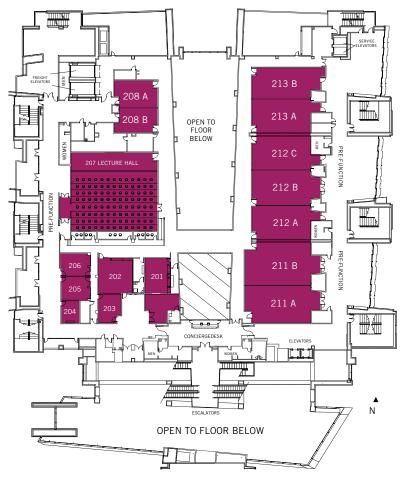
West Building - 100 Level



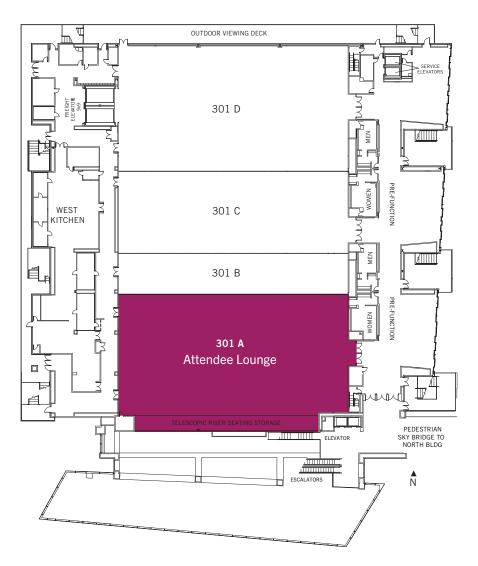
MONROE STREET

FLOOR PLANS

West Building - 200 Level



West Building - 300 Level



Poster Presentation Numbers by Scientific Discipline



Biochemistry and Molecular Biology: 001–042



Cancer Biology: 043–079



Cell Biology: 080–100



Engineering, Physics, and Mathematics: 162–185



Immunology: 186–205



Microbiology: 206–240



Chemistry: 101-122



Neuroscience: 241–296



Computational and Systems Biology: 123–139



Physiology and Pharmacology: 297–314



Developmental Biology and Genetics: 140–161



Social and Behavioral Sciences and Public Health: 315–349

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	Public Health	117–133

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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.

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- Provide Mentorship Support
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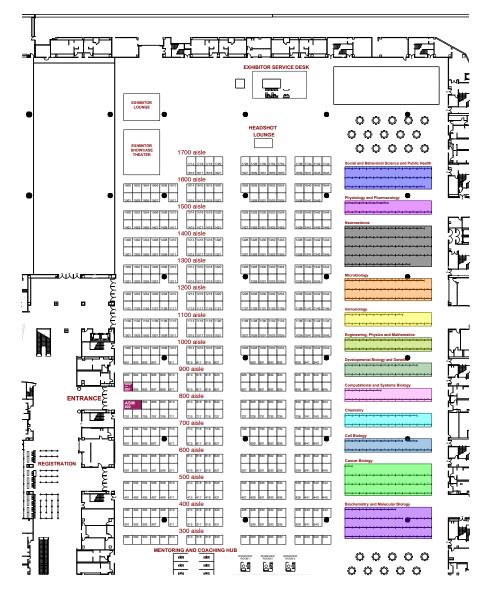
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Funded by a grant from the National Institute of Allergy and Infectious Diseases (NIAID) under award number P01107.

EXHIBIT AND POSTER HALL MAP



ABRCMS Info Booth	Booth 801
Mentoring & Coaching Hub	
Headshot Lounge	
Exhibit Hall Theater	
Interview/Recruiting Rooms	
Exhibitor Lounge	Behind Exhibit Hall Theater

EXHIBIT HALL PASSPORT

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.



517



1519



University of Missouri

1134









438



800

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