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#ABRCMS

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Facebook: facebook.com/abrcms

Instagram: instagram.com/abrcms

Twitter: twitter.com/abrcms
Networking Meals

Network with your discipline during lunch on Thursday and Friday. Discipline tables identified by colors. See table below:

- Chemistry, Biochemistry, Engineering, Physics & Mathematics (Black)
- Microbiology & Immunology (Red)
- Neuroscience, Physiology, Developmental Biology (White)
- Cell Biology, Molecular Biology & Computational Biology, Cancer Biology (Blue)
- Social and Behavioral Sciences and Public Health (Green)
Welcome
from Avery August

On behalf of the Annual Biomedical Research Conference for Minority Students (ABRCMS), I would like to extend a hearty welcome to Tampa, Florida, and the 2016 meeting. This our 16th year organizing and hosting this conference, and this year has been one of transitions - transitions to new leadership, and to a new funding model. However, I am excited for the future of ABRCMS and extremely proud that ABRCMS continues to set major records.

The theme of our meeting this year, “Diverse Voices, Diverse Science: A Future of Excellence in STEM Research”, represents 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 role 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 attending, and we want it to be one of many in the future. We strive to inspire students 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 can we hope to make strides and advances in issues such as health disparities and personalized medicine that have huge impacts in our communities. Addressing these and other challenges 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 students playing prominent roles, will accomplish this.

With this in mind, we have assembled an outstanding program that will inspire, challenge, and educate. For the students attending, this is an opportunity to show your preparation and training. Step up to the plate, it’s your turn! Take advantage of the feast we have prepared for you. For the faculty mentors and advisors, your students are here to shine, and we all encourage and support you in ensuring they make the best of the meeting. For the presenters, we look forward to your exciting science and inspiring words, and for the exhibitors, we look forward to your hearty conversations with students. I encourage you all to network with peers; hear the most cutting edge advances in the biomedical and behavioral sciences, and participate in discussions of some of the most important issues facing minority students as well as professionals in our community.

All that 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. They have invested their time and efforts planning the scientific program, reading and reviewing abstracts, planning and preparing the location to host your visit, preparing materials, setting up booths, and making sure that everything is just right, so that you can experience what I am sure will be one of the most rewarding meetings of your careers. I would like to thank them all in advance for their hard work in 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 possible.

With my warmest wishes,

Avery August, Ph.D.
Chairperson, ABRCMS
Greetings from NIH

On behalf of the National Institutes of Health’s National Institute of General Medical Sciences, we’d like to welcome you to the 2016 Annual Biomedical Research Conference for Minority Students. We’re very proud to support this meeting, which brings together a community of outstanding students and scientists for stimulating discussions of research, careers, and more.

This meeting is one element of our many activities in the areas of training, workforce development, and diversity. Our programs range from the undergraduate level to the doctorate and beyond, and they include the Maximizing Access to Research Careers, Research Initiative for Scientific Enhancement, Initiative for Maximizing Student Development, and Postbaccalaureate Research Education programs. Many of you at this meeting are current or former program participants. Our programs also include institutional and faculty development through the Native American Research Centers for Health, the Support of Competitive Research Programs, as well as the Building Infrastructure Leading to Diversity initiative. Additionally, the National Institutes of Health supports the National Research Mentoring Network to enhance the training and career development of individuals from diverse backgrounds who are pursuing biomedical research careers.

For those of you who are attending as mentors and sponsors, we truly appreciate your dedication and many contributions to your students and our shared goals.

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

We encourage you to make the most of the meeting and take every advantage of the resources and opportunities it offers to help you prepare for the next stages of your research career. We look forward to seeing your presentations and talking to you over the course of the next few days.

Sincerely,

Jon R. Lorsch, Ph.D.
Director
National Institute of General Medical Sciences
National Institutes of Health

Alison Gammie, Ph.D.
Director
Division of Training, Workforce Development, and Diversity
National Institute of General Medical Sciences
National Institutes of Health
ABRCMS 2016 Plenary Speakers

**Wednesday, November 9, 2016**

8:00 p.m. – 8:30 p.m.
*Innovations in Research and Discovery While Increasing Diversity*
Juan E. Gilbert, Ph.D.
Professor, University of Florida

**Thursday, November 10, 2016**

10:45 a.m. – 11:45 a.m.
*Where Will a Ph.D Take You?*
Stefano Bertuzzi, Ph.D., M.P.H.
CEO, American Society for Microbiology

**Friday, November 11, 2016**

8:00 a.m. – 9:00 a.m.
*An Update on the NIH- Lacks Family Panel*
Jeri-Lacks- Whye,
Granddaughter of Henrietta Lacks
David Lacks, Jr., grandson of Henrietta Lacks
Dina Paltoo, Ph.D, M.P.H.,
Office of Science Policy, NIH

**Saturday, November 12, 2016**

12:45 p.m. – 1:45 p.m.
*Regenerative Engineering: the Future of Tissue Regeneration*
Cato T. Laurencin, M.D., Ph.D.
Professor, University of Connecticut

1:15 p.m. – 2:15 p.m.
*The Other Wes Moore*
Wes Moore
New York Times Best-Selling Author and CEO of BridgeEdU
Friday, November 11 • 9:15 a.m. – 10:15 a.m.

Using Natural Materials to Address Challenges in Biomedical Research
Norma A. Alcantar, Ph.D.
Professor, University of South Florida

How Cells Use Chemistry and Physics to Break the Bones that Power Their Movement
Enrique M. De La Cruz, Ph.D.
Professor, Yale University

Second Messenger-Dependent Processes in Cyanobacteria: Implications for Biotechnology and Optogenetics
Beronda Montgomery, Ph.D.
Professor, Michigan State University

If Electronic Cigarettes (E-Cigs) are Your Pleasure, Beware of Adverse Neurobiological Changes: A Case Study in Mice
(Sponsored by the Society of Toxicology)
Judith Zelikoff, Ph.D.
Professor, NYU School of Medicine

HeLa Cells and the Future of Biomedical Science
(Sponsored by the American Association for the Advancement of Science)
Erez Aiden, Ph.D.
Assistant Professor, Baylor College of Medicine

Andrew Adey, Ph.D.
Assistant Professor, Oregon Health & Science University

Epidemiologic Studies of Alzheimer’s Disease in African Americans
Lisa Barnes, Ph.D.
Rush University Medical Center

The Future of Interdisciplinary Neuroscience Research: New Directions and Challenges
(Sponsored by MIT Center for Brains, Minds and Machines)
Carmen Varela, Ph.D.
Research Scientist, Massachusetts Institute of Technology

Julian Jara-Ettinger, Ph.D.
Postdoctoral fellow, Massachusetts Institute of Technology

The “Real” Martians: STEMid in HERA
Patrice O. Yarbough, Ph.D.
Senior Scientist, KBRwyle

LaShelle Spencer, MS
Scientist, Craig Technologies

Takiyah Sirmons, Ph.D.
Research Scientist, Leidos

Superbugs in Sewage: Anti Microbial Resistance in the Environment
(Presented by the American Society for Microbiology)
Valerie Harwood, Ph.D.
Professor, University of South Florida

Building a Successful Program of Cancer Health Disparities Research: It takes a Village
(Sponsored by Moffitt Cancer Center and Research Institute)
Clement K. Gwede, Ph.D., M.P.H., R.N.
Associate Member, Moffitt Cancer Center & Research Institute
Wednesday, November 9, 2016

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

Professional Development Session

2:00 p.m. – 2:45 p.m.
Graduate Student Life: Perspectives of Graduate Students
(Recommended for undergraduate, community college, postbac, masters students)
Moderator
Nicquet Blake, Ph.D., University of Texas Health Science Center, San Antonio
Location: Conv. Ctr Rm 24 & 25

2:00 p.m. – 6:00 p.m.
Professional Development Session

Do You Play Fair? A Workshop about Bias in Academia
(Recommended for graduate students, postdoctoral scientists, faculty, program directors, and exhibitors)

Speakers
Christine Pribbenow, Ph.D., University of Wisconsin—Madison, Madison, WI
Percy Brown, Ph.D., University of Wisconsin—Madison, Madison, WI
Location: Conv. Ctr Rm 10

2:00 p.m. – 4:30 p.m.
Concurrent Professional Development Session
(2 session options)

Session 1
Entering Mentoring: Research Mentor Training for Faculty Working with Undergraduates
(Recommended for faculty)
Speakers
Kelly Diggs-Andrews, Ph.D., American Society for Microbiology, Washington, DC
Harlan Jones, Ph.D., University of North Texas Health Science Center, Fort Worth, TX
Sonia Zarate, Ph.D., University of San Diego, San Diego CA
Location: Conv. Ctr Rm 5 & 6

Session 2
Imagining and Defining the Grant that will fund your Postdoc
(Recommended for graduate students and postdoctoral scientists)
Speaker
Victoria McGovern, Ph.D., Burroughs Wellcome Fund, Research Triangle Park, NC
Location: Conv. Ctr Rm 11
3:00 p.m. – 8:00 p.m.
Exhibit Setup

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

Session 1

Presentation Techniques: How to Make Effective Poster and Oral Presentations

Speaker
Shelley Payne, Ph.D., University of Texas at Austin, Austin, TX
Location: Conv. Ctr Ballroom A

Session 2

Building Your Brand Starts NOW
(Recommended for all attendees)

Speaker
Marquita M. Qualls, Ph.D., Entropia Consulting, Nashville, TN
Location: Conv. Ctr Rm 20 & 21

4:15 p.m. – 4:45 p.m.
Professional Development Session

Session 1

Wrap It Up! How To Present Your Work in 5 Minutes or Less
(Recommended for all presenters)

Speaker
Sherri-Gae Scott, Ph.D., FASEB, Bethesda, MD
Location: Conv. Ctr Ballroom A

Session 2

State of the ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program
(Recommended for faculty and program administrators)

Speakers
Lubna Abu-Niaaj, Ph.D., Central State University Wilberforce, OH
Kelly Diggs-Andrews, Ph.D., American Society for Microbiology
Olga Steinberg-Neifach, Ph.D., Hostos Community College, CUNY, Bronx, NY
Location: Embassy Suites- Skyway 2

Session 3

Bringing Mentees and Mentors Together in a National Mentoring Network
(Recommended for all attendees)

Speaker
Jamboor Vishwanatha, Ph.D., University of North Texas Health Science Center, Fort Worth, TX
Location: Embassy Suites- Skyway 1

6:30 p.m. – 7:30 p.m.
Dinner
Location: Conv. Ctr West Hall

7:30 p.m. – 8:00 p.m.
Conference Overview

John Fitzgerald Gates, Ph.D., University of Virginia, Charlottesville, VA
Opening Remarks
Avery August, Ph.D., Cornell University College of Veterinary Medicine, Ithaca, NY

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

8:00 p.m. – 8:30 p.m.
Opening Keynote Address
Innovations in Research and Discovery While Increasing Diversity
Speaker
Juan E. Gilbert, Ph.D., University of Florida, Gainesville, FL
Location: Conv. Ctr West Hall

8:30 p.m. – 9:30 p.m.
PREP Scholars Meeting (By Invitation Only)
Location: Embassy Suites- Skyway 2

Thursday, November 10, 2016

7:30 a.m. – 7:00 p.m.
Registration Open

7:00 a.m. – 7:45 a.m.
Microbial Sciences Student and Postdoc Meet and Greet Breakfast with ASM Leadership (By Invitation)
(Sponsored by the American Society for Microbiology)
Location: Embassy Suites- Bayside Ballroom 1 & 2

8:00 a.m. – 12:00 p.m.
Exhibit Setup

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

Session 1
Orientation for Community College, Undergraduates, and Postbaccalaureate Students
(Mandatory for community college, undergraduates, and postbaccalaureate students)
Location: Conv. Ctr Ballroom B&C

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

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

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

Session 2
Judges Meeting (Specific Disciplines below)
(Mandatory for all student presentation judges)
- Biochemistry & Chemistry
  Location: Conv. Ctr 18 & 19
- Cell & Developmental Biology
  Location: Conv. Ctr Rm 15 & 16
- Social and Behavioral Sciences, Public Health & Physiology
Location: Conv. Ctr Rm 20 & 21
- Engineering, Physics & Mathematics, Cancer Biology
Location: Conv. Ctr Rm 24 & 25
- Immunology & Microbiology
Location: Conv. Ctr Rm 13 & 14
- Molecular & Computational Biology, Neuroscience
Location: Conv. Ctr Rm 22 & 23
Session 3

**Enhancing Professional Skills for Scientists: Beyond the Bench**
(Recommended for graduate students, postdoctoral scientists, and junior faculty)

**Speaker**
Emily Harms, Ph.D., Rockefeller University, New York, NY

9:15 a.m. – 10:30 a.m.
Concurrent Professional Development Sessions
(6 session options)

Session 1

**Picking the Perfect Ph.D. Program for You/Why Choose a School with a T32**
(Recommended for undergraduates interested in the Ph.D. track)

**Speakers**
Sharon Milgram, Ph.D., Office of Intramural Training & Education, NIH, Bethesda, MD
Additional Speakers To Be Determined

Location: Conv. Ctr Rm 22 & 23

Session 2

**M.D.-Ph.D. – Is It Right for Me?**
(Recommended for undergraduates interested in the M.D.-Ph.D. track)

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

Location: Conv. Ctr Rm 24 & 25

Session 3

**Graduate Opportunities in Public and Global Health Research**
(Recommended for undergraduate juniors and seniors)

**Speaker**
Prasad Kuduvalli, Ph.D., American Society for Microbiology

Location: Conv. Ctr Rm 15 & 16

Session 4

**Community College Students: Tips for Transitioning to a Four-Year Institution**
(Mandatory for community college students)

**Speaker**
Nidhi Gadura, Ph.D., Queensborough Community College, CUNY, Bayside, NY

Location: Conv. Ctr Rm 20 & 21

Session 5

**NIH Grants Management Workshop**
(Recommended for program directors and faculty)

**Speakers**
Lori Burge, B.S., National Institute of General Medical Sciences, Bethesda, MD
Justin Rosenzweig, M.P.A., National Institute of General Medical Sciences, Bethesda, MD
Susan South, M.P.A., MSW, National Institute of General Medical Sciences, Bethesda, MD

Location: Conv. Ctr Rm 13 & 14

Session 6

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

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

Location: Conv. Ctr Rm 18 & 19

10:45 a.m. – 11:45 a.m.
PLENARY SESSION

**Where Will a Ph.D. Take You?**
(Recommended for all students)

**Speaker**
Stefano Bertuzzi, Ph.D., M.P.H., American Society for Microbiology, Washington, DC

Location: Conv. Ctr Ballroom B & C
How We Learn ... and How We Don’t  
(Recommended for all non students)  
**Speaker**  
Robert A. Duke, Ph.D., University of Texas at Austin,  
Austin, TX  
**Location:** Conv. Ctr Ballroom A  
**12:00 p.m. – 12:45 p.m.**  
**Networking Lunch**  
**Location:** Conv. Ctr West Hall  

**12:45 p.m. – 1:45 p.m.**  
**PLENARY SESSION**  
Regenerative Engineering: The Future of Tissue Regeneration  
**Speaker**  
Cato T. Laurencin, M.D., Ph.D., UConn Health,  
Farmington, CT  
**Location:** Conv. Ctr West Hall  

**1:45 p.m. – 5:30 p.m.**  
**Exhibits Open**  

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

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

**5:30 p.m. – 6:45 p.m.**  
**Oral Presentation Sessions (Specific Disciplines below)**  
- Biochemistry **Location:** Conv. Ctr Rm 13  
- Biochemistry & Chemistry  
  **Location:** Conv. Ctr Rm 14  
- Chemistry **Location:** Conv. Ctr Rm 15  
- Neuroscience **Location:** Conv. Ctr Rm 16  
- Physiology **Location:** Conv. Ctr Rm 18  
- Social/Behavioral Sciences & Public Health  
  **Location:** Conv. Ctr Rm 19 & 20  
- Cell Biology **Location:** Conv. Ctr Rm 21  
- Engineering, Physics & Mathematics  
  **Location:** Conv. Ctr Rm 22 & 23  
- Microbiology **Location:** Conv. Ctr Rm 24 & 25  
(See presenter listing on page 19-26)  

**7:00 p.m. – 7:45 p.m.**  
**Dinner**  
**Location:** Conv. Ctr West Hall  

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

**Session 1**  
Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences — Conversations with Scientists  
(Recommended for undergraduate, postbaccalaureate, and graduate students)  
**Moderator**  
Maisha Jones, Ph.D., Procter & Gamble  
**Location:** Embassy Suites — Bayside Ballroom 1 & 2  

**Session 2**  
**NIGMS Program Director Discussions**  
- PREP Programs **Location:** Conv. Ctr Rm 15  
- IMSD Programs **Location:** Conv. Ctr Rm 21  
- T32 Programs **Location:** Conv. Ctr Rm 16  
- RISE Programs **Location:** Conv. Ctr Rm 18  
- Bridges Programs **Location:** Conv. Ctr Rm 25  
- IRA CDA Programs **Location:** Conv. Ctr Rm 24  
- MARC Programs **Location:** Conv. Ctr Rm 19  
- F30/F31 Programs **Location:** Conv. Ctr Rm 20  
- BUILD/NRMN/CEC Programs  
  **Location:** Conv. Ctr Rm 22  

**Session 3**  
Job Search Strategies: Effective Interviewing Skills, and Negotiating the Job Offer  
(Recommended for senior graduate students, postdoctoral scientists, and junior faculty)  
**Speaker**  
Andrew Green Ph.D, University of California,  
Berkeley, CA  
**Location:** Embassy Suites — Skyway 1
Session 4

High-Caliber Research at Non Research Institutions: Models of Effective Undergraduate Research Programs
(Recommended for faculty and program administrators)

Speakers
Alvin Holder, Ph.D., Old Dominion University, Norfolk VA
Patrick Martin, Ph.D., North Carolina A&T State University, Greensboro, NC.
Location: Embassy Suites – Skyway 2

Friday, November 11, 2016

7:00 a.m. – 8:00 a.m.
TWD-PDO Steering Committee Meeting (By Invitation Only)
*Breakfast will not be provided
Location: Conv. Ctr Rm 11

7:00 a.m. – 7:45 a.m.
Microbial Sciences Faculty Meet and Greet Breakfast with ASM Leadership (By Invitation)
(Sponsored by the American Society for Microbiology)
Location: Embassy Suites – Skyway 1

7:30 a.m. – 5:00 p.m.
Registration Open

8:00 a.m. – 9:00 a.m.
PLENARY SESSION

An Update on the NIH-Lacks Family Partnership
Speakers
Jeri Lacks-Whye, granddaughter of Henrietta Lacks
David Lacks, Jr., grandson of Henrietta Lacks
Dina Paltoo, Ph.D., M.P.H., Office of Science Policy, NIH, Bethesda, MD
Location: Conv. Ctr Ballroom B & C

9:15 a.m. – 10:15 a.m.
Concurrent Scientific Sessions (10 session options)
Session 5

Second Messenger-Dependent Processes in Cyanobacteria: Implications for Biotechnology and Optogenetics

Speaker
Beronda Montgomery, Ph.D., Michigan State University, East Lansing, MI
Location: Conv. Ctr Rm 18 & 19

Session 6

Using Natural Materials to Address Challenges in Biomedical Research

Speaker
Norma A. Alcantar, Ph.D., University of South Florida, Tampa, FL
Location: Conv. Ctr Rm 15 & 16

Session 7

The “Real” Martians: STEMid in HERA

Speakers
Patrice Yarbough, Ph.D., Universities Space Research Association, Houston, TX
Takiyah Sirmons, Ph.D., Johnson Space Center, Houston, TX
LaShell Spencer, M.S., Kennedy Space Center, Merritt Island, FL
Location: Conv. Ctr Rm 5 & 6

Session 8

Superbugs in Sewage: Antimicrobial Resistance in the Environment

(Sponsored by the American Society for Microbiology)
Speaker
Valerie Harwood, Ph.D., University of South Florida, Tampa, FL
Location: Conv. Ctr Ballroom D

Session 9

Building a Successful Program of Cancer Health Disparities Research: It takes a Village

(Sponsored by the Moffitt Cancer Center and Research Institute)
Speaker
Clement K. Gwede, Ph.D., M.P.H., R.N., Moffitt Cancer Center and Research Institute, Tampa, FL
Location: Conv. Ctr Rm 24 & 25

Session 10

Epidemiologic Studies of Alzheimer's Disease in African Americans

Speaker
Lisa Barnes, Ph.D., Rush University Medical Center, Chicago, IL

10:15 a.m. – 12:00 p.m.
Exhibits Open
Location: Conv. Ctr East & Central Hall

10:30 a.m. – 11:45 a.m.
POSTER SESSION 3 (C)
Location: Conv. Ctr East & Central Hall

12:00 p.m. – 12:45 p.m.
Networking Lunch
Location: Conv. Ctr West Exhibit Hall

12:45 p.m. – 1:45 p.m.
PLENARY SESSION
Small World Health Protection: Risks and Resilience
(Presented by the American Society for Microbiology)
Speaker
Julie Gerberding, M.D., M.P.H., Merck, Kenilworth, NJ
Location: Conv. Ctr West Hall

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

Session 1

Effective Personal Statement for Getting into Highly Competitive Graduate Schools and Summer Programs
(Recommended for undergraduate, postbaccalaureate, and master's students)
Speakers
Joel Oppenheim, Ph.D., New York University, New York, NY
Victoria Freedman, Ph.D., Albert Einstein University, New York, NY
Location: Conv. Ctr Ballroom A
Session 2
Tell Your Science as a Story
(Recommended for all attendees)
Speakers
Geoff Hunt, Ph.D., American Society for Biochemistry and Molecular Biology, Rockville, MD
Rajendrani Mukhopadhyay, Ph.D., American Society for Biochemistry and Molecular Biology, Rockville, MD
Location: Conv. Ctr Rm 20 & 21

Session 3
Navigating Mentoring Relationships: Discovering Essential Skills for Mentees
(Recommended for undergraduates, postbaccalaureates, graduates, and postdoctoral scientists)
Speakers
Steve Lee, Ph.D., University of California-Davis, Davis, CA
Sherilynn Black, Ph.D., Duke University, Durham, NC
Terrance Mayes, Ed.D., Stanford University School of Medicine, Stanford, CA
Michael L. Penn, Jr., M.D., Ph.D., Gladstone Institutes, San Francisco, CA
Location: Conv. Ctr 22 & 23

Session 4
Goal Setting and Time Management
(Recommended for all attendees)
Speaker
Sandra Murray, Ph.D., University of Pittsburgh, Pittsburgh, PA
Location: Conv. Ctr Rm 24 & 25

Session 5
Small World Initiative™: Building Scientists One Class at a Time
(Recommended for faculty)
Speaker
Mary Miller, Ed.D., M.S., Baton Rouge Community College, Baton Rouge, LA
Location: Conv. Ctr Rm 18 & 19

Session 6
TWD-PDO Meeting (organized by NIGMS Program Director Association)
Moderator
Barry Komisaruk, Ph.D., Rutgers University, Newark, NJ
Location: Conv. Ctr Ballroom D

Session 7
Leveraging Wikipedia to Improve Science Communication Skills
(Recommended for graduate students, postdoctoral scientists, and faculty)
Speakers
Katherine Lontok, Ph.D., American Society for Microbiology, Washington, DC
Julie Wolf, Ph.D., American Society for Microbiology, Washington, DC
Location: Conv. Ctr Rm 15 & 16

3:00 p.m. – 6:00 p.m.
Exhibits Open
Location: Conv. Ctr East & Central Hall

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

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

6:15 p.m. – 7:15 p.m.
Concurrent Professional Development Sessions
(5 session options)

Session 1
Confessions of Admission Officials: What We Look at, and for, in Graduate School Applications
(Recommended for undergraduate and master’s-level students)
Speakers
Gustavo Arrizabalaga, Ph.D., Indiana University, Indianapolis, IN
Robert Binder, Ph.D., University of Pittsburgh, Pittsburgh, PA
Colleen Gabauer, Ph.D., Purdue University, West Lafayette, IN
Tara Hobson-Prater, M.A., Indiana University, Indianapolis, IN

Location: Conv. Ctr Rm 20 & 21

Session 2

Financing Your Graduate Education
(Recommended for undergraduate and master’s-level students)
Speakers:
Keisha John, Ph.D., University of Virginia, Charlottesville, VA

Location: Conv. Ctr Rm 22 & 23

Session 3

Strategies for Taking Standardized Admissions Tests: Preparing for the GRE and MCAT Exams
(Recommended for undergraduate and postbaccalaureate students)
Speakers:
Gayle Slaughter, Ph.D., Baylor School of Medicine, Houston, TX
Saundra Oyewole, Ph.D., Trinity University, Washington, DC

Location: Conv. Ctr Rm 24 & 25

Session 4

Tips for Applying to a Postbaccalaureate Program
(Recommended for students considering postbaccalaureate training)
Speakers:
Sharon L. Milgram, Ph.D., Office of Intramural Training & Education, NIH, Bethesda, MD
Additional Speaker To Be Determined

Location: Conv. Ctr Rm 18 & 19

Session 5

Being a Proactive Mentee: Taking Control of Your Research Experience
(Recommended for undergraduate, postbaccalaureate, and graduate students)
Speakers:
Giovanna Guerrero-Medina, Ph.D., Yale University, New Haven, CT
Marco Bonnette-Matiz, M.Sc., Yale University, New Haven, CT

Location: Conv. Ctr Rm 15 & 16

Session 6

Postdoc Fundamentals: Selecting a Training Experience to Match Your Career Goals
(Recommended for graduate students and postdoctoral scientists)
Speakers:
Sibby Anderson-Thompkins, Ph.D., University of North Carolina at Chapel Hill, Chapel Hill, NC
Edward Krug, Ph.D., Medical University of South Carolina, Charleston, SC

Location: Conv. Ctr Rm 13 & 14

6:30 p.m. – 8:30 p.m.
Reception for Speakers, Exhibitors, Judges and Program Directors
Location: Tampa Marriott Waterside, Florida Ballroom

7:30 p.m. – 8:30 p.m.
GlaxoSmithKline Mixer
(Sponsored by GlaxoSmithKline)
Location: Embassy Suites – Bayside Ballroom 1

7:30 p.m. – 8:30 p.m.
Graduate Students and Postdoctoral Scientist Networking Mixer
Location: Embassy Suites – Skyway Ballroom 1 & 2

7:30 p.m. – 8:30 p.m.
LGBTQ Mixer
Location: Embassy Suites – Bayside Ballroom 2
Saturday, November 12, 2016

7:30 a.m. – 1:00 p.m.
Registration Open

8:00 a.m. – 9:15 a.m.
Oral Presentation Sessions
(See disciplines below)
Neuroscience Location: Conv. Ctr Rm 13 & 14
Social/Behavioral Sciences & Public Health
Location: Conv. Ctr 15 & 16
Developmental & Biology Genetics
Location: Conv. Ctr 18
Cell & Developmental Biology
Location: Conv. Ctr Rm 19
Molecular & Cancer Biology
Location: Conv. Ctr Rm 20
Microbiology & Immunology
Location Conv. Ctr Rm 21 & 24
Chemistry
Location: Conv. Ctr Rm 22
Engineering, Physics & Mathematics
Location: Conv. Ctr Rm 23
Microbiology
Location: Conv. Ctr Rm 25
(See presenter listing on page 19-26)

9:15 a.m. – 12:15 p.m.
Exhibit Hall Open
Location: Conv. Ctr East & Central Hall

9:30 a.m. – 10:45 a.m.
Poster Session 6 (F)

11:00 a.m. – 12:15 p.m.
Poster Session 7 (G)

1:00 p.m. – 4:00 p.m.
Exhibit Takedown

1:15 p.m. – 2:15 p.m.
Closing Keynote Address
The Other Wes Moore
Speaker
Wes Moore, M.S., New York Times Best Selling Author
Location: Conv. Ctr. West Exhibit Hall

2:30 p.m. – 4:00 p.m.
Concurrent Professional Development Sessions
(3 session options)

Session 1
ABRCMS Professional Skills Cafe
(Recommended for undergraduate students, graduate students, and postdoctoral scientists)
Topics include:
• Community College Student Resources
• Finishing Your Dissertation
• How to be Successful in a Summer Internship Program
• Your Individual Development Plan
• LinkedIn for Networking
• Networking
• Picking Your Thesis Lab
• Resume or CV
• Studying Tips for Tests (MCAT & GRE)
• Balancing Our Academic and Personal Lives
• Writing Teaching Statements
• Interviewing for M.D/Ph.D Programs
• Finding Mentors and Being Mentored Effectively
Session Moderator
Beronda Montgomery, Ph.D., Michigan State University, East Lansing, MI
Location: Embassy Suites – Bayside Ballroom 1 & 2

Session 2
Implementing Do You Play Fair? A Workshop About Bias in Academia
(Recommended for faculty, program directors, and exhibitors)
Speakers
Christine Pribbenow, Ph.D., University of Wisconsin–Madison, Madison, WI
Molly Carnes, M.D., M.S., University of Wisconsin School of Medicine and Public Health, Madison, WI
Location: Conv. Ctr Rm 10
Session 3

**ABRCMS Wikipedia Year of Science Edit-a-thon**  
(Recommended for all attendees)  
**Speakers**  
Katherine Lontok, Ph.D., American Society for Microbiology, Washington, DC  
Julie Wolf, Ph.D., American Society for Microbiology, Washington, DC  
**Location:** Conv. Ctr Rm 19  
3:00 p.m. – 4:30 p.m.  
**ASM-LINK Debriefing**

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

**Session 2**

**Blogging, Tweeting, & Writing to Promote Your Career and Diversify Science**  
(Recommended for all attendees)  
**Speakers**  
Danielle Lee, Ph.D.  
Stephani Page, Ph.D., University of North Carolina at Chapel Hill, Chapel Hill, NC  
**Location:** Conv. Ctr Rm 21  
5:30 p.m. – 7:30 p.m.  
**FREE TIME! FREE TIME! FREE TIME!**

7:30 p.m. – 10:00 p.m.  
**Banquet and Awards Ceremony**  
**Conference Wrap-up**  
John Fitzgerald Gates, Ph.D., University of Virginia, Charlottesville, VA  
**Student Presentation Awards Ceremony**  
**Concluding Remarks**  
Avery August, Ph.D., Cornell University College of Veterinary Medicine, Ithaca, NY  
**Location:** Conv. Ctr. West Exhibit Hall  
10:00 p.m. – 2:00 a.m.  
**Closing Social Invite and Dance (All Are Invited)**  
**Location:** Tampa Marriott Waterside Hotel & Marina

**Session 1**

**Surviving, Striving, and Thriving, in Your Postdoc and Beyond!**  
(Recommended for graduate students and postdoctoral scientists)  
**Speakers**  
Claudia Aguado Loi, Ph.D., University of South Florida, Tampa, FL  
Olukemi Akintewe, Ph.D., Boston University Medical Center, Boston, MA  
**Location:** Conv. Ctr Rm 20
<table>
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<tr>
<td>Social and Behavioral Sciences &amp; Public Health</td>
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</table>
Oral Session 1: Biochemistry  RM 13
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-001
Investigating the Secondary Structure of Non-canonical DNA Implicated in Cancer
Deondre Jordan, Swarthmore College
Discipline: Biochemistry: Biochemistry

O-002
Mechanism of Bacterial Toxin’s Entry to Mammalian Cells
María T. Morales, University of Puerto Rico at Cayey
Discipline: Biochemistry: Biomolecules

O-004
Exploring the Metabolome of a Yeast Model for Parkinson’s Disease
Keitaris J. Goldston, Claflin University
Discipline: Biochemistry: Metabolism

O-005
Probing Intramolecular Interactions in the HIV-1 5′-Leader Dimeric Conformation
Hannah Carter, University of Maryland: Baltimore County
Discipline: Biochemistry: Structural Biology

Oral Session 1: Biochemistry and Chemistry  RM 14
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-006
The Role of Specific tRNAs in Regulating Matrix and Plasma Membrane Binding for Initiation of HIV-1 Virion Assembly
Amalia Rivera Oven, University of Maryland: Baltimore County
Discipline: Biochemistry: Structural Biology

O-007
The m6A RNA Methylation Reader YTHDF2 is Regulated by m6A Methylation of Its Own Transcript
Cary Mundell, University of North Carolina at Pembroke
Discipline: Biochemistry: Structural Biology

O-008
Explosively Sweet
Robert C. Neblett, II, Howard University
Discipline: Chemistry: Analytical Chemistry

O-009
Active-State CB1 Receptor Model Used as a Synthetic Cannabinoid Probe
Maria Muhammad, Tougaloo College
Discipline: Chemistry: Analytical Chemistry

O-010
Ultrasensitive Protein Detection in Single Breast Cancer Cells
Michelle C. Pérez-Ayala, University of Puerto Rico at Cayey
Discipline: Chemistry: Analytical Chemistry

Oral Session 1: Chemistry  RM 15
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-011
5-Aroyl-1,5-dihydro-4H-pyrazol-4-ones as Mild and Highly Selective Acyl Transfer Reagents for Polyamines and Aminoalcohols
Ranad Humeidi, University of Texas at San Antonio
Discipline: Chemistry: Organic Chemistry

O-012
Atmospheric Chemical Reactions of Aerosols with Biogenic Derived Epoxides
Diego Cortes, Oberlin College
Discipline: Chemistry: Environmental Chemistry

O-013
Synthesis of Engineered Nanoparticles with Tailored Density of Antigenic Proteins
Amir A. Hobson, Morehouse College
Discipline: Chemistry: Pharmaceutical Chemistry

O-014
Synthesis of N-n-pentyl-3-pyridyl Pyrrolidine Ether
Zachary Davenport, Gallaudet University
Discipline: Chemistry: Pharmaceutical Chemistry

O-015
The Development and Characterization of Polyelectrolyte Polymer-Peptide Nanoplexes for Antimicrobial Applications
Jamal J. Keyes, Jackson State University
Discipline: Chemistry: Pharmaceutical Chemistry

Oral Session 1: Neuroscience  RM 16
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-016
Cell Types Within Layer Six Corticothalamic Neurons
Zulikayida Maimaiti, Massachusetts Institute of Technology
Discipline: Neuroscience: Neurobiology

O-017
Sox-17 Transgenic Mice Reveal Functional Suppression of Beta-Catenin in Neuroprotection
Kimberly Cruz, Trinity Washington University
Discipline: Neuroscience: Neurobiology

O-018
Characterization of Cre-recombinase Enzyme Expression in Transgenic Mouse Lines used to Target the Major Neuromodulatory Systems of the Brain
Daniel F. Cardozo Pinto, University of California
Discipline: Neuroscience: Neurobiology

O-019
Hedonic Valence Pathways between the Extended Amygdala and Lateral Hypothalamus
Natalia Rodriguez-Sosa, University of Puerto Rico, San Juan
Discipline: Neuroscience: Neurobiology

O-020
Morphological Impact of Pten on Mature Neurons
Janai R. Williams, CUNY University of New York: Brooklyn College
Discipline: Neuroscience: Neurobiology

Oral Session 1: Physiology  RM 18
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-021
Pro-Inflammatory Stress Leads to Down-Regulation of Stromal Interaction Molecule 1 and Altered Store Operated Ca²⁺ Entry in the Pancreatic β cell
Daenique Jengelley, Tuskegee University
Discipline: Physiology: Endocrinology

O-022
A Comparative Analysis of Iodinated Contrast Media in a Rabbit Model of Contrast-induced Acute Kidney Injury
Yvette Kayirangwa, Spelman College
Discipline: Physiology: Pharmacology

O-023
Cathepsin S Inhibition and Myelin Proteins in Nerve of Diabetic mice
Karen Montoya, University of California, San Diego
Discipline: Physiology: Pharmacology

O-024
In Vivo Approach to Uncover Determinants of Volume Displacement of Respiratory Muscles in Dogs
Mary Adeyeye, University at Albany
Discipline: Physiology: Physiology

O-025
Thermodynamic Regulation of Cardiovascular Stability in Type 2 Diabetes
Lanazha Belfield, Winston-Salem State University
Discipline: Physiology: Systems Biology

Oral Session 1: Social and Behavioral Sciences and Public Health RM 19
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-026
Assessing the Impact of Maternal Smoking During Pregnancy on Child Development
Karen Go, City University of New York at Queens College
Discipline: Social and Behavioral Sciences and Public Health: Psychology

O-027
Effects of Aspect and Telicity on Sentence Comprehension in Young Adults
Michelle N. Indarjit, Montclair State University
Discipline: Social and Behavioral Sciences and Public Health: Psychology

O-028
Assessment and Properties of the Trauma Suicide Probability Index - 5 (TSPI-5)
Saifa Pirani, University of Texas at San Antonio
Discipline: Social and Behavioral Sciences and Public Health: Psychology

O-029
The Prediction of Posttraumatic Stress Symptoms and Quality of Life among Veterans who Served in Iraq and Afghanistan
Kha Lor, University of Saint Thomas
Discipline: Social and Behavioral Sciences and Public Health: Psychology

O-030
Many (but Not All) DTI Findings for ASD Disappear With Stringent Motion Matching
Seraphina K. Solders, San Diego State University
Discipline: Social and Behavioral Sciences and Public Health: Psychology
Oral Session 1: Social and Behavioral Sciences and Public Health  RM 20
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-031
Investigating the Marketing Practices of Medical and Recreational Marijuana Dispensary Websites
Erin Ferguson, Spelman College
Discipline: Social and Behavioral Sciences and Public Health: Public Health and Epidemiology

O-032
Perinatal Stress, Diet and Risk of Wheezing/Asthma in Offspring of Mexican American Women, Feasibility and Preliminary Results
Alondra Rivera, University of Illinois in Chicago
Discipline: Social and Behavioral Sciences and Public Health: Public Health and Epidemiology

O-033
Screening of Upper Gastrointestinal Cancers in Patients with Lynch Syndrome
Laura N. Palma, Memorial Sloan Kettering Cancer Center
Discipline: Social and Behavioral Sciences and Public Health: Public Health and Epidemiology

O-034
Impact of Health Coaching on Contextualization of Care for Underserved Patients with Type 2 Diabetes
George Heredia, Jr., University of California, Irvine
Discipline: Social and Behavioral Sciences and Public Health: Public Health and Epidemiology

O-035
Hostility Attitude Affects Prevalent and Incident Diabetes Among Black Adults: The Jackson Heart Study
Tsikata Y. Apenyo, University of Portland
Discipline: Social and Behavioral Sciences and Public Health: Public Health and Epidemiology

Oral Session 1: Cell Biology  RM 21
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-037
Screening for Regulators of Quiescence in the Drosophila Testis Niche
Linh K. Pham, Humboldt State University
Discipline: 3. Cell Biology: Cell Biology

O-038
SIRT3 Suppresses Glutaminolysis in Breast Cancer
Stacy Mulei, University of Massachusetts Boston
Discipline: 3. Cell Biology: Molecular Imaging

O-039
Using Diffusion Weighted Imaging (DWI) Magnetic Resonance (MR) to Predict the Presence of Breast Cancer at Margins
Anan Kazi, City College of New York
Discipline: 3. Cell Biology: Molecular Imaging

O-040
Histological Confirmation of B-cell Lymphoma Infiltration in Multiple Tissues in A Mouse Model
Crystal Choi, CUNY Hunter College
Discipline: 3. Cell Biology: Molecular Imaging

Oral Session 1: Engineering, Physics and Mathematics  RM 22
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-041
Using Eye Movement Measurement and Analysis During a Reading Task to Assess the Effect of mTBI on the Saccadic System
Zoe Villamar, Virginia Commonwealth University
Discipline: Engineering, Physics and Mathematics: Bioengineering

O-042
Conjugation of Heparin to Decellularized Bone to Enhance PDGF-BB Delivery for Bone Tissue Engineering
Athenia Jones, University of Maryland, College Park
Discipline: Engineering, Physics and Mathematics: Bioengineering

O-043
Characterization and Tuning of Xenopus laevis Nucleolar Dynamics using the Cryptochrome 2 (Cry2-olig) Optogenetic System
Tiffany Richardson, Princeton University
Discipline: Engineering, Physics and Mathematics: Biophysics

O-044
4DMRI and Respiratory Motion Assessment for Radiotherapy Planning
Svetlana Markova, The City College of New York
Discipline: Engineering, Physics and Mathematics: Biophysics
O-045
Modeling the Effect of Smart Appliances in Energy Reduction in Residential Homes Using GridLab-D
Alicia Marshall, University Of The District Of Columbia
Discipline: Engineering, Physics and Mathematics: Mathematics

Oral Session 1: Engineering, Physics and Mathematics  RM 23
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-046
Investigation of Bonding Mechanisms between Glassy Carbon and Polyimide through Fourier Transform Infrared Spectroscopy
Kyle D. Logan, San Diego State University
Discipline: Engineering, Physics and Mathematics: Material Sciences

O-047
Formulation of pH Responsive Nanoparticles via Flash Nanoprecipitation
Raven Smith, Virginia Commonwealth University
Discipline: Engineering, Physics and Mathematics: Nanotechnology

O-048
Surface Functionalization of Cellulose Nanocrystals: Synthesis and Cytotoxicity Studies
Ambar S. Jimenez, SUNY Plattsburgh
Discipline: Engineering, Physics and Mathematics: Nanotechnology

O-049
Polyaniline Nanostructures: New Candidates for Electroresponsive Drug Delivery Systems
Nasim Eshragh Nia, University of California San Diego
Discipline: Engineering, Physics and Mathematics: Nanotechnology

O-050
Encasing Pancreatic Islets in Polycaprolactone Scaffold to Preserve Cell Function for Islet Transplantation
Gauree Chendke, University of California Santa Barbara
Discipline: Engineering, Physics and Mathematics: Nanotechnology

Oral Session 1: Microbiology  RM 24
Thursday, November 10, 5:30 p.m. - 6:45 p.m.

O-051
Microbial Communities in Ashe Juniper-Dominated Soils
Amy T. Ontai, St. Edward’s University
Discipline: Microbiology: Environmental Microbiology

O-052
Network and Community Analyses of Fungal Microbiomes at Wild Basin
Jacquelyn Turcinovic, St. Edward’s University
Discipline: Microbiology: Environmental Microbiology

O-053
How do Humans Impact the Microbiome of a Building?
Natalie A. Vegas, Mercy College
Discipline: Microbiology: Environmental Microbiology

O-054
Investigating the Host-independent and Host-dependent Role of Estradiol on the Female Mouse Gut Microbiota
Manjot K. Nagyal, Wellesley College
Discipline: Microbiology: Environmental Microbiology

O-055
Identification of Genes Involved in the Mucoid to Nonmucoid Conversion of a Clinical Pseudomonas aeruginosa 2192 Isolate
Brett Colbert, Florida International University
Discipline: Microbiology: Microbial Physiology

O-056
Interactions Between Two Human Gut Symbionts
Megan D. Smith, University of Nebraska Lincoln
Discipline: Microbiology: Microbial Physiology

O-057
Generation of a Novel Strain of Mycobacterium Smegmatis for the Production of The Mycobacterium Tuberculosis Siderophore Mycobactin T
Jing Chen, New York University
Discipline: Microbiology: Microbial Physiology
O-058
Peptidoglycan Transmits the Surface Sensing Signal to Induce Swarming in Bacteria
Mahliyah L. Adkins-Threats, Truman State University
Discipline: Microbiology: Microbial Physiology

O-059
Internalization and Proliferation of *Staphylococcus Aureus* in Osteoblasts
Emily Goering, Washington University in St. Louis
Discipline: Microbiology: Microbial Physiology

**Oral Session 2: Neuroscience**  
**RM 13**  
**Saturday, November 12, 8:00 a.m. - 9:15 a.m.**

O-061
Elucidating the Role of *hhl-3* in the Differentiation of Sexually Dimorphic Neurons in the Nematode *C. elegans*
Carolina I. Castro, University of Puerto Rico at Mayaguez
Discipline: Neuroscience: Neurobiology

O-062
The Role of Blood-Brain Barrier Disruption and TGF-βR Mediated Albumin Uptake in Age-Related Seizure Vulnerability
Eszter Mihaly, University of California, Berkeley
Discipline: Neuroscience: Neuroscience

O-063
Correlations of Brain Metabolites with Childhood Depressive Symptoms
Adrienne Y. Jo, Claremont McKenna College
Discipline: Neuroscience: Neuroscience

O-064
The Effect of Chlorpyrifos on Mitochondrial Health in a Striatal Cell Model of Huntington’s Disease
Sallaymatu Kallon, Oberlin College
Discipline: Neuroscience: Neuroscience

O-065
Caveolin-1 Mediated Signaling Highlights Sex Differences in Cocaine Drug Addiction
Jessica M. Phan, Pomona College
Discipline: Neuroscience: Neuroscience

**Oral Session 2: Social and Behavioral Sciences and Public Health**  
**RM 15**  
**Saturday, November 12, 8:00 a.m. - 9:15 a.m.**

O-066
PPARδ Agonists Dramatically Improve Preclinical Trial Outcomes In Huntington’s Disease: Motor Behavior and Neurodegeneration
Martin Arreola, UCSD
Discipline: Neuroscience: Neuroscience

O-067
Electric Field Sensors Detect Physiological Changes in Adult Mice with Nerve Injury-Induced Neuropathic Pain
Alejandro J. Lopez, San Jose State University
Discipline: Neuroscience: Neuroscience

O-068
Examining Sleep and Core Body Temperature Parameters Before and After Stress in Male Rodents
Pamela Del Valle, University of Texas at Austin
Discipline: Neuroscience: Neuroscience

O-069
Examination of Estrous Cycle Identification Tools in Female C57BL6/J Mice
Jenny Vernet, Regis College
Discipline: Neuroscience: Neuroscience

O-070
Assessment of Behavioral Response of Bottlenose Dolphin to Unmanned Aerial Systems (UAS) of Behavioral Response of Bottlenose Dolphin to Unmanned Aerial Systems (UAS)
Brigid Maloney, Hunter College
Discipline: Neuroscience: Psychobiology

O-071
Traumatic Stress Exposure During Adolescence Increases Resilience To Fear-based Behaviors During Adulthood
Tatiana Gore, Wayne State University
Discipline: Social and Behavioral Sciences and Public Health: Psychology
O-072
The Effects of High Definition Transcranial Direct Current Stimulation (HD-tDCS) on Memory and Metamemory by Task Difficulty
Sandry M. Garcia, Brooklyn College
Discipline: Social and Behavioral Sciences and Public Health: Psychology

O-073
Romantic Attachment and Perception of Partner Motivation for Health Behavior Regulation
Natasha Villalobos, University of Texas at San Antonio
Discipline: Social and Behavioral Sciences and Public Health: Psychology

O-074
Sexual Assault among College Students Attending a Historically Black College and University
Deshawn Collington, Morgan State University
Discipline: Social and Behavioral Sciences and Public Health: Psychology

O-075
Investigating the Long-Term Memory Benefits of Cued Recall vs. Recognition Tests
Joshua P. Lozano, California State University, Dominguez Hills
Discipline: Social and Behavioral Sciences and Public Health: Psychology

O-076
Cumulative Exposure to Interpersonal Violence is Associated with Adolescent Girls' Expectations about Heterosexual Interactions
Lia Lewis, Wayne State University
Discipline: Social and Behavioral Sciences and Public Health: Psychology

O-077
Assessing Readability Levels of Web-Based Patient Education Material on Hereditary Breast Cancer Syndrome
Athalia L. Lopez, University of Massachusetts Boston
Discipline: Social and Behavioral Sciences and Public Health: Public Health and Epidemiology

O-078
The Role of Race in the Association between Positive Behavioral Interventions and Supports (PBIS) and Student Engagement
Christine M. Egan, University of Minnesota--Twin Cities
Discipline: Social and Behavioral Sciences and Public Health: Public Health and Epidemiology

O-079
The Association of Discrimination and Alcohol Abuse among African American Men
Jakini A. Kauba, North Carolina State University
Discipline: Social and Behavioral Sciences and Public Health: Public Health and Epidemiology

Oral Session 2: Social and Behavioral Sciences and Public Health RM 16
Saturday, November 12, 8:00 a.m. - 9:15 a.m.

Oral Session 2: Developmental Biology and Genetics RM 18
Saturday, November 12, 8:00 a.m. - 9:15 a.m.

O-081
Granulocyte Colony-Stimulating Factor (G-CSF) Promotes Spermatogenic Regeneration after High-Dose Alkylating Chemotherapy
Travis M. Kotzur, University of Texas at San Antonio
Discipline: Developmental Biology and Genetics: Developmental Biology

O-082
Role of Histone Acetyltransferases CBP and p300 in Adipogenesis
Leeza M. Santiago Millán, University of Puerto Rico, Humacao
Discipline: Developmental Biology and Genetics: Developmental Biology

O-083
Expression Profile of Novel Candidates in Neural Crest Development
Jacqueline Cely, University of California Riverside
Discipline: Developmental Biology and Genetics: Developmental Biology

O-084
Characterizing the Roles of Ezrin and Drebrin-like in Microridge Morphogenesis
Eric F. Medina, California State University, Dominguez Hills
Discipline: Developmental Biology and Genetics: Developmental Biology
O-085
Van-Gogh-Like 2, Frizzled, and Knypek Control Distinct Aspects of Polarized Cellular Migration During Neural Convergence
Karndeep Singh, University of Maryland, Baltimore County (UMBC)
Discipline: Developmental Biology and Genetics: Developmental Biology

Oral Session 2: Cell and Developmental Biology  RM 19
Saturday, November 12, 8:00 a.m. - 9:15 a.m.

O-036
Protein Microarray Analysis of Lysosome Positioning Machinery: Focus on BORC (BLOC-One Related Complex)
Heley M. Ong, Cornell University
Discipline: Cell Biology: Cell Biology

O-086
Quantitative Protein Analysis to Map Inner Kinetochore Assembly
Alex Chan, University of California, Los Angeles
Discipline: Developmental Biology and Genetics: Genetics

O-087
Endothelin 3 Compensates for Lack of alpha-Melanocyte-Stimulating Hormone Signaling in Melanogenesis
Alexander Durango, Florida International University
Discipline: Developmental Biology and Genetics: Genetics

O-090
Methamphetamine Mediated Mitochondrial Dysfunction and Microglial Apoptosis
Elizabeth H. Quaye, University at Buffalo
Discipline: Cell Biology: Cell Biology

Oral Session 2: Molecular and Cancer Biology  RM 20
Saturday, November 12, 8:00 a.m. - 9:15 a.m.

O-088
Establishment of the Timing of Metastatic Cell Intravasation in a Mouse Model of Melanoma
Raúl Torres, Jr., Florida International University
Discipline: Cancer Biology: Cancer Biology

O-089
Substrate Stiffness and Cancer-derived Soluble Mediators Contribute to the Activation and Myodifferentiation of Breast Adipose Stem Cells
Pascal Sukuru, Virginia Tech
Discipline: Cancer Biology: Cancer Biology

O-091
Validating Amyloid-Beta (Aβ) Large-Scale Mutational Data
Floriane Ngako Kameni, Harvard College
Discipline: Molecular and Computational Biology: Genomics

O-092
Noninvasive Imaging Markers for Predicting Malignancy in Pancreatic Cysts
Shiana Mainarich, Hunter College
Discipline: Molecular and Computational Biology: Bioinformatics

Oral Session 2: Microbiology and Immunology  RM 21
Saturday, November 12, 8:00 a.m. - 9:15 a.m.

O-093
Studying Human T Cell Behavior In Lymphopenic Environments In Humanized Mice
Aditya Misra, Cornell University
Discipline: Immunology: Immunology

O-094
Role of Fractalkine Receptor on Retinal Pathology During Experimental Autoimmune Encephalomyelitis
Alyssa L. Arriaga, The University of Texas at San Antonio
Discipline: Immunology: Immunology

O-095
Role of OX40L-JAG1 Co-signaling in TCR Independent Treg Expansion
Patricia N. Rodríguez-Morales, University of Puerto Rico at Cayey
Discipline: Immunology: Immunology

O-112
Chemical and Stress Resistances of Clostridium difficile
Lina M. Jowhar, Emory University
Discipline: Microbiology: Bacteriology

O-113
Antimicrobial Activity of Tropical Spice Extracts Against Issatchenkia orientalis and Escherichia coli
O-106
A Novel Solution for Powering Our Planet: A Comparative Study of a Novel Titania Sol and a Titania Powder for the Improved Efficiency of Dye-sensitized Solar Cells
Lorne S. Joseph, University of the Virgin Islands
Discipline: Engineering, Physics and Mathematics: Material Sciences

O-107
2D Doping of Nanomaterials: Investigation of Chemical Environment and Electronic Structure Effects
Nakeshma Cassel, University of the Virgin Islands
Discipline: Engineering, Physics and Mathematics: Material Sciences

O-108
3D Aqueous Bioprinting for Scalable, Personalized Tissue Engineering
Anthony Tabet, University of Minnesota
Discipline: Engineering, Physics and Mathematics: Material Sciences

O-109
Advancements in Hydrogen Storage: A Study of ZIF-8
Daniel Mukasa, Oberlin College
Discipline: Engineering, Physics and Mathematics: Material Sciences

Oral Session 2: Microbiology and Immunology  RM 24
Saturday, November 12, 8:00 a.m. - 9:15 a.m.

O-096
Evaluating the Immunogenicity of Embryonic Stem Cell Derived Hepatoblasts (SC-Hep) and Adult Hepatocytes (AD-Hep) in a murine Transplant Model
Danielle W. Dillard, San Jose State University
Discipline: Immunology: Immunology

O-097
Type 1 Interferon and Pro-inflammatory Cytokines Reduce Heme Oxygenase-1/HO-1 Expression in Human Monocyte Derived Macrophages: Potential Role in HIV-neuropathogenesis
Rolando Garza, Jr., University of Texas at San Antonio
Discipline: Immunology: Immunology
O-098
Development of an Anti-Oxidized Phospholipid Neutralizing Antibody as an Atheroprotective Therapeutic Agent
Valeria Flores Malavet, University of Puerto Rico at Ponce
Discipline: Immunology: Immunology

O-110
Identifying Hindgut Microbes in Ctenochaetus striatus and Calotomus spinidens: Comparing Community Composition, Function, and Identifying Genomes Through Metagenomics
Cassandra R. Harris, Savannah State University
Discipline: Microbiology: Bacteriology

O-111
The Nematode Caenorhabditis elegans Displays a Chemotaxis Behavior to Tuberculosis-Specific Odorants
Joseph Marsili, Northeastern Illinois University
Discipline: Microbiology: Bacteriology

Oral Session 2: Microbiology  RM 25
Saturday, November 12, 8:00 a.m. - 9:15 a.m.

O-115
Regulation of the Cell Death by Zika Virus by Means of the BCL-2 Family Member BOK
Joselyn Landazuri Vinueza, Queens College, City University of New York
Discipline: Microbiology: Virology

O-116
Humoral Immune Response to HIV-1 gp120; Serum IgG Isotype Analysis and Avidity
Edward K. Sarfo, City College of New York, New York
Discipline: Microbiology: Virology

O-117
Were Childhood Leukemias Once Infected with Adenovirus? Comparative Examination of Cellular Gene Expression
Martine Policard, Georgia State University
Discipline: Microbiology: Virology

O-118
The Characterization of Zika Virus 5' Untranslated Region as a Regulatory Component for Translation
Sofia Romero, University of California Santa Cruz
Discipline: Microbiology: Virology

O-119
Efficient Screening of HIV-1 Mutants Resistant to Integrase Inhibitors in a Random Mutant Library
Cristian A. Ovies, DePaul University
Discipline: Microbiology: Virology
Program Highlights by Track

Community College, Undergraduates and Postbaccalaureates

**Wednesday, November 9, 2016**

2:00 p.m. – 2:45 p.m.
- Graduate Student Life: Perspectives of Graduate Students

3:00 p.m. – 4:00 p.m.
- Presentation Techniques: How to Make Effective Poster and Oral Presentations
- Building Your Brand Starts Now

4:15 p.m. – 4:45 p.m.
- Wrap It Up! How To Present Your Work in 5 Minutes or Less

5:00 p.m. – 6:00 p.m.
- Networking in Your Scientific Discipline (All Disciplines)
- Bringing Mentees and Mentors Together in a National Mentoring Network

**Thursday, November 10, 2016**

8:00 a.m. – 9:00 a.m.
- Orientation for Community College, Undergraduates, and Postbaccalaureate Students

9:15 a.m. – 10:30 a.m.
- Picking the Perfect Ph.D. Program for You/Why Choose a School with a T32
- M.D.-Ph.D. – Is It Right for Me?
- Graduate Opportunities in Public and Global Health Research
- Community College Students: Tips for Transitioning to a Four-Year Institution

8:00 p.m. – 9:30 p.m.
- Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences – Conversations with Scientists

Friday, November 11, 2016

2:00 p.m. – 3:00 p.m.
- Effective Personal Statement for Getting into Highly Competitive Graduate Schools and Summer Programs
- Navigating Mentoring Relationships: Discovering Essential Skills for Mentees
- Tell Your Science as a Story
- Goal Setting and Time Management

6:15 p.m. – 7:15 p.m.
- Confessions of Admission Officials: What We Look at, and for, in Graduate School Applications
- Financing Your Graduate Education
- Strategies for Taking Standardized Admissions Tests: Preparing for the GRE and MCAT Exams
- Tips for Applying to a Postbaccalaureate Program
- Being a Proactive Mentee: Taking Control of Your Research Experience

7:30 p.m. – 8:30 p.m.
- LGBTQ Mixer
- GlaxoSmithKline Mixer

Saturday, November 12, 2016

2:30 p.m. – 4:00 p.m.
- ABRCMS Professional Skills Café
- ABRCMS Wikipedia Year of Science Edit-a-thon

4:30 p.m. – 5:30 p.m.
- Blogging, Tweeting, & Writing to Promote Your Career and Diversify Science
Program Highlights by Track (continued)

**Graduate Students and Postdoctoral Scientists**

**Wednesday, November 9, 2016**

2:00 p.m. – 6:00 p.m.
- Do You Play Fair? A Workshop about Bias in Academia

2:00 p.m. – 4:30 p.m.
- Imagining and Defining the Grant that will fund your Postdoc

3:00 p.m. – 4:00 p.m.
- Building Your Brand Starts Now

5:00 p.m. – 6:00 p.m.
- Networking in Your Scientific Discipline (All Disciplines)
- Bringing Mentees and Mentors Together in a National Mentoring Network

**Thursday, November 10, 2016**

8:00 a.m. – 9:00 a.m.
- Enhancing Professional Skills for Scientists: Beyond the Bench

9:15 a.m. – 10:30 a.m.
- Getting Published: Advice for Graduate Students and Postdoctoral Scientists

8:00 p.m. – 9:30 p.m.
- Job Search Strategies: Effective Interviewing Skills and Job Offer Negotiation
- Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences – Conversations with Scientists

10:45 a.m. – 11:45 a.m.
- How We Learn ... and How We Don’t

**Friday, November 11, 2016**

2:00 p.m. – 3:00 p.m.
- Navigating Mentoring Relationships: Discovering Essential Skills for Mentees

- Leveraging Wikipedia to Improve Science Communication Skills
- Tell Your Science as a Story

6:15 p.m. – 7:15 p.m.
- Being a Proactive Mentee: Taking Control of Your Research Experience
- Postdoc Fundamentals: Selecting a Training Experience to Match Your Career Goals

7:30 p.m. – 8:30 p.m.
- Graduate Students and Postdoctoral Scientists Networking Mixer
- LGBTQ Mixer
- GlaxoSmithKline Mixer

**Saturday, November 12, 2016**

2:30 p.m. – 4:00 p.m.
- ABRCMS Professional Skills Café
- ABRCMS Wikipedia Year of Science Edit-a-thon

4:30 p.m. – 5:30 p.m.
- Surviving, Striving, and Thriving, in Your Postdoc and Beyond!
- Blogging, Tweeting, & Writing to Promote Your Career and Diversify Science

**Faculty, Program Directors, and Exhibitors**

**Wednesday, November 9, 2016**

2:00 p.m. – 6:00 p.m.
- Do You Play Fair? A Workshop about Bias in Academia

2:00 p.m. – 4:30 p.m.
- Entering Mentoring: Research Mentor Training for Faculty Working with Undergraduates

5:00 p.m. – 6:00 p.m.
- State of the ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program
- Networking in Your Scientific Discipline (All Disciplines)
Program Highlights by Track (continued)

- Bringing Mentees and Mentors Together in a National Mentoring Network

Thursday, November 10, 2016

8:00 a.m. – 9:00 a.m.
- Orientation for Judges (All 12 Disciplines)
- Enhancing Professional Skills for Scientists: Beyond the Bench

9:15 a.m. – 10:30 a.m.
- NIH Grants Management Workshop
- How We Learn ... and How We Don’t

9:15 a.m. – 10:30 a.m.
- NIH Grants Management Workshop
- How We Learn ... and How We Don’t

8:00 p.m. – 9:30 p.m.
- High-Caliber Research at Nonresearch Institutions: Models of Effective Undergraduate Research Programs
- Job Search Strategies: Effective Interviewing Skills and Job Offer Negotiation
- NIGMS Program Director Discussions

10:45 a.m. – 11:45 a.m.
- How We Learn ... and How We Don’t

Friday, November 11, 2016

2:00 p.m. – 3:00 p.m.
- Small World Initiative™: Building Scientists One Class at a Time

Saturday, November 12, 2016

2:30 p.m. – 4:00 p.m.
- Implementing Do You Play Fair? A Workshop About Bias in Academia
- ABRCMS Wikipedia Year of Science Edit-a-thon

4:30 p.m. – 5:30 p.m.
- Blogging, Tweeting, & Writing to Promote Your Career and Diversify Science

- Leveraging Wikipedia to Improve Science Communication Skills
- Tell Your Science as a Story

6:15 p.m. – 7:15 p.m.
- Postdoc Fundamentals: Selecting a Training Experience to Match Your Career Goals

6:30 p.m. – 8:30 p.m.
- Reception for Speakers, Exhibitors, Judges, and Program Directors

7:30 p.m. – 8:30 p.m.
- LGBTQ Mixer
- GlaxoSmithKline Mixer
- Speaker, Program Director, Judges and Exhibitor reception
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