

Invest in the Future of STEM



ABRCMS 2019

ANAHEIM, CALIFORNIA

NOVEMBER 13-16, 2019

Final Program

Funded by:



National Institute of
General Medical Sciences



Managed by:

AMERICAN
SOCIETY FOR
MICROBIOLOGY



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Welcome from Dr. Avery August

On behalf of the Annual Biomedical Research Conference for Minority Students (ABRCMS), I would like to extend a hearty welcome to Anaheim, CA, and the 2019 conference. As the meeting evolves in response to changes over the years, 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 very strong traditions of investment in diversity and inclusion with excellence in STEM.

This long history is fitting for our theme of this year's meeting, "Invest in the Future of STEM," with particular focus of our vision of a future that prominently features all of you as fully engaged participants in a career in STEM research. ABRCMS is extremely proud of the place that we play in preparing underrepresented students for a career in STEM research. We know that this may be the first scientific meeting for most of the students, our future leaders, and we want it to be one of many in the future. We strive to inspire our future leaders at this meeting, because they will continue to diversify the biomedical research workforce in ways that represent our society. Only with a diverse scientific workforce, whose future starts now, can we hope to make strides and advances in the issues such as health disparities and personalized medicine that have huge impacts in our communities. Addressing these and other issues will continue to require breakthroughs and new ways of thinking and approaching problems that facilitate these breakthroughs. And a more diverse workforce, with our current and our future leaders playing prominent roles, will accomplish this.

With this in mind, we have assembled an outstanding program that will inspire, challenge and educate. For the future leaders of STEM attending, this is an opportunity to show your preparation and training, step up to the plate, it's your turn to begin your journey! Take advantage of all that we have prepared for you. For the faculty mentors and advisors, your future leaders are here to shine, and we all encourage and support you in ensuring they make the best of the meeting. We look forward to the exciting science and inspiring words of the presenters, and to hearty conversations with the exhibitors. At ABRCMS, we expect networking, the most cutting edge advances in the biomedical and behavioral sciences, and discussions of some of the most important issues facing minority students as well as professionals as they impact our community.

Everything you see during your time here is the result of hard work of planning and preparation by the ABRCMS Steering Committee, the ASM staff, the exhibitors (make sure to visit the booths!), and many volunteers, who have done a remarkable job to make this meeting possible. They have invested their time and efforts towards the scientific program, evaluating abstracts, and all the planning that goes into hosting your visit, setting up booths and making sure that everything is just right, so that you can experience what I know will be one of the most rewarding meetings of your careers. I would like to thank them all in advance for all their hard work making this meeting a success. Last but certainly not least, we are particularly 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.

Avery August, Ph.D.
Chairperson, ABRCMS



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**AMERICAN
SOCIETY FOR
MICROBIOLOGY**

1752 N St. NW
Washington, DC
20036

Questions?
Contact service@asmusa.org



Greetings from NIH

On behalf of the National Institutes of Health's National Institute of General Medical Sciences (NIGMS), we'd like to welcome you to the 2019 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, diversity, and research capacity building. Our NIGMS programs range from the high school level through the undergraduate, graduate, postdoctoral and faculty levels. For example, we support an array of programs to enhance diversity in the biomedical research workforce including Science Education Partnership Awards, Bridges to the Baccalaureate, Building Infrastructure Leading to Diversity, Maximizing Access to Research Careers, Research Training Initiative for Scientific Enhancement, Initiative for Maximizing Student Development, Postbaccalaureate Research Education, Bridges to the Doctorate, Institutional Research and Academic Career Development Awards, Maximizing Opportunities for Scientific and Academic Independent Careers, the Diversity Supplement Program, the Native American Research Centers for Health, the Support of Competitive Research Programs, and the National Research Mentoring Network.

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





WEDNESDAY, NOVEMBER 13

- 12:00 p.m. – 8:00 p.m. Registration Open
- 1:00 p.m. – 4:30 p.m. Concurrent Workshops
- 3:00 p.m. – 4:30 p.m. Concurrent Professional Development Sessions
- 3:00 p.m. – 8:00 p.m. Exhibitor Move-In
- 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. – 9:30 p.m. ABRCMS Travel Awardee Orientation

THURSDAY, NOVEMBER 14

- 7:00 a.m. – 7:00 p.m. Registration Open
- 7:00 a.m. – 8:00 a.m. Networking Breakfast
- 8:00 a.m. – 12:00 p.m. Exhibitor Move-In
- 8:15 a.m. – 9:00 a.m. Mandatory Judges Meeting by Discipline
- 8:15 a.m. – 9:00 a.m. Orientation for Students
- 8:15 a.m. – 9:00 a.m. Concurrent Professional Development Sessions
- 9:15 a.m. – 9:45 a.m. Concurrent Scientific Sessions
- 10:00 a.m. – 11:15 a.m. Concurrent Professional Development Sessions
- 11:30 a.m. – 12:00 p.m. Concurrent Scientific Sessions
- 12:15 p.m. – 1:00 p.m. Networking Lunch by Discipline
- 12:45 p.m. – 1:30 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
- 8:00 p.m. – 10:00 p.m. Gateway to the Future: Career Path Session
- 8:00 p.m. – 10:00 p.m. Master's Level Poster Session/Graduate Students and Postdoctoral Scientists
Dessert and Networking Mixer

Schedule-at-a-Glance

FRIDAY, NOVEMBER 15

- 7:00 a.m. – 5:00 p.m. Registration Open
- 7:00 a.m. – 7:45 a.m. Networking Breakfast
- 8:00 a.m. – 9:15 a.m. Concurrent Professional Development Sessions
- 9:30 a.m. – 10:00 a.m. Concurrent Scientific Sessions
- 10:15 a.m. – 12:00 p.m. Exhibit and Poster Hall Hours
- 10:30 a.m. – 11:30 a.m. Mentoring Coaching
- 10:30 a.m. – 11:45 a.m. Poster Session 3 (C)
- 12:15 p.m. – 1:00 p.m. Networking Lunch by Discipline
- 1:00 p.m. – 1:45 p.m. Plenary Scientific Session
- 2:00 p.m. – 3:00 p.m. Concurrent Professional Development Sessions
- 3:00 p.m. – 6:00 p.m. Exhibit and Poster Hall Hours
- 3:15 p.m. – 4:30 p.m. Poster Session 4 (D)
- 3:45 p.m. – 4:30 p.m. Mentoring Showcase
- 4:30 p.m. – 5:30 p.m. Mentoring Coaching
- 4:45 p.m. – 6:00 p.m. Poster Session 5 (E)
- 6:15 p.m. – 7:15 p.m. Concurrent Professional Development Sessions
- 6:30 p.m. – 9:00 p.m. Networking Events

SATURDAY, NOVEMBER 16

- 7:00 a.m. – 1:00 p.m. Registration Open
- 7:00 a.m. – 7:45 a.m. Networking Breakfast
- 8:00 a.m. – 9:15 a.m. Oral Presentations
- 9:15 a.m. – 12:00 p.m. Exhibit and Poster Hall Hours
- 9:30 a.m. – 11:30 a.m. Mentoring Coaching
- 11:00 a.m. – 11:50 a.m. Exhibitor Showcase
- 10:00 a.m. – 11:15 a.m. Poster Session 6 (F)
- 12:00 p.m. – 4:00 p.m. Exhibitor Move-Out
- 12:15 p.m. – 1:00 p.m. Networking Lunch
- 1:00 p.m. – 2:00 p.m. Closing Keynote Address
- 2:15 p.m. – 2:45 p.m. Concurrent Scientific Sessions
- 3:00 p.m. – 4:30 p.m. Concurrent Professional Development Sessions
- 4:30 p.m. – 7:30 p.m. FREE TIME!
- 7:30 p.m. – 10:00 p.m. Banquet and Awards Ceremony
- 10:00 p.m. – 2:00 a.m. Dance and Social (all are invited)



ABRCMS Steering Committee



Avery August, Ph.D.

*Chairperson
Cornell University, College
of Veterinary Medicine*



Tracy Johnson, Ph.D.

*University of California,
Los Angeles*



Lisa Barnes, Ph.D.

Rush University



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*University of Puerto Rico,
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*University of California,
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M.D., Ph.D.**

*The Johns Hopkins
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University of California, Irvine
- **Bolaji Thomas, Ph.D.**
Rochester Institute of Technology
- **Alfredo Torres, Ph.D.**
University of Texas Medical Branch at Galveston

Partnership Ad Hoc Committee

- **Gilda Barabino, Ph.D.**
The City College of New York
- **Cherrie Butts, Ph.D.**
Biogen
- **Victoria McGovern, Ph.D.**
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Important Information

Orientation: How to Make the Best of a Scientific Meeting

ABRCMS orientation will help maximize your learning and networking opportunities throughout the conference. Orientation will be held on **Thursday, November 14, from 8:15 a.m. to 9:00 a.m. in Ballroom A-E.**

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.

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

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

ADA

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

Awards Banquet and Ceremony

The Awards Banquet & Ceremony is **Saturday, November 16 from 7:30 p.m. to 10:00 p.m.** The ceremony will begin promptly at 7:30 p.m.

Wi-Fi 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: **ABRCMS2019**

Name Badge Policy & Badge Replacement

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

Evaluation

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. 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 Lunch by Discipline

Networking sessions will be held **Thursday and Friday from 12:15 p.m. to 1:00 p.m.** These lunch sessions offer a forum for small-group discussions focused on the student activities and career pathways offered by societies. All ABRCMS exhibitors and faculty attendees who are within the 12 scientific disciplines are strongly encouraged to attend.

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.

Designated Rooms

All rooms will be available from **Wednesday, November 13 through Saturday, November 16.**

- **Speaker Ready Room** 205 A
- **Judges Lounge** 207 AB
- **FASEB and Self-Practice** 213 AB
(Poster Presentation Practice Room)
- **FASEB and Self-Practice** 213 C
(Oral Presentation Practice Room)
- **ADA Resource Room** 205 B
- **Exam Room** 211 B
- **First Aid Room** Registration Area
- **Lactation Room** 109
- **Prayer/Meditation Room** 201 C
- **General Study Room** 212 A
(Note: Please check your hotel for other available study rooms.)

Exam Room

To accommodate students who need to take exams while at the conference, please visit the Registration Area to sign-up accordingly.

Enhancements and Highlights

College/University Spirit Day

On **Wednesday, November 13**, 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**.

Concurrent Scientific Sessions

ABRCMS has enhanced the 2019 conference program by expanding the scientific content. More than 30 sessions across 12 scientific disciplines will be shared with the STEM community by experts who have a breadth of knowledge on emerging scientific concepts.

- **Thursday, November 14: 9:15 a.m. – 9:45 a.m.**
- **Thursday, November 14: 11:30 a.m. – 12:00 p.m.**
- **Friday, November 15: 9:30 a.m. – 10:00 a.m.**
- **Saturday, November 16: 2:15 p.m. – 2:45 p.m.**

Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences

(Co-Sponsored by ASM and Genentech)

On **Thursday, November 14 from 8:00 p.m. to 10:00 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 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, academic medicine, and government/policy/foundation/law.

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 2019. These practice sessions are scheduled for 30-minute periods. Students **MUST** sign up at the **FASEB Peer-Mentoring Office in Room 211 A** in advance.

FASEB Mentors

- **Laura de Lorenzo Barrios**
St. Thomas University
- **Tyesha Nicole Burks**
Bowie State University
- **Sarah Deemer**
University of Alabama, Birmingham
- **Felicia Emery**
St. Charles Community College
- **Devyn Dior Gillette**
Bowie State University
- **Kamilah E. Grant**
Alcorn State University
- **Oliver T. Jenkins, Jr.**
Virginia Department of Health
- **L'Aurette A. Johnson**
University of Minnesota
- **Michelle Tatom Juarez**
Howard Hughes Medical Institute
- **LeeCole Legette**
Pharmavite, LLC
- **Shaun Marie Logan**
Texas A&M University College of Dentistry
- **Noraida Martinez-Rivera**
University of Kansas
- **Melissa Mason**
Alcorn State University

- **Melanie R. McReynolds**
Princeton University
- **Kimberly Xaviera Mulligan-Guy**
Auburn University
- **Chloe Nerissa Poston**
Brown University
- **Kennie Raviie Shepherd**
Morehouse School of Medicine
- **Jayne Stewart Reuben**
Texas A&M University College of Dentistry
- **Tracy A. Womble**
Florida A&M University

FASEB Practice Room Hours

- **Wednesday, November 13:**
1:00 p.m. - 9:00 p.m.
- **Thursday, November 14:**
8:00 a.m. - 9:00 p.m.
- **Friday, November 15:**
8:00 a.m. - 8:30 p.m.
- **Saturday, November 16:**
7:30 a.m. - 9:30 a.m.

FASEB/General Practice Locations

- **Poster Practice: Room 213 AB**
- **Oral Practice: Room 213 C**

Mentoring Coaching Sessions

(Recommended for all students)

Come discuss the ins and outs of mentoring, within and outside the research environment. Several mentors will host a table and provide coaching during Exhibit and Poster Hall hours. First time attendees should be especially mindful that first impressions are critical at the beginning of their careers.

Group Coaching Times:

- **Thursday, November 14: 3:00 p.m. - 5:00 p.m.**
- **Friday, November 15: 10:30 a.m. - 11:30 a.m.**
- **Friday, November 15: 4:30 p.m. - 5:30 p.m.**
- **Saturday, November 16: 9:30 a.m. - 11:30 a.m.**

Mentoring Showcase

Students Utilizing Mentoring as a Personal Developmental Strategy

(Recommended for all students)

Join us in the Exhibit and Poster Hall for a discussion about the value of mentoring, including strategies, tools, and protocols for utilizing a mentor and participating in a mentorship alliance. This will be held on **Friday, November 15, from 3:45 p.m. to 4:30 p.m. in the Exhibit Hall Theater.**

2019 ABRCMS Mentors

- **Howard G. Adams, Ph.D.**
Howard G. Adams & Associates
- **Keshia Ashe, Ph.D.**
Many Mentors, National Science Foundation (NSF)
- **Earnestine Baker M.A.**
University of Maryland, Baltimore County
- **Judy Blumenthal, Ph.D.,**
Montgomery College
- **Peter Gannett, Ph.D.**
*Nova Southeastern University
College of Pharmacy*
- **Herbert Geller, Ph.D.**
*National Heart, Lung, and
Blood Institute (NIH)*
- **Aziza Glass, D.V.M.**
Personal Touch Veterinary Clinic, PLLC
- **Patrice Gregory, Ph.D.**
Sandia National Labs
- **Marcus Huggans, Ph.D.**
GEM Fellowship
- **Adrian Land, Ph.D.**
Procter & Gamble
- **Amy Maki, M.Ed.**
A.O. Maki & Associates
- **Daniel Miranda, Jr., Ph.D.**
Amgen
- **Beronda Montgomery, Ph.D.**
Michigan State University

- **Ofelia Olivero, Ph.D.**
National Cancer Institute (NCI)
- **Joel Oppenheim, Ph.D.**
NYU School of Medicine
- **Marquitta Qualls, Ph.D.**
Entropia Consulting
- **Juan Ramírez-Lugo, Ph.D.**
University of Puerto Rico, Río Piedras
- **Delira Robbins, Ph.D.**
University of Tennessee Research Foundation
- **Cheryl Rowe-Rendleman, Ph.D.**
Omar Consulting Group, LLC
- **David Sanchez, Ph.D.**
Western University of Health Sciences
- **Tori Strong, Ph.D.**
Vyripharm Biopharmaceuticals
- **Iris Wagstaff, Ph.D.**
American Association for the Advancement of Science (AAAS)
- **Sylvia Wilson Thomas, Ph.D.**
University of South Florida
- **Patrice Yarbough, Ph.D.**
NASA

Master's Level Poster Session/ Graduate Students and Postdoctoral Scientists Dessert and Networking Mixer

Thursday, November 14:
8:00 p.m. – 10:00 p.m.

Exhibit Passport

Participate in the exhibit hall passport program to win prizes. See page 47–48 for details.

Exhibitor Showcase

Join us in the **Exhibit and Poster Hall** for the Exhibitor Showcases, where you can hear directly from the exhibitors. These innovative 20-minute presentations will be held on **Saturday, November 16, from 11:00 a.m. to 11:50 a.m. in the Exhibit Hall Theater.**

11:00 a.m. – 11:20 a.m.

- Institution: St. Jude Children's Research Hospital Graduate School of Biomedical Sciences
- Session Title: Information About Our Ph.D. and MD/Ph.D. Programs and Offer Tips for a Top Application

11:30 a.m. – 11:50 a.m.

- Institution: Emory University, Laney Graduate School
- Session Title: Laney Graduate School at Emory University: Striving for Excellence and Diversity

Exam Room

To accommodate students who need to take exams while at the conference, please visit the Registration Area to sign-up accordingly.

ABRCMS Online

Your ABRCMS experience no longer has to end on the last day of the conference.

ABRCMS Online is an extension of the conference that allows you and your students to continue learning, with webinars that explore professional development, diversity, and scientific topics. Take advantage of this opportunity to stay connected.

The full webinar schedule is available at abrcms.org/online.



Exhibitor and Judges Corner

FOR EXHIBITORS

Move-In

- Wednesday, November 13:
3:00 p.m. – 8:00 p.m.
- Thursday, November 14:
8:00 a.m. – 12:00 p.m.

Exhibitor Hours

- Thursday, November 14:
1:45 p.m. – 5:30 p.m.
- Friday, November 15:
10:15 a.m. – 12:00 p.m. and
3:00 p.m. – 6:00 p.m.
- Saturday, November 16:
9:15 a.m. – 12:00 p.m.

Early Admittance into Exhibit Hall

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

Exhibitor Services Area

This is where exhibitors can find the exhibitor lounge, Freeman, Smart City(Internet), PSAV and Experient(Lead Retrieval) service desks. The exhibitor area can be found on the left hand side of the exhibit hall near the restrooms.

Exhibitor Lounge

Complimentary beverages are available to all Exhibitors in the Exhibitor Lounge located in the Exhibitor Service Area during the following times:

- Wednesday, November 13:
3:00 p.m. – 8:00 p.m.
- Thursday, November 14:
8:00 a.m. – 12:00 p.m. and
1:00 p.m. – 5:00 p.m.
- Friday, November 15:
9:30 a.m. – 12:00 p.m. and
2:00 p.m. – 6:00 p.m.
- Saturday, November 16:
8:00 a.m. – 11:00 a.m.

Leaving Early

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

Move-Out

- Saturday, November 16:
12:00 p.m. – 4:00 p.m.

FOR JUDGES

Judges Lounge

Room: 207 AB

- Wednesday, November 13:
12:00 p.m. - 6:00 p.m.
- Thursday, November 14:
7:00 a.m. - 6:30 p.m.
- Friday, November 15:
7:00 a.m. - 6:30 p.m.
- Saturday, November 16:
7:00 a.m. - 12:30 p.m.

Mandatory Judge Meeting by Discipline

- Thursday, November 14:
8:15 a.m. - 9:00 a.m.

Speakers, Exhibitors, Judges, and Program Directors Networking Social

- Friday, November 15:
6:30 p.m. - 8:00 p.m.

Important Reminder:

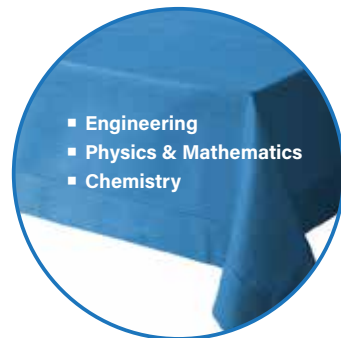
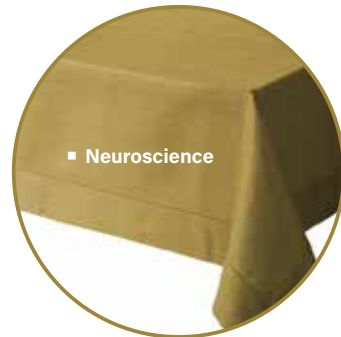
- Judges' score submissions are due by 12:00 p.m. on Saturday, November 16



“ ABRCMS allows underprivileged and underrepresented students the opportunity to practice/learn skills like presenting their research to push them further in their career.”

Networking Meals by Discipline

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 table colors. See table below.



ABRCMS Supporters

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- University of New England College of Osteopathic Medicine
- University of Wisconsin-Madison School of Medicine and Public Health
- Worcester Polytechnic Institute



ABRCMS 2019 PLENARY SPEAKERS

Wednesday,
November 13

7:45 p.m. – 8:30 p.m.



PLENARY SCIENTIFIC SESSION:

Power in Numbers: Unveiling Hidden Figures

Talithia Williams, Ph.D.

*Harvey Mudd College,
Claremont, CA*

Thursday,
November 14

12:45 p.m. – 1:30 p.m.



PLENARY SCIENTIFIC SESSION:

Hip Hop Stroke: An Investigator Initiated NIH-Funded Journey

Olajide Williams, M.D., M.S.

*Columbia University Medical Center/New York
Presbyterian Hospital, New York, NY*

Friday,
November 15

1:00 p.m. – 1:45 p.m.



PLENARY SCIENTIFIC SESSION:

The Impact of Heterogeneity in Cancer Genome Science

John D. Carpten, Ph.D.

*University of Southern California,
Los Angeles, CA*

Saturday,
November 16

1:00 p.m. – 2:00 p.m.



CLOSING KEYNOTE ADDRESS:

An Afternoon with Soledad O'Brien: Her Life Stories

Soledad O'Brien

*Award-Winning Journalist, Entrepreneur &
Host of the Weekly Syndicated Political Show
"Matter of Fact with Soledad O'Brien"*



ABRCMS 2019 CONCURRENT SCIENTIFIC SPEAKERS

THURSDAY, NOVEMBER 14 | 9:15 A.M. – 9:45 A.M.



Utilizing Structural Biology to Combat Disease

Celia Goulding, Ph.D., University of California, Irvine, CA



Understanding Phenotypic Variation: Lessons from Developmental Disorders

Eliezer Calo, Ph.D., Massachusetts Institute of Technology, Cambridge, MA



Skin Cancer Disparities: More Than Just Skin-Deep

Masaaki Kawasumi, M.D., Ph.D., University of Washington, Seattle, WA



Atomic-scale Imaging and Spectroscopy of Materials for Electrochemical Energy Conversion and Storage

William J. Bowman, Ph.D., University of California, Irvine, Irvine, CA



The Role of Rhomboid Pseudoproteases in Protein Homeostasis

Sonya Neal, Ph.D., University of California, San Diego, San Diego, CA



Our Mysterious Immune System: Is There an On/Off Switch?

Hossam Ashour, Ph.D., University of South Florida St. Petersburg, St. Petersburg, FL



Analytical Chemistry in Pharmaceutical Development

Jose Cintron, Ph.D., Eli Lilly & Company, Indianapolis, IN



Our Mysterious Immune System: Is There an On/Off Switch?

Hatem A. Elshabrawy, B.S. Pharm., Ph.D., Sam Houston State University, College of Osteopathic Medicine, Huntsville, TX



Understanding Diseases with Computational and Systems Biology

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



The World's Smallest Hunter Taking Down the Deadliest Human Pathogens

Daniel Kadouri, Ph.D., Rutgers School of Dental Medicine, Newark, NJ



Understanding Diseases with Computational and Systems Biology

Olanrewaju Morenikeji, Ph.D., Rochester Institute of Technology, Rochester, NY



The World's Smallest Hunter Taking Down the Deadliest Human Pathogens

Henry Williams, Ph.D., Florida A&M University, Tallahassee, FL



**Staying Woke, Part 1:
The Neurobiology of Sleep
Disturbances in Autism**

*Lucia Peixoto, Ph.D., Washington
State University, Pullman, WA*



**Sign of the Times:
Time Based Methods for
Measuring Vocabulary
Knowledge**

*Rihana Mason, Ph.D., Georgia
State University, Atlanta, GA*



**When Microengineering
Meets Physiology:
Thrombosis-on-Chip**

*Monicah Otieno, Ph.D., Janssen
Pharmaceuticals/Society of
Toxicology, Reston, VA*



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



**Hydrogen Sulfide (H₂S)
in Humans: Physiology,
Biochemistry, and Relevance**

*Juan López-Garriga, Ph.D.,
University of Puerto Rico, Mayagüez
Campus, Mayagüez, Puerto Rico*



**Adapting an Evolutionary
Model for Microbiota
Studies: Diversity Matters**

*Kat Milligan-Myhre, Ph.D., University
of Alaska Anchorage, Anchorage, AK*



**How Do Cancer Cells
Communicate with the Host**

*Renumathy Dhanasekaran, M.D.,
Stanford University, Stanford, CA*



**Epigenetics: Pushing the
Boundaries of Memory**

*Marcelo Wood, Ph.D., University
of California, Irvine, Irvine, CA*



**Understanding Genetic
Variation: Three Cutting-
Edge Research Studies
in Diverse Populations**

*Neil Hanchard, M.D., Ph.D., Baylor
College of Medicine, Houston, TX*



**The Intelligent Bladder
Urothelium: Not Just
a Passive Barrier**

*Bahareh Vahabi, Ph.D., University
of the West of England, Bristol, UK*



**Understanding Genetic
Variation: Three Cutting-
Edge Research Studies
in Diverse Populations**

*Cristina de Guzman Strong, Ph.D.,
Washington University School
of Medicine, St. Louis, MO*



**Partnering with Communities
to Improve Cardiovascular
Health Equity**

*Elizabeth Lynch, Ph.D., Rush University
Medical Center, Chicago, IL*



Listening to Enzymes Sing

Gregory A. Weiss, Ph.D., University of California, Irvine, Irvine, CA

“A rare opportunity to see undergraduate research in a national context.”



Am I Potent?: Biological Activity Determination of Drugs Using Cell Based Assays

Jeanne Helmreich, Ph.D., Eli Lilly and Company, Indianapolis, IN



Obesity, Immunity, and Impact on CAR T-cell Immunotherapy

Curtis Henry, Ph.D., Emory University, School of Medicine, Atlanta, GA



Am I Potent?: Biological Activity Determination of Drugs Using Cell Based Assays

Krishna Moody, Ph.D., Eli Lilly and Company, Indianapolis, IN



Diversity-generating Retroelements and the Accelerated Evolution of Adaptive Traits

Jeffrey F. Miller, Ph.D., University of California, Los Angeles, Los Angeles, CA



Trim the Fat: The Role of Lipids in Cancer Development

Glenn Simmons, Jr., Ph.D., University of Minnesota Medical School, Minneapolis, MN



A Lot of Nerve! Evolutionary Mechanisms of Neural Regeneration

Wendy Beane, Ph.D., Western Michigan University, Kalamazoo, MI



NAD+ Metabolism during Aging: Insight from Quantitative Flux Analysis

Melanie McReynolds, Ph.D., Princeton University, Princeton, NJ



A Lot of Nerve! Evolutionary Mechanisms of Neural Regeneration

Kelly Ai-Sun Tseng, Ph.D., University of Nevada, Las Vegas, Las Vegas, NV



Twists and Turns Along the Path of Reactivity-driven Methods Development

Hosea Nelson, Ph.D., University of California, Los Angeles, Los Angeles, CA



Integrating Genomics and Epigenomics for the Identification of Novel Cancer Therapeutics

Claudia Benavente, Ph.D., University of California, Irvine, Irvine, CA



Functional Cancer Cell Maps

Jason Kreisberg, Ph.D., University of California, San Diego, San Diego, CA



Flexibility of Implicit Bias

Yi (Jenny) Xiao, Ph.D., University of Washington, Tacoma, Tacoma, WA



The Perils of Underrepresentation: What Research Tells Us about the Future of Broad-based Genetic Testing

Latrice Landry, M.S., Ph.D., Harvard Medical School and Harvard School of Public Health, Boston, MA

“ Being surrounded by intelligent, motivated, and driven people of similar backgrounds was not only encouraging, but reassuring.”



The Social Lives of Mitochondria: Inter-organelle Membrane Contacts as Signaling Platforms

Samantha Lewis, Ph.D., University of California, Davis, Davis, CA



Deconvoluting Disease Biomarkers with Computational Biology Tools

Felix Rivera-Mariani, Ph.D., Larkin University, Miami, FL



Metastasis: The Unbeatable Beast?

Diana Cittelly, Ph.D., University of Colorado, Anschutz Medical Campus, Aurora, CO



Catching Anxiety: The Impact of HSV-1 on Animal Behavior

Gerald Griffin, Ph.D., Hope College, Holland, MI



Genetic and Behavioral Interrogation of Pain Neural Circuits

Ishmail Abdus-Saboor, Ph.D., University of Pennsylvania, Philadelphia, PA



Staying Woke, Part 2: The Neurobiology of Normal Sleep and Arousal

Chicora Oliver, Ph.D., Emory University, Atlanta, GA



Deconvoluting Disease Biomarkers with Computational Biology Tools

Andre Hudson, Ph.D., Rochester Institute of Technology, Rochester, NY

“ It provides a very tight-knit support system for minority success.”

The ABRCMS Program

Wednesday, November 13

Workshops

(4 Session Options)

1:00 p.m. - 4:30 p.m.

📍 201 A

SESSION 1

The Leadership Alliance Strategic Planning Listening Session

(By Invitation Only)

SPEAKER

- **Medeva Ghee, Ph.D.**, *The Leadership Alliance, Providence, RI*

1:00 p.m. - 4:30 p.m.

📍 202 AB

SESSION 2

Addressing the Mental Health, Wellness and Resilience of STEM Students

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

SPEAKERS

- **Sharon Milgram, Ph.D.**, *National Institutes of Health, Bethesda, MD*
- **Annie Scheiner, LCMFT**, *Wellness Advisor-OITE, National Institutes of Health, Bethesda, MD*
- **Michael J. Sheridan, Ph.D.**, *National Institutes of Health, Bethesda, MD*

1:00 p.m. - 4:30 p.m.

📍 203 AB

SESSION 3

Building Bridges, Creating Allies: Confronting Questions of Privilege and Power in an Age of Polarization

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

SPEAKERS

- **Shai Butler, D.L.P.**, *The College of Saint Rose, Albany, NY*
- **Richard J. Prystowsky, Ph.D.**, *Marion Technical College, Marion OH*

1:00 p.m. - 4:30 p.m.

📍 210 B

SESSION 4

Fair Play Workshop: Train the Trainer

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

SPEAKERS

- **Percy Brown, M.S.Ed.**, *University of Wisconsin-Madison, Madison, WI*
- **Donald Dantzer, M.S.Ed.**, *University of Wisconsin-Madison, Madison, WI*
- **Christine Maidl-Pribbenow, Ph.D.**, *University of Wisconsin-Madison, Madison, WI*

Concurrent Professional Development Sessions

(4 Session Options)

3:00 p.m. - 4:30 p.m.

📍 204 AB

SESSION 1

Presentation Techniques: How to Make Effective Poster and Oral Presentations

(Recommended for first-time presenters and non-presenters)

SPEAKER

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

3:00 p.m. - 4:30 p.m.

📍 206 AB

SESSION 2

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*

REPEAT SESSIONS ARE DENOTED BY ★

3:00 p.m. - 4:30 p.m.

📍 208 AB

SESSION 3**The Ins and Outs of Graduate School Panel Discussion***(Recommended for community college, undergraduate, and postbaccalaureate students)***MODERATOR**

- **Nicquet Blake, Ph.D.**, UT Health San Antonio, San Antonio, TX

SPEAKERS

- **Graduate School Panelists**

3:00 p.m. - 4:30 p.m.

📍 207 CD

SESSION 4**No Means No: Let Harassers and Bullies Know You're NOT a Target ★***(Recommended all graduate students, faculty, postdoctoral scientists, program directors, and exhibitors)***SPEAKER**

- **Sherry Marts**, S*Marts Consulting, Washington, DC

Concurrent Professional Development Sessions*(13 Session Options)*

5:00 p.m. - 6:00 p.m.

📍 304 B

SESSION 1**Networking in Your Scientific Discipline: Biochemistry and Molecular Biology***(Recommended all students)***FACILITATORS**

- **Charles Bevins, M.D., Ph.D.**, University of California, Davis, Davis, CA
- **Candice Etson, Ph.D.**, Wesleyan University, Middletown, CT
- **Gustavo Silva, Ph.D.**, Duke University, Durham, NC

5:00 p.m. - 6:00 p.m.

📍 202 AB

SESSION 2**Networking in Your Scientific Discipline: Cancer Biology***(Recommended all students)***FACILITATORS**

- **Manu Platt, Ph.D.**, Georgia Institute of Technology, Atlanta, GA
- **Luise Ricks-Santi, Ph.D.**, Hampton University, Hampton, VA

5:00 p.m. - 6:00 p.m.

📍 203 AB

SESSION 3**Networking in Your Scientific Discipline: Cell Biology***(Recommended all students)***FACILITATORS**

- **Gustavo Arrizabalaga, Ph.D.**, Indiana University School of Medicine, Indianapolis, IN
- **Brent Berwin, Ph.D.**, Dartmouth Medical School, Hanover, NH
- **Tracy Johnson, Ph.D.**, University of California, Los Angeles, Los Angeles, CA

5:00 p.m. - 6:00 p.m.

📍 304 A

SESSION 4**Networking in Your Scientific Discipline: Chemistry***(Recommended all students)***FACILITATORS**

- **Squire Booker, Ph.D.**, The Pennsylvania State University, University Park, PA
- **Claudio Ortiz, Ph.D.**
- **Laura Sanchez, Ph.D.**, University of Illinois at Chicago, Chicago, IL

5:00 p.m. - 6:00 p.m.

📍 210 A

SESSION 5**Networking in Your Scientific Discipline: Computational and Systems Biology***(Recommended all students)***FACILITATORS**

- **Dana Crawford, Ph.D.**, Case Western Reserve University, Cleveland, OH
- **Jeanette Papp, Ph.D.**, University of California, Los Angeles, Los Angeles, CA
- **Bolaji Thomas, Ph.D.**, Rochester Institute of Technology, Rochester, NY

5:00 p.m. - 6:00 p.m.

📍 304 C

SESSION 6**Networking in Your Scientific Discipline: Developmental Biology and Genetics***(Recommended all students)***FACILITATORS**

- **Cristian Aguilar, Ph.D.**, Azusa Pacific University, Azusa, CA

- **Tyrell Carr, Ph.D.**, Saint Augustine University, Raleigh, NC
- **Marlene de la Cruz, Ph.D.**, University of California, Irvine, Irvine, CA

5:00 p.m. - 6:00 p.m. 📍 304 D

SESSION 7

Networking in Your Scientific Discipline: Engineering, Physics, and Mathematics

(Recommended all students)

FACILITATORS

- **Angela Alexander-Bryant, Ph.D.**, Clemson University, Clemson, SC
- **Rafael Díaz-Escamilla, Ph.D.**, California State University, Sacramento, Sacramento, CA
- **Abiraman Srinivasan, Ph.D.**, Community College of Allegheny County, Pittsburgh, PA

5:00 p.m. - 6:00 p.m. 📍 210 B

SESSION 8

Networking in Your Scientific Discipline: Immunology

(Recommended all students)

FACILITATORS

- **Cherié Butts, Ph.D.**, Biogen, Cambridge, MA
- **Harlan Jones, Ph.D.**, University of North Texas, Denton, TX
- **Cleber Ouverney, Ph.D.**, San Jose State University, San Jose, CA

5:00 p.m. - 6:00 p.m. 📍 BALLROOM C

SESSION 9

Networking in Your Scientific Discipline: Microbiology

*Sponsored by American Society for Microbiology
Light refreshments will be served.
(Recommended all students)*

FACILITATORS

- **Danielle Graham, Ph.D.**, Fayetteville State University, Fayetteville, NC
- **Michael Johnson, Ph.D.**, University of Arizona, Tucson, AZ
- **Alfredo Torres, Ph.D.**, University of Texas Medical Branch, Galveston, TX

5:00 p.m. - 6:00 p.m. 📍 BALLROOM D

SESSION 10

Networking in Your Scientific Discipline: Neuroscience

(Recommended all students)

FACILITATORS

- **Michael Burton, Ph.D.**, University of Texas at Dallas, Dallas, TX
- **Ramesh Raghupathi, Ph.D.**, Drexel University, Philadelphia, PA
- **Crystal Watkins, M.D., Ph.D.**, The Johns Hopkins University School of Medicine, Baltimore, MD

5:00 p.m. - 6:00 p.m. 📍 210 C

SESSION 11

Networking in Your Scientific Discipline: Physiology and Pharmacology

(Recommended all students)

FACILITATORS

- **TanYa Gwathmey-Williams, Ph.D.**, Wake Forest School of Medicine, Winston-Salem, NC
- **Amanda Marie James, Ph.D.**, Emory University, Atlanta, GA

5:00 p.m. - 6:00 p.m. 📍 BALLROOM E

SESSION 12

Networking in Your Scientific Discipline: Social and Behavioral Sciences and Public Health

(Recommended all students)

FACILITATORS

- **David Córdoba, Ph.D.**, University of Michigan, Ann Arbor, MI
- **Karen Singer-Freeman, Ph.D.**, University of North Carolina, Charlotte, Charlotte, NC

5:00 p.m. - 6:00 p.m. 📍 206 AB

SESSION 13

The GRE and Graduate Admissions: Are We Asking the Wrong Questions

(Recommended for faculty, program directors, and exhibitors)

SPEAKERS

- **Anthony DePass, Ph.D.**, Understanding Interventions/Long Island University, Long Island University, Brooklyn, NY
- **Daryl Chubin, Ph.D.**, Understanding Interventions/Independent Consultant, Savannah, GA

6:30 p.m. - 7:15 p.m.

📍 HALL A

Networking Dinner

7:15 p.m. - 8:30 p.m.

📍 HALL A

Conference Overview and Highlights

- **John Fitzgerald Gates, Ph.D.**, Purdue University, West Lafayette, IN

Chairperson Opening Remarks

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

Welcome Remarks

- **Jonathan Stevens-Garcia, M.P.H., M.B.A.**, Chief Operating Officer, American Society for Microbiology, Washington, DC
- **Alison Gammie, Ph.D.**, National Institute of General Medical Sciences, NIH, Bethesda, MD

PLENARY SCIENTIFIC SESSION

Opening Keynote Address — Power in Numbers: Unveiling Hidden Figures

- MODERATOR: **John Fitzgerald Gates, Ph.D.**, Purdue University, West Lafayette, IN
- SPEAKER: **Talithia Williams, Ph.D.**, Harvey Mudd College, Claremont, CA

8:45 p.m. - 9:30 p.m.

📍 204 AB

ABRCMS Travel Award Orientation

8:45 p.m. - 9:30 p.m.

📍 303 A-D

PREP Scholars Meet & Greet

(By Invitation Only)

Thursday, November 14

7:00 a.m. - 8:00 a.m.

📍 BALLROOM A-E

Breakfast/No Means No: Let Harassers and Bullies Know You're NOT a Target ★

(Recommended for all students)

SPEAKER

- **Sherry Marts**, S*Marts Consulting, Washington, DC

Concurrent Professional Development Sessions
(3 Session Options)

8:15 a.m. - 9:00 a.m.

SESSION 1

Mandatory Judge Meeting by Discipline

(For Oral and Poster Judges only)

- Biochemistry and Molecular Biology 📍 209 AB
- Cancer Biology 📍 204 C
- Cell Biology 📍 210 D
- Chemistry 📍 208 AB
- Computational and Systems Biology 📍 210 B
- Developmental Biology and Genetics 📍 210 A
- Engineering, Physics and Mathematics 📍 304 A
- Immunology 📍 304 B
- Microbiology 📍 202 AB
- Neuroscience 📍 206 AB
- Physiology and Pharmacology 📍 210 C
- Social and Behavioral Sciences and Public Health 📍 203 AB

8:15 a.m. - 9:00 a.m.

📍 BALLROOM A-E

SESSION 2

Orientation: How to Make the Best of a Scientific Meeting

(Mandatory for community college, undergraduate, and postbaccalaureate students)

SPEAKER

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

8:15 a.m. - 9:00 a.m.

📍 207 CD

SESSION 3

Unique NIH Funding Opportunities You Should Know

(Recommended for graduate students and postdoctoral scientists)

SPEAKERS

- **Ravi Basavappa, Ph.D.**, National Institutes of Health, Office of Strategic Coordination, Rockville, MD

- **Edgardo Falcón, Ph.D.**, National Institutes of Health, National Institute of General Medical Sciences, Bethesda, MD
- **Kenneth Gibbs, Ph.D.**, National Institutes of Health, National Institute of General Medical Sciences, Bethesda, MD
- **Michelle Jones-London, Ph.D.**, National Institutes of Health, National Institute of Neurological Disorders and Stroke, Bethesda, MD

Concurrent Scientific Sessions (12 Session Options)

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

📍 204 AB

SESSION 1

Utilizing Structural Biology to Combat Disease

Discipline: Biochemistry and Molecular Biology

SPEAKER

- **Celia Goulding, Ph.D.**, University of California, Irvine, CA

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

📍 208 AB

SESSION 2

Skin Cancer Disparities: More Than Just Skin-Deep

Discipline: Cancer Biology

SPEAKER

- **Masaoki Kawasumi, M.D., Ph.D.**, University of Washington, Seattle, WA

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

📍 209 AB

SESSION 3

The Role of Rhomboid Pseudoproteases in Protein Homeostasis

Discipline: Cell Biology

SPEAKER

- **Sonya Neal, Ph.D.**, University of California, San Diego, San Diego, CA

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

📍 206 AB

SESSION 4

Analytical Chemistry in Pharmaceutical Development

Discipline: Chemistry

SPEAKER

- **Jose Cintron, Ph.D.**, Eli Lilly & Company, Indianapolis, IN

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

📍 210 A

SESSION 5

Understanding Diseases with Computational and Systems Biology

Discipline: Computational and Systems Biology

SPEAKERS

- **Dana Crawford, Ph.D.**, Case Western Reserve University, Cleveland, OH
- **Olanrewaju Morenikeji, Ph.D.**, Rochester Institute of Technology, Rochester, NY

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

📍 204 C

SESSION 6

Understanding Phenotypic Variation: Lessons from Developmental Disorders

Discipline: Developmental Biology and Genetics

SPEAKER

- **Eliezer Calo, Ph.D.**, Massachusetts Institute of Technology, Cambridge, MA

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

📍 210 D

SESSION 7

Atomic-scale Imaging and Spectroscopy of Materials for Electrochemical Energy Conversion and Storage

Discipline: Engineering, Physics, and Math

SPEAKER

- **William J. Bowman, Ph.D.**, University of California, Irvine, Irvine, CA

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

📍 210 B

SESSION 8

Our Mysterious Immune System: Is There an On/Off Switch?

Discipline: Immunology

SPEAKERS

- **Hossam Ashour, Ph.D.**, University of South Florida St. Petersburg, St. Petersburg, FL
- **Hatem A. Elshabrawy, B.S. Pharm., Ph.D.**, Sam Houston State University, College of Osteopathic Medicine, Huntsville, TX



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

📍 203 AB

SESSION 9**The World's Smallest Hunter Taking Down the Deadliest Human Pathogens***Discipline: Microbiology***SPEAKERS**

- **Daniel Kadouri, Ph.D.**, Rutgers School of Dental Medicine, Newark, NJ
- **Henry Williams, Ph.D.**, Florida A&M University, Tallahassee, FL

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

📍 207 CD

SESSION 10**Staying Woke, Part 1: The Neurobiology of Sleep Disturbances in Autism***Discipline: Neuroscience***SPEAKER**

- **Lucia Peixoto, Ph.D.**, Washington State University, Pullman, WA

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

📍 210 C

SESSION 11**When Microengineering Meets Physiology: Thrombosis-on-Chip***Discipline: Physiology and Pharmacology***SPEAKER**

- **Monicah Otieno, Ph.D.**, Janssen Pharmaceuticals/Society of Toxicology, Reston, VA

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

📍 202 AB

SESSION 12**Sign of the Times: Time Based Methods for Measuring Vocabulary Knowledge***Discipline: Social and Behavioral Sciences and Public Health***SPEAKER**

- **Rihana Mason, Ph.D.**, Georgia State University, Atlanta, GA

Concurrent Professional Development Sessions

(8 Session Options)

10:00 a.m. - 11:15 a.m.

📍 210 A

SESSION 1**NIGMS Program Director Discussions (Track 1)***(Recommended for TWD program directors)*

Diversity-focused, primarily undergraduate programs with an emphasis on:

- Student Tracking
- Student Support (while in training programs and beyond)
- Student Research Training Activities
- Dissemination - Sharing of Training Approaches/Activities

10:00 a.m. - 11:15 a.m.

📍 210 B

SESSION 2**NIGMS Program Director Discussions (Track 2)***(Recommended for TWD program directors)*

Post-bac, Graduate and Postdoc topics focused on:

- Developing Achievable and - Measurable Training Objectives
- Employing Evidence-Based Practices for Training and Mentoring
- Teaching Rigor and Transparency as well as Responsible Conduct of Research Throughout
- Focusing on Trainee Skills Development
- Emphasizing that Diversity and Inclusion is Essential for Training Excellence
- Preparing Trainees for a Broad Range of Careers in the Biomedical Research Workforce

10:00 a.m. - 11:15 a.m.

📍 203 AB

SESSION 3**Creating An Online Toolkit for Supporting Nontraditional Student Success Succeed 2.0***(Recommended for all attendees)***SPEAKERS**

- **Morgan Hull, LLMSW**, University of Michigan, Ann Arbor, MI

- **Janice Reuben, B.A.**, University of Michigan, Ann Arbor, MI

10:00 a.m. - 11:15 a.m.

📍 204 AB

SESSION 4

M.D. - Ph.D., Is it Right for Me?

(Recommended for students interested in the M.D., Ph.D. track)

MODERATOR

- **Juanita L. Merchant, M.D., Ph.D.**, University of Arizona-Cancer Center, Tucson, AZ

PANELISTS

- **Lindsay Agostinelli, M.D., Ph.D. Student**, University of Iowa, Iowa City, IA
- **Daniel Akuma, M.D., Ph.D. Student**, University of Pennsylvania, Philadelphia, PA
- **Kerry O'Banion, M.D., Ph.D.**, University of Rochester, Rochester, NY
- **Javier Sierra Pagan, M.D., Ph.D. Student**, University of Minnesota, Minneapolis, MN
- **Briana Wilson, M.D., Ph.D. Student**, University of Virginia, Charlottesville, VA

10:00 a.m. - 11:15 a.m.

📍 207 CD

SESSION 5

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

10:00 a.m. - 11:15 a.m.

📍 206 AB

SESSION 6

Professional Development on a Busy Scientist's Schedule

(Recommended for graduate students and postdoctoral scientists)

SPEAKER

- **Yaihara Fortis Santiago, Ph.D.**, Memorial Sloan Kettering Cancer Center, New York City, NY

10:00 a.m. - 11:15 a.m.

📍 208 AB

SESSION 7

Tailoring Your Resume for Nontraditional STEM Careers

(Recommended for graduate students and postdoctoral scientists)

SPEAKER

- **Danielle Watt, Ph.D.**, University of Minnesota, Minneapolis, MN

10:00 a.m. - 11:15 a.m.

📍 209 AB

SESSION 8

NIGMS Grant Writing and the SCORE Program

(Recommended for faculty, program directors, and exhibitors)

SPEAKERS

- **Luis Cubano, Ph.D.**, National Institutes of Health, Bethesda, MD
- **Tracy Koretsky, Ph.D.**, National Institutes of Health, Bethesda, MD
- **Irina Krasnova, Ph.D.**, National Institutes of Health, Bethesda, MD
- **John Laffan, Ph.D.**, National Institutes of Health, Bethesda, MD
- **Lee Slice, Ph.D.**, National Institutes of Health, Bethesda, MD

Concurrent Scientific Sessions (8 Session Options)

11:30 a.m. - 12:00 p.m.

📍 204 AB

SESSION 1

Hydrogen Sulfide (H₂S) in Humans: Physiology, Biochemistry, and Relevance

Discipline: Biochemistry and Molecular Biology

SPEAKER

- **Juan López-Garriga, Ph.D.**, University of Puerto Rico, Mayagüez Campus, Mayagüez, Puerto Rico

11:30 a.m. - 12:00 p.m.

📍 203 AB

SESSION 2

How Do Cancer Cells Communicate with the Host

Discipline: Cancer Biology

SPEAKER

- **Renumathy Dhanasekaran, M.D.**, Stanford University, Stanford, CA

11:30 a.m. - 12:00 p.m.

📍 208 AB

SESSION 3**Listening to Enzymes Sing***Discipline: Chemistry***SPEAKER**

- **Gregory Weiss, Ph.D.**, University of California, Irvine, Irvine, CA

11:30 a.m. - 12:00 p.m.

📍 202 AB

SESSION 4**Understanding Genetic Variation: Three Cutting-Edge Research Studies in Diverse Populations***Discipline: Developmental Biology and Genetics***MODERATOR**

- **Debra Murray, Ph.D.**, Baylor College of Medicine, Houston, TX

SPEAKERS

- **Neil Hanchard, M.D., Ph.D.**, Baylor College of Medicine, Houston, TX
- **Cristina de Guzman Strong, Ph.D.**, Washington University School of Medicine, St. Louis, MO

11:30 a.m. - 12:00 p.m.

📍 206 AB

SESSION 5**Adapting an Evolutionary Model for Microbiota Studies: Diversity Matters***Discipline: Microbiology***SPEAKER**

- **Kat Milligan-Myhre, Ph.D.**, University of Alaska Anchorage, Anchorage, AK



11:30 a.m. - 12:00 p.m.

📍 207 CD

SESSION 6**Epigenetics: Pushing the Boundaries of Memory***Discipline: Neuroscience***SPEAKER**

- **Marcelo Wood, Ph.D.**, University of California, Irvine, Irvine, CA

11:30 a.m. - 12:00 p.m.

📍 204 C

SESSION 7**The Intelligent Bladder Urothelium: Not just a Passive Barrier***Discipline: Physiology and Pharmacology***SPEAKER**

- **Bahareh Vahabi, Ph.D.**, University of the West of England, Bristol, UK

11:30 a.m. - 12:00 p.m.

📍 209 AB

SESSION 8**Partnering with Communities to Improve Cardiovascular Health Equity***Discipline: Social and Behavioral Sciences and Public Health***SPEAKER**

- **Elizabeth Lynch, Ph.D.**, Rush University Medical Center, Chicago, IL

12:15 p.m. - 1:00 p.m.

📍 HALL A

Networking Lunch by Discipline

12:45 p.m. - 1:30 p.m.

📍 HALL A

PLENARY SCIENTIFIC SESSION**Hip Hop Stroke: An Investigator Initiated NIH-Funded Journey**

- **MODERATOR: John Fitzgerald Gates, Ph.D.**, Purdue University, West Lafayette, IN
- **SPEAKER: Olajide Williams, M.D., M.S.**, Columbia University Medical Center/New York Presbyterian Hospital, New York, NY

1:45 p.m. - 5:30 p.m.

📍 HALL B

Exhibit and Poster Hall Hours

2:00 p.m. - 3:15 p.m.

📍 HALL B

Poster Session 1 (A)

3:00 p.m. - 5:00 p.m. **HALL B (EXHIBIT HALL MENTORING TABLES)**

Mentoring Coaching

3:30 p.m. - 4:45 p.m. **HALL B**

Poster Session 2 (B)

5:30 p.m. - 6:45 p.m. **204 AB**

ORAL SESSION 1

Biochemistry and Molecular Biology

PRESENTERS

- *O-001: Megan Bacabac*
- *O-002: Mauricio Garcia*
- *O-003: Andrea Valenzuela*
- *O-004: Erica Rosario*
- *O-005: Catherine Hua*

5:30 p.m. - 6:45 p.m. **208 AB**

ORAL SESSION 1

Cancer Biology

PRESENTERS

- *O-006: Silva Baburyan*
- *O-007: Brandon Cuevas*
- *O-008: Shantae Lewis*
- *O-009: Marlisa Shaw*
- *O-010: Nada Terra*

5:30 p.m. - 6:45 p.m. **210 B**

ORAL SESSION 1

Cell Biology & Immunology

PRESENTERS

- *O-011: Vidal Bejar-Padilla*
- *O-012: Maria Ford*
- *O-013: Nicholle Lewis*
- *O-014: Jailene Paredes*
- *O-015: Natalie Pedicino*

5:30 p.m. - 6:45 p.m. **206 AB**

ORAL SESSION 1

Chemistry

PRESENTERS

- *O-016: Shayne Boykin*
- *O-017: Eduardo Chaparro*

- *O-018: Sahba Khorsandzadeh*

- *O-020: Dara Rodriguez-Ayala*

5:30 p.m. - 6:45 p.m. **210 A**

ORAL SESSION 1

Computational and Systems Biology

PRESENTERS

- *O-021: Lucas Encarnacion-Rivera*
- *O-022: Brandon Franco*
- *O-023: Ananya Gupta*
- *O-024: Breanna McBean*
- *O-025: Ardella Phoa*

5:30 p.m. - 6:45 p.m. **204 C**

ORAL SESSION 1

Developmental Biology and Genetics

PRESENTERS

- *O-026: Megan Ezeude*
- *O-027: Gervyn Fajardo Franco*
- *O-028: Zachary Perkins*
- *O-029: Phillip Pham*
- *O-030: Danae Sanders*

5:30 p.m. - 6:45 p.m. **210 D**

ORAL SESSION 1

Engineering, Physics, and Mathematics

PRESENTERS

- *O-031: Anthony Baker*
- *O-032: Jessica Gannon*
- *O-033: Nadou Lawson*
- *O-034: David Medina-Suarez*
- *O-035: Daniela Yakobashvili*

5:30 p.m. - 6:45 p.m. **203 AB**

ORAL SESSION 1

Microbiology

PRESENTERS

- *O-036: Bouchra Benthomari*
- *O-037: Madison Gowett*
- *O-038: December Lee*
- *O-039: Makeda Mills*
- *O-040: Ana Quintanar Alfaro*

5:30 p.m. - 6:45 p.m.

📍 207 CD

ORAL SESSION 1
Neuroscience

PRESENTERS

- O-041: Lindsay Altidor
- O-042: Mia Edgerton
- O-043: Synphane Gibbs
- O-044: Damaris Nieves Torres
- O-045: Marc Padilla

5:30 p.m. - 6:45 p.m.

📍 210 C

ORAL SESSION 1
Physiology and Pharmacology and Neuroscience

PRESENTERS

- O-046: Zarin Bhuiyan
- O-047: Anthony Bishay
- O-048: Monique Duffus
- O-049: Roland Lacap
- O-050: Alexandra Salazar

5:30 p.m. - 6:45 p.m.

📍 202 AB

ORAL SESSION 1
Social and Behavioral Sciences and Public Health

PRESENTERS

- O-051: Ahlam Ashkar
- O-052: Melissa Brewster
- O-053: Goretty Chavez
- O-054: Aida Murati
- O-055: Sirena St. Ours

5:30 p.m. - 6:45 p.m.

📍 209 AB

ORAL SESSION 1
Social and Behavioral Sciences and Public Health

PRESENTERS

- O-056: Kimberly Gardner
- O-057: Nyomi Hudson
- O-058: Alexa Michel
- O-059: Ervin Simmons
- O-060: Keyanna Taylor

7:00 p.m. - 7:45 p.m.

📍 HALL A

Networking Dinner by Discipline

8:00 p.m. - 9:45 p.m.

📍 201 A

PDO Steering Committee Meeting

(By Invitation Only)

8:00 p.m. - 10:00 p.m.

📍 BALLROOM A

Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences (Co-Sponsored by ASM and Genentech)

(Recommended for all students)

FEATURED SCIENTISTS/REPRESENTATIVES:

- **Keshia Ashe, Ph.D.**, ManyMentors, National Science Foundation (NSF) (Government/ Research)
- **Crystal Austin, Ph.D.**, University of Kansas Medical Center (Medicine/ Research)
- **Shereka Banton, Ph.D.**, Johnson & Johnson - Ethicon (Industry/ Pharmaceutical)
- **Nicquet Blake, Ph.D.**, University of Texas Health Science Center at San Antonio (Academia/ Professional School)
- **Dominique Carter, Ph.D.**, National Science Foundation (Government/ Science Policy)
- **Catherine Cascavita, B.S.**, Genentech (Industry/ Pharmaceutical)
- **Ruan Cox, Jr., Ph.D.**, Moffitt Cancer Center (Non-Profit/ Medical Research)
- **Dana Crawford**, Case Western Reserve University (Academia/Doctoral Degree-Granting)
- **Pedro DelValle**, Food and Drug Administration (Government/Research)
- **Galahad Deperalta, Ph.D.**, Genentech (Industry/Pharmaceutical)
- **Mareshia Donald, Ph.D.**, Novartis Institutes for BioMedical Research (NIBR) (Industry/ Pharmaceutical)
- **Ana Lucia Fuentes, Ph.D.**, LaGuardia Community College (Academia/ Community College)
- **L. Alex Gaither, Ph.D.**, Novartis Institutes for Biomedical Research (NIBR) (Industry/ Pharmaceutical)
- **Peter Gannett, Ph.D.**, Nova Southeastern University, College of Pharmacy (Academia/ Professional School)



- **Herbert Geller, Ph.D.**, National Heart, Lung, and Blood Institute (NIH) (Government/ Biomedical Engineering)
- **Kenneth Gibbs, Ph.D.**, National Institute of General Medical Sciences (NIGMS) (Government/ Education)
- **Aziza Glass, D.V.M.**, Personal Touch Veterinary Clinic, PLLC (Veterinary/ Professional School)
- **Vanessa Gonzalez-Perez, Ph.D.**, Princeton University (Academia/ Doctoral Degree-Granting)
- **Terri Grant, Ph.D.**, Old Dominion University (Academia/ Doctoral Degree-Granting)
- **Brittany Haynes**, National Institutes of Health/ National Center for Advancing Translational Sciences (Government/Policy)
- **Josh Henkin, Ph.D.**, The Tauri Group (Consulting/ Biotechnology)
- **Ronald Hunter, Ph.D.**, Mérieux Nutrisciences (Industry/ Biotechnology)
- **Amanda Marie James**, Emory University, (Academia/ Doctoral-Degree Granting)
- **L'Aurelle Johnson, Ph.D.**, University of Minnesota, College of Pharmacy (Academia/ Professional School)
- **Harlan Jones, Ph.D.**, Keystone Symposia (Non-Profit)
- **Maiysha Jones, Ph.D.**, Procter & Gamble (Industry/ Pharmaceutical)
- **Adrian Land, Ph.D.**, Procter & Gamble (Industry/ Biotechnology)
- **Sydney Lau, B.S.**, Genentech (Industry/ Pharmaceutical)
- **Janette Lawrence**, Massachusetts General Hospital (Medicine/Genetics)
- **Brittney Davis Lynn**, National Cancer Institute (NIH) (Government/Cancer Biology)
- **Fahmy Mamuya, Ph.D.**, Olympus Life Science (Industry/ Biotechnology)
- **Shannon Noonan, M.S.**, Genentech (Industry/Pharmaceutical)
- **Shantisa Norman, M.S.**, Sandia National Laboratories (Government/ Research)
- **Ofelia Olivero**, National Cancer Institute (NIH) (Government/Cancer Biology)
- **Sandra Oyewole, Ph.D.**, Trinity Washington University (Academia/ Medical School)
- **Carolina Pombo, Ph.D.**, AlphaBioCom (Science Writing/ Medical Writing)
- **Chloe Poston, Ph.D.**, Brown University (Academia/ Doctoral Degree-Granting)
- **Marquitta Qualls, Ph.D.**, Entropia Consulting (Consulting/ Pharmaceutical)
- **Danjuma Quarless**, Abbvie Inc. (Industry/ Pharmaceutical)
- **Dinelia Rivera-Burgos, Ph.D.**, Battelle (Industry/ Biotechnology)
- **Delira Robbins, Ph.D.**, University of Tennessee Research Foundation (Academia/ Technology Transfer)
- **Cheryl Rowe-Rendleman, Ph.D.**, Omar Consulting Group, LLC (Consulting/ Pharmaceutical)
- **Jillian Silva, Ph.D.**, Helen Diller Family Comprehensive Cancer Center (Academia/ Research)
- **Tori Strong, Ph.D.**, Vyripharm Biopharmaceuticals (Industry/ Commercialization)
- **Angela Sy, Ph.D.**, University of Hawaii (Academia/ Doctoral Degree-Granting)
- **Kristen Walker, M.S.**, USDA (Government/ Research)
- **Iris Wagstaff, Ph.D.**, American Association for the Advancement of Science (AAAS) (Non-Profit/ Non-Profit Education)
- **Adrienne Williams, B.S.**, Genentech (Industry/ Pharmaceutical)
- **Kevin Villalongo, M.B.A.**, Scapa Healthcare (Biomed Laboratories) (Industry/ Biotechnology)
- **Patrice Yarbough, Ph.D.**, NASA (Government/ Research)

8:00 p.m. - 10:00 p.m.

📍 303 A-D

Master's Level Poster Session/Graduate Students and Postdoctoral Scientists Dessert and Networking Mixer

(For graduate students and postdoctoral scientists)

Friday, November 15

7:00 a.m. - 7:45 a.m.

📍 BALLROOM A-E

Networking Breakfast**Concurrent Professional Development Sessions**

(8 Session Options)

8:00 a.m. - 9:15 a.m.

📍 204 AB

SESSION 1**Translating STEM Education into Successful Careers: A Path to Meaningful Scientific Contributions***(Recommended for undergraduate and postbaccalaureate students)***SPEAKERS**

- **Ronald Hunter, Ph.D.**, *Mérieux Nutrisciences, Chicago, IL*
- **Dinelia Rivera-Burgos, Ph.D.**, *Battelle, Columbus, OH*
- **Kevin Villalongo, M.B.A., PMP**, *Scapa HealthCare, Dallas, TX*

8:00 a.m. - 9:15 a.m.

📍 204 C

SESSION 2**1,2,3...Go! Key Phases to Graduate School Application, Admittance and Success***(Recommended for community college, undergraduate, and postbaccalaureate students)***SPEAKERS**

- **Ailton Coleman, Ph.D.**, *James Madison University, Harrisonburg, VA*
- **Fadie Coleman, Ph.D.**, *Boston University, Boston, MA*
- **M. Isabel Dominguez, Ph.D.**, *Boston University, Boston, MA*
- **Jacqueline Milton Hicks, Ph.D.**, *Boston University, Boston, MA*
- **Tyrone Porter, Ph.D.**, *Boston University, Boston, MA*
- **Chloe Poston, Ph.D.**, *Brown University, Providence, RI*
- **Ruth Washington, Ph.D.**, *Kent State University, Kent, OH*

8:00 a.m. - 9:15 a.m.

📍 207 CD

SESSION 3**Creating a Useful Individual Development Plan***(Recommended for postbaccalaureate and graduate students)***SPEAKER**

- **Bill Lindstaedt, M.S.**, *University of California, San Francisco, San Francisco, CA*

8:00 a.m. - 9:15 a.m.

📍 203 AB

SESSION 4**The How and Why of Publishing Your Work: Practical Advice for Graduate Students and Postdocs***(Recommended for graduate students and postdoctoral scientists)***SPEAKER**

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

8:00 a.m. - 9:15 a.m.

📍 208 AB

SESSION 5**Diverse Minds are Required to Invent the Future – An Inclusive Model Program for Learning from Nature for Societal Benefit***(Recommended for faculty, program directors, and exhibitors)***SPEAKER**

- **Robert Full, Ph.D.**, *University of California, Berkeley, Berkeley, CA*

8:00 a.m. - 9:15 a.m.

📍 209 AB

SESSION 6**How We Learn...and How We Don't***(Recommended for postdoctoral scientists, faculty, program directors, and exhibitors)***SPEAKER**

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

8:00 a.m. - 9:15 a.m.

📍 202 AB

SESSION 7**Funding for Graduate Students and Postdocs: Beyond NIH***(Recommended for graduate students and postdoctoral scientists)***SPEAKERS**

- **Phoebe Lostroh, Ph.D.**, *Colorado College, Colorado Springs, CO*

- **Victoria McGovern, Ph.D.**, Burroughs Wellcome Fund, Research Triangle Park, NC

8:00 a.m. - 9:15 a.m.

📍 206 AB

SESSION 8

Diversity and Inclusion 2020: Opportunities, Lesson Learned and Strategies for Success

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

SPEAKERS

- **Gary A. Smith**, Ivy Planning Group, Bethesda, MD
- **Janet Crenshaw Smith**, Ivy Planning Group, Bethesda, MD

Concurrent Scientific Sessions

(11 Session Options)

9:30 a.m. - 10:00 a.m.

📍 204 AB

SESSION 1

Am I Potent?: Biological Activity Determination of Drugs Using Cell Based Assays

Discipline: Biochemistry and Molecular Biology

SPEAKERS

- **Jeanner Helmreich, Ph.D.**, Eli Lilly and Company, Indianapolis, IN
- **Krishna Moody, Ph.D.**, Eli Lilly and Company, Indianapolis, IN

9:30 a.m. - 10:00 a.m.

📍 208 AB

SESSION 2

Trim the Fat: The Role of Lipids in Cancer Development

Discipline: Cancer Biology

SPEAKER

- **Glenn Simmons, Jr., Ph.D.**, University of Minnesota Medical School, Minneapolis, MN

9:30 a.m. - 10:00 a.m.

📍 209 AB

SESSION 3

NAD+ Metabolism during Aging: Insight from Quantitative Flux Analysis

Discipline: Cell Biology

SPEAKER

- **Melanie McReynolds, Ph.D.**, Princeton University, Princeton, NJ

9:30 a.m. - 10:00 a.m.

📍 206 AB

SESSION 4

Twists and Turns Along the Path of Reactivity-driven Methods Development

Discipline: Chemistry

SPEAKER

- **Hosea Nelson, Ph.D.**, University of California, Los Angeles, Los Angeles, CA

9:30 a.m. - 10:00 a.m.

📍 210 A

SESSION 5

Functional Cancer Cell Maps

Discipline: Computational and Systems Biology

SPEAKER

- **Jason Kreisberg, Ph.D.**, University of California, San Diego, San Diego, CA

9:30 a.m. - 10:00 a.m.

📍 204 C

SESSION 6

The Perils of Underrepresentation: What Research Tells Us About the Future of Broad-based Genetic Testing

Discipline: Developmental Biology and Genetics

SPEAKER

- **Latrice Landry, M.S., Ph.D.**, Harvard Medical School and Harvard School of Public Health, Boston, MA

9:30 a.m. - 10:00 a.m.

📍 210 B

SESSION 7

Obesity, Immunity, and Impact on CAR T-cell Immunotherapy

Discipline: Immunology

SPEAKER

- **Curtis Henry, Ph.D.**, Emory University, School of Medicine, Atlanta, GA

9:30 a.m. - 10:00 a.m.

📍 203 AB

SESSION 8

Diversity-generating Retroelements and the Accelerated Evolution of Adaptive Traits

Discipline: Microbiology

SPEAKER

- **Jeffrey Miller, Ph.D.**, University of California, Los Angeles, Los Angeles, CA

9:30 a.m. - 10:00 a.m.

📍 207 CD

SESSION 9**A Lot of Nerve! Evolutionary Mechanisms of Neural Regeneration***Discipline: Neuroscience***SPEAKERS**

- **Wendy Beane, Ph.D.**, Western Michigan University, Kalamazoo, MI
- **Kelly Ai-Sun Tseng, Ph.D.**, University of Nevada, Las Vegas, Las Vegas, NV

9:30 a.m. - 10:00 a.m.

📍 210 C

SESSION 10**Integrating Genomics and Epigenomics for the Identification of Novel Cancer Therapeutics***Discipline: Physiology and Pharmacology***SPEAKER**

- **Claudia Benavente, Ph.D.**, University of California, Irvine, Irvine, CA

9:30 a.m. - 10:00 a.m.

📍 202 AB

SESSION 11**Flexibility of Implicit Bias***Discipline: Social and Behavioral Sciences and Public Health***SPEAKER**

- **Yi (Jenny) Xiao, Ph.D.**, University of Washington, Tacoma, Tacoma, WA

10:15 a.m. - 12:00 p.m.

📍 HALL B

Exhibit and Poster Hall Hours

10:30 a.m. - 11:30 a.m. 📍 HALL B (EXHIBIT HALL MENTORING TABLES)

Mentoring Coaching

10:30 a.m. - 11:45 a.m.

📍 HALL B

Poster Session 3 (C)

12:15 p.m. - 1:00 p.m.

📍 HALL A

Networking Lunch by Discipline

1:00 p.m. - 1:45 p.m.

📍 HALL A

PLENARY SCIENTIFIC SESSION**The Impact of Heterogeneity in Cancer Genome Science**

- **MODERATOR: John Fitzgerald Gates, Ph.D.**
Purdue University, West Lafayette, IN

- **SPEAKER: John D. Carpten, Ph.D.**, University of Southern California, Los Angeles, CA

Concurrent Professional Development Sessions
(8 Session Options)

2:00 p.m. - 3:00 p.m.

📍 206 AB

SESSION 1**The Art of Scientific Storytelling: The What, When, and How of Communicating Your Scientific Story***(Recommended for undergraduate, postbaccalaureate, and graduate students)***SPEAKERS**

- **Isola Brown, Ph.D.**, University of Michigan, Ann Arbor, MI
- **Ruan Cox, Ph.D.**, Moffitt Cancer Center, Tampa, FL
- **Maiysha Jones, Ph.D.**, Procter & Gamble, Cincinnati, OH

2:00 p.m. - 3:00 p.m.

📍 204 AB

SESSION 2**Time Management and Goal Setting***(Recommended all students)***SPEAKER**

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

2:00 p.m. - 3:00 p.m.

📍 207 CD

SESSION 3**Difficult Discussions and Gendered Communication in the Workplace***(Recommended for faculty, program directors, and exhibitors)***SPEAKER**

- **Joanne Kamens, Ph.D.**, Addgene, Boston, MA

2:00 p.m. - 3:00 p.m.

📍 209 AB

SESSION 4**Postdoc Fundamentals: Selecting a Training Experience to Match Your Career Goal***(Recommended for graduate students and postdoctoral scientists)***SPEAKERS**

- **Sibby Anderson-Thompkins, Ph.D.**, University of North Carolina at Chapel Hill, Chapel Hill, NC

- **Alberto Roca, Ph.D.**, *DiverseScholar, Orange County, CA*

2:00 p.m. - 3:00 p.m.

📍 203 AB

SESSION 5

International Collaborative Research: An Important Supplement to Academic and Professional Training

(Recommended for faculty, program directors, and exhibitors)

SPEAKERS

- **Deisy Arrington, Ph.D. Candidate**, *University of Illinois at Chicago/University of Bordeaux, Chicago, IL*
- **Sepo Hachigonta, Ph.D.**, *National Research Foundation, South Africa, Chicago, IL*
- **Lucy Okumu, M.A.**, *King Abdullah University of Science and Technology, Saudi Arabia, Chicago, IL*
- **Denise Yates, M.A.**, *University of Illinois at Chicago/ LSAMP NSF International Center of Excellence, Chicago, IL*

2:00 p.m. - 3:00 p.m.

📍 208 AB

SESSION 6

Building Leadership Skills as Young Scientist

(Recommended for graduate students and postdoctoral scientists)

SPEAKERS

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

2:00 p.m. - 3:00 p.m.

📍 210 D

SESSION 7

The Role of Societies in Increasing Diversity and Inclusion in Science

(Recommended for faculty)

SPEAKERS

- **Amy Chang**, *American Society for Microbiology, Washington, DC*
- **Phoebe Lostron, Ph.D.**, *Colorado College, Colorado Springs, CO*

2:00 p.m. - 3:00 p.m.

📍 202 AB

SESSION 8

Young, STEM and Diverse — Success Strategies for the Next Generation of STEM Leaders

(Recommended for all students)

SPEAKERS

- **Janet Crenshaw Smith**, *Ivy Planning Group, Bethesda, MD*
- **Gary A. Smith**, *Ivy Planning Group, Bethesda, MD*

2:00 p.m. - 3:30 p.m.

📍 204 C

TWD-PDO Meeting

(Recommended for NIGMS Program Directors)

3:00 p.m. - 6:00 p.m.

📍 HALL B

Exhibit and Poster Hall Hours

3:15 p.m. - 4:30 p.m.

📍 HALL B

Poster Session 4 (D)

3:45 p.m. - 4:30 p.m.

📍 HALL B (EXHIBIT HALL THEATER)

Mentoring Showcase: "Students Utilizing Mentoring as a Personal Developmental Strategy"

4:30 p.m. - 5:30 p.m.

📍 HALL B (EXHIBIT HALL MENTORING TABLES)

Mentoring Coaching

4:45 p.m. - 6:00 p.m.

📍 HALL B

Poster Session 5 (E)

Concurrent Professional Development Sessions

(8 Session Options)

6:15 p.m. - 7:15 p.m.

📍 206 AB

SESSION 1

Cultivating Your Scientific Swag

(Recommended for community college, undergraduate, and postbaccalaureate students)

SPEAKERS

- **Patrice L. Capers, Ph.D., M.S.C.R.**, *The Citadel, Charleston, SC*
- **Tabitha M. Hardy, Ph.D.**, *Indiana University Purdue University Indianapolis, Indianapolis, IN*

6:15 p.m. - 7:15 p.m.

📍 204 C

SESSION 2**Tips for Getting Strong Letters of Recommendation***(Recommended for community college and nontraditional students)***SPEAKER**

- **Laura Kasman, Ph.D.**, Medical University of South Carolina, Charleston, SC

6:15 p.m. - 7:15 p.m.

📍 208 AB

SESSION 3**M.D. - Ph.D. Career Paths: Conversations with Physician Scientists***(Recommended for undergraduate and postbaccalaureate students)***SPEAKERS**

- **Myles Akabas, M.D., Ph.D.**, Albert Einstein College of Medicine of Yeshiva University, Bronx, NY
- **Lawrence Brass, M.D., Ph.D.**, University of Pennsylvania, Philadelphia, PA
- **Megan Williams, Ph.D.**, Vanderbilt University, Nashville, TN

6:15 p.m. - 7:15 p.m.

📍 204 AB

SESSION 4**Post Baccalaureate Programs, Tips for Submitting a Successful Application, and Advice on Taking a Gap Year***(Recommended for students considering postbaccalaureate training or taking a GAP year)***SPEAKERS**

- **Tameka Clemons, Ph.D.**, Spelman College, Atlanta, GA
- **Sharon Milgram, Ph.D.**, National Institutes of Health, Bethesda, MD
- **Kimberly Williams, Ph.D.**, Spelman College, Atlanta, GA

6:15 p.m. - 7:15 p.m.

📍 207 CD

SESSION 5**Strategies for Taking Standardized Admissions Tests: Preparing for the MCAT Exams***(Recommended for undergraduate and postbaccalaureate students)***SPEAKER**

- **Sandra Oyewole, Ph.D.**, Trinity University, Washington, DC

6:15 p.m. - 7:15 p.m.

📍 209 AB

SESSION 6**Should I Take the GRE Exam? If so, How Can I Best Prepare?***(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.

📍 203 AB

SESSION 7**Job Search Strategies and Negotiating the Job Offer***(Recommended for graduate students and postdoctoral scientists)***SPEAKER**

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

6:30 p.m. - 9:30 p.m.

📍 202 AB

SESSION 8**Infectious Disease Outbreaks and the Vaccination Dilemma***(Recommended for undergraduate and postbaccalaureate students)***MODERATORS**

- **Nancy Calderon, M.P.H.**, University of California, Los Angeles, Los Angeles, CA
- **Lourdes E. Echegoyen, Ph.D.**, University of California, Los Angeles, Los Angeles, CA

SPEAKER

- **Mario Barro, Ph.D.**, FluNXT/Sanofi Pasteur, Cambridge, MA

6:30 p.m. - 8:00 p.m.

📍 HILTON ANAHEIM (SUNSET DECK)

Speakers, Exhibitors, Judges, and Program Directors Networking Social

8:00 p.m. - 9:00 p.m.

📍 303 AB

LGBTQ+ Networking Social & Tips on Succeeding as a Scientist

8:00 p.m. - 9:00 p.m. 📍 304 C

MAPRS Program Director Meeting

(By Invitation Only)

9:00 p.m. - 10:00 p.m. 📍 201 A

PREP Program Director Meeting

(By Invitation Only)

Saturday, November 16

7:00 a.m. - 7:45 a.m. 📍 BALLROOM A-E

Networking Breakfast

8:00 a.m. - 9:15 a.m. 📍 204 AB

ORAL SESSION 2

Biochemistry and Molecular Biology

PRESENTERS

- O-061: Hana Flores
- O-062: Elisabeth Kan
- O-063: Samar Behdin
- O-064: Gabriela Matos-Ortiz
- O-065: Ridhi Chaudhary

8:00 a.m. - 9:15 a.m. 📍 208 AB

ORAL SESSION 2

Biochemistry and Molecular Biology & Computational and Systems Biology

PRESENTERS

- O-066: Cynthia Sabazali
- O-067: Jaliyah Spann
- O-068: Gabriel Meléndez
- O-069: Megan Darrell
- O-070: Gerson Kroiz

8:00 a.m. - 9:15 a.m. 📍 209 AB

ORAL SESSION 2

Cancer Biology

PRESENTERS

- O-071: Jade Dodge
- O-072: Malcolm Frazier
- O-073: Shiva Deljookorani
- O-074: Besmira Alija
- O-075: Nicole Muniz

8:00 a.m. - 9:15 a.m. 📍 206 AB

ORAL SESSION 2

Cancer Biology and Immunology

PRESENTERS

- O-076: Anniya Davis
- O-077: Ismael Bouso
- O-078: Sabina Kubayeva
- O-079: Alexandra McLennan
- O-080: Antonio Fontanella

8:00 a.m. - 9:15 a.m. 📍 210 A

ORAL SESSION 2

Cell Biology and Developmental Biology and Genetics

PRESENTERS

- O-081: Margaret Mungai
- O-082: Oluomachi Onyekwere
- O-083: Iyuaana Morris
- O-084: Quintera Knight
- O-085: Colin Kuhns

8:00 a.m. - 9:15 a.m. 📍 204 C

ORAL SESSION 2

Developmental Biology and Genetics and Neuroscience

PRESENTERS

- O-087: Jasmine Cunningham
- O-088: Nzia Hall
- O-089: Shaheer Rizwan
- O-090: Karina Herrera

8:00 a.m. - 9:15 a.m. 📍 210 D

ORAL SESSION 2

Engineering, Physics, and Mathematics

PRESENTERS

- O-091: Leroy Arthur
- O-092: Alexandra Tchir
- O-093: Kayleigh Johnson
- O-094: Isaac Nathoo
- O-095: Roshawn Mitchell-Cleveland

8:00 a.m. - 9:15 a.m.

📍 210 B

ORAL SESSION 2**Chemistry and Engineering, Physics and Mathematics**

PRESENTERS

- O-096: Imani Ross
- O-097: Taylor Dyson
- O-098: Lauren Moore
- O-099: Manuel Quinones-Perez
- O-100: Ayman Abdullah-Smoot

8:00 a.m. - 9:15 a.m.

📍 203 AB

ORAL SESSION 2**Cell Biology and Microbiology**

PRESENTERS

- O-101: Hai Pham
- O-102: Areli Jannes Javier
- O-103: Simone Lee
- O-104: Cole Calderon
- O-105: Kathleen Navas

8:00 a.m. - 9:15 a.m.

📍 207 CD

ORAL SESSION 2**Neuroscience**

PRESENTERS

- O-106: Marcus Phan
- O-107: Samsara Upadhyaya
- O-108: Antony Alvarado
- O-109: Ryan Tung
- O-110: Priscilla Louis

8:00 a.m. - 9:15 a.m.

📍 210 C

ORAL SESSION 2**Social and Behavioral Sciences and Public Health**

PRESENTERS

- O-111: Megan Maxwell
- O-112: Kailande Cassamajor
- O-113: Kayla Albin
- O-114: Briana Nemieboka
- O-115: Kailyn Price

8:00 a.m. - 9:15 a.m.

📍 202 AB

ORAL SESSION 2**Physiology and Pharmacology and Social and Behavioral Sciences and Public Health**

PRESENTERS

- O-116: Olufolake Majekodunmi
- O-117: Alexia Guzman
- O-118: Bryce Sakata
- O-119: Karen Munoz
- O-120: Helena Getachew

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

📍 201 A

Exhibitor Focus Group*(By Invitation Only)*

9:15 a.m. - 12:00 p.m.

📍 HALL B

Exhibit and Poster Hall Hours

9:30 a.m. - 11:30 a.m.

📍 HALL B (EXHIBIT HALL MENTORING TABLES)

Mentoring Coaching

10:00 a.m. - 11:15 a.m.

📍 HALL B

Poster Session 6 (F)

11:00 a.m. - 11:20 a.m.

📍 HALL B (EXHIBIT HALL THEATER)

EXHIBITOR SHOWCASE**Information about our Ph.D. and M.D./Ph.D. Programs and Offer Tips for a Top Application**

INSTITUTION

- *St. Jude Children's Research Hospital Graduate School of Biomedical Sciences*

SPEAKER

- *Racquel Collins, MT(ASCP), M.B.A., Ph.D., Assistant Dean, St. Jude Children's Research Hospital Graduate School of Biomedical Sciences*

11:30 a.m. - 11:50 a.m.

📍 HALL B (EXHIBIT HALL THEATER)

EXHIBITOR SHOWCASE**Laney Graduate School at Emory University: Striving for Excellence and Diversity**

INSTITUTION

- *Emory University, Laney Graduate School*

SPEAKER

- **Amanda Marie James, Ph.D.**, Assistant Dean, Diversity, Inclusion, & Community Engagement, James T. Laney School of Graduate Studies at Emory University; Faculty, Department of Biology, College of Arts and Sciences at Emory University

12:15 p.m. - 1:00 p.m. 📍 HALL A
Networking Lunch

1:00 p.m. - 2:00 p.m. 📍 HALL A

CLOSING KEYNOTE ADDRESS
An Afternoon with Soledad O'Brien: Her Life Stories

MODERATOR

- **John Fitzgerald Gates, Ph.D.**, Purdue University, West Lafayette, IN

SPEAKER

- **Soledad O'Brien**, Award-Winning Journalist, Entrepreneur & Host of the Weekly Syndicated Political Show "Matter of Fact with Soledad O'Brien"

Concurrent Scientific Sessions
 (6 Session Options)

2:15 p.m. - 2:45 p.m. 📍 204 AB

SESSION 1
The Social Lives of Mitochondria: Inter-organelle Membrane Contacts as Signaling Platforms

Discipline: Biochemistry and Molecular Biology

SPEAKER

- **Samantha Lewis, Ph.D.**, University of California, Davis, Davis, CA

2:15 p.m. - 2:45 p.m. 📍 202 AB

SESSION 2
Metastasis: The Unbeatable Beast?

Discipline: Cancer Biology

SPEAKER

- **Diana Cittelly, Ph.D.**, University of Colorado, Anschutz Medical Campus, Aurora, CO

2:15 p.m. - 2:45 p.m. 📍 207 CD

SESSION 3
Genetic and Behavioral Interrogation of Pain Neural Circuits

Discipline: Cell Biology

SPEAKER

- **Ishmail Abdus-Saboor, Ph.D.**, University of Pennsylvania, Philadelphia, PA

2:15 p.m. - 2:45 p.m. 📍 204 C

SESSION 4
Deconvoluting Disease Biomarkers with Computational Biology Tools

Discipline: Computational and Systems Biology

SPEAKERS

- **Andre Hudson, Ph.D.**, Rochester Institute of Technology, Rochester, NY
- **Felix Rivera-Mariani, Ph.D.**, Larkin University, Miami, FL

2:15 p.m. - 2:45 p.m. 📍 203 AB

SESSION 5
Catching Anxiety: The Impact of HSV-1 on Animal Behavior

Discipline: Neuroscience

SPEAKER

- **Gerald Griffin, Ph.D.**, Hope College, Holland, MI

2:15 p.m. - 2:45 p.m. 📍 206 AB

SESSION 6
Staying Woke, Part 2: The Neurobiology of Normal Sleep and Arousal

Discipline:

SPEAKER

- **Chicora Oliver, Ph.D.**, Emory University, Atlanta, GA



Concurrent Professional Development Sessions

(6 Session Options)

3:00 p.m. - 4:30 p.m.

📍 207 CD

SESSION 1

The Future of STEM Mentoring

(Recommended for faculty, program directors, and exhibitors)

SPEAKERS

- **Joi Mondisa, Ph.D.**, University of Michigan, Ann Arbor, MI
- **Beronda Montgomery, Ph.D.**, Michigan State University, East Lansing, MI

3:00 p.m. - 4:30 p.m.

📍 203 AB

SESSION 2

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

3:00 p.m. - 4:30 p.m.

📍 204 AB

SESSION 3

Overcoming Imposture Syndrome and Stereotype Threat

(Recommended for all attendees)

SPEAKER

- **Alden Landry, M.D., M.P.H.**, Harvard Medical School, Boston, MA

3:00 p.m. - 4:30 p.m.

📍 206 AB

SESSION 4

The Biology of Patents

(Recommended for community college, undergraduate, and postbaccalaureate students)

SPEAKERS

- **Bryan Husk, M.A.**, University of Wisconsin-Madison, Madison, WI
- **Christopher M. Turoski, J.D.**, University of Minnesota, Minneapolis, MN

3:00 p.m. - 4:30 p.m.

📍 202 AB

SESSION 5

Mental Health and Wellness in STEM

(Recommended for graduate students and postdoctoral scientists)

SPEAKERS

- **D'Anne Duncan, Ph.D.**, University of California, San Francisco, San Francisco, CA
- **Christina Keeton, Ph.D.**, Vanderbilt University, Nashville, TN
- **Anne Sufka**, University of California, San Francisco, San Francisco, CA

3:00 p.m. - 4:30 p.m.

📍 204 C

SESSION 6

I'm Surviving (Happily) My Career in Science—You Can Too! Ten Commandments of Work/Life Negotiation

(Recommended for undergraduate and postbaccalaureate students)

SPEAKERS

- **Sarah Fankhauser, Ph.D.**, Oxford College of Emory University, Oxford, GA
- **Joanne Kamens, Ph.D.**, Addgene, Boston, MA

4:30 p.m. - 7:30 p.m.

FREE TIME

4:45 p.m. - 6:15 p.m.

📍 201 A

REMNet Development Meeting

7:30 p.m. - 10:00 p.m.

📍 HALL A

Awards Banquet and Ceremony

CONFERENCE WRAP-UP AND STUDENT PRESENTATION AWARDS CEREMONY

- **John Fitzgerald Gates, Ph.D.**, Purdue University, West Lafayette, IN

CONCLUDING REMARKS FROM CHAIRPERSON

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

10:30 p.m. - 2:00 a.m.

📍 HILTON ANAHEIM (CALIFORNIA BALLROOM)

Closing Social and Dance

SAVE THE DATE



ABRCMS 2020

SAN ANTONIO, TEXAS

NOVEMBER 11-14, 2020

Poster Presentations by Scientific Listing

Community College, Undergraduate, and Postbaccalaureate Poster Presentations

Sessions A–F

- B** Biochemistry and Molecular Biology: 001-050
- CA** Cancer Biology: 051-088
- CB** Cell Biology: 089-112
- CH** Chemistry: 113-140
- CO** Computational and Systems Biology: 141-157
- D** Developmental Biology and Genetics: 158-185
- E** Engineering, Physics, and Mathematics: 186-215
- IM** Immunology: 216-235
- M** Microbiology: 236-278
- N** Neuroscience: 279-328
- P** Physiology and Pharmacology: 329-355
- S** Social and Behavioral Sciences and Public Health: 356-393



Master's Student Poster Presentations

Sessions M

- B** Biochemistry and Molecular Biology: 001-050
- CA** Cancer Biology: 051-088
- CB** Cell Biology: 089-112
- CH** Chemistry: 113-140
- CO** Computational and Systems Biology: 141-157
- D** Developmental Biology and Genetics: 158-185
- E** Engineering, Physics, and Mathematics: 186-215
- IM** Immunology: 216-235
- M** Microbiology: 236-278
- N** Neuroscience: 279-328
- P** Physiology and Pharmacology: 329-355
- S** Social and Behavioral Sciences and Public Health: 356-393



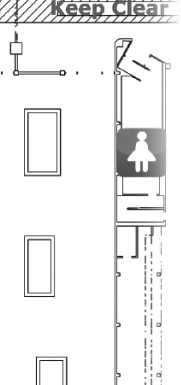
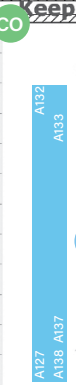
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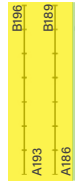
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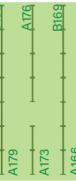
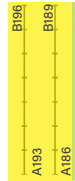
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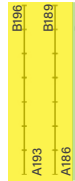
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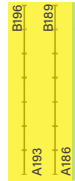
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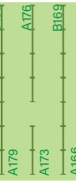
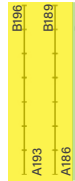
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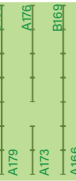
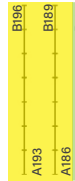
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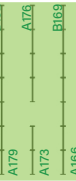
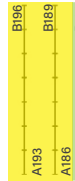
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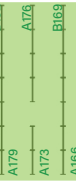
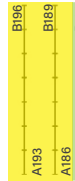
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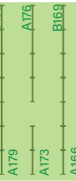
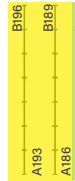
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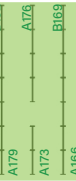
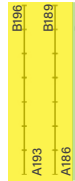
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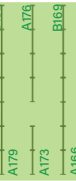
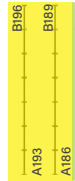
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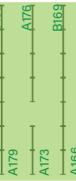
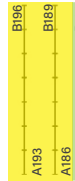
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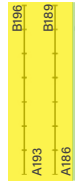
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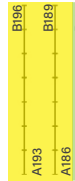
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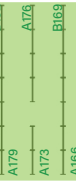
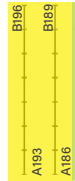
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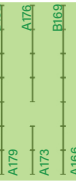
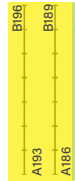
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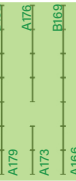
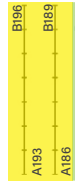
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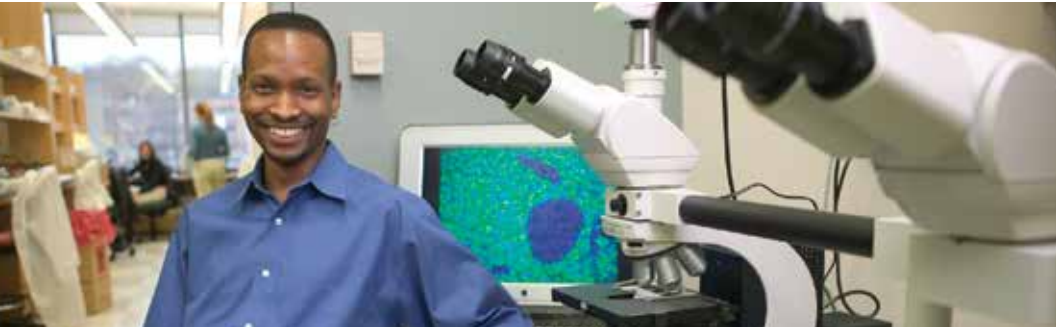
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A011 B008 A036
A016 B013 B038
A021 B018 B043
A026 B023 B048
A028 A051 B053
A029 A056 B058
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ABRCMS 2019

ANAHEIM, CALIFORNIA

NOVEMBER 13-16, 2019

EXHIBIT HALL PASSPORT

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.

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BOOTH 334	BOOTH 501	BOOTH 421	BOOTH 701
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BOOTH 249	BOOTH 630		

Drop off completed form at the Exhibit Hall Theater
by 10:00 a.m., Saturday, November 16.

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 16 to be eligible for the drawing.
- Winners will be posted on Saturday, November 16 at 11:00 a.m. at the Exhibit Hall Theater.
- You do not need to be present to win.

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You could win one of the following prizes:

- \$75 Visa Gift Card
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Exhibit Hours

- Thursday, November 14:
1:45 p.m. – 5:30 p.m.
- Friday, November 15:
10:15 a.m. – 12:00 p.m.
3:00 p.m. – 6:00 p.m.
- Saturday, November 16:
9:15 a.m. – 12:00 p.m.



Exhibitor Listing

Alabama College of Osteopathic Medicine	334	Arizona State University, School of Molecular Sciences	583
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American Association for Anatomy	446	Association of American Medical Colleges	476
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American Association of Physicists in Medicine	767	Augusta University – The Graduate School	439
American Chemical Society	715	Battelle	805
American Physical Therapy Association	641	Baylor College of Medicine	506
American Physiological Society	442	Baylor University Graduate School	323
American Society for Biochemistry and Molecular Biology	505	Binghamton University, State University of New York	355
American Society for Cell Biology (ASCB)	668	Biophysical Society	748
American Society for Investigative Pathology (ASIP)	447	Boise State University Biomolecular Sciences Graduate Programs	772
American Society for Pharmacology & Experimental Therapeutics	448	Boston University	527
American Society of Hematology	472	Boston University Biological and Environmental Sciences	529
American Society of Human Genetics	648	Boston University Graduate Medical Sciences	526
American University of the Caribbean	914	Boston University School of Public Health	531



I really value the opportunity help students learn more about graduate school and other opportunities. The opportunity to hear such from such amazing and thought provoking speakers is unsurpassed.”

Boston University, Bioinformatics Program	528	City College of New York, CUNY	906
Boston University – Graduate Neuroscience	530	Clemson University – Department of Bioengineering	477
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The ability to inspire and assist these young students in their science careers. A great opportunity to encourage our young people of color in these science fields.”

Integrated Life Sciences – University of Georgia	540	Marshall University – Office of Research and Graduate Education	473
Interdisciplinary Graduate Program in Genetics at Texas A&M University	674	Mayo Clinic College of Medicine and Science	203
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University of Arkansas for Medical Sciences	584	University of Georgia – PREP	544
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Attending the conference allowed me to gain a whole new experience of communicating my research to new people and to network with others there to learn about more valuable research opportunities.”

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ABRCMS allows students to connect with other students from similar backgrounds that are equally as passionate about science and research, which provides substantial motivation to continue pursuing a career in STEM."

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University of South Florida	515	University of Washington – School of Public Health	455
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ABRCMS Project Lead, Plenary Sessions, Partnerships & Affiliated Events

IRENE HULEDE

ihulede@asmusa.org

Concurrent Scientific & Professional Development Sessions

TIFFANI FONSECA

tfonseca@asmusa.org

Student Presentations, Studies and Travel Award Program

LEAH DIXON

ldixon@asmusa.org

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CHRISTOPHER SKIPWITH

cskipwith@asmusa.org

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