PUT YOUR PASSION INTO PRACTICE

STOP BY THE KCU BOOTH (621) TO LEARN ABOUT OUR:

DOCTOR OF OSTEOPATHIC MEDICINE (DO)
DOCTOR OF PSYCHOLOGY IN CLINICAL PSYCHOLOGY (PsyD)
MASTER OF SCIENCE IN BIOMEDICAL SCIENCE (MS)

WWW.KCUMB.EDU
# Table of Contents

Conference Welcome (Avery August, Ph.D.) ...................................................... 2  
Greetings (Jon Lorsch, Ph.D., Alison Gammie, Ph.D.) .......................................... 3  
Schedule at a Glance ............................................................................................ 4  
Important Conference Information ...................................................................... 6  
Enhancements and Highlights ................................................................................. 8  
Networking Meals by Discipline .......................................................................... 10  
ABRCMS Supporters ........................................................................................... 11  
ABRCMS Plenary Speakers ............................................................................... 12  
Concurrent Scientific Speakers ......................................................................... 13  
Program ........................................................................................................... 14-30  
Poster Presentation by Scientific Listing .......................................................... 32  
Student Oral Presenters Listing ....................................................................... 33-42  
Exhibit Hall Passport .......................................................................................... 43-44  
Exhibitor Listing .................................................................................................. 45-51  
Exhibit and Poster Hall Floor Plan ..................................................................... 52-53  
ABRCMS Steering Committee .......................................................................... 54

All program content is current as of October 24, 2018.

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## Join the conversation!  
#ABRCMS  
Download the official conference mobile app for the most up-to-date and detailed information.

[facebook.com/abrcms](https://facebook.com/abrcms)  
[instagram.com/abrcms](https://instagram.com/abrcms)  
[twitter.com/abrcms](https://twitter.com/abrcms)
Welcome from Avery August

On behalf of the Annual Biomedical Research Conference for Minority Students (ABRCMS), I would like to welcome you to Indianapolis, Indiana, and the 2018 meeting. This is the 18th year that we have been organizing and hosting this conference, and this year continues to be one of change, adjustment and transformation. We have seen change how changes in administration has catalyzed changes in societal engagement of scientists, and continued changes in the meeting itself. I continue to firmly believe that it is even more imperative that ABRCMS exists. I continue to be heartened and extremely proud that ABRCMS continues its tradition of being transformational for our students.

It is therefore fitting that the theme of our meeting this year, “Shaping Tomorrow’s Diverse STEM Leaders Today,” focuses on how we can continue to affirmatively be part of preparing future leaders in STEM. ABRCMS is extremely proud of the role that we play in transforming underrepresented students for a career STEM research. But more than a career, we strive to develop leaders, leaders who can carry the ABRCMS tradition of transformational change. At no other time has biomedical science been at its promising to improve health, and with that improvement, drive social change reduce health disparities, and impacts of environmental and climate change that affect our communities. Tomorrow leaders emerging from ABRCMS will be leading this change.

We are proud to present this incredible program this year! For the students attending, 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.

Each year, the ABRCMS meeting follows hurricane season, and this year, again, our hearts go out to our colleagues, students and their families in areas affected by the devastating hurricanes, many of whose homes and lives are upended, some in Puerto Rico after more than 1 year. The ABRCMS Steering Committee, the ASM staff, the exhibitors (make sure to visit the booths!), and many volunteers have done a remarkable job to make this meeting possible. They have invested their most precious resource, time, in 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 you can allow your inner leader to emerge. I would like to thank them all in advance 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 2018 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 Bridges to the Baccalaureate, Maximizing Access to Research Careers, Research Initiative for Scientific Enhancement, Initiative for Maximizing Student Development, Postbaccalaureate Research Education, Bridges to the Doctorate, and Institutional Research and Academic Career Development Awards. 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. 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
Schedule at a Glance

Wednesday, November 14

12:00 p.m. – 8:00 p.m.               Registration Open
8:00 a.m. – 6:00 p.m.               Concurrent Workshops
3:00 p.m. – 4:30 p.m.               Concurrent Professional Development Sessions
5:00 p.m. – 6:00 p.m.               Concurrent Professional Development Sessions
6:30 p.m. – 8:30 p.m.               Networking Dinner and Opening Keynote Address
8:45 p.m. – 9:15 p.m.               ABRCMS Travel Awardee Orientation

Thursday, November 15

7:30 a.m. – 7:00 p.m.                Registration Open
7:00 a.m. – 7:45 a.m.                Networking Breakfast
8:00 a.m. – 8:45 a.m.                Mandatory Judges Meeting by Discipline
8:00 a.m. – 9:00 a.m.                Orientation for Students
8:00 a.m. – 9:00 a.m.                Concurrent Professional Development Sessions
9:15 a.m. – 10:00 a.m.              Concurrent Scientific Sessions
10:15 a.m. – 11:15 a.m.             Concurrent Professional Development Sessions
11:30 a.m. – 12:15 p.m.             Concurrent Professional Development Sessions
12:15 p.m. – 1:00 p.m.               Networking Lunch by Discipline
1:00 p.m. – 1:45 p.m.                Plenary Scientific Session
1:45 p.m. – 5:30 p.m.                Exhibit and Poster Hall Hours
2:00 p.m. – 3:15 p.m.                Poster Session 1 (A)
3:00 p.m. – 5:00 p.m.                Mentoring Coaching
3:30 p.m. – 4:45 p.m.                Poster Session 2 (B)
5:30 p.m. – 6:45 p.m.                Oral Presentations
7:00 p.m. – 7:45 p.m.                Networking Dinner by Discipline
8:15 p.m. – 9:30 p.m.               Concurrent Professional Development Sessions
8:00 p.m. – 10:00 p.m.              Master’s Level Poster Session/Grad Student and Postdoc Dessert and Networking Mixer

“This conference provides a warmth and welcoming environment where students receive continuous support, mentorship, and a breadth of resources that empowers them to achieve their dreams and shows them that they matter.”
### Friday, November 16

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 a.m. – 5:00 p.m.</td>
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<td>Mentoring Coaching</td>
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<td>10:30 a.m. – 11:45 a.m.</td>
<td>Poster Session 3 (C)</td>
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<tr>
<td>12:15 p.m. – 1:00 p.m.</td>
<td>Networking Lunch by Discipline</td>
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<tr>
<td>1:00 p.m. – 1:45 p.m.</td>
<td>Plenary Scientific Session</td>
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<tr>
<td>2:00 p.m. – 3:00 p.m.</td>
<td>Concurrent Professional Development Sessions</td>
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<td>3:00 p.m. – 6:00 p.m.</td>
<td>Exhibit and Poster Hall Hours</td>
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<td>3:15 p.m. – 4:30 p.m.</td>
<td>Poster Session 4 (D)</td>
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<tr>
<td>3:30 p.m. – 4:15 p.m.</td>
<td>Mentoring Showcase</td>
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<tr>
<td>4:30 p.m. – 5:30 p.m.</td>
<td>Mentoring Coaching</td>
</tr>
<tr>
<td>4:45 p.m. – 6:00 p.m.</td>
<td>Poster Session 5 (E)</td>
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<tr>
<td>6:15 p.m. – 7:15 p.m.</td>
<td>Concurrent Professional Development Sessions</td>
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<tr>
<td>6:30 p.m. – 9:00 p.m.</td>
<td>Networking Events</td>
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### Saturday, November 17

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<tr>
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<td>Exhibitor Showcase</td>
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<tr>
<td>9:30 a.m. – 11:30 a.m.</td>
<td>Mentoring Coaching</td>
</tr>
<tr>
<td>10:00 a.m. – 11:15 a.m.</td>
<td>Poster Session 6 (F)</td>
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<tr>
<td>12:15 p.m. – 1:00 p.m.</td>
<td>Networking Lunch</td>
</tr>
<tr>
<td>1:00 p.m. – 1:45 p.m.</td>
<td>Closing Keynote Address</td>
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<tr>
<td>2:15 p.m. – 3:15 p.m.</td>
<td>Concurrent Professional Development Sessions</td>
</tr>
<tr>
<td>3:30 p.m. – 4:30 p.m.</td>
<td>Concurrent Professional Development Sessions</td>
</tr>
<tr>
<td>4:30 p.m. – 7:30 p.m.</td>
<td>FREE TIME!</td>
</tr>
<tr>
<td>7:30 p.m. – 10:00 p.m.</td>
<td>Banquet and Awards Ceremony</td>
</tr>
<tr>
<td>10:00 p.m. – 2:00 a.m.</td>
<td>Dance and Social (all are invited)</td>
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</tbody>
</table>

“ABRCMS gives me hope that there will be a diverse scientific workforce in the future.”
Important Conference Information

Orientation for Community College, Undergraduate, and Postbaccalaureate Students
ABRCMS orientation will help maximize your learning and networking opportunities throughout the conference. Orientation will be held on Thursday, November 15, from 8:00 a.m. – 9:00 a.m.

ABRCMS Mobile App
Get the latest conference program, exhibitor information, conference maps and much more at your fingertips with the ABRCMS Mobile App. 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 Judges Lounge (Room: 141).

Dining Plan
The daily dining plan is included in the registration fee. Registration includes the following meals:

- Wednesday: Dinner
- Thursday: Breakfast, Lunch, and Dinner
- Friday: Breakfast and Lunch
- Saturday: Breakfast, Lunch, and Awards Banquet

Awards Banquet and Ceremony
The Awards Banquet and Ceremony is Saturday, November 17, from 7:30 p.m. – 10:00 p.m. The ceremony will begin promptly at 7:30 p.m.

Wifi at ABRCMS
Great news! 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 ID – ABRCMS
Password – ABRCMS2018

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 $50 for badge replacement. No exceptions will be made.

Evaluation
This year we are re-implementing real time evaluation during sessions. Please take a few minutes to complete your evaluation in the mobile 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, 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 within Scientific Disciplines
Networking sessions will be held on Wednesday, November 14, from 5:00 p.m. – 6:00 p.m. 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 within the 12 scientific disciplines are strongly encouraged to attend.

Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences
Thursday, November 15, from 8:15 p.m. – 9:30 p.m. Research scientists and representatives from a variety of career sectors will engage students in small group discussions focused on “a day in the life of a research scientist.” They 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/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.

ABRCMS Code of Conduct
The Annual Biomedical Research Conference for Minority Students (ABRCMS), managed by the American Society for Microbiology (ASM), is one of the nation’s largest conferences for underrepresented students in STEM. 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. 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. ABRCMS prohibits and will not tolerate any form of harassment or bullying at its events. This policy applies to all attendees, speakers, exhibitors, contractors, volunteers, and guests at ABRCMS. Violation of this code of conduct may result in the participant being asked to leave the event at which the incident occurred, without warning or refund; being barred from attending ABRCMS in the future.

If a participant experiences or witness harassment, please follow the protocol at abrcms.org/code-of-conduct or contact an ASM/ABRCMS staff (identifiable by staff badge) as soon as possible or contact security.

Rooms
Exam Rooms
Lincoln (Marriott Downtown)
Room 242 (Indiana Convention Center);
Thursday – Saturday
Sign ups available at the Registration desk.

Poster Presentation Practice Room
Room 144 –145 (Indiana Convention Center)

Oral Presentation Practice Room
Room 143 (Indiana Convention Center)

Speaker Ready Room
Room 142

First Aid Room
Convention Center, Registration Area
ABRCMS Year-round Programming
ABRCMS has extended its mission and vision by establishing a year-round program to continue broadening the success of student development, as they pursue higher education in the biomedical sciences. Phase 1 of the program implementation focuses on programming and resources for students in two main categories: pre-ABRCMS and post-ABRCMS. Topics include, but are not limited to:

• How to write and submit an abstract (pre-ABRCMS)
• How to present a poster and get ready for ABRCMS (pre-ABRCMS)
• Connecting students to graduate schools (post-ABRCMS)
• How to prepare and choose a summer research experience (post-ABRCMS)

Phase 2 of implementation (ABRCMS 2019 and beyond) will focus on programming for early career professionals, faculty and advisors.

Visit the ABRCMS “Education & Training” page at http://abrcms.org/ed-training for more information about our year-round programs.

College/University Spirit Day
On Wednesday, November 14, represent your institution by sporting your school jacket, t-shirt, tie, polo, and etc. Don’t forget to show off your school spirit on the ABRCMS Twitter, Instagram, and Facebook pages using #ABRCMS

Master’s Level Poster Session/Grad Student and Postdoc Dessert and Networking Mixer
(Sponsored by IU College of Arts & Sciences, IU School of Medicine Biomedical Science Gateway Programs, and The University Graduate School at IU and IUPUI)

BACK BY POPULAR DEMAND! Exhibit Passport
Participate in the exhibit hall passport program to win prizes. See page 43 – 44 for details.

BACK BY POPULAR DEMAND! Presentation Practice and Peer Mentoring Sessions
(Sponsored in Partnership with FASEB)
The FASEB MARC Program will sponsor poster/oral presentation practice and peer mentoring sessions for students presenting at ABRCMS 2018. These practice sessions are scheduled for 30-minute periods. Students MUST sign up at the JW Marriott (Room 207) in advance.

FASEB Practice Room Hours/Location
FASEB Poster Practice Room
201-203 (JW Marriott)
FASEB Oral Practice Room
204-205 (JW Marriott)
Wednesday, November 14
9:00 a.m. – 10:00 p.m.
Thursday, November 15
7:00 a.m. – 10:30 p.m.
Friday, November 16
7:00 a.m. – 10:00 p.m.

FASEB Presentation Practice Mentors
• Tyesha Burks, Ph.D.
  Bowie State University
• Laura de Lorenzo, Ph.D.
  University of Kentucky
• Felicia Emery, Ph.D.
  St. Charles Community College
• Kamilah Grant, Ph.D.
  Alcorn State University
• Mario Izaguirre-Sierra, Ph.D.
  Northern New Mexico College
• Oliver Jenkins, Jr., 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.
  University of Kansas
• Melissa Mason, Ph.D.
  Alcorn State University
• Kimberly Mulligan-Guy, Ph.D.
  Auburn University
• Jayne S. Reuben, Ph.D.
Exhibitor Showcase
Join us in the Exhibit and Poster Hall for the inaugural Exhibition Showcases, where you can hear directly from the exhibitors. These innovative 20-minute presentations will be held on Saturday, November 17, from 9:30 a.m – 11:20 a.m. in the Exhibit Hall Theater.

9:30 a.m. – 9:50 a.m.
American Society for Microbiology
Education Department

10:00 a.m. – 10:20 a.m.
St. Jude Children’s Research Hospital Graduate School of Biomedical Sciences

10:30 a.m. – 10:50 a.m.
Emory University – Laney Graduate School

11:00 a.m. – 11:20 a.m.
Purdue University/Weldon School of Biomedical Engineering

Mentoring Showcase
(Recommended for all students)
Join us in the Exhibit and Poster Hall for the Mentoring Showcase, where you can hear about relevant topics in mentoring. This will be held on Friday, November 16 from 3:30 p.m. – 4:15 p.m. in the Exhibit Hall Theater.

Session Time: 3:30 p.m. – 4:15 p.m.
Group Coaching Time: 4:30 p.m. – 5:30 p.m.

2018 ABRCMS Mentors
• Howard G. Adams, Ph.D.
  H.G. Adams & Associates
• Earnestine Baker, M.A.
  University of Maryland, Baltimore County
• Marcus Huggans, Ph.D.
  GEM Fellowship
• Deborah King, Ph.D.
  Dartmouth College
• Juan Ramirez Lugo, Ph.D.
  University of Puerto Rico, Rio Piedras
• Amy Maki, Ph.D.
  A.O. Maki & Associates
• Camille McKayle, Ph.D.
  University of the Virgin Islands
• Beronda Montgomery, Ph.D.
  Michigan State University
• Ofelia Olivero, Ph.D.
  National Institutes of Health
• Manu Platt, Ph.D.
  Georgia Tech/Emory University
• Yvette Pearson, Ph.D.
  Rice University
• Marquitta Qualls, Ph.D.
  Entropia Consulting
• Cheryl Rowe Rendleman, Ph.D.
  Omar Consulting
• Sylvia Wilson Thomas, Ph.D.
  H.G. Adams & Associates
• Patrice Yarbough, Ph.D.
  NASA

BACK BY POPULAR DEMAND!
Mentoring Coaching Sessions
(Recommended for all students)
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. First-time attendees should be especially mindful that first impressions are critical at the beginning of their careers.
ABRCMS offers many opportunities for networking. Join colleagues with similar interest to share ideas and develop research collaborations. Networking is strongly encouraged throughout the conference; however, attendees are asked to sit in their respective disciplines during lunch and dinner on Thursday, and during lunch on Friday. Disciplines tables are identified by napkin colors. See table below.

**Networking Meals by Discipline**

- **Social and Behavioral Sciences and Public Health, Physiology**
- **Microbiology, Immunology, Cell Biology**
- **Cancer Biology, Developmental Biology & Genetics**
- **Neuroscience, Developmental Biology**
- **Biochemistry and Molecular Biology, Computational & Systems Biology**
- **Engineering, Physics & Mathematics, Chemistry**

ABRCMS would like to recognize the following universities and organizations for their support of ABRCMS 2018.
ABRCMS would like to recognize the following universities and organizations for their support of ABRCMS 2018.

Major Conference Sponsors

Diamond Sponsors
• IU Office of the Biocentennial
• IU School of Medicine – Biomedical Science Graduate Programs
• Marian University – College of Osteopathic Medicine & Biomedical Sciences
• The University Graduate School at IU and IUPUI

Platinum Sponsors
• NewScientist
• University of Alabama at Birmingham

Gold Sponsors
• American Chemical Society
• Biocomputational Evolution in Action (BEACON)@A&T
• Genentech, Inc.
• Novartis Institutes for BioMedical Research
• NYU School of Medicine, Sackler Institute of Graduate Biomedical Sciences
• Society of Toxicology
• University of South Florida

Silver Sponsors
• American Heart Association/American Stroke Association
• American Physiological Society
• American Society for Biochemistry and Molecular Biology
• Columbia University Vagelos College of Physicians & Surgeons
• Howard Hughes Medical Institution (HHMI)

Bronze Sponsors
• Medical College of Wisconsin (MCW) Graduate School
• Medical College of Wisconsin (MCW) Medical School
• Medical College of Wisconsin Pharmacy School
• Society for Neuroscience
• St. Jude Children’s Research Hospital Graduate School of Biomedical Sciences
• University of Kansas – Graduate Studies and Self Graduate Fellowship
• University of Minnesota Biomedical Sciences Graduate Programs
• University of Minnesota Medical Scientist Training Program
• Weill Cornell Graduate School of Medical Sciences

Major Conference Sponsors

ABRCMS 2018 Supporters

NIH National Institute of General Medical Sciences

AMERICAN SOCIETY FOR MICROBIOLOGY

SHAPING TOMORROW’S DIVERSE STEM LEADERS TODAY
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Institution/Location</th>
</tr>
</thead>
</table>
| Wednesday, November 14 | 7:45 p.m. – 8:30 p.m. | **OPENING KEYNOTE ADDRESS** | Science Focused on Human Development | Wanda Díaz Merced, Ph.D.  
South African Astronomical Observatory  
Cape Town, South Africa |
| Thursday, November 15 | 1:00 p.m. – 1:45 p.m. | **PLENARY SCIENTIFIC SESSION** | Dynamic Control of Metabolic Flux for Pathway Engineering | Kristala L. Jones Prather, Ph.D.  
Massachusetts Institute of Technology, Cambridge, MA |
| Friday, November 16  | 8:00 a.m. – 9:00 a.m. | **PLENARY SESSION** | State of STEM Research in Hurricane Impacted Areas and Lessons Learned | Juan S. Ramírez Lugo, Ph.D.  
University of Puerto Rico, Rio Piedras, PR |
| Friday, November 16  | 1:00 p.m. – 1:45 p.m. | **PLENARY SCIENTIFIC SESSION** | Insights from non-human animals into the neurobiology of language | Erich D. Jarvis, Ph.D.  
The Rockefeller University  
New York City, NY |
| Saturday, November 17 | 1:00 p.m. – 1:45 p.m. | **CLOSING KEYNOTE ADDRESS** | Translating Science: Obstacles and Opportunities | Kafui Dzirasa, M.D., Ph.D.  
Duke University, Durham, NC |

“Everyone’s voices are heard and valued — ABRCMS helps highlight the human side of science: the fact that every researcher has a story, and that every story is valuable.”
Thursday, November 15  |  9:15 a.m. – 10:00 a.m.

**Making Sense of Biomedical Research**
Vanessa Ezenwa, Ph.D.
University of Georgia
Athens, GA

**Making Sense of Biomedical Research**
Brandon Ogbunu, Ph.D.
Brown University
Providence, RI

**Making Sense of Biomedical Research**
Luis Zaman, Ph.D.
University of Michigan
Ann Arbor, MI

**Transplacental Genotoxicity of AIDS Therapy**
Ofelia Olivero, Ph.D.
National Cancer Institute, NIH
Rockville, MD

**Scientific Discoveries of the BRAIN Initiative®**
Michelle Jones-London, Ph.D.
National Institute of Neurological Disorders and Stroke
Bethesda, MD

**Scientific Discoveries of the BRAIN Initiative®**
Carlos Lois, M.D., Ph.D.
California Institute of Technology
Pasadena, CA

**Scientific Discoveries of the BRAIN Initiative®**
Dario Ringach, Ph.D.
University of California, Los Angeles
Los Angeles, CA

**Making a Face: Visualizing Cellular Behaviors During Normal and Defective Orofacial Development**
Oscar Ruiz, Ph.D.
MD Anderson Cancer Center
Houston, TX

**Bow to the Microbial Overlords: An Introduction to Microbiome Research**
Jacquelyn Meisel, Ph.D.
University of Maryland, UMIACS
College Park, MD

**Bow to the Microbial Overlords: An Introduction to Microbiome Research**
Mihai Pop, Ph.D.
University of Maryland, UMIACS
College Park, MD

**From Clinical Treatments to a Gene Therapy Cure for Sickle Cell Disease**
Betty Pace, M.D.
Augusta University
Augusta, GA

**NextGen STEM: The Future of Developmental & Regenerative Biology**
Caralina Marín de Esvikova, Ph.D.
University of South Florida Health
Tampa, Tampa, FL

**NextGen STEM: The Future of Developmental & Regenerative Biology**
Nestor Oviedo, Ph.D.
University of California, Merced
Merced, CA

**“Cell Biologists Love to take “cellfies” — Strategies to Understand the Cell Biology of Disease**
James Olzmann, Ph.D.
University of California, Berkeley
Berkeley, CA

**Sunlight, Cancer, and Caffeine: Chemoprevention for Skin Cancer**
Masaoki Kawasumi, M.D., Ph.D.
University of Washington
Seattle, WA

**All Aboard! How the Monon Trail Initiative Plans to Improve Indiana’s Health Community by Community**
Anantha Shekhar, M.D., Ph.D.
Indiana University School of Medicine, CTSI
Indianapolis, IN
All sessions take place in the Indiana Convention Center unless otherwise noted.

Repeat Sessions are denoted by ★

Wednesday, November 14

8:00 a.m. – 5:30 p.m.
JW Marriott 103 – 104

Bring Your Research to the Students:
Developing CURE’s
In partnership with REIL Biology Network
(Recommended for postdoctoral scientists, faculty, program directors, and exhibitors)

Speakers
• Christopher Beck, Ph.D., Emory University, Atlanta, GA
• Lawrence Blumer, Ph.D., Morehouse College, Atlanta, GA
• Rachelle Spell, Ph.D., Emory University, Atlanta, GA

3:00 p.m. – 6:00 p.m.
Room 242

Do You Play Fair?
(Recommended for postdoctoral scientists, faculty, program directors, and exhibitors)

Speakers
• Percy Brown, MS.Ed., University of Wisconsin Madison, Wisconsin Center for Education Research, Madison, WI
• Donald Dantzler, MS.Ed., University of Wisconsin Madison, Wisconsin Center for Education Research, Madison, WI

Concurrent Professional Development Sessions
(4 Session Options)

3:00 p.m. – 4:30 p.m.
Session 1 | Rooms 134 – 135

A Case Study: How to Move Student Unrest About Diversity Forward in the Direction of Reconciliation
(Recommended for graduate students, postdoctoral scientists, faculty, program directors, and exhibitors)

Speakers
• Sara Police, Ph.D., University of Kentucky, Lexington, KY
• Renay Scales, Ph.D., University of Kentucky, Lexington, KY

3:00 p.m. – 4:30 p.m.
Session 2 | Rooms 136 – 137

Panel Discussion: So...You Want to Go to Grad School
(Recommended for community college, undergraduate, and postbaccalaureate students)

Panelists
• Simone Douglas, Ph.D. candidate, Georgia Institute of Technology & Emory University, Atlanta, GA
• Rhea-Comfort Addo, Ph.D. student, University of California, San Diego, San Diego, CA
• Alyssa Brunol-Brown, Ph.D. candidate, Virginia Polytechnic Institute, Blacksburg, VA
• Victor Reyes-Umaña, Ph.D. candidate, University of California, Berkeley, Berkeley, CA

3:00 p.m. – 4:30 p.m.
Session 3 | Rooms 132 – 133

Build Your Personal Statement!
(Recommended for all students)

Speakers
• Victoria Freedman, Ph.D., Albert Einstein College of Medicine, New York, NY
• Nancy Schwartz, Ph.D., University of Chicago, Chicago, IL
3:00 p.m. – 4:30 p.m.
Session 4 | Rooms 138 – 139
Presentation Techniques: How to Make Effective Poster and Oral Presentations
(Recommended for first-time presenters and non-presenters)

Moderator
• Florisela Herrejon Chavez, Ph.D. student, Gerstner Sloan Kettering Graduate School of Biomedical Sciences, New York, NY

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

 Concurrent Professional Development Sessions
(3 Session Options)

5:00 p.m. – 6:00 p.m.
Session 1
Networking in Your Scientific Discipline – All Disciplines –
(Recommended for all students)
Biochemistry and Molecular Biology: Rooms 236 – 237
Cancer Biology: Room 234
Cell Biology: Room 233
Chemistry: Rooms 240 – 241
Computational Biology and Systems Biology: Room 235
Developmental Biology and Genetics: Room 232
Engineering, Physics and Mathematics: Room 231
Immunology: Rooms 130 – 131
Microbiology: Rooms 238 – 239
Neuroscience: Rooms 134 – 135
Physiology: Rooms 132 – 133
Social and Behavioral Sciences and Public Health: Rooms 136 – 137

5:00 p.m. – 6:00 p.m.
Session 2 | Rooms 138 – 139
Understanding Interventions: Changing Practice through Research: Self-Regulation Skills as Predictors of URM Success in Biomedical Research
In partnership with Understanding Interventions
(Recommended for postdoctoral scientists, faculty, program directors, and exhibitors)

Speakers
• Daryl E. Chubin, Ph.D., Understanding Interventions, Brooklyn, NY
• Anthony L. DePass, Ph.D., Long Island University, Brooklyn, NY
• Michelle Williams, Ph.D., University of Connecticut, Mansfield, CT

5:00 p.m. – 6:00 p.m.
Session 3 | Room 140
Job Search Strategies and Negotiating the Job Offer
(Recommended for graduate students, postdoctoral scientists, faculty, program directors, and exhibitors)

Speaker
• Lauren Celano, M.B.A., Propel Careers, Cambridge, MA

6:30 p.m. – 7:15 p.m.
Networking Dinner
Hall F – G
7:15 p.m. – 7:45 p.m.
Conference Overview & Highlights
• John Fitzgerald Gates, Ph.D., University of Virginia, Charlottesville, VA

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

Welcome Remarks
• Alison Gammie, Ph.D., National Institute of General Medical Sciences, NIH, Bethesda, MD
• Rafael Bahamonde, Ph.D., Indiana University - Purdue University Indianapolis, Indianapolis, IN
• Carl McMillian, Ph.D., Eli Lilly and Company, Indianapolis, IN
Thursday, November 15

7:00 a.m. – 7:45 a.m.
Networking Breakfast
Hall J

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS
(5 Session Options)

8:00 a.m. – 8:45 a.m.
Session 1
Mandatory Judge Meeting by Discipline
(12 sessions)
Biochemistry and Molecular Biology: Rooms 236 – 237
Cancer Biology: Room 234
Cell Biology: Room 233
Chemistry: Rooms 240 – 241
Computational and Systems Biology: Room 235
Developmental Biology and Genetics: Room 232
Engineering, Physics and Mathematics: Room 231
Immunology: Rooms 130 – 131
Microbiology: Rooms 238 – 239
Neuroscience: Rooms 134 – 135
Physiology: Rooms 132 – 133
Social and Behavioral Sciences and Public Health: Rooms 136 – 137

8:00 a.m. – 9:00 a.m.
Session 2 | Hall F – G
Orientation for Community College, Undergraduate, and Postbaccalaureate Students
(Mandatory for community college, undergraduate, and postbaccalaureate students)

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

Program Overview and Making the Most of ABRCMS
Speaker
• Sandra Murray, Ph.D., University of Pittsburgh, Pittsburgh, PA
Conference Updates and Announcements

Speaker

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

Session 3  | Rooms 138 – 139

8:00 a.m. – 9:00 a.m.

How to Navigate the NIH Peer Review Process and Receive an NIH Fellowship and Research Grant

(Recommended for graduate students, postdoctoral scientists, faculty, program directors, and exhibitors)

Speaker

• Anna Riley, Ph.D., National Institutes of Health, Center for Scientific Review, Bethesda, MD

Session 4  | Room 140

8:00 a.m. – 9:00 a.m.

Postdoc Fundamentals: Selecting a Training Experience to Match Your Career Goal

(Recommended for graduate students and postdoctoral scientists)

Speakers

• Sibby Anderson-Thompson, Ph.D., University of North Carolina at Chapel Hill, Chapel Hill, NC
• Alberto Roca, Ph.D., DiverseScholar, Orange County, CA

Session 5  | Room 242

8:00 a.m. – 9:00 a.m.

Understanding Interventions: The Influence of Scientific Communication Skills on Science Identity and Research Career Intention

In partnership with Understanding Interventions

(Recommended for postdoctoral scientists, faculty, program directors, and exhibitors)

Moderators

• Daryl E. Chubin, Ph.D., Understanding Interventions, Brooklyn, NY
• Anthony L. DePass, Ph.D., Long Island University, Brooklyn, NY

Speaker

• Carrie Cameron, Ph.D., The University of Texas MD Anderson Cancer Center, Houston, TX

CONCURRENT SCIENTIFIC SESSIONS
(10 Session Options)

9:15 a.m. – 10:00 a.m.

Session 1  | Rooms 130 – 131

Making Sense of Biomedical Research

Sponsored by Biocomputational Evolution in Action (BEACON)@A&T

Speakers

• Vanessa Ezenwa, Ph.D., University of Georgia, Athens, GA
• Brandon Ogbunu, Ph.D., Brown University, Providence, RI
• Luis Zaman, Ph.D., University of Michigan, Ann Arbor, MI

9:15 a.m. – 10:00 a.m.

Session 2  | Rooms 132 – 133

Transplacental Genotoxicity of AIDS Therapy

Sponsored by Society of Toxicology

Speaker

• Ofelia Olivero, Ph.D., National Cancer Institute, NIH, Rockville, MD

9:15 a.m. – 10:00 a.m.

Session 3  | Rooms 134 – 135

Scientific Discoveries of The BRAIN Initiative®

Speakers

• Michelle Jones-London, Ph.D., National Institute of Neurological Disorders and Stroke, Bethesda, MD
• Carlos Lois, M.D., Ph.D., California Institute of Technology, Pasadena, CA
• Dario Ringach, Ph.D., University of California, Los Angeles, Los Angeles, CA

“What is remarkable is bringing together students with such high qualifications and to have them in the same room with recruiters from key academic institutions. From my perspective, I feel the networking with schools and demystifying the application process is invaluable to students.”
9:15 a.m. – 10:00 a.m.
Session 4 | Rooms 136 – 137

Making a Face: Visualizing Cellular Behaviors During Normal and Defective Orofacial Development

Moderator:
• Arianna Gómez, Ph.D. candidate, University of Washington, Seattle, WA

Speaker
• Oscar Ruiz, Ph.D., MD Anderson Cancer Center, Houston, TX

9:15 a.m. – 10:00 a.m.
Session 5 | Rooms 138 – 139

Bow to the Microbial Overlords: An Introduction to Microbiome Research

Speakers
• Jacquelyn Meisel, Ph.D., University of Maryland, UMIACS, College Park, MD
• Mihai Pop, Ph.D., University of Maryland, UMIACS, College Park, MD

9:15 a.m. – 10:00 a.m.
Session 6 | Rooms 240 – 241

From Clinical Treatments to a Gene Therapy Cure for Sickle Cell Disease

Moderator:
• Divine Nwafor, M.D.-Ph.D. candidate, West Virginia University, Morgantown, WV

Speaker
• Betty Pace, M.D., Augusta University, Augusta, GA

9:15 a.m. – 10:00 a.m.
Session 7 | Rooms 238 – 239

NextGen STEM: The Future of Developmental & Regenerative Biology

Speakers
• Caralina Marín de Evsikova, Ph.D., University of South Florida Health, Tampa, Tampa, FL
• Nestor Oviedo, Ph.D., University of California, Merced, Merced, CA
9:15 a.m. – 10:00 a.m.
Session 8 | Rooms 236 – 237

Cell Biologists Love to Take “cellfies” — Strategies to Understand the Cell Biology of Disease

Moderator
• Beatriz Ibarra, Ph.D. candidate, Case Western Reserve University, Cleveland, OH

Speaker
• James Olzmann, Ph.D., University of California, Berkeley, CA

9:15 a.m. – 10:00 a.m.
Session 9 | Room 140

Sunlight, Cancer, and Caffeine: Chemoprevention for Skin Cancer

Moderator
• Thaiesha Wright, Ph.D. candidate, Miami University, Oxford, OH

Speaker
• Masaoki Kawasaki, M.D., Ph.D., University of Washington, Seattle, WA

9:15 a.m. – 10:00 a.m.
Session 10 | Room 234

All Aboard! How the Monon Trail Initiative Plans to Improve Indiana’s Health Community by Community

Speaker
• Anantha Shekhar, M.D., Ph.D., Indiana University School of Medicine, CTSI, Indianapolis, IN

10:15 a.m. – 11:15 a.m.
Session 1 | Rooms 232

NIGMS Program Director Discussions (2 tracks)
(Mandatory for TWD program directors)

Room 232
Diversity-focused, primarily undergraduate programs with an emphasis on:
• Student Tracking
• Student Support (while in training programs and beyond)

10:15 a.m. – 11:15 a.m.
Session 2 | Rooms 136 – 137

CAREER PATHWAY: What’s Next?: STEM Career Pathways Across Sectors
(Recommended for all students)

Speakers
• Ruan Cox, Ph.D., Moffitt Cancer Center, Tampa, FL
• Maiysha Jones, Ph.D., Procter & Gamble, Cincinnati, OH
• Dinelia Rivera-Burgos, Ph.D., Battelle, Columbus, OH
• Kevin Villalongo, M.B.A., PMP, American Laboratories, Inc., Omaha, NE

10:15 a.m. – 11:15 a.m.
Session 3 | Rooms 134 – 135

CAREER PATHWAY: Is Pharmaceutical Science for Me? “Degrees of Separation”
(Recommended for all students)

Speakers
• Manoj Chiney, Ph.D., AbbVie, Chicago, IL
• Peter Gannett, Ph.D., Nova Southeastern University, Fort Lauderdale, FL
• L’Aurelle Johnson, M.S., Ph.D., University of Minnesota, Minneapolis, MN
• Chloe N. Poston, Ph.D., The Leadership Alliance, Providence, RI
• Jayne Reuben, Ph.D., Texas A&M College of Dentistry, Dallas, TX
• Mark Simmons, Ph.D., University of Maryland Eastern Shore, Princess Anne, MD
10:15 a.m. – 11:15 a.m.  
Session 4  |  Rooms 132 – 133

CAREER PATHWAY: Exploring Career Pathways in the Biotech Industry  
Sponsored by Genentech, Inc.  
(Recommended for all students)

Speakers

• Leslie Dickmann, Ph.D., Genentech, San Francisco, CA
• Alex Gaither, Ph.D., Novartis, Basel, Switzerland
• Marlena Jackson, Genentech, San Francisco, CA
• Geneva Licht, Genentech, San Francisco, CA

10:15 a.m. – 11:15 a.m.  
Session 5  |  Rooms 236 – 237

CAREER PATHWAY: Understanding Translational Science and Developing a Career as a Translational Scientist  
(Recommended for all students)

Speakers

• Jessica Faupel-Badger, Ph.D., National Center for Advancing Translational Sciences, NIH, Bethesda, MD
• Brittany Haynes, Ph.D., National Center for Advancing Translational Sciences, NIH, Bethesda, MD
• Alan Palkowitz, Ph.D., Eli Lilly and Company, Indianapolis, IN
• Gurusingham Sittampalam, Ph.D., National Center for Advancing Translational Sciences, NIH, Bethesda, MD

10:15 a.m. – 11:15 a.m.  
Session 6  |  Rooms 130 – 131

Getting Published: Advice for Graduate Students and Postdoctoral Scientists  
(Recommended for graduate students, postdoctoral scientists, and early-career scientists)

Moderator

• Marissa Rice, Ph.D. candidate, Cornell University, Ithaca, NY

Speaker

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

10:15 a.m. – 11:15 a.m.  
Session 7  |  Rooms 138 – 139

How We Learn…and How We Don’t  
(Recommended for postdoctoral scientists, faculty, program directors, and exhibitors)

Moderator

• Aurelia Happs, Ph.D. Candidate, Johns Hopkins University, Baltimore, MD

Speaker

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

10:15 a.m. – 11:15 a.m.  
Session 8  |  Room 140

Incorporating Authentic Research in Introductory Lab Courses  
(Recommended for faculty, program directors, and exhibitors)

Speakers

• Christopher Beck, Ph.D., Emory University, Atlanta, GA
• Lawrence Blumer, Ph.D., Morehouse College, Atlanta, GA
• Rachelle Spell, Ph.D., Emory University, Atlanta, GA

10:15 a.m. – 11:15 a.m.  
Session 9  |  Rooms 238 – 239

Crafting an Effective Resume  
(Recommended for all attendees)

Speaker

• Lauren Celano, M.B.A., Propel Careers, Cambridge, MA
CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS
(5 Session Options)

11:30 a.m. – 12:15 p.m.
Session 1 | Rooms 136 – 137

Picking the Perfect Ph.D. Program for You: Why Choose a School with a T32?
(Recommended for students interested in the Ph.D. track)

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

11:30 a.m. – 12:15 p.m.
Session 2 | Rooms 138 – 139

MD-PhD, is it right for me?
(Recommended for students interested in the M.D./Ph.D. track)

Presenter
• Juanita Merchant, M.D., Ph.D., University of Arizona-Cancer Center, Tucson, AZ

Panelists
• Barbara Kazmierczak, M.D., Ph.D., Yale University, New Haven, CT
• Jared Smith, Indiana University School of Medicine, M.D.-Ph.D. student, Indianapolis, IN
• Kristina Tymes-Wilbekin, University of Alabama-Birmingham, M.D.-Ph.D. student, Birmingham, AL
• Azucena Ramos, Harvard Medical School, M.D.-Ph.D. student, Boston, MA
• Petria Thompson, Vanderbilt University, M.D.-Ph.D. student, Nashville, TN

11:30 a.m. – 12:15 p.m.
Session 3 | Rooms 132 – 133

Success in Training and Beyond: Transcending Disciplines
(Recommended for all attendees)

Speakers
• Mary O’Riordan, Ph.D., University of Michigan, Ann Arbor, MI
• Shoba Subramanian, Ph.D., University of Michigan, Ann Arbor, MI

11:30 a.m. – 12:15 p.m.
Session 4 | Rooms 130 – 131

Diverse Minds are Required to Invent the Future – An Inclusive Model Program for Learning from Nature for Societal Benefit
(Recommended for postdoctoral scientists, faculty, program directors, and exhibitors)

Moderator
• Lionel Rodriguez, Ph.D. candidate, Johns Hopkins University, Baltimore, MD

Speaker
• Robert J. Full, Ph.D., University of California, Berkeley, Berkeley, CA

11:30 a.m. – 12:15 p.m.
Session 5 | Rooms 134 – 135

Time Management 101
(Recommended for all students)

Moderator
• Adele Whaley, Ph.D. student, Gerstner Sloan Kettering Graduate School of Biomedical Sciences, New York, NY

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

12:15 p.m. – 1:00 p.m.
Networking Lunch by Discipline
Hall F – G

1:00 p.m. – 1:45 p.m.
PLENARY SCIENTIFIC SESSION
Dynamic Control of Metabolic Flux for Pathway Engineering
Hall F – G

Moderator
• John Fitzgerald Gates, Ph.D. University of Virginia, Charlottesville, VA

Speaker
• Kristala L. Jones Prather, Ph.D., Massachusetts Institute of Technology, Cambridge, MA

1:45 p.m. – 5:30 p.m.
Exhibit and Poster Hall Hours
Hall H – I
2:00 p.m. – 3:15 p.m.
Poster Session 1 (A)
Hall H – I

3:00 p.m. – 5:00 p.m.
Mentoring Coaching
Exhibit Hall Mentoring Tables

3:30 p.m. – 4:45 p.m.
Poster Session 2 (B)
Hall H – I

5:30 p.m. – 6:45 p.m.
Oral Sessions 1 (12 Session Options)
Biochemistry and Molecular Biology: Rooms 236 – 237
Biochemistry and Molecular Biology and Physiology: Rooms 238 – 239
Cancer Biology: Room 132 – 133
Cancer Biology and Immunology: Room 130 – 131
Cell Biology: Room 233
Chemistry: Rooms 134 – 135
Computational and Systems Biology: Room 234
Developmental Biology and Genetics and Engineering, Physics, and Mathematics: Room 232
Engineering, Physics, and Mathematics: Room 140
Microbiology: Rooms 240 – 241
Neuroscience and Physiology: Room 235
Social and Behavioral Sciences and Public Health: Rooms 136 – 137

7:00 p.m. – 7:45 p.m.
Networking Dinner by Discipline
Hall F – G

8:15 p.m. – 9:30 p.m.
PDO Steering Committee Meeting
(By Invitation Only)
Room 243

8:15 p.m. – 9:30 p.m.
Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences
(Recommended for all students)
Marriott Downtown
Indiana Ballroom

Featured Scientists/Representatives:
- Ruan R. Cox Jr., Ph.D.
  Moffitt Cancer Center (Non Profit/Research)
- Jessica Faupel-Badger, Ph.D.
  National Center for Advancing Translational Sciences, NIH (Government/Research)
- L. Alex Gaither Ph.D.
  Novartis Institutes for Biomedical Research (Pharmaceutical/Research)
- Peter Gannett, Ph.D.
  Nova Southeastern University, College of Pharmacy (Teaching/Administration)
- Kenneth Gibbs, Ph.D.
  NIH (Government)
- Vanessa Gonzalez-Perez, Ph.D.
  Princeton University (Teaching/Administration)
- Ronald Hunter, Ph.D.
  Mérieux Nutrisciences (Industry)
- Brittany Haynes, Ph.D.
  National Center for Advancing Translational Sciences, NIH (Government/Research)
- Marlena Jackson, B.S.
  Genentech Inc., a Member of the Roche Group (Research)
- L’Aurelle A. Johnson, Ph.D., M.S.
  University of Minnesota, College of Pharmacy (Teaching/Administration)
- Geneva Licht, B.S.
  Genentech Inc., a Member of the Roche Group (Research)
- Fahmy Mamuya, Ph.D., M.B.A.
  VUE Health Insights (Medical Writing)
- Claudio Ortiz, Ph.D.
  Colgate (Industry/Research)
- Deborah Philip, Ph.D.
  NIH (Government/Administration)
- Chloe Poston, Ph.D.
  Entropia (Consulting)
- Cheryl Rowe Rendleman, Ph.D.
  Omar Consulting (Consulting)
- Dinelia Rivera-Burgos, Ph.D.
  Battelle (Industry/Research)
- Gurusingham Sittampalam, Ph.D.
  National Center for Advancing Translational Sciences, NIH (Government/Research)
- Kevin Villalongo, M.B.A., PMP
  American Laboratories, Inc. (Industry/Research)
- Kristen Walker, M.S.
  USDA (Government/Research)
- Robert Walker, Ph.D.
  NIH (Government/Administration)
- Patrice Yarbrough, Ph.D.
  NASA (Government/Research)
8:00 p.m.  – 10:00 p.m.
Master’s Level Poster Session/Grad Student and Postdoc Dessert and Networking Mixer
Sponsored by IU College of Arts & Sciences, IU School of Medicine Biomedical Science Gateway Programs, and The University Graduate School at IU and IUPUI (Recommended for graduate students and postdoctoral scientists)
JW Marriott
White River Ballroom A – E

Friday, November 16

7:00 a.m.  – 7:45 a.m.
Networking Breakfast
Hall J

8:00 a.m.  – 9:00 a.m.
PLENARY SESSION
State of STEM Research in Hurricane Impacted Areas and Lessons Learned
Hall F – G

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

Speakers
• Juan S. Ramirez Lugo, Ph.D., University of Puerto Rico, Río Piedras, San Juan, Puerto Rico
• Camille A. McKayle, Ph.D., University of the Virgin Islands, Charlotte Amalie, U.S. Virgin Islands

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS
(5 Session Options)

9:15 a.m.  – 10:00 a.m.
★ Session 1 | Rooms 136 – 137
Picking the Perfect Ph.D. Program for You: Why Choose a School with a T32?
(Recommended for students interested in the Ph.D. track)

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

9:15 a.m.  – 10:00 a.m.
★ Session 2 | Rooms 138 – 139
MD-PhD, is it right for me?
(Recommended for students interested in the M.D./Ph.D. track)

Presenters
• Juanita Merchant, M.D., Ph.D., University of Arizona-Cancer Center, Tucson, AZ

Panelists
• Sandra Lemmon, Ph.D., University of Miami, Miami-Dade County, FL
• Ellis Tibbs, University of Maryland, M.D.-Ph.D. student, College Park, MD
• Carlos Perez Kerkvliet, University of Minnesota, M.D.-Ph.D. student, Minneapolis, MN
• Anthony Angueira, University of Pennsylvania, M.D.-Ph.D. student, Philadelphia, PA
• Briaunna Minor, University of Rochester, M.D.-Ph.D. student, Rochester, NY

9:15 a.m.  – 10:00 a.m.
★ Session 3 | Rooms 134 – 135
Diverse Minds are Required to Invent the Future – An Inclusive Model Program for Learning from Nature for Societal Benefit
(Recommended for postdoctoral scientists, faculty, program directors, and exhibitors)

Moderator
• Shawn Williams, Ph.D. candidate, Brown University

Speaker
• Robert Full, Ph.D., University of California, Berkeley, Berkeley, CA

9:15 a.m.  – 10:00 a.m.
★ Session 4 | Rooms 130 – 131
Building Institutional Partnerships to Enhance Diversity and Inclusion in the Research Workforce
(Recommended for postdoctoral scientists, faculty, program directors, and exhibitors)

Speakers
• Don C. Brunson, Ph.D., Vanderbilt University, Nashville, TN
• Ja’Wanda S. Grant, Ph.D., Xavier University of Louisiana, New Orleans, LA
• Chloe N. Poston, Ph.D., The Leadership Alliance, Brown University, Providence, RI
9:15 a.m. - 10:00 a.m.  
Session 5 | Rooms 240 – 241  

Creating A Diverse & Inclusive Campus: Strategies For Helping Nontraditional Students Succeed 2.0  
(Recommended for all attendees)  

Speakers  
• L’Aurelle Johnson, M.S., Ph.D., University of Minnesota, Minneapolis, MN  
• Janice Reuben, University of Michigan, Ann Arbor, Ann Arbor, MI  
• Jayne Reuben, Ph.D., Texas A&M College of Dentistry, Dallas, TX  

10:15 a.m. – 12:00 p.m.  
Exhibit and Poster Hall Hours  
Hall H – I  

10:30 a.m. – 11:30 a.m.  
Mentoring Coaching  
Exhibit Hall Mentoring Tables  

10:30 a.m. – 11:45 a.m.  
Poster Session 3 (C)  
Hall H – I  

12:15 p.m. – 1:00 p.m.  
Networking Lunch by Discipline  
Hall F – G  

1:00 p.m. – 1:45 p.m.  
PLENARY SCIENTIFIC SESSION  
Insights from non-human animals into the neurobiology of language  
Hall F – G  

Moderator  
• John Fitzgerald Gates, Ph.D., University of Virginia, Charlottesville, VA  

Speaker  
• Erich D. Jarvis, Ph.D., The Rockefeller University, New York City, NY  

“ABRCMS allows students the opportunity to solely develop themselves as better informed and oriented professionals in the fields they wish to pursue. It is the best meeting at giving the students the importance in all aspects of the meeting.”
2:00 p.m. – 3:00 p.m.  
Session 4 | Rooms 132 – 133  
FACTUALITY: Cultural Competence & Empathy via Board Game  
(Recommended for all attendees)  

Speaker  
• Natalie Gillard, FACTUALITY the Game, Baltimore, MD

2:00 p.m. – 3:00 p.m.  
Session 5 | Rooms 130 – 131  
Setbacks and Comebacks – Navigating Your Path to Success after Hitting the Roadblock  
(Recommended for all attendees)  

Speaker  
• John Williams, Ph.D., Albany State University, Albany, GA

2:00 p.m. – 3:00 p.m.  
Session 6 | Rooms 236 – 237  
Overcoming Imposter Syndrome and Stereotype Threat  
(Recommended for all attendees)  

Speaker  
• Alan Landry, M.D., M.P.H., Harvard Medical School, Boston, MA
  Additional speakers to be determined

2:00 p.m. – 3:00 p.m.  
★ Session 7 | Rooms 238 – 239  
Job Search Strategies and Negotiating the Job Offer  
(Recommended for graduate students, postdoctoral scientists, and early-career faculty)  

Speaker  
• Lauren Celano, M.B.A., Propel Careers, Cambridge, MA

2:00 p.m. – 3:00 p.m.  
Session 8 | Rooms 240 – 241  
TWD–PDO Meeting (Organized by the NIGMS Program Directors Association)  
(Recommended for NIGMS Program Directors)  

3:00 p.m. – 6:00 p.m.  
Exhibit and Poster Hall Hours  
Hall H – I

3:15 p.m. – 4:30 p.m.  
Poster Session 4 (D)  
Hall H – I

3:30 p.m. – 4:15 p.m.  
Mentoring Showcase  
Exhibit Hall Theater

4:30 p.m. – 5:30 p.m.  
Mentoring Coaching  
Exhibit Hall Mentoring Tables

4:45 p.m. – 6:00 p.m.  
Poster Session 5 (E)  
Hall H – I

6:15 p.m. – 7:15 p.m.  
Session 1 | Rooms 138 – 139  
Preparing for Graduate School: Doctoral Student-Run Multidisciplinary Information Session  
(Recommended for community college, undergraduate, and postbaccalaureate students)  

Speakers  
• Carolina M. Herrera, Rutgers University, Newark, NJ  
• Clair Kotula, Rutgers University, Newark, NJ
6:15 p.m. – 7:15 p.m.
Session 2 | Rooms 136 – 137

The First Year of Graduate School: How to Survive and Thrive
(Recommended for community college, undergraduate, and postbaccalaureate students)

Speakers
• Kortany Baker, B.S., Purdue University, West Lafayette, IN
• Joseph Ogas, Ph.D., Purdue University, West Lafayette, IN
• Elizabeth Tran, Ph.D., Purdue University, West Lafayette, IN

6:15 p.m. – 7:15 p.m.
Session 3 | Rooms 134 – 135

Pitch Perfect: A Storytelling Session Helps Build Confidence in Communication and Networking
(Recommended for all students and postdoctoral scientists)

Speaker
• Shuai Li, Ph.D., Mayo Clinic, Rochester, MN

6:15 p.m. – 7:15 p.m.
Session 4 | Rooms 132 – 133

Confessions of Admission Officials: What We Look at, and for, in Graduate School Application
(Recommended for community college, undergraduate, and postbaccalaureate students)

Speakers
• Gustavo Arrizabalaga, Ph.D., IU School of Medicine, Indianapolis, IN
• Colleen Gabauer, Ph.D., Purdue University, West Lafayette, IN
• Tara Hobson, M.A., IU School of Medicine, Indianapolis, IN

6:15 p.m. – 7:15 p.m.
Session 5 | Rooms 240 – 241

Strategies for Taking Standardized Admissions Tests: Preparing for the GRE Exams
(Recommended for undergraduate and postbaccalaureate students)

Speaker
• Laurie Connor, Ph.D., Baylor School of Medicine, Houston, TX

6:15 p.m. – 7:15 p.m.
Session 6 | Rooms 238 – 239

Strategies for Taking Standardized Admissions Tests: Preparing for the MCAT Exams
(Recommended for undergraduate and postbaccalaureate students)

Speaker
• Saundra Oyewole, Ph.D., Trinity University, Washington, DC

6:15 p.m. – 7:15 p.m.
Session 7 | Rooms 236 – 237

Postbaccalaureate Programs and Tips for Submitting a Successful Application
(Recommended for students considering postbaccalaureate training)

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

6:15 p.m. – 7:15 p.m.
Session 8 | Rooms 130 – 131

Interviewing for M.D.-Ph.D. Programs
(Recommended for undergraduate students)

Speakers
• Joseph Barbieri, Ph.D., Medical College of Wisconsin, Milwaukee, WI
• Sandra Lemmon, Ph.D., University of Miami Miller School of Medicine, Miami, FL

6:15 p.m. – 7:15 p.m.
Session 9 | Room 235

Solutions for Success: A Guide for Survival in College Chemistry Courses
(Recommended for community college, undergraduate, and postbaccalaureate students)

Speakers
• Daniel LaMaster, Graduate Student, Louisiana State University, Baton Rouge, LA
• Gretchen Schneider, Ph.D., Louisiana State University, Baton Rouge, LA
• Graca Vicente, Ph.D., Louisiana State University, Baton Rouge, LA
6:15 p.m. – 7:15 p.m.
Session 10 | Room 140

Acing the Interview
(Recommended for all attendees)

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

6:15 p.m. – 8:00 p.m.
JW Marriott
White River Ballroom C – D

Diversifying the Biomedical Scientific “Thinkforce” through Training and Partnerships

Hosted by the Diversity Program Consortium Coordination and Evaluation Center at UCLA
In partnership with National Research Mentoring Network
Note: This session will continue its 3rd component at the NRMN Meet and Greet
(Recommended for students, postdoctoral scientists, faculty, and administration)

**Speaker**
- Alison Gammie, Ph.D., National Institutes of Health (NIH), National Institute of General Medical Sciences (NIGMS), Bethesda, MD

6:30 p.m. – 8:00 p.m.
JW Marriott
JW Grand Ballroom 1 – 5

Speakers, Exhibitors, Judges, and Program Directors Networking Social

8:00 p.m. – 9:00 p.m.
JW Marriott
Rooms 103 – 104

LGBTQ Networking Social & Tips on Succeeding as a Scientist

8:00 p.m. – 9:00 p.m.
JW Marriott
White River Ballroom A – B

National Research Mentoring Network Meet & Greet
In partnership with the Diversity Program Consortium’s Coordination and Evaluation Center at UCLA
This session is preceded by the Diversifying the Biomedical Scientific “Thinkforce” through Training and Partnerships

8:00 p.m. – 9:00 p.m.
JW Marriott
JW Grand Ballroom 7

Chemistry Career Building/Networking Event

**Speaker**
- Ann Kimble-Hill, Ph.D., Indiana University School of Medicine, Indianapolis, IN

8:00 p.m. – 9:00 p.m.
JW Marriott
Rooms 305 – 306

PREP Program Director Meeting
(By Invitation Only)

9:00 p.m. – 10:00 p.m.
JW Marriott
Room 304

MAPRS Program Director Meeting
(By Invitation Only)
Saturday, November 17

7:00 a.m. – 7:45 a.m.
Networking Breakfast
Hall J

8:00 a.m. – 9:15 a.m.
Oral Sessions 2 (12 Session Options)

Biochemistry and Molecular Biology:
Rooms 236 – 237
Biochemistry and Molecular Biology:
Rooms 238 – 239
Cancer Biology: Rooms 130 – 131
Cancer Biology: Rooms 132 – 133
Chemistry: Rooms 240 – 241
Computational Biology and Systems Biology and Developmental Biology and Genetics: Room 234
Developmental Biology and Genetics: Room 232
Engineering, Physics and Math: Room 140
Microbiology: Rooms 134 – 135
Microbiology and Physiology: Rooms 136 – 137
Neuroscience: Room 233
Neuroscience: Room 235

9:15 a.m. – 12:00 p.m.
Exhibit and Poster Hall Hours
Hall H – I

9:30 a.m. – 9:50 a.m.
Exhibitor Showcase
American Society for Microbiology, Education Department
Exhibit Hall Theater, Hall H – I

9:30 a.m. – 11:30 a.m.
Mentoring Coaching
Exhibit Hall Mentoring Tables

10:30 a.m. – 10:50 a.m.
Exhibitor Showcase
Emory University – Laney Graduate School
Exhibit Hall Theater, Hall H – I

11:00 a.m. – 11:20 a.m.
Exhibitor Showcase
Purdue University/Weldon School of Biomedical Engineering
Exhibit Hall Theater, Hall H – I

12:15 p.m. – 1:00 p.m.
Networking Lunch
Hall F – G

1:00 p.m. – 1:45 p.m.
Closing Keynote Address
PLENARY SESSION
Translating Science: Obstacles and Opportunities
Hall F – G

Moderator
John Fitzgerald Gates, Ph.D., University of Virginia, Charlottesville, VA

Speaker
• Kafui Dzirasa, M.D., Ph.D., Duke University, Durham, NC
## Concurrent Professional Development Sessions
### (4 Session Options)

### 2:15 p.m. – 3:15 p.m.
#### Session 1 | Rooms 138 – 139

**Essential Mentoring Skills for Early-Career Scientists and Faculty Mentors**

(Recommended for graduate students, postdoctoral scientists, faculty, program directors, and exhibitors)

**Speakers**
- **Kelly Diggs-Andrews**, Ph.D., National Research Mentoring Network, Chestnut Hill, MA
- **Alvin Holder**, Ph.D., Old Dominion University, Norfolk, VA
- **Harlan Jones**, Ph.D., National Research Mentoring Network, University of North Texas Health Science Center, Fort Worth, TX
- **Cassandra McCullum**, Ph.D., Alcorn State University, Lorman, MS
- **Rasha Morsi**, Ph.D., Norfolk State University, Norfolk, VA
- **Desh Ranjan**, Ph.D., Old Dominion University, Norfolk, VA
- **Roland Thorpe**, Ph.D., The Johns Hopkins University, Baltimore, MD

### 2:15 p.m. – 3:15 p.m.
#### Session 2 | Rooms 136 – 137

**Mentoring Diverse Students on the Way to STEM Research Careers**

(Recommended for postdoctoral scientist, faculty, program directors, and exhibitors)

**Speakers**
- **Marcus Lambert**, Ph.D., Weill Cornell Graduate School of Medical Sciences, New York City, NY
- **Raquel Catellanos**, Ph.D., Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA
- **William Wittels**, Ph.D., The Leadership Alliance, Providence, RI

### 2:15 p.m. – 3:15 p.m.
#### Session 3 | Rooms 134 – 135

**Developing Your Scientific Swag**

Sponsored by Indiana University Purdue University Indianapolis

(Recommended for all students)

**Speakers**
- **Tabitha M. Hardy**, Ph.D., Indiana University Purdue University Indianapolis, Indianapolis, IN

### 2:15 p.m. – 3:15 p.m.
#### Session 4 | Rooms 130 – 131

**Panel Discussion: The Ph.D. Green-Book: A Survival Guide for Navigating Graduate School**

(Recommended for undergraduate and postbaccalaureate students)

**Panelists**
- **Brittnie Bloom**, Ph.D. candidate, San Diego University/University of California, San Diego, San Diego, CA
- **Liz J. Hernández Borroto**, Ph.D. candidate, The Pennsylvania State University, University Park, PA
- **Victor Hugo Canela**, Ph.D. student, Indiana University School of Medicine, Indianapolis, IN
- **Imade Imasuen-Williams**, Ph.D. candidate, Indiana University School of Medicine, Indianapolis, IN
- **Keila Miles**, Ph.D. candidate, University of Cincinnati, Cincinnati, OH
- **Mirelis Santos-Cancel**, Ph.D. candidate, University of Cincinnati, Cincinnati, OH

“This meeting has a long-standing history and reputation for bringing the best and the brightest diverse scholars together to share their work and build their professional networks.”
CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS
(5 Session Options)

3:30 p.m. – 4:30 p.m.
★ Session 1 | Rooms 138 – 139

Build Your Personal Statement!
(Recommended all students)

Speakers
• Victoria Freedman, Ph.D., Albert Einstein College of Medicine, New York, NY
• Nancy Schwartz, Ph.D., University of Chicago, Chicago, IL

3:30 p.m. – 4:30 p.m.
Session 2 | Rooms 130 – 131

Navigating Your Mentoring Relationships as a Mentee: What undergraduate Mentees Need to Know
(Recommended for community college, undergraduate, and postbaccalaureate students)

Speakers
• Kelly Diggs-Andrews, Ph.D., National Research Mentoring Network, Chestnut Hill, MA
• Harlan Jones, Ph.D., National Research Mentoring Network, University of North Texas Health Science Center, Fort Worth, TX
• Roland Thorpe, Ph.D., The Johns Hopkins University, Baltimore, MD

3:30 p.m. – 4:30 p.m.
Session 3 | Rooms 132 – 133

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

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

3:30 p.m. – 4:30 p.m.
★ Session 4 | Rooms 136 – 137

Overcoming Imposter Syndrome and Stereotype Threat
(Recommended for all attendees)

Speaker
• Alan Landry, M.D., M.P.H., Harvard Medical School, Boston, MA

3:30 p.m. – 4:30 p.m.
Session 5 | Rooms 134 – 135

#STEMatSLAC: What’s Special About STEM at Small Liberal Arts Colleges?
(Recommended for graduate students, postdoctoral scientists, and faculty)

Speaker
• Michelle Tong, Ph.D., Earlham College, Richmond, IN

4:30 p.m. – 7:30 p.m.
FREE TIME! FREE TIME! FREE TIME!

7:30 p.m. – 10:00 p.m.
Awards Banquet and Ceremony

Hall F – G

Greetings from ASM Chief Executive Officer
• Stefano Bertuzzi, Ph.D., M.P.H., American Society for Microbiology, Washington, DC

Conference Wrap-up and Student Presentation Awards Ceremony
• John Fitzgerald Gates, Ph.D., University of Virginia, Charlottesville, VA

Concluding Remarks from Chairperson
• Avery August, Ph.D., Cornell University College of Veterinary Medicine, Ithaca, NY

10:00 p.m. – 2:00 a.m.
Closing Social and Dance (All are invited)
JW Marriott
White River Ballroom
Fellowships
Undergraduate Research Fellowship
Application deadline: February 15, 2019
Up to $6,000 awards to undergraduate, community college, and post-baccalaureate students to perform 10-12 weeks of summer research. [asm.org/urf]

Research Capstone Fellowship
Application deadline: March 15, 2019
Up to $2,000 travel subsidy for underrepresented minority students at the following educational levels: community college, undergraduate, post-baccalaureate, master's, early doctoral and senior doctoral students to attend and present at the ASM Microbe. [asm.org/rcf]

Courses
Visit asm.org/build-your-skills

Best Practices in Curriculum Design & Assessment Online Course
January – April 2019
Built upon the elements of ASM’s Science Teaching Fellows Program, participants in this course develop the skills needed to succeed in positions that have a significant teaching component.

Scientific Writing and Publishing Online Course
January – April 2019
Participants develop scientific writing skills needed to prepare a manuscript for publication.

The Microbe Academy for Professional Development (MAPD)
June 19 – 20, 2019, San Francisco, CA
In-person meeting held prior to ASM Microbe 2019, this one and a half day professional development workshop provides students skillset training in presentations techniques, networking and gives the science answers they have been looking for.

ASM Grant Writing Online Course
September – December 2019
Overview for finding opportunities and writing grant applications. Speakers come from varied backgrounds and will lend unique perspectives.

Improving Undergraduate Biology Education Based on Research in Science Learning
September – December 2019
Building on the most notable elements from the ASM-NSF Biology Scholars Program, participants will dissect discipline-based education research (DBER) literature.

Conferences
ASM Conference for Undergraduate Educators
August 1 – 4, 2019 | Tysons, VA
Teaching, learning, and assessment conference with workshops, education sessions, posters, and exhibitors for microbiology and biology educators. [www.asmcue.org]

Annual Biomedical Research Conference for Minority Students
November 13 – 16, 2019
Undergraduate student conference with poster presentations and networking, scientific and professional development, and recruiters for summer programs and graduate training. [www.abrcms.org]

Consider these opportunities from ASM. Dates may change without notice. Please consult program websites for timely information.
“The conference being for minority students provided a unique perspective on science and careers that is rarely discussed in our universities or professional environment. The plenary sessions discussing racial bias regarding the portrayal of environment or economic programs were enlightening. The atmosphere is very open to discussing these issues and encouraging the attendees to look further into it.”
Oral Session 1: Biochemistry and Molecular Biology
Thursday, November 15
5:30 p.m. – 6:45 p.m.
Rooms 236 – 237

O –001
Profiling Global Chromatin Proteome and Histone Post-translational Modifications Upon Knockdown of SMARCC2 via Mass Spectrometry
Nia Harmon, University of Pennsylvania
Biochemistry and Molecular Biology: Proteomics

O –002
Whether In or Out NO Knows Which Path to Take in Type 2 Diabetes
Zakiyah Henry, Winston-Salem State University
Biochemistry and Molecular Biology: Biochemistry

O –003
Development of a High Throughput IgG Peptide Digestion Protocol to Facilitate the Implementation of a Robust Peptide Map Assay
Tanu Priya, Boehringer Ingelheim
Biochemistry and Molecular Biology: Proteomics

O –004
The Mechanism of FOXO1 Nuclear Translocation During Embryo Implantation
Kaitlan Smith, University of North Carolina at Pembroke
Biochemistry and Molecular Biology: Biochemistry

O –005
Unraveling the Mysteries of the GAL1 –10 Bidirectional Promoter
Hugh Yeh, Harvard Medical School
Biochemistry and Molecular Biology: Genomics

Oral Session 1: Cancer Biology
Thursday, November 15
5:30 p.m. – 6:45 p.m.
Rooms 132 – 133

O –007
The Impact of Elevated BCAAs on Hepatic Insulin Signaling and Mitochondrial Function
Azuri Hughes, Saint Peter's University
Physiology: Endocrinology

O –008
The Study of Protein Aggregation in Caenorhabditis elegans Neurons as a Function of Age
Elizabeth Soto, City College of New York
Biochemistry and Molecular Biology: Structural Biology

O –009
Structural Investigation of the Impact of Three Disease –Causing Mutations on the Catalytic Cycle of the Neuronal Motor Protein, Kif5A
Lauren Thornton, Xavier University of Louisiana
Biochemistry and Molecular Biology: Structural Biology

O –010
Intermolecular Interactions of the HIV –1 Spacer Peptide 1 – Nucleocapsid and the Core Encapsidation Signal
Claudia Walker, University of Maryland, Baltimore County
Biochemistry and Molecular Biology: Structural Biology

Oral Session 1: Cancer Biology
Thursday, November 15
5:30 p.m. – 6:45 p.m.
Rooms 132 – 133

O –011
Characterization of Metastatic Progression
Torhera Durand, Purdue University
Cancer Biology: Cancer Biology

O –012
Enhancement of Immunotherapy on PD –1 by Auranofin in Ovarian Cancer
Yoonji Eum, Georgia State University
Cancer Biology: Cancer Biology

O –013
Characterizing Survival Mechanisms Following Oncogenic Kras Ablation in Pancreatic Cancer Cells
Mauricio Flores, University of California, San Francisco
Cancer Biology: Cancer Biology
O –014
Interleukin 24 Production is Regulated by p38 MAPK via TTP –Dependent Pathway in Cancer
Justina Kasteri, City University of New York
Cancer Biology: Cancer Biology

O –015
The Role of Dopamine Signaling in Biological Disparity of Prostate Cancer
Isaiah Pickett, Clark Atlanta University
Cancer Biology: Cancer Biology

Oral Session 1: Cancer Biology and Immunology
Thursday, November 15
5:30 p.m. – 6:45 p.m.
Rooms 130 – 131

O –016
Immunophenotypic and Functional Analysis of Hematopoiesis in G0S2 Null Mice
Faith Adams, Baylor College of Medicine
Immunology: Basic Immunology

O –017
CD103+Dendritic Cell-Based Vaccine: A Powerful Cancer Immunotherapy
Oleksandr (Sasha) Kyrysyuk, University of Texas MD Anderson Cancer Center
Immunology: Basic Immunology

O –018
Methamphetamine Alters the Expression of Toll –like Receptor 4 on Microglia
Dormarie Rivera-Rodriguez, University of Puerto Rico in Ponce
Immunology: Basic Immunology

O –019
Repurposing an Anti-Malarial Drug to Treat the Deadliest Cancer in Children
Daniel Ssozi, Dana-Farber Cancer Institute
Cancer Biology: Cancer Biology

Oral Session 1: Cell Biology
Thursday, November 15
5:30 p.m. – 6:45 p.m.
Room 233

O –020
Phenotyping of the Airway Epithelium in Search for Subpopulation of Cells Conferring Long Term Risk for Developing Lung Cancer
Alexander Weingart, Vanderbilt University School of Medicine
Cancer Biology: Cancer Biology

O –021
Optoacoustic Imaging of Breast Cancer Using Dark Quencher QC1 pHLIP
Crystal Choi, Memorial Sloan Kettering Cancer Center
Cell Biology: Molecular Imaging

O –022
Non-Canonical Activation of the Unfolded Protein Response Pathway by Legionella pneumophila
Tanya Kumar, University of California, San Francisco
Cell Biology: Molecular Imaging

O –023
OPA –1 Deficient Skeletal Muscle ER –Stress Increases Mitochondria Associated Membranes Through a MFN –1 –MFN –2 –GRP78 Tethering Mechanism
Margaret Mungai, University of Iowa
Cell Biology: Cell Biology

O –024
Texture Analysis to Predict Survival in Patients with Glioblastomas Receiving Immunotherapy
Elise Wang, Memorial Sloan Kettering Cancer Center
Cell Biology: Molecular Imaging

O –025
High Resolution Melting Analysis of STR Loci to Discriminate Repeated Donor Blood Samples
Ava Wong, Chaminade University of Honolulu
Cell Biology: Cell Biology

Oral Session 1: Chemistry
Thursday, November 15
5:30 p.m. – 6:45 p.m.
Rooms 134 – 135

O –026
Volatile Organic Compound Profiling from Postmortem Microbes Using GC –MS to Assist in Forensic Search and Recovery
Terezie Cernosek, Chaminade University of Honolulu
Chemistry: Analytical Chemistry
O –027
Electrochemical Impedance Spectroscopy for the Detection of Neuropeptide Y Using Aptamer-Modified Platinum Microelectrodes
Nerika Hernandez, Universidad del Turabo
Chemistry: Analytical Chemistry

O –028
Synthesis, Characterization, and Catalytic Studies of Cobalt-Containing Complexes for Hydrogen Generation
Halie Maass, Old Dominion University
Chemistry: Inorganic Chemistry

O –029
Synthesis, Characterization, and Catalytic Studies of Lignin Model Compounds with Cobalt III Cubane Complexes
Jennifer Mejia, Old Dominion University
Chemistry: Inorganic Chemistry

O –030
High-Field NMR Spectroscopy and Mass Spectrometry for the Quality Control of Epimedium grandiflorum Dietary Supplements
Ifunanya Okeke, Scripps College
Chemistry: Analytical Chemistry

Oral Session 1: Computational and Systems Biology
Thursday, November 15
5:30 p.m. – 6:45 p.m.
Room 234

O –031
Association of Psychological Phenotypes with Inflammation in Alpha –1 Antitrypsin Deficiency
Titilope Akinwe, Georgia State University
Computational and Systems Biology: Bioinformatics

O –032
Gene Expression Biomarker Discovery in Endometriosis
Valerie Maisonneuve-Collazo, University of Puerto Rico at Mayagüez
Computational and Systems Biology: Bioinformatics

O –033
Improved Epitope Prediction on the Lyme Disease Antigen Outer Surface Protein C (OspC)
Muhammad Nazim, Hunter College of the City University of New York
Computational and Systems Biology: Bioinformatics

O –034
Annotating Genes within Differentially Methylated Regions of Bovine Fetuses with Large Offspring Syndrome
Oluwateniayo Ogunsan, University of Missouri, Columbia
Computational and Systems Biology: Bioinformatics

“It is one of the largest research based minority conferences that attracts such top-talent and bright young leaders. For that reason alone, ABRCMS is always worth attending.”

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**O –035**
Characterizing Kidney Disease Gene Variants: A Programmatic Approach

*Kate Sanders*, The Broad Institute of MIT and Harvard
Computational and Systems Biology: Bioinformatics

**Oral Session 1: Developmental Biology and Genetics and Engineering, Physics and Mathematics**
*Thursday, November 15*
*5:30 p.m. – 6:45 p.m.*
*Room 232*

**O –036**
Alcohol–Related Behaviors in Strains of Mice Selected for High and Low Open–Field Activity

*Eliza Elliotte*, University of Colorado Boulder
Developmental Biology and Genetics: Genetics

**O –037**
Segregation of Phenotypes in Families with Cerebral Cavernous Malformation Type 1 – Common Hispanic Mutation

*Hyeyeon Hwang*, University of California, San Francisco
Developmental Biology and Genetics: Genetics

**O –038**
Bio-Inspired Degradable Tough Adhesives for Diverse Wet Surfaces

*Nadja Maldonado-Luna*, Harvard University
Engineering, Physics and Mathematics: Biomedical Engineering

**O –039**
Improvements to Single-Cell Messenger Ribonucleic Acid Sequencing Technology

*Yash Nagpal*, University of California, Santa Barbara
Engineering, Physics and Mathematics: Bioengineering

**O –040**
Rapid Desktop Inkjet Printing of an Inexpensive and High-Resolution Electrocardiogram Electrode Array

*Alana Tillery*, University of Maryland
Engineering, Physics and Mathematics: Bioengineering

**Oral Session 1: Engineering, Physics and Mathematics**
*Thursday, November 15*
*5:30 p.m. – 6:45 p.m.*
*Room 140*

**O –042**
Understanding the Phagocytic Behavior of Asymmetrical Nanoparticles

*Amy Leslie*, University of Queensland
Engineering, Physics and Mathematics: Nanotechnology

**O –043**
Assessment of the Toxicity of Zn-based Nanoparticles

*Josian Luciano-Velazquez*, University of Puerto Rico in Ponce
Engineering, Physics and Mathematics: Nanotechnology

**O –044**
Maximizing Flux Along Microtubules via Cooperation Among Molecular Motors

*Keshav Patel*, University of North Carolina at Chapel Hill
Engineering, Physics and Mathematics: Mathematics

**O –045**
Biophysical Modeling of Nanoparticles for Localized Drug Delivery using Focused Ultrasound

*Brenda Yu*, Stanford University
Engineering, Physics and Mathematics: Biophysics

**Oral Session 1: Microbiology**
*Thursday, November 15*
*5:30 p.m. – 6:45 p.m.*
*Rooms 240 – 241*

**O –046**
DMSO Reduction Influences *Salmonella Typhimurium* Intestinal Colonization and Environmental Persistence

*Eddy Cruz*, North Carolina State University
Microbiology: Microbial Physiology

**O –047**
Identification of Genes Involved in Contact Dependent Signaling in *Burkholderia thailandensis*
O –048
Phenotypic Assessment of Mutants from Novel Virulence-Associated Accessory Genomic Elements in *Pseudomonas aeruginosa*
*Tatiana Ortiz-Serrano*, University of Puerto Rico, San Juan
Microbiology: Bacteriology

O –049
Defining the Role Master Regulators of Virulence Factors Play in *Mycobacterium abscessus*
*George Walters-Marrah*, University of Central Florida
Microbiology: Bacteriology

O –050
Revealing an Unexpected CRISPR –Cas9 Antagonist
*Elias Wisdom*, Fred Hutchinson Cancer Research Center
Microbiology: Bacteriology

Oral Session 1: Neuroscience and Physiology
Thursday, November 15
5:30 p.m. – 6:45 p.m.
Room 235

O –051
The Effect of Thymic Nurse Cell Transplantation on Cardiovascular Remodeling in a Model of Systemic Lupus Erythematosus
*Rilda Duron*, Talladega College
Physiology: Physiology

O –052
Electrochemical Method for In Vitro Detection of Neuropeptide Y
*John Gonzalez-Amoretti*, Universidad del Turabo
Neuroscience: Neurobiology

O –053
Reduction of IGF –1 Receptor in the Adult Hippocampus Impairs Learning and Memory
*Cellas Hayes*, University of Mississippi
Neuroscience: Neurobiology

O –054
The Effect of Prenatal Exposure to an Environmentally Relevant Phthalate Mixture on Testosterone Levels in Adult Male Mice
*Talia Seymore*, Pennsylvania State University
Physiology: Toxicology

O –055
Glutamate Increases the Sensitivity of Individual Muscle Spindle Receptor Endings to Muscle Stretch in Adult Mice
*Natanya Villegas*, San Jose State University
Neuroscience: Neurobiology

Oral Session 1: Social and Behavioral Sciences and Public Health
Thursday, November 15
5:30 p.m. – 6:45 p.m.
Rooms 136 – 137

O –056
Differences in Depressive Symptoms by Sociodemographic Characteristics in Cancer Survivors Residing in Central Pennsylvania
*Kellie Cooper*, Winthrop University
Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

O –057
Finding Community: Can Extracurricular Activities be a Positive Influence for the Mental Health of Students of Color at a Predominantly White Institution
*Frances Ikeokwu*, University of Virginia
Social and Behavioral Sciences and Public Health: Psychology

O –058
Examining How the San Diego County Hepatitis A Outbreak Affected Homeless Young Adults via Community Engagement, Resource Mapping, and Photovoice
*Talia Kieu*, San Diego State University
Social and Behavioral Sciences and Public Health: Public Health and Epidemiology/Biostatistics

O –059
Sexual Harassment During Medical Internship: A Closer Look at Gender Representation and Depression
*Fatima Obeid*, University of Michigan
Social and Behavioral Sciences and Public Health: Psychology
The Development of Response to Social Directives in Infants Later Diagnosed with ASD
Christina Toval, University of Pittsburgh
Social and Behavioral Sciences and Public Health: Psychology

Oral Session 2: Biochemistry and Molecular Biology
Saturday, November 17
8:00 a.m. – 9:15 a.m.
Rooms 236 – 237

The Investigation of the Effect of Cpeb4 Expression on Fat Distribution in Mice
Ngozi Akingbesote, University of Virginia
Biochemistry and Molecular Biology: Genomics

Evaluation of the HIV Genome to Promote Gag Hexamerization
Nahum Arefeayne, University of Maryland, Baltimore County
Biochemistry and Molecular Biology: Structural Biology

Molecular Determinants of Melanopsin Function, Localization, and Activation
Robin Bailey, University of Maryland, Baltimore County
Biochemistry and Molecular Biology: Biochemistry

Elucidating Cross-Species Transmission of a Protein Based Mechanism of Drug Resistance
Arielle Buckley, Stanford University
Biochemistry and Molecular Biology: Proteomics

The Function of Female Sex Hormones in Glucose Metabolism Following Traumatic Brain Injury
Jade Dodge, University of California, Los Angeles
Biochemistry and Molecular Biology: Biochemistry

Characterizing the Dynamic Properties of the Capsid –SP1 Junction Helix of the HIV –1 Gag Polypeptide and the Mechanism of Maturation Inhibitors
Emily Cannistraci, University of Maryland, Baltimore County
Biochemistry and Molecular Biology: Structural Biology

Characterization of the Allosteric Regulation of BAM2 in Arabidopsis thaliana
Nithesh Chandrasekharan, James Madison University
Biochemistry and Molecular Biology: Structural Biology

Biophysically Characterizing a Redox Deficient Mutant in Human Primase and Its Potential Implications in Replication
Andrew Dorfeuille, Morehouse College
Biochemistry and Molecular Biology: Structural Biology

Interaction of Two Influenza a Matrix Proteins Critical to Viral Budding
Reham Mahgoub, Swarthmore College
Biochemistry and Molecular Biology: Structural Biology

Validating MRAS as a Candidate Gene in the Pathogenesis of Cardiomyopathy
Prashit Parikh, Vassar College
Biochemistry and Molecular Biology: Structural Biology
Oral Session 2: Cancer Biology  
Saturday, November 17  
8:00 a.m. – 9:15 a.m.  
Rooms 130 – 131

O –071  
Stag2 Mutations and Their Influence on Activating Histone Marks  
Besmira Alija, Memorial Sloan Kettering Cancer Center  
Cancer Biology: Cancer Biology

O –072  
Effect of Small Molecule Agonist of Relaxin Receptor on ERBB2-Induced Breast Cancer  
Elizabeth Ferrer, Florida International University  
Cancer Biology: Cancer Biology

O –073  
Optimizing the Use of and Understanding the Resistance Mechanisms to Anti-HER2 Therapy Containing the Irreversible Pan-HER Inhibitor Neratinib  
Javier Granados, Baylor College of Medicine  
Cancer Biology: Cancer Biology

O –074  
Quantifying Minimal Residual Disease in Breast Cancer Dormancy  
Cuyler Luck, University of Pennsylvania  
Cancer Biology: Cancer Biology

O –075  
Understanding Crosstalk Between Melanoma Cells and the Microenvironment Using a Chemical Screening Approach  
Stephanie Melendez, Memorial Sloan Kettering Cancer Center  
Cancer Biology: Cancer Biology

Oral Session 2: Cancer Biology  
Saturday, November 17  
8:00 a.m. – 9:15 a.m.  
Rooms 132 – 133

O –076  
Identification of Biomarkers of Sensitivity to Aurora Kinase Inhibitors in Head and Neck Squamous Cell Carcinoma  
Diana Odhiambo, MD Anderson Cancer Center  
Cancer Biology: Cancer Biology

O –077  
Pharmacokinetics of an Ultrasmall Silica Nanoparticle Drug Conjugate (NDC)  
Syed Rizvi, Sloan Kettering Institute for Cancer Research  
Cancer Biology: Cancer Biology

O –078  
Mycn Drives Fatty Acid Metabolism in Neuroblastoma  
Kevin Rodriguez, Baylor College of Medicine  
Cancer Biology: Cancer Biology

O –079  
The Role of Mir –510 in Breast Cancer Disparities  
Arabia Satterwhite, South Carolina State University  
Cancer Biology: Cancer Biology

O –080  
Radiation Therapy Potentiation via Ferroptosis Induction for the Treatment of Pancreatic Ductal Adenocarcinoma  
Alexandra Seas, University of Nebraska Medical Center  
Cancer Biology: Cancer Biology

Oral Session 2: Chemistry  
Saturday, November 17  
8:00 a.m. – 9:15 a.m.  
Rooms 240 – 241

O –081  
Regulation of Hydrogen Peroxide-Induced Cataractogenesis in Cultured Bovine Lenses by L–Cysteine  
Anthony Baker, Nebraska Wesleyan University  
Chemistry: Pharmaceutical Chemistry

O –082  
Surface Modification of Iron-Based Metal-Organic Framework for Drug Delivery  
Angela Bui, California University, Long Beach  
Chemistry: Analytical Chemistry

O –083  
Photo-Degradation of Ciproloxacin Using Different Titanium Oxide Catalyst  
Kenneth Fontánez, Universidad del Turabo  
Chemistry: Environmental Chemistry

O –084  
Thermoelectric Effect with a Series of Ionic Liquids  
Marcus Jackson, Queens College of the City University of New York  
Chemistry: Organic Chemistry
O –085
Development of a One-Step Methodology for the Synthesis Allylic Alcohols Based on the Hydrometalation and Carbometalation of Propargylic Alcohols Followed by the Epoxide Cleavage to Obtain Polyketide Fragments Precursors
Jose Martinez Matias, Pontifical Catholic University of Puerto Rico
Chemistry: Organic Chemistry

Oral Session 2: Computational and Systems Biology and Developmental Biology and Genetics
Saturday, November 17
8:00 a.m. – 9:15 a.m.
Room 234

O –086
Effect of Lisinopril on Senescence and Survivorship in Drosophila melanogaster
Chetana Jadhav, University of Maryland, Baltimore County
Developmental Biology and Genetics: Evolution and Developmental Biology

O –087
Identification and Annotation of Pathogenic Gene Variants with Possible Implementation in High Functioning Autism Spectrum Disorder
Erin Jean, Hampton University
Developmental Biology and Genetics: Genetics

O –088
Distinct and Overlapping Functions of Scl, Lmo2, and Ldb1 in Regulating the Divergence of Hematopoietic and Cardiac Fates
Hamilton Oh, University of California, Los Angeles
Developmental Biology and Genetics: Developmental Biology

O –089
The Role of Macrophages in Skin Regeneration in African Spiny Mouse (Acomys spp.)
Jamarcus Robertson, University of Florida
Developmental Biology and Genetics: Developmental Biology

O –090
Developing an Amplicon Sequencing Protocol for Lassa Virus
Erick Salvador Rocha, Broad Institute of MIT and Harvard
Computational and Systems Biology: Bioinformatics

Oral Session 2: Developmental Biology and Genetics
Saturday, November 17
8:00 a.m. – 9:15 a.m.
Room 232

O –091
A Drosophila Model for Human Intellectual Disability: Functional Links between a Conserved Poly(A) RNA Binding Protein and m6A Methylation Machinery
Brianna Brown, Emory University
Developmental Biology and Genetics: Genetics

O –092
The Promising Role of a Mitochondrial Cocktail in the Management of Rett Syndrome
Kira Griffith, University of Toronto
Developmental Biology and Genetics: Genetics

O –093
A Budding Yeast Model to Explore the Functional Consequences of Amino Acids Substitutions that Cause a Novel Syndrome in Humans: The RNA Exosome and Disease
Samika Joshi, Emory University
Developmental Biology and Genetics: Genetics

O –094
Behavioral Characterization of Dual Lrrk2/Rab29 Knockout Mice: A Novel Model for Parkinson's Disease
Victoria Nguyen, National Institute on Aging
Developmental Biology and Genetics: Genetics

O –095
Transcriptionally-Regulated Genes Direct Gap Junction Specificity in the Motor Circuit of C. Elegans
Isaiah Swann, Vanderbilt University
Developmental Biology and Genetics: Genetics

Oral Session 2: Engineering, Physics and Mathematics
Saturday, November 17
8:00 a.m. – 9:15 a.m.
Room 140

O –096
Developing a Sensor to Detect Formaldehyde in Ambient
Makayla Headley, University of Maryland, Baltimore County
Engineering, Physics and Mathematics: Material Sciences
Simulation and Analysis of Self-Assembled Silver Nanowires Networks
Roshell Lamug, California State University, Long Beach
Engineering, Physics and Mathematics: Nanotechnology

Lights, Camera, Hemodynamics: A Novel Technique to Monitor Blood Using Spectroscopy
Wesley Matingou, Morehouse College
Engineering, Physics and Mathematics: Biomedical Engineering

Surface Functionalization of Quantum Dots and Nanotoxicity
Jousen Merced, University of Puerto Rico
Engineering, Physics and Mathematics: Nanotechnology

Sensing of Cells and Biomolecules with Semiconductor Nanowires
Sesegma Rygzydmaeva, University of the District of Columbia
Engineering, Physics and Mathematics: Nanotechnology

Oral Session 2: Microbiology
Saturday, November 17
8:00 a.m. – 9:15 a.m.
Rooms 134 – 135

Using Hyperspectral Imaging and Artificial Neural Networks to Detect E. coli on Romaine Lettuce and Spinach
Paul Dyduch, University of Northern Iowa
Microbiology: Environmental Microbiology

A Preliminary Study Towards Systematic Measurement of Antibiotic Tolerance in Mycobacterium abscessus
Kaydine Edwards, Brooklyn College of the City University of New York
Microbiology: Bacteriology

Examining the Role of Exopolysaccharide in Myxococcus xanthus Surface Social Motility
Kimberley Kissoon, McGovern Medical School, University of Texas Health Science Center
Microbiology: Bacteriology

Analyzing the Spatial Ecology of Chelonia mydas through the Use of Camera Technology
Kyle Oliveira, University of North Carolina at Chapel Hill
Physiology: Physiology
Oral Session 2: Neuroscience  
Saturday, November 17  
8:00 a.m. – 9:15 a.m.  
Room 233

O –111  
Assessing Behavioral Preference for Mouse Pup Calls as a Function of Maternal Experience and Oxytocin Signaling  
**Katherine Furman**, New York University  
Neuroscience: Neurobiology

O –112  
The Role of Innate Immune Cells Within the Spinal Subarachnoid Space in the Development of Chronic Neuropathic Pain  
**Taylor Phillips-Jones**, Howard University  
Neuroscience: Neurobiology

O –113  
ALS-Related NEK1 Haploinsufficiency Disrupts Nucleocytoplasmic Transport in iPSC-Derived Motor Neurons  
**Liana Tellez**, Northwestern University  
Neuroscience: Neurobiology

O –114  
The Role of ApoE Genetic Polymorphisms on Outcomes in a Mouse Model of Repeated Mild Traumatic Brain Injury  
**Christina Washington**, Rutgers University  
Neuroscience: Neurobiology

O –115  
A Framework to Model the Consequences of Early Life Environmental Exposures and Genetic Risk Underlying Complex Features of Mental and Behavioral Disorders in Mice  
**Mingxiao Yang**, Baylor College of Medicine  
Neuroscience: Neurobiology

O –116  
Single-Arm Torque Perception in Individuals with Chronic Hemiparetic Stroke  
**Anglecia Alberto**, California State University, Northridge  
Neuroscience: Neurobiology

O –117  
Does Value-Based Decision-Making Require Emotional or Cognitive Intelligence? A Neuropsychological Approach  
**Yerika Germosen**, University of Iowa  
Neuroscience: Neurobiology

O –118  
Optical Recording of Neuronal Activity in a Parkinsonian Mouse Model of Deep Brain Stimulation  
**Isabelle Gonzalez Montalvo**, University of Puerto Rico, San Juan  
Neuroscience: Neurobiology

O –119  
Neural Correlate of Mating Drive Examined in Drosophila Melanogaster  
**Kenny Igarza**, Columbia University  
Neuroscience: Neurobiology

O –120  
Identifying Memory Retrieval Strategies Following a Mild Traumatic Brain Injury Using the CVLT–II  
**Corinne Meinhausen**, University of Arizona  
Neuroscience: Neurobiology

“ABRCMS has been a life changing experience for me and for my students and colleagues. As a white male scientist, I spent most of my career having limited interactions with colleagues and students from underrepresented grounds. Attending ABRCMS has given me the opportunity to meet, interact, network, and only discuss issues of equity and inclusion that were unavailable at other professional meetings.”
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:
- Bose Bluetooth Speaker
- Amazon Echo Dot
- $50 Amazon Gift Card
- $25 iTunes Gift Card

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<tr>
<th>Institution</th>
<th>Booth Number</th>
<th>Programs/Departments</th>
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<tbody>
<tr>
<td>American Society for Microbiology (ASM)</td>
<td>1101</td>
<td>Emory University – Laney Graduate School</td>
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<tr>
<td>Indiana University, Bloomington, College of Osteopathic Medicine &amp; Biomedical Sciences</td>
<td>503</td>
<td>Van Andel Institute Graduate School</td>
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<td>Marian University, Graduate School of Biomedical Sciences</td>
<td>503</td>
<td>Medical College of Wisconsin (MCW) Graduate School</td>
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<tr>
<td>Novartis Institutes for BioMedical Research</td>
<td>700</td>
<td>Medical College of Wisconsin (MCW) Graduate School</td>
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<td>University of Wisconsin-Madison</td>
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Drop off completed form at the Exhibit Hall Theater by 10:00 a.m., Saturday, November 17.

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 Exhibit Hall Theater.
• Drop off completed card by 10:00 a.m. on Saturday, November 17 to be eligible for the drawing.
• Winners will be posted on Saturday, November 17 at 11:00 a.m. at the Exhibit Hall Theater.
• 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 15
1:45 p.m. – 5:30 p.m.

Friday, November 16
10:15 a.m. – 12:00 p.m.
3:00 p.m. – 6:00 p.m.

Saturday, November 17
9:15 a.m. – 12:00 p.m.
<table>
<thead>
<tr>
<th>Exhibitor Listing</th>
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<tbody>
<tr>
<td>Exhibitor</td>
</tr>
<tr>
<td>AAMC</td>
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<tr>
<td>Alabama College of Osteopathic Medicine</td>
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<td>Albert Einstein College of Medicine</td>
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<td>American Aging Association</td>
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<td>American Association for Cancer Research (AACR)</td>
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<td>American Association for the Advancement of Science</td>
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<td>American Association of Anatomists</td>
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<td>American Chemical Society</td>
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<td>American Society for Biochemistry and Molecular Biology</td>
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<td>American Society of Human Genetics</td>
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<td>American University of the Caribbean</td>
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<td>Association of American Veterinary Medical Colleges</td>
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<td>Association of Biomolecular Resource Facilities (ABRF)</td>
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<td>Auburn University College of Sciences and Mathematics</td>
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<td>Augusta University – The Graduate School</td>
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<td>Ball State University Graduate School</td>
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<td>Battelle</td>
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<td>Baylor College of Medicine Graduate School of Biomedical Sciences</td>
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<td>Baylor College of Medicine, Dept. of Molecular &amp; Human Genetics</td>
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<td>Baylor College of Medicine/SMART Program</td>
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<td>Beckman Research Institute of City of Hope</td>
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<td>Biophysical Society</td>
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<td>Boise State University</td>
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<td>Boston University Bioinformatics Program</td>
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<td>Boston University Biological and Environmental Sciences</td>
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<td>Boston University Graduate Medical Sciences</td>
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<td>Boston University Graduate Program for Neuroscience</td>
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<td>Brandeis University Division of Science</td>
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<td>Broad Institute of MIT and Harvard</td>
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<td>Burrell College of Osteopathic Medicine</td>
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<td>Caltech</td>
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<td>Caltech Amgen Scholars – WAVE Fellows</td>
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<td>Campbell University College of Pharmacy &amp; Health Sciences</td>
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<td>Carle Illinois College of Medicine</td>
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<td>Case Western Reserve University</td>
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<tr>
<td>Case Western Reserve University School of Medicine – Biomedical Graduate Programs</td>
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<td>CELGENE</td>
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<td>Center for Brains, Minds and Machines</td>
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<td>Center for Engineering MechanoBiology (CEMB)</td>
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<td>Chicago Medical School/Rosalind Franklin University</td>
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<td>Children’s Hospital of Los Angeles</td>
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<td>Children’s Hospital of Philadelphia</td>
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<td>City College of New York, CUNY</td>
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<td>Clemson University – Department of Bioengineering</td>
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<td>Cleveland Clinic Lerner College of Medicine</td>
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<td>Cold Spring Harbor Laboratory, Watson School of Biological Sciences</td>
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<td>Colorado State University, College of Veterinary Medicine &amp; Biomedical Sciences</td>
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<td>Columbia University Vagelos College of Physicians &amp; Surgeons</td>
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<tr>
<td>Columbia University, Mailman School of Public Health</td>
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<tr>
<td>Cornell University College of Veterinary Medicine</td>
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<td>Exhibitor Listing</td>
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</tr>
<tr>
<td><strong>Cornell University Graduate School</strong></td>
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<tr>
<td><strong>Cornell/Rockefeller/Sloan Kettering Tri-Institutional Ph.D. Programs</strong></td>
</tr>
<tr>
<td><strong>D.E. Shaw Research</strong></td>
</tr>
<tr>
<td><strong>Dartmouth</strong></td>
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<tr>
<td><strong>David Geffen School of Medicine at UCLA</strong></td>
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<td><strong>Des Moines University</strong></td>
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<td><strong>Drexel University</strong></td>
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<td><strong>Duke University</strong></td>
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<td><strong>Edward Via College of Osteopathic Medicine (VCOM)</strong></td>
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<td><strong>Eli Lilly and Company</strong></td>
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<td><strong>Emory University — Graduate Division of Biological and Biomedical Sciences</strong></td>
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<td><strong>Emory University — Laney Graduate School</strong></td>
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<td><strong>Emory University — Rollins School of Public Health</strong></td>
</tr>
<tr>
<td><strong>Emory University Office of Postdoctoral Education &amp; FIRST Postdoctoral Fellowship Program</strong></td>
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<tr>
<td><strong>Endocrine Society</strong></td>
</tr>
<tr>
<td><strong>Eunice Kennedy Shriver National Institute of Child Health and Human Development</strong></td>
</tr>
<tr>
<td><strong>Florida A&amp;M University — COPPS Graduate Programs</strong></td>
</tr>
<tr>
<td><strong>Florida A&amp;M University CREATE Program</strong></td>
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<tr>
<td><strong>Fulbright U.S. Student Program</strong></td>
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<tr>
<td><strong>Genentech, Inc.</strong></td>
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<td><strong>Georgetown University Biomedical Graduate Education</strong></td>
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<tr>
<td><strong>George Washington University</strong></td>
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<td><strong>Georgia Institute of Technology/SENIC</strong></td>
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<td><strong>Georgia Tech and Emory University Department of Biomedical Engineering</strong></td>
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<td><strong>Gerstner Sloan Kettering Graduate School</strong></td>
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<tr>
<td><strong>Ginkgo Bioworks</strong></td>
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<td><strong>GlaxoSmithKline</strong></td>
</tr>
<tr>
<td><strong>Graduate Center, City University of New York</strong></td>
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<tr>
<td><strong>Gulf Coast Consortia</strong></td>
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<td><strong>Harvard T.H. Chan School of Public Health</strong></td>
</tr>
<tr>
<td><strong>Harvard University Biophysics Program, Chemical Biology Program &amp; Systems Biology Program</strong></td>
</tr>
<tr>
<td><strong>Harvard University, Division of Medical Sciences &amp; M.D.—Ph.D. Program</strong></td>
</tr>
<tr>
<td><strong>Harvard University, MCB/SEAS</strong></td>
</tr>
<tr>
<td><strong>Harvard Integrated Life Sciences and the Harvard Graduate School of Arts and Sciences</strong></td>
</tr>
<tr>
<td><strong>Higher Education Recruitment Consortium — HERC</strong></td>
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<tr>
<td><strong>Hopkins Bloomberg School of Public Health and School of Nursing</strong></td>
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<td><strong>Howard Hughes Medical Institution (HHMI)</strong></td>
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<td><strong>Indiana University Psychological &amp; Brain Sciences, Program in Neuroscience &amp; Cognitive Sciences</strong></td>
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<td><strong>Indiana University Purdue University Indianapolis — IUPUI Graduate School</strong></td>
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<td><strong>Indiana University Richard M. Fairbanks School of Public Health</strong></td>
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<td><strong>Indiana University, Bloomington</strong></td>
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<td><strong>Indiana University, Bloomington Department of Biology</strong></td>
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<td><strong>Indiana University, The University Graduate School</strong></td>
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<td><strong>Integrated Life Sciences — University of Georgia</strong></td>
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<td><strong>iSEED</strong></td>
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<tr>
<td><strong>IU Kelley School of Business: Evening MBA &amp; Business of Medicine Programs</strong></td>
</tr>
<tr>
<td><strong>IU School of Informatics and Computing — IUPUI</strong></td>
</tr>
<tr>
<td><strong>IU School of Medicine — Biomedical Science Graduate Programs</strong></td>
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<td><strong>IU School of Medicine — Biomedical Sciences</strong></td>
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<td><strong>IU School of Public Health — Bloomington</strong></td>
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<td><strong>Jetstream — Indiana University</strong></td>
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<td><strong>Johns Hopkins University</strong></td>
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<td><strong>Johns Hopkins University Arts &amp; Sciences and Whiting School of Engineering</strong></td>
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<td><strong>Johns Hopkins University, Arts &amp; Sciences, CMDB Program</strong></td>
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<td>Kansas City University of Medicine and Biosciences</td>
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<td>Kaplan Partner Solutions (Kaplan Test Prep)</td>
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<td>LA BioMed</td>
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<td>Marshall University Joan C. Edwards School of Medicine</td>
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<td>Mayo Clinic College of Medicine and Science</td>
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<td>Medical College of Wisconsin (MCW) Graduate School</td>
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<td>Medical College of Wisconsin (MCW) Medical School</td>
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<td>Medical College of Wisconsin Pharmacy School</td>
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<td>Medical University of South Carolina – College of Graduate Studies</td>
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<td>Meharry Medical College School of Graduate Studies and Research</td>
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<td>Miami University Graduate School</td>
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<td>Michigan State University College of Osteopathic Medicine</td>
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<td>Midwestern University</td>
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<td>MIT, Department of Biology</td>
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<tr>
<td>Morehouse College, Public Health Sciences Institute, “Project Imhtotep” Summer Internship</td>
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<tr>
<td>Morehouse School of Medicine</td>
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<td>National Academies of Sciences, Engineering, and Medicine</td>
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<td>National Heart, Lung, and Blood Institute</td>
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<td>National Institute of Dental and Craniofacial Research (NIDCR)</td>
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<td>National Institute of Mental Health</td>
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<td>Oakland University William Beaumont School of Medicine</td>
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<tr>
<td>Ohio State University MSTP, Biomedical Sciences Graduate Program,</td>
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<td>Exhibitor Listing</td>
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<tr>
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<tr>
<td>Discovery PREP</td>
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<td>Ohio State University College of Arts &amp; Sciences and Life Sciences</td>
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<td>Towson University</td>
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<td>Translational Biology, Medicine, and Health Ph.D. and Virginia Tech Carilion School of Medicine</td>
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<td>Tufts University Sackler School of Graduate Biomedical Sciences</td>
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<td>Tulane University Biomedical Sciences Graduate Program</td>
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<td>UC San Francisco</td>
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<td>UC San Francisco – Medical Scientist Training Program</td>
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<tr>
<td>UChicago Pritzker School of Medicine</td>
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<tr>
<td>UCLA Graduate Division</td>
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<tr>
<td>UCLA Graduate Programs in Bioscience</td>
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<td>UCLA Samuel Engineering/UCLA College – Physical Sciences</td>
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<tr>
<td>UConn Health, Graduate School</td>
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<tr>
<td>UGA School of Chemical, Materials and</td>
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</tbody>
</table>
Exhibitor Listing

Biomedical Engineering

UNC Gillings School of Global Public Health  1113
Uniformed Services of the Health Sciences  957
University at Buffalo  1022
University at Buffalo (SUNY) Engineering  1026
University of Alabama  345
University of Alabama at Birmingham  620
University of Alabama in Huntsville  1255
University of Arizona Graduate College  313
University of Arkansas for Medical Sciences  1104
University of California Santa Cruz  420
University of California, Berkeley  414
University of California, Davis  407
University of California, Irvine  415
University of California, Merced  409
University of California, Riverside  413
University of California, San Diego  421
University of California, Santa Barbara  411
University of Chicago  915
University of Colorado Boulder  1106
University of Colorado Denver Anschutz Medical Campus  614
University of Delaware  441
University of Florida – College of Medicine – Graduate Programs  1033
University of Florida – College of Pharmacy  1340
University of Georgia College of Veterinary Medicine  832
University of Georgia Graduate School  827
University of Georgia – PREP  829
University of Illinois  1010
University of Illinois at Chicago  339, 341, College of Medicine  438
University of Illinois Bioengineering  541
University of Illinois Department of Chemistry  1139
University of Iowa Graduate College  1008
University of Kansas – Graduate Studies and Self Graduate Fellowship  501
University of Kentucky  843
University of Kentucky College of Pharmacy  546
University of Louisville  733
University of Maryland College Park Graduate School  1015

University of Maryland Eastern Shore  1154
University of Maryland MSTP and GPILS  1326
University of Maryland School of Medicine STAR – PREP  1328
University of Maryland School of Pharmacy – Pharmaceutical Sciences  1324
University of Maryland, Baltimore County (UMBC)  1322
University of Maryland Eastern Shore  1054
University of Massachusetts  447
University of Massachusetts Medical School, Graduate School of Biomedical Sciences  1133
University of Miami  539
University of Michigan – College of Pharmacy/ MSTP  528
University of Michigan Chemistry  524
University of Michigan Medical School  526, 530
University of Michigan Office of Graduate & Postdoctoral Studies  532
University of Michigan Program in Chemical Biology  646
University of Minnesota Biomedical Sciences Graduate Programs  502
University of Minnesota Medical Scientist Training Program  500
University of Mississippi Graduate School  1151
University of Missouri BioChemistry Dept. & Biological Sciences Div  926
University of Missouri Graduate Life Sciences & PREP Scholars Program  924
University of Missouri Graduate Studies & College of Engineering  928
University of Missouri College of Veterinary Medicine  930
University of Nebraska Graduate Studies  1011
University of Nebraska Medical Center  1013
University of New England College of Osteopathic Medicine  630
University of North Carolina at Chapel Hill  1115
University of North Carolina at Charlotte, The Graduate School  1107
University of North Carolina at Chapel Hill & NC State University Joint Biomedical Engineering Graduate Program  1046
University of Notre Dame Graduate School  1332
<table>
<thead>
<tr>
<th>Institution</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Oregon Biology</td>
<td>507</td>
</tr>
<tr>
<td>University of Pennsylvania – Department of Chemistry</td>
<td>945</td>
</tr>
<tr>
<td>University of Pennsylvania – Perelman School of Medicine</td>
<td>939, 943</td>
</tr>
<tr>
<td>University of Pittsburgh – Health Sciences Diversity</td>
<td>527</td>
</tr>
<tr>
<td>University of Pittsburgh &amp; Carnegie Mellon University, MSTP</td>
<td>523</td>
</tr>
<tr>
<td>University of Pittsburgh Biomedical Graduate Programs</td>
<td>521</td>
</tr>
<tr>
<td>University of Pittsburgh School of Medicine</td>
<td>525</td>
</tr>
<tr>
<td>University of Pittsburgh, Kenneth P. Dietrich Graduate School of Arts and Sciences</td>
<td>333</td>
</tr>
<tr>
<td>University of Rochester School of Medicine and Dentistry</td>
<td>1127</td>
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<tr>
<td>University of San Francisco</td>
<td>1052</td>
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<td>1140</td>
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<td>712</td>
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<tr>
<td>University of Southern California Neurosciences Graduate Program</td>
<td>710</td>
</tr>
<tr>
<td>University of Southern California – Programs in Biomedical &amp; Biological Sciences</td>
<td>706</td>
</tr>
<tr>
<td>University of Southern California / Graduate Programs in the Pharmaceutical &amp; Translational Sciences</td>
<td>704</td>
</tr>
<tr>
<td>University of Tennessee – Knoxville</td>
<td>553</td>
</tr>
<tr>
<td>University of Texas at Dallas, Department of Bioengineering</td>
<td>627</td>
</tr>
<tr>
<td>University of Texas Health San Antonio, Graduate School of Biomedical Sciences</td>
<td>538</td>
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<td>University of Texas Health San Antonio, Long School of Medicine</td>
<td>542</td>
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<tr>
<td>University of Texas Health San Antonio, OPA &amp; IRACDA</td>
<td>544</td>
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<tr>
<td>University of Texas Health San Antonio, South Texas MSTP</td>
<td>540</td>
</tr>
<tr>
<td>University of Texas at San Antonio – The Department of Biology</td>
<td>940</td>
</tr>
<tr>
<td>University of Texas at San Antonio, The Graduate School</td>
<td>938</td>
</tr>
<tr>
<td>University of Texas Health Sciences Center at Houston, McGovern Medical School</td>
<td>652</td>
</tr>
<tr>
<td>University of Texas Institute for Cellular and Molecular Biology</td>
<td>557</td>
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<tr>
<td>University of Texas MD Anderson Cancer</td>
<td>1205</td>
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<tr>
<td>Center UTHealth Graduate School of Biomedical Sciences</td>
<td>922</td>
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<td>University of Texas School of Biomedical Informatics at Houston</td>
<td>822</td>
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<tr>
<td>University of Texas Southwestern Medical Center Dallas</td>
<td>738</td>
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<tr>
<td>University of Utah Bioscience Ph.D./M.D. –Ph.D. Programs</td>
<td>315</td>
</tr>
<tr>
<td>University of Virginia, Biomedical Sciences</td>
<td>1300</td>
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<tr>
<td>University of Washington</td>
<td>731</td>
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<td>University of Washington, Departments of Biology &amp; Biochemistry</td>
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<tr>
<td>University of Washington, Molecular &amp; Cellular Biology</td>
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<td>University of Washington Molecular Medicine and Mechanisms of Disease (M3D) PhD Program</td>
<td>732</td>
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<td>University of Washington, MSTP (M.D./Ph.D.) and Genome Sciences</td>
<td>722</td>
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<td>726</td>
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<td>UNT Health Science Center Graduate School of Biomedical Sciences</td>
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<td>Van Andel Institute Graduate School</td>
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<td>Vanderbilt University School of Medicine and M.D./Ph.D. Program</td>
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<td>Wake Forest University Graduate School of Biomedical Sciences</td>
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<td>Washington University in St. Louis</td>
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<td>Division of Biology and Biomedical Sciences</td>
<td>West Virginia School of Osteopathic Medicine</td>
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<td>Wayne State University 1121, 1123, 1124, 1125</td>
<td>West Virginia University Health Sciences Center</td>
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<tr>
<td>Wayne State University Graduate School 1120</td>
<td>William Carey University College of Osteopathic Medicine 639</td>
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<td>Wayne State University Office of Diversity and Inclusion 1122</td>
<td>Worcester Polytechnic Institute 1051</td>
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<tr>
<td>Weill Cornell / Rockefeller / Sloan Kettering Tri – Institutional M.D. – Ph.D. Program 1208</td>
<td>Yale University Biological and Biomedical Sciences Program 824</td>
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<td>Weill Cornell Graduate School of Medical Sciences 1201</td>
<td>Yale University Diversity, Inclusion, Community Engagement, and Equity (DICE) 830</td>
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<td>Weill Cornell Medicine - Department of Healthcare Policy &amp; Research 1354</td>
<td>Yale University Graduate School Student Development &amp; Diversity 820</td>
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<td>Yale University MD/PhD Program 822</td>
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<td>Yale University School of Public Health 828</td>
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</tbody>
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“ABRCMS promotion of diversity in STEM can be seen through its attendees and speakers. It was an inspirational setting, especially as a minority student. Seeing speakers who came from similar backgrounds as myself further motivated me to pursue a STEM degree.”
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Science & Public Health

Physiology
Neuroscience

Microbiology
Immunology
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