The Ph.D. in Biomolecular Sciences focuses on:

- Study of the complex nature of the molecules of biological systems as they relate to normal homeostatic and disease processes
- Development of treatments for diseases as well as preventative measures such as vaccines
- Research and development of innovative devices and methodologies in biomolecular sciences

**ASSISTANTSHIPS:**

The program offers competitive Assistantships for qualified students including an annual stipend of $25,000, plus full tuition and health insurance.

**Application Deadline:**

December 19th

Come see us!
Booth 1116

Biomolecularsciences.boisestate.edu | biomolecularphd@boisestate.edu | (208) 426-2844
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## Join the conversation!

**#ABRCMS**

Download the official conference mobile app for the most up-to-date and detailed information.

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**PROMOTING CHANGE AND TRANSFORMATION**
Welcome from Avery August

On behalf of the Annual Biomedical Research Conference for Minority Students (ABRCMS), I would like to welcome you to Phoenix, Arizona, and the 2017 meeting. This is the 17th year that we have been organizing and hosting this conference, and this year has certainly been one of change, and of transformation. We have seen change in administration, changes in societal engagement of scientists, and changes in the meeting itself. These changes make it even more imperative that ABRCMS exists. I am heartened and extremely proud that ABRCMS continues to be a transformational experience for our students.

It is therefore fitting that the theme of our meeting this year, “Promoting Change and Transformation,” focuses on positive change and transformation, both in what is happening around us, and in our students. ABRCMS is extremely proud of the role we play in transforming underrepresented students for a career STEM research. Students, faculty, exhibitors, and visitors come to ABRCMS and are transformed. Students, because we seek to inspire them join us in diversifying the biomedical research workforce, now more than ever. It is arguably one of the most exciting times for biomedical science, with the most promise to improve health, but a diverse workforce is needed to transform this promise into advances that reduce health disparities and address the effects of environmental and climate change that impact our communities. Diverse voices and backgrounds allow fresh new thinking that will lead to breakthroughs that will accomplish this. Our students will be the ones making these contributions, with ABRCMS being the start for many, given its role as arguably one of the first scientific meetings for most of the students attending.

The remarkable program has been especially curated to transform. For students, you are here to be transformed. You have done the research, prepared your posters and presentations, and now you join us as colleagues. We encourage you to take in as much as you can in this transformation. For the faculty mentors and advisors, you have worked with your students, supporting their research, and we all join you in ensuring that they fully participate in the program and experience this transformation. For the presenters, we look forward to hearing some of the best science, and to be inspired by your words; and for the exhibitors, we look forward to your full engagement with students. This is ABRCMS! Network, attend the stimulating talks on the most recent work in the biomedical and behavioral sciences, and fully engage in our discussions of the critical issues facing our community of minority scholars, and of our scientific communities.

Our hearts go out to our colleagues, students, and their families in areas affected by the devastating hurricanes, many of whom may not be able to join us this year. However, we are extremely proud of the hard work the ABRCMS Steering Committee, the ASM staff, the exhibitors (make sure to visit the booths!), and many volunteers have done to make this meeting possible. They have devoted significant time and effort preparing the program, reviewing abstracts, planning and preparing the location to host your visit, preparing materials, setting up booths, and making sure that everything is just right. This, all so that your experience is one that is transformational. I would like to thank them all for their hard work in making this meeting a success. We also are extremely 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
On behalf of the National Institutes of Health’s National Institute of General Medical Sciences, we’d like to welcome you to the 2017 Annual Biomedical Research Conference for Minority Students. We’re very proud to support this meeting, which brings together a community of outstanding students and 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, and diversity. Our programs range from the undergraduate level to the doctorate and beyond, and they include the Maximizing Access to Research Careers, Research Initiative for Scientific Enhancement, Initiative for Maximizing Student Development, and Postbaccalaureate Research Education programs. Many of you at this meeting are current or former program participants. Our programs also include institutional and faculty development through the Native American Research Centers for Health, the Support of Competitive Research Programs, as well as the Building Infrastructure Leading to Diversity initiative. Additionally, the National Institutes of Health supports the National Research Mentoring Network to enhance the training and career development of individuals from diverse backgrounds who are pursuing biomedical research careers. 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 research careers 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 biomedical career.

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
Important Conference Information

Conference Orientation for Undergraduate and Postbaccalaureate Students
Your ABRCMS orientation will help you maximize your learning and networking opportunities throughout the conference. Orientation will be held on Thursday, November 2, from 8:00 a.m. to 9:00 a.m.

ABRCMS Launches Mobile App
Mobile App at ABRCMS! Get the latest conference program, exhibitor information, conference maps and much more at your fingertips. Search for ABRCMS in your app store.

Judges Needed
Active researchers in all 12 scientific disciplines are needed to serve as judges for the ABRCMS Student Presentation Program. To volunteer as a judge, visit the judge’s lounge located next to registration.

Meal Plan Ticket
The new ABRCMS grant states that registration and meals must be uncoupled. If you did not purchase a meal plan ticket prior to arriving at the conference, you are still encouraged to participate in networking and plenary sessions during meal times. You may purchase food at any convention center food outlet and participate in the sessions. Theater seating will be provided for those who don’t participate in the meal plan.

Awards Banquet & Ceremony
The Awards Banquet & Ceremony is Saturday, November 4, from 7:30 p.m. to 9:45 p.m. The ceremony will begin promptly at 8:30 p.m. You can still participate in the awards ceremony even if you did not purchase the meal plan. Theater seating will be available to those not participating in the meal plan.

Free Wi-Fi at ABRCMS
Good news! Free Wi-Fi is available in the exhibit hall, session rooms, and convention center hallways. This service has been brought to you by a generous contribution from the American Society for Microbiology.

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

Evaluation
We are trying something new! This year we are implementing real time evaluation during sessions. Please take a few minutes to complete your evaluation 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, and every completed evaluation helps us improve future conferences.

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

Networking with Disciplinary Societies
Networking sessions with disciplinary societies will be held on Wednesday, November 1, from 4:45 to 5:45 p.m. Led by professional society members, these informal sessions offer a forum for small-group discussions focused on the student activities and career pathways offered by societies. All ABRCMS exhibitor and faculty attendees who are professional society members are strongly encouraged to attend.

Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences
Thursday, November 2, 8:00 p.m. – 9:30 p.m.

In this session, research scientists from a variety of career sectors will engage students in small group discussions focused on “a day in the life of a research scientist.” Scientists will discuss their career pathways and educational backgrounds, what they enjoy about their work, and their strategies for professional and personal life balance. Career sectors include pharma/
Important Conference Information

biotechnology/industry, media/communications, research intensive academic/staff scientist, undergraduate liberal arts academic/community college, M.D.-Ph.D. in academic health center, and government/policy/foundation/law.

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

Dress Code
ABRCMS attendees are expected to dress professionally for all conference activities. Student attendees should be especially mindful that they are at the beginning of their careers and first impressions are critical.

Rooms
Exam Room - Convention Center Room 231 A
Poster Presentation Practice Room - Convention Center Room 227 AB
Oral Presentation Practice Room - Convention Center Room 227 C
Speaker Ready Room - Convention Center Room 125 A
Child Care Room - Convention Center Room 231 C
First Aid Room - Beside Registration
Lactation Room - Convention Center Room 231B
Sheraton Study Room - Cave Creek and Desert Sky
Hyatt Study Room - Sundance and Gilbert
Renaissance Study Room - Pima

Exhibit Hall Passport
Participate in the inaugural exhibit hall passport program to win prizes. See page 35 for details.
Important Conference Information

**Presentation Practice and Peer Mentoring Sessions (Sponsored in Partnership with FASEB)**
(Recommended for student presenters)

The FASEB MARC Program will sponsor poster/oral presentation practice and peer mentoring sessions for students presenting at ABRCMS 2017. These practice sessions are scheduled for 30-minute periods (see days/times below.)

Poster Presentation Practice Room - **Room 227AB**
Oral Presentation Practice Room - **Room 227C**

**Practice Room Hours:**
- **Wednesday, November 1:** 9:00 a.m. – 10:00 p.m.
- **Thursday, November 2:** 7:00 a.m. – 10:30 p.m.
- **Friday, November 3:** 7:00 a.m. – 10:00 p.m.

**Presentation Practice Mentors**
- Tyesha Burks, Ph.D.
  Bowie State University
- Felicia Emery, Ph.D.
  St. Charles Community College
- Kamilah Grant, Ph.D.
  Tuskegee University
- Mario Izaguirre, Ph.D.
  Northern New Mexico College
- Oliver Jenkins, M.S.
  Virginia State University
- L’Aurelle Johnson, Ph.D.
  University of Minnesota
- Michelle Juarez, Ph.D.
  City College of New York
- LeeCole Leggette, Ph.D.
  Pharmavite LLC
- Shaun Logan, Ph.D.
  Texas A&M University College of Dentistry
- Noraida Martinez-Rivera, Ph.D.
  The University of Kansas
- Melissa Mason, Ph.D.
  Alcorn State University
- Kimberly Mulligan, Ph.D.
  Auburn University
- Chloe Poston, Ph.D.
  The Leadership Alliance
- Kanika Pulliam, Ph.D.
  American Society of Human Genetics
- Teresa Ramirez, Ph.D.
  American Association of Medical Colleges
- Jayne S. Reuben, Ph.D.
  Texas A&M University College of Dentistry
- Sherri-Gae Scott, Ph.D.
  American Gastroenterological Association
- Kennie Shepherd, Ph.D.
  Morehouse School of Medicine

**Mentoring Hubs and Coaching Sessions**
(Recommended for all students)

Everyone agrees that we need multiple mentors to help us develop as scientists and professionals, but finding mentors and forming productive mentoring relationships can be difficult. Come discuss the ins and outs of mentoring, within and outside the research environment. Several mentors have been identified to host a table and provide one-on-one coaching during exhibit hall hours:

**Friday, November 3**
- Session Time: 3:30 p.m. – 4:15 p.m.
- Group Coaching Time: 4:30 p.m. – 5:30 p.m.

**Saturday, November 4**
- Session Time: 10:00 a.m. – 10:45 a.m.
- Group Coaching Time: 11:00 a.m. – 12:00 p.m.

**2017 ABRCMS Mentors**
- Howard G. Adams, Ph.D.
  Howard G. Adams and Associates
- Steven Lee, Ph.D.
  University of California, Davis
- Beronda Montgomery, Ph.D.
  Michigan State University
- Amy Maki, Ph.D.
  A.O. Maki & Associates
- Marcus Huggans, Ph.D.
  GEM Fellowship
- Marquitta Qualls, Ph.D.
  Entrovia Consulting
- Renetta Tull, Ph.D.
  University of Maryland Baltimore County
ABRCMS would like to recognize the following universities and organizations for their support.

**Major Conference Sponsors:**

**Platinum Sponsors**
- American Chemical Society, Department of Diversity Programs
- FASEB

**Gold Sponsors**
- Genentech
- New York University School of Medicine, Sackler Institute
- Novartis Institutes for BioMedical Research, Diversity & Inclusion
- Society of Toxicology
- University of Alabama at Birmingham
- University of South Florida - Alfred P. Sloan Foundation University Center of Exemplary Mentoring/Bridge to the Doctorate Program

**Silver Sponsors**
- Columbia University Medical Center, Coordinated Doctoral Program in Biomedical Sciences
- Keystone Symposia on Molecular and Cellular Biology, Diversity in Life Science Programs
- American Association of Immunologists
- American Heart Association/American Stroke Association, Health Equity
- American Physiological Society (APS)
- American Society for Biochemistry & Molecular Biology
- Biophysical Society, Committee for Inclusion and Diversity
- St. Jude Children’s Research Hospital
- Stanford University, Office of Graduate Education, Programs and Diversity

**Bronze Sponsors**
- University of Kansas
- University of Minnesota, Biomedical Science Graduate & Undergraduate Programs
- University of Minnesota, Medical Scientist Training Program (M.D./Ph.D.)
- Weill Cornell Graduate School of Medical Sciences
- Society for Developmental Biology (SDB)
- Society for Neuroscience
- University of Wisconsin-Madison
- Boise State University, Biomolecular Sciences Ph.D. Program
- Medical College of Wisconsin (MCW) Graduate School & MSTP
- Ross University School of Medicine
- University of Virginia, Biomedical Sciences
### Wednesday, November 1

**7:45 p.m. – 8:30 p.m.**  
**A Case for Climate Justice Now: Why Equity Matters**  
**Robert D. Bullard, Ph.D.**  
Professor of Urban Planning and Environmental Policy,  
Texas Southern University, Houston, TX

### Thursday, November 2

**12:45 p.m. – 1:45 p.m.**  
**From Monitoring Microbes in the International Space Station to Building Houses on Mars: A Path that will Require the Contributions of a Diverse Community**  
**Monserrate (Monsi) C. Román, M.S.**  
Program Manager, NASA Space Station, Centennial Challenges Office

### Friday, November 3

**9:15 a.m. – 10:15 a.m.**  
**Race, Class, and Government Services: How We Got Here, How We Move Forward**  
**Ian F. Haney López**  
Earl Warren Professor of Public Law and Director, Racial Politics Project, University of California, Berkeley

### Saturday, November 4

**12:45 p.m. – 1:45 p.m.**  
**Becoming Dr. Q: An American Dream Like No Other/Making the Case for Careers in Science, Technology, Engineering and Math**  
**Alfredo Quiñones-Hinojosa, M.D.**  
Chair of Neurosurgery, Mayo Clinic

“My overall experience at ABRCMS 2016 was beyond what I expected. The peers and colleagues I met helped inspire me to continue to pursue a scientific career, and aim for a Ph.D. The workshops were also very helpful and eye opening.”
Friday, November 3 | 8:00 a.m. – 9:00 a.m.

**Protein Structures: Producing, Using, and Teaching about Life’s Building Blocks**

**Krystle J. McLaughlin, Ph.D.**
Assistant Professor, Vassar College

**Shuchismita Dutta, Ph.D.**
Assistant Research Professor, Rutgers University

**Friend or Foe: Neuroimmune Responses in the Brain**

**Edjah Nduom, M.D.**
Chief, Surgical Neurology Branch, National Institute of Neurological Disorders and Stroke, National Institutes of Health

**Friend or Foe: Neuroimmune Responses in the Brain**

**Candice Brown, Ph.D.**
Assistant Professor, West Virginia University

**The Toxic Sins Of Our Ancestors (Sponsored by the Society of Toxicology)**

**Patrick Allard, Ph.D.**
Assistant Professor, University of California, Los Angeles

**Precision Medicine Research: Where Genomics Meets Big Data Biomedical Informatics**

**Dana Crawford, Ph.D.**
Associate Professor of Population and Quantitative Health Sciences, Case Western Reserve University

**Investigating the Interaction between Arginine 8 Methylation and Serine 10 Phosphorylation in Histone H3**

**Cecilia Zurita-Lopez, Ph.D.**
Assistant Professor, California State University, Los Angeles

**A Tale of Two Metals**

**Michael Johnson, Ph.D.**
Assistant Professor, University of Arizona, Tucson, AZ

**Imaging Mass Spectrometry Reveals Early Events in Cancer and Microbial Colonization of Hosts (Sponsored by the American Society for Microbiology)**

**Laura Sanchez, Ph.D.**
Assistant Professor, University of Illinois, Chicago

**Cell Engineering and Biomaterial Strategies for Tissue Engineering**

**Josephine Allen, Ph.D.**
Assistant Professor, University of Florida
Wednesday, November 1

12:00 p.m. – 8:00 p.m.
Registration Open

3:00 p.m. – 8:00 p.m.
Exhibit Setup

2:00 p.m. – 6:00 p.m.
Concurrent Professional Development Sessions

2:00 p.m. – 6:00 p.m.

Session 1 | Room 224 A
Do You Play Fair?
A Workshop About Bias in America
(Recommended for graduate students, postdoctoral scientists, faculty, program directors, and exhibitors)

Christine Pribbenow, Ph.D., University of Wisconsin–Madison, Madison, WI
Percy Brown, Jr., M.S.Ed., University of Wisconsin–Madison, Madison, WI

3:00 p.m. – 4:30 p.m.
Concurrent Professional Development Sessions
(5 session options)

3:00 p.m. – 4:30 p.m.

Session 1 | Room 121 ABC
Presentation Techniques: How to Make Effective Poster and Oral Presentations
(Recommended for first-time presenters and non-presenters)

Shelley Payne, Ph.D., University of Texas at Austin, Austin, TX

3:00 p.m. – 4:30 p.m.

Session 2 | Room 122 ABC
Graduate Student Life: Perspectives of Graduate Students
(Recommended for undergraduate and post baccalaureates)

Nicquet Blake, Ph.D., University of Texas at San Antonio Health Science Center, San Antonio, TX

3:00 p.m. – 4:30 p.m.

Session 3 | Room 226 ABC
The A to Z of Networking
(Recommended for all student attendees)

Tojan Rahhal, Ph.D., Alliance Professional Development, Columbia, MO
3:00 p.m. – 4:30 p.m.  
**Session 4 | Room 229 A**

*Entering Mentoring: Research Mentor Training for Faculty Working with Undergraduates*  
(Recommended for faculty)

*Steven Lee, Ph.D.*, University of California, Davis, CA  
*Kelly Diggs-Andrews, Ph.D.*, Diggs-Andrews Consulting, LLC, Ashburn, VA

3:00 p.m. – 4:30 p.m.  
**Session 5 | Room 229 B**

*Strategies for Writing “Competitive” Proposals at Small Colleges and Universities*  
(Recommended for postdoctoral scientists and faculty)

*Mark Melton, Ph.D.*, Saint Augustine’s University, Raleigh, NC

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**4:45 p.m. – 5:45 p.m.**  
**Concurrent Professional Development Sessions (2 session options)**

**4:45 p.m. – 5:45 p.m.**  
**Session 2 | Room 226 ABC**

*The Science of Goal-Setting*  
(Recommended for postdoctoral scientists, faculty, exhibitors, and program directors)

*Glenn E. Daniels II, Stone Publishers, Denver, CO*

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**6:30 p.m. – 7:15 p.m.**  
**Dinner**  
**North Ballroom**

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**7:15 p.m. – 7:45 p.m.**  
**Conference Welcome**  
**North Ballroom**

*Conference Overview*  
*John Fitzgerald Gates, Ph.D.*, Criticality Management Consulting, New York, NY

*Opening Remarks*  
*Avery August, Ph.D.*, Cornell University College of Veterinary Medicine, Ithaca, NY

*Welcome Remarks*  
*Stefano Bertuzzi, Ph.D., M.P.H.*, American Society for Microbiology, Washington, DC  
*Alison Gammie, Ph.D.*, National Institute of General Medical Sciences, NIH, Bethesda, MD

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**7:45 p.m. – 8:00 p.m.**  
**Opening Keynote Address**  
**North Ballroom**

*Robert D. Bullard, Ph.D.*, Professor of Urban Planning and Environmental Policy, Texas Southern University, Houston TX

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**8:45 p.m. – 10:00 p.m.**  
**PREP Scholars Meet & Greet (By Invitation Only)**  
**Room 224 B**

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**8:45 p.m. – 10:30 p.m.**  
**Movie Night at ABRCMS: Hidden Figures**  
**West Ballroom 301 ABC**
Thursday, November 2

7:00 a.m. – 7:45 a.m.
Networking Breakfast
North Ballroom

7:00 a.m. – 7:00 p.m.
Registration Open

8:00 a.m. – 12:00 p.m.
Exhibit Setup

8:00 a.m. – 9:00 a.m.
Concurrent Professional Development Sessions
(4 session options)

8:00 a.m. – 9:00 a.m.
Session 1 | West Ballroom 301 ABC
Orientation for Undergraduates and Post baccalaureates
(Mandatory for undergraduate and post baccalaureate students)

Networking as a Required Life Skill and Professionalism as a Necessary Attribute for Students
Howard G. Adams, Ph.D., H.G. Adams and Associates, Norfolk, VA

Program Overview and Making the Most of ABRCMS
Sandra Murray, Ph.D., University of Pittsburgh, Pittsburgh, PA

Conference Announcements
Irene Hulede, American Society for Microbiology, Washington, DC

8:00 a.m. – 9:00 a.m.
Session 2 | Room 121 ABC
Getting Published: Advice for Graduate Students and Postdoctoral Scientists
(Recommended for graduate students, postdoctoral scientists, and early-career scientists)
Victor DiRita, Ph.D., Michigan State University, East Lansing, MI

8:00 a.m. – 9:00 a.m.
Session 3
Mandatory Judges Meeting (All 12 Disciplines)
(Mandatory for all student presentation judges)

Biochemistry and Molecular Biology: Room 128 AB
Chemistry: Room 221 ABC
Cancer Biology: Room 127 C
Cell Biology: Room 127 B
Computational Biology & Systems Biology: Room 222 C
Developmental Biology and Genetics: Room 127 A
Engineering, Physics, and Mathematics: Room 126 C
Immunology: Room 122 ABC
Microbiology: Room 131 AB
Neuroscience: Room 226 ABC
Physiology: Room 124 AB
Social and Behavioral Sciences & Public Health: Room 129 AB

8:00 a.m. – 9:00 a.m.
Session 4 | Room 222 AB
Building Community for Deaf and Hard-of-Hearing Scientists
Jessica Cuculick, Ed.D., Rochester Institute of Technology, Rochester, NY
Jeff Shaul, B.S., M.Ed., Rochester Institute of Technology, Rochester, NY
Steven Murdy, B.S., Rochester Institute of Technology, Rochester, NY
PJ Simpson-Haidaris, Ph.D., University of Rochester, Rochester, NY
9:15 a.m. – 10:30 a.m.
Concurrent Professional Development Sessions
(6 session options)

9:15 a.m. – 10:30 a.m.
Session 1 | Room 121 ABC
Picking the Perfect Ph.D. Program for You: Why Choose a School with a T32?
(Recommended for undergraduate students interested in the Ph.D. track)

Sharon Milgram, Ph.D., National Institutes of Health, Bethesda, MD

9:15 a.m. – 10:30 a.m.
Session 2 | Room 122 ABC
M.D.—Ph.D.—Is It Right for Me?
(Recommended for undergraduate students interested in the M.D.—Ph.D. track)

Robin Lorenz, M.D., Ph.D., University of Alabama at Birmingham, Birmingham, AL
Juanita Merchant, M.D., Ph.D., University of Michigan, Ann Arbor, MI

9:15 a.m. – 10:30 a.m.
Session 3 | Room 221 ABC
How Choosing the Right Advisor is Crucial for Success
(Recommended for undergraduate students [juniors and seniors], and postbaccalaureate students)

J. Marcela Hernandez, Ph.D., The Ohio State University, Columbus, OH

9:15 a.m. – 10:30 a.m.
Session 4 | Room 124 AB
Research Ethics Cases for Training Undergraduate Researchers
(Recommended for graduate students doctoral, senior level, postdoctoral scientists, and faculty)

Colleen Kearns, Ph.D., Cornell University, Ithaca, NY
Laurel Southard, M.S., Cornell University, Ithaca, NY

9:15 a.m. – 10:30 a.m.
Session 5 | Room 222 C
Imagining and Defining the Grant that Will Fund Your Postdoc
(Recommended for graduate students and postdoctoral scientists)

Giselle Parker, Ph.D., National Science Foundation, Arlington, VA
Christine O’Brien, National Academies, Washington, DC

9:15 a.m. – 10:30 a.m.
Session 6
NIGMS Program Director Discussions
(Mandatory for TWD program directors)

Bridges to baccalaureate, MARC, RISE UG and IMSD UG programs: Room 229 A
Bridges to doctoral programs, PREP, T32, IMSD Ph.D., RISE MS/Ph.D., and IRACDA: Room 229 B
BUILD/NRMN/CEC programs: Room 224 A

10:45 a.m. – 11:45 a.m.
Concurrent Professional Development Sessions
(5 session options)

10:45 a.m. – 11:45 a.m.
Session 1 | Room 121 ABC
Career Pathway in Industry, Government, and Research Organization: What’s Next?: Beyond the Academy
(Recommended for all students)

Annette Angus, Ph.D., Scientist II, R&D, Clorox Company, Oakland, CA
Ruan Cox, Ph.D., Industry Alliance Development Associate, Moffitt Cancer Center, Tampa, FL
Maiysha Jones, Ph.D., Senior Clinical Scientist, R&D, Procter & Gamble Company, Cincinnati, OH
Adrian Land, Ph.D., Microbiologist, U.S. FDA, Washington, DC
10:45 a.m. – 11:45 a.m.
Session 2 | Room 122 ABC

Career Pathways in Biotech and Pharma
Launch Your Career in Industry: Become the Standout Candidate
Sponsored by Genentech
(Recommended for undergraduate students, and graduate students/postdoctoral researchers)

Pam Leung, University Talent Acquisition and Strategy Sr. Program Manager, Genentech, San Francisco, CA
Jonathan Zarzar, Engineer II (Late Stage Pharmaceutical Development), Genentech, San Francisco, CA
Alex Gaither, Ph.D., Novartis, Cambridge, MA
Gary Pestano, Ph.D., VP of Product Development and Operations, Biodesix, Boulder, CO

10:45 a.m. – 11:45 a.m.
Session 3 | Room 124 AB

Biomedical Innovation & Entrepreneurship
(Recommended for all attendees)

Carolyn Dealy, Ph.D., University of Connecticut Health Center, Storrs, CT

10:45 a.m. – 11:45 a.m.
Session 4 | Room 221 ABC

How We Learn...and How We Don’t
(Recommended for all attendees)

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

10:45 a.m. – 11:45 a.m.
Session 5 | Room 224 A

Insider’s Guide to NIH Peer Review and Getting an NIH Fellowship or Grant
(Recommended for graduate students, postdoctoral scientists, and faculty)

Lisa Steele, Ph.D., National Institutes of Health, Bethesda, MD

12:00 p.m. – 12:45 p.m.
Networking Lunch
North Ballroom

12:45 p.m. – 1:45 p.m.
Plenary Scientific Session

North Ballroom

From Monitoring Microbes in the International Space Station to Building Houses on Mars: A Path that Will Require the Contributions of a Diverse Community

Monserrat (Monsi) Roman, M.S., NASA Space Station, Huntsville, AL

1:45 p.m. – 5:30 p.m.
Exhibits Open

2:00 p.m. – 3:15 p.m.
POSTER SESSION 1 (A)

3:30 p.m. – 4:45 p.m.
POSTER SESSION 2 (B)

5:30 p.m. – 6:45 p.m.
Oral Presentation Sessions
(All 12 Disciplines)

Biochemistry and Molecular Biology: Room 128 AB
Biochemistry, Molecular Biology and Chemistry: Room 221 ABC
Cancer Biology: Room 127 C
Cell Biology and Neuroscience: Room 127 B
Computational Biology, Systems Biology, Engineering, Physics and Mathematics: Room 222 C
Developmental Biology and Genetics: Room 127 A
Engineering, Physics and Mathematics: Room 126 C
Microbiology: Room 131 AB
Immunology: Room 122 ABC
Neuroscience: Room 226 ABC
Physiology: Room 124 AB
Social and Behavioral Sciences & Public Health: Room 129 AB

7:00 p.m. – 7:45 p.m.
Networking Dinner
North Ballroom
8:00 p.m. – 9:00 p.m.
PDO Steering Committee Meeting (By Invitation Only)
Room 223

8:00 p.m. – 9:30 p.m.
Professional Development Sessions
(3 session options)

8:00 p.m. – 9:30 p.m.
Session 1 | West Ballroom 301

**STEM Career Choices/Gateway to the Future:**
**Conversations with Scientists**
(Recommended for undergraduate, and post baccalaureate)

**Scientists:**
- **Maiysha Jones**, Ph.D.
  Procter & Gamble (Industry/Research)
- **Marquita Qualls**, Ph.D.
  Entropia Consulting (Consulting)
- **Claudio Ortiz**, Ph.D.
  Colgate (Industry/Research)
- **Ronald Hunter**
  Coca Cola Company (Industry)
- **Gary Pestano**, Ph.D.
  Biodesix (Industry/Research)
- **Marcelo Vinces**, Ph.D.
  Oberlin College (Policy/University Administration)
- **Kenny Gibbs**, Ph.D.
  National Institute of Health (Government Administration)
- **Prasad Kuduvilli**, Ph.D.
  American Society for Microbiology (Non Profit)
- **Alex Gaither**, Ph.D.
  Novartis (Pharmaceutical/Research)
- **Cheryl Rendleman**, Ph.D.
  Omar Consulting (Consulting)
- **Patrice Yarbrough**, Ph.D.
  NASA (Government/Research)
- **Keisha John**, Ph.D.
  University of Virginia (University Administration)
- **Medeva Ghee**, Ph.D.
  Brown University (University Administration/Teaching)
- **Nicole Barkley**, Ph.D.
  Personal Genome Diagnostics (Industry/Research)
- **Adrian Land**, Ph.D.
  U.S. FDA (Government/Research)

**Vanessa Gonzalez-Perez**, Ph.D.
Princeton University (Teaching/Administration)
**Annette Angus**, Ph.D.
Clorox Company (Industry/Research)
**Ruan Cox**, Ph.D.
Moffitt Cancer Center (Non Profit/Research)
**Cherrie Butts**, Ph.D.
Biogen (Industry/Research)
**James Rogers**, Ph.D.
Consumer Reports (Non Profit/Government)
**Melissa Essinger**, Ph.D.
High Point Naval Academy (Government/Research)
**Giselle Parker**, Ph.D.
National Science Foundation (Government/Administration)
**Jonathan Zarzar**, Ph.D.
Genentech (Research)
**Gregory Buck**, Ph.D.
Texas A&M Corpus Christie University (Undergraduate Teaching)

8:00 p.m. – 9:30 p.m.
Session 2 | Room 222 AB

**Postdoc Fundamentals: Selecting a Training Experience to Match Your Career Goals**
(Recommended for graduate students and postdoctoral scientists)

- **Sibby Anderson-Thompkins**, Ph.D., University of North Carolina at Chapel Hill, Chapel Hill, NC
- **Alberto Roca**, Ph.D., Diverse Scholar, Irvine, CA

8:00 p.m. – 9:30 p.m.
Session 3 | Room 222 C

**Be the CURE: Leveraging the Classroom for Undergraduate Research**
(Recommended for postdoctoral scientists, faculty and program directors)

- **Carleitta Paige-Anderson**, Ph.D., Virginia Union University, Richmond, VA
Friday, November 3

7:00 a.m. – 7:45 a.m.
Networking Breakfast
North Ballroom

7:00 a.m. – 5:00 p.m.
Registration Open

8:00 a.m. – 9:00 a.m.
Concurrent Scientific Sessions
(8 session options)

8:00 a.m. – 9:00 a.m.
Session 1 | Room 121 ABC
Friend or Foe: Neuroimmune Responses in the Brain

Candice Brown, Ph.D., University of West Virginia, Morgantown, WV
Edjah Nduom, M.D., National Institutes of Health, Bethesda, MD

8:00 a.m. – 9:00 a.m.
Session 2 | Room 222 AB
The Toxic Sins of Our Ancestors
Sponsored by Society of Toxicology

Patrick Allard, Ph.D., University of California, Los Angeles, CA

8:00 a.m. – 9:00 a.m.
Session 3 | Room 124 AB
A Tale of Two Metals

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

8:00 a.m. – 9:00 a.m.
Session 4 | Room 226 ABC
Precision Medicine Research: Where Genomics Meets Big Data Biomedical Informatics

Dana Crawford, Ph.D., Case Western University, Cleveland, OH

8:00 a.m. – 9:00 a.m.
Session 5 | Room 221 ABC
Protein Structures: Producing, Using, and Teaching about Life’s Building Blocks

Shuchismita Dutta, Ph.D., Rutgers, The State University of New Jersey, Piscataway, NJ
Krystle J. McLaughlin, Ph.D., Vassar College, Poughkeepsie, NY

8:00 a.m. – 9:00 a.m.
Session 6 | Room 122 ABC
Imaging Mass Spectrometry Reveals Early Events in Cancer and Microbial Colonization of Hosts
Sponsored by the American Society for Microbiology

Laura Sanchez, Ph.D., University of Illinois, Chicago, IL

8:00 a.m. – 9:00 a.m.
Session 7 | Room 224 B
Investigating the Interaction between Arginine 8 Methylation and Serine 10 Phosphorylation in Histone H3

Cecilia Zurita Lopez, Ph.D., California State University, Los Angeles, CA

8:00 a.m. – 9:00 a.m.
Session 8 | Room 229 AB
Cell Engineering and Biomaterial Strategies for Tissue Engineering

Josephine Allen, Ph.D., University of Florida, Gainesville, FL

9:15 a.m. – 10:15 a.m.
Plenary Session

West Ballroom 301 ABC
Race, Class, and Government Services: How We Got Here, How We Move Forward

Ian F. Haney López, Earl Warren Professor of Public Law, UC Berkeley Director, Racial Politics Project, Haas Institute for a Fair and Inclusive Society Senior Fellow, Demos, Berkeley, CA
10:15 a.m. – 12:00 p.m.
Exhibits Open

10:30 a.m. – 11:45 a.m.
POSTER SESSION 3 (C)

10:45 a.m. – 11:45 a.m.
Meet and Greet with Ian F. Haney López
Exhibit Hall Mentoring/Networking Area

12:00 p.m. – 12:45 p.m.
Networking Lunch
North Ballroom

12:45 p.m. – 1:45 p.m.
Plenary Session
North Ballroom
Public Health and Science, Technology, Engineering and Mathematics

Hazel D. Dean, ScD, DrPH (Hon), FACE, Deputy Director, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, Centers for Disease Control and Prevention, Atlanta, GA

2:00 p.m. – 3:00 p.m.
Concurrent Professional Development Sessions (8 session options)

Session 1 | Room 121 ABC
Effective Personal Statement for Getting into Highly Competitive Graduate Schools and Summer Programs
(Recommended for undergraduate, post baccalaureate, and master’s students)

Joel Oppenheim, Ph.D., New York University, New York, NY
Victoria Freedman, Ph.D., Albert Einstein University, New York, NY

Session 2 | Room 122 ABC
Imposters, Resilience, and Academy Training
(Recommended for all attendees)

Diana Azurdia, University of California, Los Angeles, Los Angeles, CA
Sharon Milgram, Ph.D., National Institutes of Health, Bethesda, MD

Session 3 | Room 124 AB
Dark Matters: A Look at “Black Holes” as Metaphor for Mitigating Risk and Increasing STEM Student Success
(Recommended for all attendees)

Damon Tull, Ph.D., ASEP, CSM, American Society for Engineering Education, Washington, DC
Renetta Garrison Tull, Ph.D., University of Maryland Baltimore County, Baltimore, MD

Session 4 | Room 221 ABC
Time Management 101
(Recommended for all students)

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

Session 5 | Room 222 C
Living and Working with a Disability as a Student in the Sciences
(Recommended for all attendees)

Mahadeo Sukhai, Canadian National Institute for the Blind, Toronto, Ontario

Session 6 | Room 222 AB
Advice for the Advisors: Helping Your Students Become Successful Ph.D. Applicants
(Recommended for faculty and program directors)

Nancy Schwartz, Ph.D., University of Chicago, Chicago, IL
Nancy Street, Ph.D., University of Texas Southwestern Medical Center, Dallas, TX
Program

2:00 p.m. – 3:00 p.m.
Session 7 | Room 226 ABC
Graduate Opportunities in Global Public Health and Health Security
(Recommended for undergraduate students)
Prasad Kuduvilli, Ph.D., American Society for Microbiology, Washington, DC
Hazel D. Dean, ScD, DrPH (Hon), FACE, Centers for Disease Control and Prevention, Atlanta, GA

2:00 p.m. – 3:00 p.m.
Session 8 | Room 229 ABC
TWD-PDO Meeting (Organized by NIGMS Program Director Association)
(Mandatory for TWD program directors)
Barry Komisarak, Ph.D., Rutgers University, Newark, NJ

3:00 p.m. – 6:00 p.m.
Exhibits Open

3:15 p.m. – 4:30 p.m.
POSTER SESSION 4 (D)

3:30 p.m. – 4:15 p.m.
Mentoring Session
Exhibit Hall Mentoring Theater
Students Utilizing Mentoring as a Personal Development Strategy
Howard Adams, Ph.D., Adams and Associates, Norfolk, VA

4:30 a.m. – 5:30 p.m.
SMALL GROUP MENTORING COACHING
Exhibit Hall Mentoring/Networking Area

4:45 p.m. – 6:00 p.m.
POSTER SESSION 5 (E)

6:15 p.m. – 7:15 p.m.
ABRCMS Feedback Session—Open Forum
(Recommended for all attendees)
Avery August, Ph.D., Cornell University, Ithaca, NY (ABRCMS Chairperson)
Irene Hulede, American Society for Microbiology, Washington, DC, (ABRCMS Project Manager)
Room 121 ABC

7:15 p.m. – 8:15 p.m.
MAPRS Program Director Meeting
(By Invitation Only)
Room 223

7:15 p.m. – 8:15 p.m.
National Research Mentoring Network Meet and Greet
Room 224 A

7:15 p.m. – 8:15 p.m.
Concurrent Professional Development Sessions
(8 session options)

7:15 p.m. – 8:15 p.m.
Session 1 | Room 222 AB
Confessions of Admission Officials: What We Look at, and For, in Graduate School Applications
(Recommended for undergraduate and graduate students)
Gustavo Arrizabalaga, Ph.D., Indiana University, Indianapolis, IN
Robert Binder, Ph.D., University of Pittsburgh, Pittsburgh, PA
Colleen Gabauer, Ph.D., Purdue University, West Lafayette, IN
Tara Hobson-Proter, M.A., Indiana University, Indianapolis, IN

7:15 p.m. – 8:15 p.m.
Session 2 | Room 226 ABC
Strategies for Taking Standardized Admissions Tests: Preparing for the GRE Exams
(Recommended for undergraduate and post baccalaureate students)
Laurie Connor, Ph.D., Baylor School of Medicine, Houston, TX

7:15 p.m. – 8:15 p.m.
Session 3 | Room 222 C
Strategies for Taking Standardized Admissions Tests: Preparing for the MCAT Exams
(Recommended for undergraduate and postbaccalaureate students)
Saundra Oyewole, Ph.D., Trinity University, Washington, DC
Saturday, November 4, 2017

7:00 a.m. – 7:45 a.m.  
Networking Breakfast  
North Ballroom

7:00 a.m. – 1:00 p.m.  
Registration Open

8:00 a.m. – 9:15 a.m.  
Oral Presentation Sessions  
(All 12 Disciplines)

Biochemistry and Molecular Biology: Room 128 AB
Biochemistry and Molecular Biology: Room 221 ABC
Developmental Biology and Genetics: Room 127 C
Developmental Biology and Genetics: Room 127 B
Engineering, Physics, and Mathematics: Room 222 C
Immunology and Microbiology: Room 127 A
Microbiology, and Social and Behavioral Sciences and Public Health: Room 121 ABC
Neuroscience: Room 131 AB
Neuroscience: Room 122 ABC
Physiology and Cell Biology: Room 222 AB
Social and Behavioral Sciences and Public Health: Room 124 AB
Social and Behavioral Sciences & Public Health: Room 129 AB

9:15 a.m. – 12:00 p.m.  
Exhibit Hall Open

9:30 a.m. – 10:45 a.m.  
POSTER SESSION 6 (F)

10:00 a.m. – 10:45 a.m.  
MENTORING SESSION
Exhibit Hall Mentoring Theater
Navigating Your Mentoring Relationships with a MAP (Mentoring Action Plan) for Mentees

Steven Lee, Ph.D., University of California, Davis, CA
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:00 a.m. – 12:00 p.m.</td>
<td>SMALL GROUP MENTORING COACHING</td>
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<td>Exhibit Hall Mentoring/Networking Area</td>
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<td>12:15 p.m. – 12:45 p.m.</td>
<td>Networking Lunch</td>
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<td>North Ballroom</td>
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<td>1:00 p.m. – 4:00 p.m.</td>
<td>Exhibit Takedown</td>
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<td>12:45 p.m. – 1:45 p.m.</td>
<td>Closing Keynote Speaker</td>
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<td>North Ballroom</td>
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<td>Becoming Dr. Q: An American Dream like No Other/ This is Your Brain on STEM: Making the Case for Careers in Science, Technology, Engineering, and Math</td>
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<td>Alfredo Quinones-Hinojosa, M.D., Mayo Clinic, Tallahassee, FL</td>
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<td>2:15 p.m. – 3:00 p.m.</td>
<td>Concurrent Professional Skills Café Sessions for Students (7 session options)</td>
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<td>(Sessions will be repeated at 3:15 p.m.)</td>
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<td>2:15 p.m. – 3:00 p.m.</td>
<td>Session 3</td>
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<td>Blogging, Tweeting, and Writing to Promote Your Career and Diversify Science (Recommended for all attendees)</td>
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<td>Alberto Roca, Ph.D., Diverse Scholar, Irvine, CA</td>
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<td>Stephanie Page, Ph.D., University of North Carolina at Chapel Hill, Chapel Hill, NC</td>
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<td>2:15 p.m. – 3:00 p.m.</td>
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<td>Making the Case for Graduate School (Recommended for all attendees)</td>
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<td>Howard G. Adams, Ph.D., Howard Adams and Associates, Norfolk, VA</td>
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<td>What You Can Do with a Ph.D.: The Biomedical Workforce and Me! Using Workforce Data To Guide Career Development (Recommended for all attendees)</td>
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<td>Chelsea Barbercheck, Ph.D., Boston University, Boston, MA</td>
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<td>Lynese Wallace, M.P.H., Boston University, Boston, MA</td>
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<td>2:15 p.m. – 3:00 p.m.</td>
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<td>“I Wish My Mentor Knew”—Advice from Experienced Biomedical Research Mentors (Recommended for graduate students and postdoctoral scientists)</td>
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<td>Rafael Luna, Ph.D., Boston University, Boston, MA</td>
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<td>Irelene Ricks, Ph.D., Keystone Symposia, Silverthorne, CO</td>
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<td>2:15 p.m. – 3:00 p.m.</td>
<td>Session 7</td>
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<td>Making the Most of Your Mentor-Mentee Relationships (Recommended for all students)</td>
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<td>William Mahoney, Ph.D., University of Washington, Seattle, WA</td>
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<td>Eric Nealy, B.S., University of Washington, Seattle, WA</td>
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</tbody>
</table>
2:15 p.m. – 4:00 p.m.
Concurrent Professional Development for Graduate Students, Postdocs, Faculty, and Administrators (2 session options)

2:15 p.m. – 4:00 p.m.
Session 1 | Room 128 AB

Job Search Strategies: Effective Interviewing Skills and Negotiating the Job Offer
(Recommended for senior graduate students, postdoctoral scientists, and junior faculty)

Lauren Celano, Ph.D., Propel Careers, Boston, MA

2:15 p.m. – 4:00 p.m.
Session 2 | Room 229 AB

Implementing the Workshop: “Do You Play Fair? A Workshop about Bias in Academia”
(Recommended for faculty, program directors, and exhibitors)

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

3:15 p.m. – 4:00 p.m.
Concurrent Professional Skills Café Sessions For Students
(These sessions are repeated from 2:15 p.m.)

3:15 p.m. – 4:00 p.m.
Session 1 | Room 121 ABC

Building Your Brand Starts NOW
(Recommended for students)

Marquita Qualls, Ph.D., Entropia Consulting, Nashville, TN

3:15 p.m. – 4:00 p.m.
Session 2 | Room 122 ABC

Bridging the Gap: Supporting the Academic Success of Nontraditional / Community College Students at 4-Year Institutions
(Recommended for community college and nontraditional students, faculty, and program administrators)

L’Aurelle Johnson, Ph.D., M.S., University of Minnesota College of Pharmacy, Minneapolis, MN
Janice Reuben, B.A., University of Michigan Center for the Education of Women, Ann Arbor, MI
Jayne Reuben, Ph.D., Texas A&M University College of Dentistry, Dallas, TX

3:15 p.m. – 4:00 p.m.
Session 3 | Room 124 AB

Blogging, Tweeting, and Writing to Promote Your Career and Diversify Science
(Recommended for all attendees)

Alberto Roca, Ph.D., Diverse Scholar, Irvine, CA
Stephani Page, Ph.D., University of North Carolina at Chapel Hill, Chapel Hill, NC

3:15 p.m. – 4:00 p.m.
Session 4 | Room 226 ABC

Making the Case for Graduate School
(Recommended for all attendees)

Howard G. Adams, Ph.D., Howard Adams and Associates, Norfolk, VA

3:15 p.m. – 4:00 p.m.
Session 5 | Room 224 AB

What You Can Do with a Ph.D.: The Biomedical Workforce and Me! Using Workforce Data To Guide Career Development
(Recommended for all attendees)

Chelsea Barbercheck, Ph.D., Boston University, Boston, MA
Lynese Wallace, M.P.H., Boston University, Boston, MA
3:15 p.m. – 4:00 p.m.
Session 6 | Room 221 ABC
“I Wish My Mentor Knew”—Advice from Experienced Biomedical Research Mentors
(Recommended for graduate students and postdoctoral scientists)

Rafael Luna, Ph.D., Boston University, Boston, MA
Irelene Ricks, Ph.D., Keystone Symposia, Silverthorne, CO

3:15 p.m. – 4:00 p.m.
Session 7 | Room 222 AB
Making the Most of Your Mentor-Mentee Relationships
(Recommended for all students)

William Mahoney, Ph.D., University of Washington, Seattle, WA
Eric Nealy, B.S., University of Washington, Seattle, WA

4:30 p.m. –5:30 p.m.
LGBTQ Meet and Greet
Room 223

5:30 p.m. – 7:30 p.m.
FREE TIME! FREE TIME! FREE TIME!

7:30 p.m. – 9:45 p.m.
Banquet And Awards Ceremony

North Ballroom
Conference Wrap-up
John Fitzgerald Gates, Ph.D., University of Virginia, Charlottesville, VA

Student Presentation Awards Ceremony
Concluding Remarks
Avery August, Ph.D., Cornell University College of Veterinary Medicine, Ithaca, NY

10:00 p.m. – 2:00 a.m.
Closing Social Invite and Dance
(All Are Invited)
Sheraton Grand Phoenix Hotel–Phoenix Ballroom
<table>
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<th>Poster Presentations by Scientific Discipline</th>
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<td>001-048</td>
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<tr>
<td>Cancer Biology</td>
<td>049-083</td>
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<tr>
<td>Cell Biology</td>
<td>084-104</td>
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<tr>
<td>Chemistry</td>
<td>105-130</td>
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<tr>
<td>Computational and Systems Biology</td>
<td>131-144</td>
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<td>Developmental Biology and Genetics</td>
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<td>Neuroscience</td>
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<td>Physiology</td>
<td>283-300</td>
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<tr>
<td>Social and Behavioral Sciences and Public Health</td>
<td>301-335</td>
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</table>
Thursday, November 2

Oral Session 1: Biochemistry and Molecular Biology
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 128 AB

O-001
Testing a Novel Drug Avenue for Improving the Type of Behavior Disturbed in Alzheimer’s Disease
Kaitlan Smith, University of North Carolina, Pembroke
Biochemistry and Molecular Biology: Biochemistry

O-002
Inhibitors of the RAD52 DNA Repair Protein
Swikriti Shrestha, University of Iowa
Biochemistry and Molecular Biology: Biochemistry

O-003
Antioxidant Drug Tempol Modifies Metabolism of Gut Microbiota in Mice
Darnella Cole, Pennsylvania State University
Biochemistry and Molecular Biology: Biochemistry

O-004
Neuroprotective Effects of Nicotine via Mediation of Cytokine Production
Jonathan Mwizerwa, Georgia Gwinnett College
Biochemistry and Molecular Biology: Biochemistry

O-005
Catalytic Activity of Mutant Protein Tyrosine Phosphate 1B
Ishmael Moya, SUNY Old Westbury
Biochemistry and Molecular Biology: Biochemistry

Oral Session 1: Cancer Biology
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 127 C

O-011
Role of CALR Mutations on MPL/JAK Signaling: New Road for Novel Therapies in MPN
Tiffany Merlinsky, Memorial Sloan Kettering Cancer Center
Cancer Biology: Cancer Biology

O-012
Examining the Involvement of Autophagy in Tamoxifen Resistant Breast Cancer Cells
Mariela Trejo, Johns Hopkins University School of Medicine
Cancer Biology: Cancer Biology

O-013
The p53-p21 Pathway Suppresses Non-Apoptotic Cell Death in Cancer Cells
Myshal Morris, Langston University
Cancer Biology: Cancer Biology

O-007
Zif-8 for the Remediation of Dye-Contaminated Effluent
Michael Chin, California State University, Long Beach
Chemistry: Environmental Chemistry

O-008
Phytochemical Screening and Antioxidant Activity of Ganoderma Species in the Central Region of Ghana
Maat Mack, University of Cape Coast
Chemistry: Environmental Chemistry

O-009
Cobalt(III) Schiff Base Complexes as Potential Anticancer Prodrugs
Hendryck Gellineau, Cornell University
Chemistry: Inorganic Chemistry

O-010
An In-Depth Study Involving a Tetranuclear Cobalt(III) Complex as a Water Oxidation Catalyst
Abbygail Reid, Old Dominion University
Chemistry: Inorganic Chemistry

Oral Session 1: Biochemistry and Molecular Biology and Chemistry
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 221 ABC

O-006
Applying a Novel Gene Modulation Platform to Regulate Disease Relevant Genes
Tiffany Wang, University of North Carolina, Chapel Hill
Biochemistry and Molecular Biology: Chemical Biology

O-007
Zif-8 for the Remediation of Dye-Contaminated Effluent
Michael Chin, California State University, Long Beach
Chemistry: Environmental Chemistry

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O-011
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Cancer Biology: Cancer Biology

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Mariela Trejo, Johns Hopkins University School of Medicine
Cancer Biology: Cancer Biology

O-013
The p53-p21 Pathway Suppresses Non-Apoptotic Cell Death in Cancer Cells
Myshal Morris, Langston University
Cancer Biology: Cancer Biology
O-014
$^{13}$C, $^{15}$N Xanthine as a Probe for Evaluating Xanthine Oxidase Activity In Vivo
Camille Derderian, Memorial Sloan Kettering Cancer Center
Cancer Biology: Cancer Biology

O-015
Mechanosensitivity Analysis of Breast Cancer Tumor Cells From Needle Biopsy
Santiago Acero Bedoya, Brown University
Cancer Biology: Cancer Biology

Oral Session 1: Computational and Systems Biology and Engineering, Physics and Mathematics
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 222 C

O-016
Differentially Methylated Regions of SEPT9 in Black Women May Correlate to the Development of Bladder Urothelial Carcinoma
Kimberlyn Ellis, Spelman College
Computational and Systems Biology: Bioinformatics

O-017
Characterization of the Human Replication Landscape Using Okazaki Fragment Sequencing
Raquel Moya, New York University School of Medicine
Computational and Systems Biology: Computational Biology

O-018
Towards a Novel Bio-Chemo-Mechanical Model of Tissue Engineered Vascular Grafts
Lillian Ekem, Yale University
Computational and Systems Biology: Computational Biology

O-019
Predicting Protein Levels from mRNA Levels
Alief Moulana, Carleton College
Computational and Systems Biology: Systems Biology

O-020
The Effect of Quantum Dots Size and Surface Chemistry on Biological Systems
Nadja Maldonado-Luna, University of Puerto Rico, Mayaguez
Engineering, Physics and Mathematics: Material Sciences

Oral Session 1: Cell Biology and Neuroscience
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 127 B

O-021
Methylphenidate Does Not Counteract the Acute Effects of Ethanol in Long-Evans Rats: Flash-Evoked Potentials, Body, Temperature, and Behavior
Lauren Mc Lester-Davis, Lawrence University
Neuroscience: Neuroscience

O-022
Protecting Vulnerable Tissue from Brain Tsunamis: Implications for Stroke
Alanna Humphrey, Xavier University of Louisiana
Neuroscience: Neuroscience

O-023
Exploring the Role of Progranulins and Granulins in Lipid Metabolism
Christian Corrales, University of California, Los Angeles
Neuroscience: Neuroscience

O-024
Glutamine Sustains Cripto Expression and Function, Enabling MyosinII/RAB11A-Dependent Endosomal/Exosomal Trafficking in Stem Cells to Promote Tissue Regeneration
Erika Duell, California State University, Northridge
Cell Biology: Cell Biology

O-025
Hepatic Overexpression of hLRH-1 Attenuates Liver Lipid Accumulation and Improves Glucose Tolerance in Diet Induced Obese Mice
Chloe Lopez-Lee, University of California San Francisco
Cell Biology: Cell Biology

Oral Session 1: Developmental Biology and Genetics
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 127 A

O-026
Identifying Determinants of Multipotency in the Caenorhabditis elegans Somatic Gonad
Kayla Lopez-Alvillar, Virginia Commonwealth University
Developmental Biology and Genetics: Developmental Biology
O-027  
The Role of Brd4 in Adipogenesis  
*Jaena Taitague, Adipocyte Biology and Gene Regulation Section, Laboratory of Endocrinology and Receptor Biology, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health*  
*Developmental Biology and Genetics: Developmental Biology*

O-028  
Bisphenol A (BPA) Impacts Placental Gene Expression in a Dose-Dependent and Sex-Specific Manner  
*Hailey Winstead, Columbia University*  
*Developmental Biology and Genetics: Developmental Biology*

O-029  
Expression of Slit Proteins in the Endocrine Pancreas  
*Faith Bowman, University of Wisconsin-Madison*  
*Developmental Biology and Genetics: Developmental Biology*

O-030  
CCR7/CCL19 GPCR Signaling in Early Embryonic Development  
*Lenore Monterroza, The University of Texas at El Paso*  
*Developmental Biology and Genetics: Developmental Biology*

**Oral Session 1: Engineering, Physics and Mathematics**  
*Thursday, November 2, 5:30 p.m. – 6:45 p.m.*  
*Room 126 C*

O-031  
Cranial Prostheses for Chronic, Pan-Cortical Optical Imaging in Behaving Mice  
*Nahom Mossazghi, University of Minnesota*  
*Engineering, Physics and Mathematics: Bioengineering*

O-032  
3D Bioprinting Using Microfluidic Droplet Formation for Cell Encapsulation  
*David Maginnis, University of California, San Francisco*  
*Engineering, Physics and Mathematics: Bioengineering*

O-033  
Time-Dependent Changes in DNA Methylation in the Hippocampus following Blast Induced Traumatic Brain Injury  
*Shukuru Pascal, Virginia Tech*  
*Engineering, Physics and Mathematics: Biomedical Engineering*

O-034  
In Silico Study of Thread Design and its Interconnection with Stress in Host Bone  
*Trevor Surratt, North Carolina Agricultural and Technical State University*  
*Engineering, Physics and Mathematics: Biomedical Engineering*

O-035  
Preparation and In Vitro Evaluation of Alginate Microparticles Containing Amphotericin B for the Treatment of Candida Infections  
*Lisa Aponte-Reyes, Inter American University of Puerto Rico, Ponce Campus*  
*Engineering, Physics and Mathematics: Biomedical Engineering*

**Oral Session 1: Immunology**  
*Thursday, November 2, 5:30 p.m. – 6:45 p.m.*  
*Room 122 ABC*

O-036  
The DNA Methyltransferase-Inhibitor, Guadecitabine, Shifts Myeloid-Derived Suppressor Cells Form Inhibitory to Stimulatory  
*Essence Georges, Virginia Commonwealth University*  
*Immunology: Basic Immunology*

O-037  
Studying Intestinal Permeability on a Murine Model of Multiple Sclerosis  
*Christina Ramelow, Eastern Washington University*  
*Immunology: Basic Immunology*

O-038  
The Role of Itaconate in Stroke and Immunometabolism  
*KiAundra Kilpatrick, University of Michigan*  
*Immunology: Basic Immunology*

O-039  
Role of Immune Cells in Prenatal Exposure to Cigarette Smoke  
*Javier Arroyo Morales, VA Ann Arbor Healthcare System*  
*Immunology: Host Responses*
O-040
The Role of Interleukin-6 Receptor in Controlling Anti-RBC Alloantibody Production and Memory
Soraya Tarrah, University of Virginia
Immunology: Host Responses

Oral Session 1: Microbiology
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 131 AB

O-041
Methamphetamine Promotes Cryptococcus neoformans Brain Infection
Aneesa Valentine, CUNY - Brooklyn College
Microbiology: Mycology

O-042
Locating Focii of Toxoplasma gondii in an Infected Brain
Cuong Tran, University of California, Irvine
Microbiology: Parasitology

O-043
HIV-1 Envelope Glycoprotein Trimeric Immunogens Derived from Donor 45 Envelope Sequences form Highly Stable and Native-Like Trimers
Jose Santiago Echevarria, Department of Immunology and Microbial Science, The Scripps Research Institute
Microbiology: Virology

O-044
Generating Recombinant Virus MVA-OX40L for Cancer Immunotherapy
Christine Chen, City College of New York
Microbiology: Virology

O-045
Elucidating the Cause of Epidemic Beak Deformities across Species: Poecivirus in North American Birds with Avian Keratin Disorder
Rachel Liu, University of California, San Francisco
Microbiology: Virology

Oral Session 1: Neuroscience
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 226 ABC

O-046
Demonstrating Overlap of Arc and Npas4 Temporal Transcription Kinetics in the Hippocampus
Stephon Broome, Brooklyn College
Neuroscience: Neurobiology

O-047
Effects of Occupational Nanomaterial Exposure on the Blood Brain Barrier
Samantha Saunders, Virginia Commonwealth University
Neuroscience: Neurobiology

O-048
The Neural Basis of Sensory Substitution in the Blind
Antoinette Charles, New York University- Biomedical Sciences
Neuroscience: Neurobiology

O-049
The Impact of Tsc1 Gene Deletion on Dopamine Transporter
Brianna Marsh, University of California, Berkeley
Neuroscience: Neurobiology
O-050
AAV-Mediated-Cas9 Gene Editing to Study Addiction Neurocircuitry
Kimberly Cruz, Stanford School of Medicine
Neuroscience: Neurobiology

Oral Session 1: Physiology
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 124 AB

O-051
Does Preservation of the Ampulla of Vater during Primary Percutaneous Biliary Stent Placement decrease the Incidence of Cholangitis at Stent Occlusion?
Anastasia Artemiev, Memorial Sloan Kettering Cancer Center
Physiology: Anatomy

O-052
Scavenger Receptor Class B Type I Mediates Coenzyme Q Levels in Metabolic Tissue
Reuben Hogan, University of California, Berkeley
Physiology: Nutrition

O-053
Cinnamic Aldehyde Encapsulated in PLGA Nanoparticles as a Potential Therapeutic to Improve Arterial Surgery Outcomes
Emily Valentín-Méndez, University of North Carolina, Chapel Hill
Physiology: Pharmacology

O-054
Protective Effects of Mitochondrial Targeted Peptide SS-20 on Renal Damage in the Unilateral Ureteral Obstruction Model
Kailey Singh, City College of New York
Physiology: Pharmacology

O-055
Role of Obstructive Sleep Apnea in Nocturnal Heart Blocks
Eden Ramirez, Schoolcraft College
Physiology: Physiology

Oral Session 1: Social and Behavioral Sciences and Public Health
Thursday, November 2, 5:30 p.m. – 6:45 p.m.
Room 129 AB

O-056
Teacher Rated Inattention and Hyperactivity/Impulsivity Predicts School-Age BMI
Geneva Hidalgo, The City College of New York
Social and Behavioral Sciences and Public Health: Psychology

O-057
Parent-Child Interactions in Bookreading Contexts in Low-Income Latino Families
Anele Villanueva, New York University School of Medicine
Social and Behavioral Sciences and Public Health: Psychology

O-058
Prevalence of Opioid Injection among Persons Using Opioids Nonmedically in the United States: A Data Synthesis
Tristan Gibson, Morehouse College
Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

O-059
How Do You Like Them Apples? A Comparative Analysis of Nicotine Content in Popular Flavored Shisha Products
Emily Knipper, Roswell Park Cancer Institute
Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

O-060
Adverse Childhood Experiences and Early Sexual Debut among African-American Women in Baltimore, MD
DeMarjion Murry, Philander Smith College
Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics
Saturday, November 4

Oral Session 2: Biochemistry and Molecular Biology
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 128 AB

O-061
Recombinant Expression and Purification of the Decarboxylase Domain of ArnA from Pseudomonas aeruginosa
Rodger de Miranda, San Jose State University
Biochemistry and Molecular Biology: Biochemistry

O-062
Developing Human Hsp70 Variants to Counter Neurodegeneration
Jennifer Ramirez, University of Pennsylvania
Biochemistry and Molecular Biology: Biochemistry

O-063
The Impact of a Single Nucleotide Polymorphism on Ecto-Nucleotidase Activity
Jessica Robinson, Norfolk State University
Biochemistry and Molecular Biology: Biochemistry

O-064
Role of the Ryanodine Receptor in Diaphragm Dysfunction in Huntington’s Disease
Felicia Benoit, Columbia University
Biochemistry and Molecular Biology: Biochemistry

O-065
Design and Analysis of a Microbiome Mock Community: Understanding and Mitigating Methodological Biases
Suquoia Mosby, Virginia Commonwealth University
Biochemistry and Molecular Biology: Genomics

Oral Session 2: Biochemistry and Molecular Biology
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 221 ABC

O-066
Generating RGS10/RGS18 Double Knockout Mice to Study Platelet Activation
Shekinah Hernandez, Hampton University
Biochemistry and Molecular Biology: Genomics

O-067
Expression of Plasmodium falciparum Glutamic Acid-Rich Protein (PfGARP) in Recombinant Pichia pastoris for Malaria Vaccine Development
Andrés Martínez-Muñiz, Brown University
Biochemistry and Molecular Biology: Proteomics

O-068
Mapping the Genetic Basis of Super Restrictors in Antiviral Protein MxA
Isabel Delwel, Fred Hutchinson Cancer Research Center
Biochemistry and Molecular Biology: Proteomics

O-069
Computational and Biophysical Analysis of a Mutational Hotspot Causing Neurodegeneration
Lauren Thornton, Xavier University of Louisiana
Biochemistry and Molecular Biology: Structural Biology

O-070
Structural Studies to Understand Evasion of an Astrovirus serotype-2 subtype to a Potent Neutralizing Antibody
Edmundo Perez, University of California, Santa Cruz
Biochemistry and Molecular Biology: Structural Biology

Oral Session 2: Developmental Biology and Genetics
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 127 C

O-071
Mechanisms Regulating Centriole Engagement during Male Meiosis in C. elegans
Anthony James, City University of New York Brooklyn College
Developmental Biology and Genetics: Developmental Biology

O-072
The Addition of Human Follicular Fluid Promotes the Differentiation of Mouse Granulosa-Derived Induced Pluripotent Stem Cells into Ovarian-Like Cells
Uyenkha Dam, Brigham and Women’s Hospital
Developmental Biology and Genetics: Developmental Biology
O-073
Osteocalcin Regulates Glucose Production in the Liver
Dina Sheira, Columbia University Medical Center
Developmental Biology and Genetics: Developmental Biology

O-074
Role of the p160 Steroid Receptor Coactivator Family in Immortalized Human Endometrial Stromal Cell Line
Raul Ordonez, Baylor College of Medicine
Developmental Biology and Genetics: Developmental Biology

O-075
Effect of Elevated Temperature on Embryonic Skeletal Development in Antarctic Bullhead Notothenia coriiceps
Natalie Mosqueda, University of Oregon
Developmental Biology and Genetics: Evolution and Developmental Biology

Oral Session 2: Developmental Biology and Genetics
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 127 B

O-076
Correlated Evolution of Antlers and Tusks in Cervids
Nicole Lopez, California State University, Long Beach
Developmental Biology and Genetics: Evolution and Developmental Biology

O-077
Determining the Minimal Length for an Effective In Situ Hybridization Probe
Harrison Curnutte, McDaniel College
Developmental Biology and Genetics: Genetics

O-078
A Search for an ATM Gene Mutation in Maize
Socrates Bassuk, University of Minnesota
Developmental Biology and Genetics: Genetics
O-079
Studying the Cryptic Initiation Phenotype: The Interplay between RNA Polymerase II and the Nucleosome Dynamics.
Ereny Gerges, University of North Carolina at Pembroke
Developmental Biology and Genetics: Genetics

O-080
Tissue-Specific Loss of SMN and its Effect on the Immune Response of Drosophila Melanogaster
Helen Dinh, University of North Carolina, Chapel Hill
Developmental Biology and Genetics: Genetics

Oral Session 2: Engineering, Physics and Mathematics
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 222 C

O-081
The Role of Glucose Metabolism in Cardiovascular Calcification and Fibrosis
Daniela Medina, Florida International University
Engineering, Physics and Mathematics: Biomedical Engineering

O-084
Cosolutes and Their Effect on a Domain-Swapped Homodimer
Gerardo Perez Goncalves, University of North Carolina, Chapel Hill
Engineering, Physics and Mathematics: Biophysics

O-085
720 MHz Pulse EPR Oxygen Imaging for Radiation Targeting
Raymond Thicklin, University of California, Santa Barbara
Engineering, Physics and Mathematics: Biophysics

Oral Session 2: Immunology and Microbiology
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 127 A

O-086
Adherent Biofilms in Bacterial Vaginosis
Kristina Folta, Fred Hutch Cancer Research Center
Immunology: Host Responses

O-087
Targeting the Cytokine Storm in Microbial Pathogenesis
Aws Ahmed, University of Texas at El Paso
Immunology: Host Responses

O-088
Characterization of s1289 in Biofilm Formation and Infection in S. flexneri
Eric Rodriguez-Lopez, University of Puerto Rico at Ponce
Microbiology: Bacteriology

O-089
High-Throughput Imaging of Serum Bactericidal Assays
Cecilia Villanueva, University of Kansas
Microbiology: Bacteriology

O-090
The Effects of CC16 on Mucin Production in Primary Human Bronchial and Nasal Epithelial Cells
Mariana McCune, University of Arizona
Immunology: Basic Immunology

Oral Session 2: Microbiology and Social and Behavioral Sciences and Public Health
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 121 ABC

O-091
Visualization of Esx-1 during Mycobacterial Communication
Belle Henry, University of California, San Francisco
Microbiology: Microbial Physiology

O-092
Racial Disparities in Mortality among Highly Elite Persons
Danielle Gaskin, George Washington University
Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

O-093
Farmer’s Markets: Community Impact and Factors That Determine Their Success
Fatima Ajose, Henry Ford Health System
Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

O-094
Digital Data Reconstruction and Statistical Evaluation of Cancer Biomarkers
Seher Ali, City College of New York
Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics
O-095
Assessing the Impact of ACCURE Nurse Navigators on Improving Cancer Treatment Compliance
Fatima Guerrab, University of North Carolina, Chapel Hill
Social and Behavioral Sciences and Public Health: Sociology

Oral Session 2: Neuroscience
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 131 AB

O-096
RNA Sequencing in Mouse Neurons Reveals Regulatory Function of the nBAF Complex In Neurons
Daniel Gutierrez, University of California, Irvine
Neuroscience: Neurobiology

O-097
Characterizing Brainstem-Midbrain Circuitry Mediating Aversion-Related Behaviors
Jessica Du, University of California, Berkeley
Neuroscience: Neurobiology

O-098
Investigating Environmental Factors Associated with Autism Spectrum Disorder; Effects of Methylene Chloride on Neurodevelopment in Zebrafish
Juvi Ruffatto, Oberlin College
Neuroscience: Neurobiology

O-099
Investigating Cre Expression Patterns under Different C. elegans Neuron-Specific Promoters
Sierra Lear, Tulane University
Neuroscience: Neurobiology

O-100
Context-Dependent Modification of the Sequential Order of Elements in a Complex Learned Behavior
Christian Monroy Hernandez, University of California, San Francisco
Neuroscience: Neuroscience

O-101
An Induced Neuronal Cell Model to Study Etiological Features of Schizophrenia
Paxton Lozano, University of Southern California
Neuroscience: Neurobiology

O-102
Exploring Mitochondrial Protein Homeostasis in Peripheral Axons
Kennedy Goldsborough, Harvard Medical School and Boston Children's Hospital
Neuroscience: Neurobiology

O-103
Adrenergic Signaling Mediates Synapse Elimination in Developing Central Nervous System by Induction of Astrocyte-Derived Interleukin-33
Olga Vafaeva, Hunter College (CUNY)
Neuroscience: Neurobiology

O-104
Dose and Time Dependent Changes to Rotation Behavior and Immunoreactivity of Tyrosine Hydroxylase Staining in 6-OHDA Lesion Mice
Kia Thomas, Emory University
Neuroscience: Neurobiology

O-105
Determining the Effects of Chronic Interferon Stimulation on Heme Oxygenase Expression in Human Monocyte Derived Macrophages
Bryan Cobo, University of Puerto Rico, San Juan
Neuroscience: Neurobiology

“The conference was a wonderful, amazing experience that allowed me to explore a diverse set of disciplines while networking with fellow scientists. It reaffirmed my interest in the biomedical research field and has given me even more encouragement to follow through with it.”
Oral Session 2: Physiology and Cell Biology
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 222 AB

O-106
Natriuretic Peptides Stimulate cGMP Production in the Mouse Inner Ear
Joel Madson, University of Minnesota Medical School
Physiology: Physiology

O-107
Exercise-Induced Bronchoconstriction on Oxygen Deficit and Oxygen Debt in Athletes and Sedentary Individuals during Exercise
Alexandria Skipper, University of West Alabama
Physiology: Physiology

O-108
Regrowing a Tail: Does Regeneration Catch up to Normal Size?
Alexis Sauceda-Quintero, University of Nevada, Las Vegas
Physiology: Physiology

O-109
Acute Kidney Injury after Minimally Invasive Lung Lobectomy: A Retrospective Analysis
Jovanka Noel, Memorial Sloan Kettering Cancer Center
Physiology: Physiology

O-110
Do Ral GTPases Mobilize Exocyst Complexes to Distinct Sub-Cellular Organelles to Promote Oncogenesis?
Jane-Frances Aruma, Lincoln University of Pennsylvania
Cell Biology: Molecular Imaging

Oral Session 2: Social and Behavioral Sciences and Public Health
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 124 AB

O-111
Understanding the Role of Spirituality in the Well-Being of Latino Patients with Advanced Cancer
Iovana Bonfante Gonzalez, Memorial Sloan Kettering Cancer Center
Social and Behavioral Sciences and Public Health: Psychology

O-112
The Influence of Genetic Plasticity and Socioeconomic Status on Brain Morphology
Gabrielle Akcelik, University of Chicago
Social and Behavioral Sciences and Public Health: Psychology

O-113
Does Training Impact Police Officers’ Race Bias in Their Decisions to Shoot?
Brianna Benjamin, Michigan State University
Social and Behavioral Sciences and Public Health: Psychology

O-114
Outcomes of Proximal Gastrectomy for Patients with Gastroesophageal Adenocarcinoma: A Retrospective Study
Fadia Ahmad, City College of New York
Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics
Suicidal Ideation and Attempts among African American Youth Who Present to an Urban Emergency Department
Bria Goode, Center for Diversity in Public Health Leadership Training at Kennedy Krieger Institute Social and Behavioral Sciences and Public Health" Public Health and Epidemiology/Biostatistics

Oral Session 2: Social and Behavioral Sciences and Public Health
Saturday, November 4, 8:00 a.m. – 9:15 a.m.
Room 129 AB

Assessing Regional Mental Health Treatment Access amongst Children Aged 2-17 Years
Sarah Tayel, Center for Diversity in Public Health Leadership Training at Kennedy Krieger Institute Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

The Role of Parental Insurance in Young Adults’ Willingness to Take PrEP
Kelvin Moore, Center for Diversity in Public Health Leadership Training at Kennedy Krieger Institute Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

Spinal Bracing in Patients with Cancer: Indications and Outcomes
Nicole Agaronnik, Memorial Sloan Kettering Cancer Center Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

DNA Methylation and Obesity in Survivors of Pediatric Acute Leukemia (ALL): A Report from the Childhood Cancer Survivor Study (CCSS)
Vidal Arroyo, Baylor College of Medicine Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

Vernell Brown, Morehouse College Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

“Out of all the lessons I learned in ABRCMS, the most valuable must be the importance of networking. I learned to step out of my comfort zone in many ways, from travelling alone for the first time to speaking to people I had never met before.”
The Exhibit Hall Passport offers you the chance to win prizes while exploring the programs and opportunities within the ABRCMS exhibit hall. Instructions for participating in the Exhibit Hall Passport can be found on the back of this card.

You could win one of the following prizes:

- Amazon Echo Dot
- Bose Speaker
- $50 Visa Gift Card
- $25 iTunes Gift Card

Booth #617
Booth #1116
Booth #735
Booth #503

Booth #401
Booth #701
Booth #538
Booth #435

Booth #222
Booth #411
Booth #1016
Booth #233
Here's How the Exhibit Hall Passport Works

• Visit the booths of each participating exhibitor and have them stamp their section of the passport grid.
• After the grid is complete, enter your contact information and submit your card at the ASM Booth #700.
• Drop off completed card by **10:00 a.m. on Saturday, November 4** to be eligible for the drawing.
• Winners will be posted on Saturday, November 4 at 11:00 a.m. at the ASM Booth # 700.
• You do not need to be present to win.

Your Contact Information

Name __________________________________________________________________________

University ______________________________________________________________________

Phone __________________________________________________________________________

Email __________________________________________________________________________

Registration Type (Circle one) Student Non Student Exhibitor

Exhibit Hours

**Thursday, November 2**
1:45 p.m. – 5:30 p.m.

**Friday, November 3**
10:15 a.m. – 12:00 p.m.
3:00 p.m. – 6:00 p.m.

**Saturday, November 4**
9:15 a.m. – 12:00 p.m.
"I always thought that being a scientist was for “other” people, but it is for me!"

"ABRCMS has been an amazing opportunity for me to connect with and advise undergraduate students in the sciences. My goal was to inspire students to continue to pursue their endeavors in science and to have the confidence and tact to position themselves as excellent graduate school and medical school applicants and once accepted to take advantage of opportunities and excel at the graduate level."

"Thank you for the extraordinary opportunity to have been able to be not only encouraged, but also inspired by the amazing people at the conference. Being a first generation Hispanic woman in engineering at a community college, I am beyond grateful for such a wonderful opportunity to grow and learn so much from everyone."
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ASM Undergraduate Research Fellowship  
Application Deadline: February 15, 2018  
Target audience: community college, undergraduate, and post-baccalaureate students  

Funding support to:  
• participate in a 10-12 week summer research program,  
• participate in the ASM Microbe Academy for Professional Development (MAPD), and  
• present your research at the ASM Microbe Meeting  

ASM Research Capstone Fellowship  
Application Deadline: March 1, 2018  
Target audience: community college, undergraduate, and post-baccalaureate students - master’s level and early-graduate students (prior to taking the preliminary exam)  

One year funding support to:  
• attend the ASM Microbe Academy for Professional Development (MAPD)  
• present at ASM Microbe Meeting  

ASM Research Capstone Fellowship  
Application Deadline: March 1, 2018  
Target audience: doctoral candidates (post-preliminary examination)  

Funding support up to three years to:  
• attend the ASM Microbe Academy for Professional Development (MAPD),  
• present at ASM Microbe Meeting, and  
• participate in local/national meetings or courses  

Visit: www.asm.org/index.php/findfunding  

Come talk to ASM staff in booth #700 to learn more about the fellowship programs and other Education Board resources.
## Staff Contact Information

<table>
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<th>Student Presentations &amp; Judges Program</th>
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<th>Exhibits Program &amp; Sponsorship</th>
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