Annual Biomedical Research Conference for Minority Students

Final Program & Exhibitor Guide

ABRCMS 2015th ANNIVERSARY seattle NOVEMBER 11–14

Strength in Diversity!
15 Years of Enhancing Minority Student Excellence in STEM Research

ABRCMS 15th Anniversary Timeline

CELEBRATING 15 YEARS OF ABRCMS • CELEBRATING 15 YEARS OF ABRCMS • CELEBRATING 15 YEARS OF ABRCMS

In 15 years, the Annual Biomedical Research Conference for Minority Students (ABRCMS) has become the premier venue for students in the biomedical or behavioral sciences, including mathematics, to network with and learn from the best thinkers and practitioners in the sciences.

2001 — Preparing Scientists for the 21st Century

- With generous support from NIGMS MORE, the American Society for Microbiology (ASM) manages its first ABRCMS
- Freeman A. Hrabowski III, president of the University of Maryland, Baltimore County, and one of *Time* magazine's 10 Best College Presidents in America in 2009, gives keynote address
- Attendance total exceeds 1,800 (nearly 1,200 students and more than 600 faculty and administrators); there are 120 booths in the exhibit program
- ABRCMS is one of the first conferences held after September 11, making the support by its attendees that much more significant

2002 — Preparing Scientists for the 21st Century

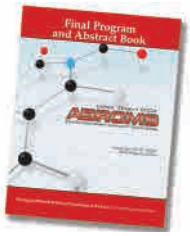
- Conference celebrates the 40th anniversary of NIGMS and 30th anniversary of MARC and MBRS programs
- Nobel prize awardees Alfred G. Gilman (pharmacologist and biochemist) and Thomas R. Cech (chemist) and NSF Waterman awardee Eric Jarvis (neurobiologist) appear in the session "Leaders in Scientific Discovery: Conversations with Nobel Laureates"
- Bernard Harris, Jr., first African-American to walk in space, addresses participants
- Francis S. Collins, visionary leader of the Human Genome Project and current NIH director, presents research on the project to ABRCMS attendees
- Marvin Cassman, former director of NIGMS, is on hand to mark the NIGMS and MARC anniversaries
- Three early advocates of NIGMS' minority programs, Ruth L. Kirschstein, former congressman Louis B. Stokes, and Charles Miller, are presented with the first Geraldine Woods Awards, which recognize individuals who have had a significant impact in promoting the advancement of underrepresented minorities in the biomedical sciences
- ABRCMS is featured in *Black Issues in Higher Education* and the websites of *Hispanic Online*, *The Black Collegian* magazine, and *Science's Next Wave*

> *"This was my first scientific conference and it was AMAZING"*

2003 — Preparing a Diverse Scientific Workforce: Eliminating Health Disparities

- Marilyn Hughes-Gaston, the first African-American woman to direct a public health service bureau (Bureau of Primary Health Care in the U.S. Health Resources and Services Administration), gives keynote address
- 2010 MacArthur fellow Carlos Bustamante presents a plenary scientific session
- Sampson Davis, George Jenkins, and Rameck Hunt, authors of *The Pact: Three Young Men Make a Promise and Fulfill a Dream*, are on hand to inspire attendees

2004 — Meeting the Biomedical Research Challenges of the Future: A Celebration of Achievement



- Shirley Ann Jackson, the first African-American to receive a doctorate from MIT and the first woman and African-American to chair the U.S. Nuclear Regulatory Commission, gives keynote address
- Benjamin S. Carson, whose pioneering techniques revolutionized neurosurgery, gives the plenary address, "Think Big"
- John Alderete, past-president of SACNAS (the Society for the Advancement of Chicanos and Native Americans in the Sciences), gives the address "From ABRCMS to the National Academy"
- Baldomero Olivera, a chemist famous for the discovery of many cone snail toxins important for neuroscience, presents "*Conus peptides*: from Venom to Drugs"

2005 — Promoting Inclusion and Excellence in Biomedical Research

5-Year Anniversary Celebration!

- ASM receives renewed funding from NIGMS for five more years of ABRCMS
- Norman B. Anderson, CEO of the American Psychological Association and the first director of the NIH Office of Behavioral and Social Sciences Research, gives keynote address
- Mina Bissell, 2008 American Cancer Society Medal of Honor awardee, and Shirley Malcom, recipient of the Public Welfare Medal (the National Academy of Sciences' highest honor), address conference participants
- Jeremy M. Berg, director of the NIGMS and an author of the widely used text book *Biochemistry*, discusses the NIH Roadmap for Medical Research in an informative plenary scientific session
- Conference introduces the Birds of a Feather program in which graduate students and postdoctoral scientists lead discussions on professional development
- Conference offers its first campus tours; attendees visit the University of Texas Southwestern Medical Center at Dallas

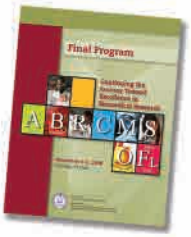
2006 — Changing the Face of Science in America

- Aida Luz Maisonet Giachechello, director of the Midwest Latino Health Research, Training, and Policy Center and one of *Time* magazine's 25 most influential Hispanics in America in 2005, gives keynote address
- Conference registration goes online
- Arthur Leonard Caplan, author of the MSNBC column *Breaking Bioethics* and one of *Discover* magazine's 10 most influential people in science in 2008, gives a plenary address
- FASEB provides the first FASEB MARC Travel Award for ABRCMS undergraduate and postbaccaleate students; the award supports student registration and travel for the conference
- Conference introduces the Meet and Greet Speakers Program, in which student attendees chat one on one with ABRCMS' invited speakers

2007 — Interdisciplinary Approaches to Global Problems in Science

- Tavis Smiley, host of television and radio shows *Tavis Smiley* and *The Tavis Smiley Show*, gives keynote address
- Robert Shaler, director of the forensic science program at Penn State and leader of the effort to identify the remains of 9/11 victims, gives a plenary address
- S. Allen Counter, director of the Harvard Foundation, which strives to improve intercultural understanding, equality and peace among students, addresses conference participants
- Conference introduces the Networking with Disciplinary Society Representatives Program, a forum for small group discussions between students and professional society members
- Conference introduces ABRCMS Travel Award, which provides funds to undergraduate and postbaccalaureate students for travel to the conference
- Number of ABRCMS student presentation disciplines grows to 10

2008 — Continuing the Journey Toward Excellence in Biomedical Research



- Back by popular demand: Freeman A. Hrabowski III, president of the University of Maryland, Baltimore County, returns to address conference attendees
- Bonnie Bassler, "the Bacteria Whisperer" and MacArthur fellow, and David Page, director of the Whitehead Institute, present plenary sessions
- Conference introduces the Peer Mentoring Program, in which first-time ABRCMS undergraduate and community college student attendees receive advice on how to best navigate national conferences
- Conference introduces the Judges' Travel Subsidy to support the first-time ABRCMS judges at the conference
- Conference introduces the Postdoctoral Fellowship Recruitment Program, in which doctoral-level graduate students present research and researchers discuss postdoctoral fellowship program options with students
- Attendance reaches peak of more than 2,800 (nearly 1,800 students and more than 1,000 faculty and administrators)

2009 — Charting the Path to Careers in the Biomedical and Behavioral Sciences

- Mae C. Jemison, the first African-American woman astronaut, gives keynote address
- Cynthia Breazeal, MIT robotics pioneer, and Tyrone Hayes, biologist and herpetologist, present plenary sessions
- Griffin Rodgers, groundbreaker in sickle cell anemia research and director of the National Institute of Diabetes and Digestive and Kidney Diseases, addresses participants
- ABRCMS online presence expands to social media with Twitter; attendees tweet from the meeting
- ABRCMS is featured in *Hispanic Outlook* magazine

2010 — The Future of Science, Diverse People, Diverse Needs

10-Year Anniversary Celebration!

- Maya Angelou, poet, educator, author, entertainer and director, inspires attendees with "An Afternoon with Maya Angelou"
- ABRCMS social media presence expands with Facebook
- Juliet V. García, the first Mexican-American woman in the nation to become president of a college or university, gives keynote address
- Irene Pepperberg, *New York Times* best-selling author of *Alex & Me*, a memoir about her research on grey parrots, addresses participants
- MacArthur fellow and NIGMS council member Carolyn Bertozzi addresses participants
- Neil deGrasse Tyson, astrophysicist, author, Hayden Planetarium director, and host of "NOVA ScienceNow," presents a plenary session
- Back by popular demand: NIGMS director Jeremy M. Berg and NIH director Francis S. Collins are on hand to mark ABRCMS 10th anniversary.
- Abstract submissions reach peak of 1,547; there are more than 280 booths in the exhibit program and 120 travel awardees
- ABRCMS establishes the Ruth L. Kirschstein Award, which recognizes an individual who has demonstrated a sustained career commitment to mentoring students from underrepresented groups and increasing their participation in biomedical and behavioral sciences research

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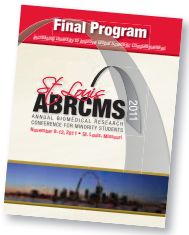
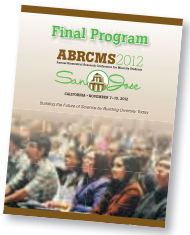
2011 — Increasing Diversity to Improve Global Scientific Competitiveness



- Two new scientific areas, cancer biology and immunology, are added to the ABRCMS student presentation disciplines
- Posters of postbaccalaureates are judged for the first time
- Cora Marrett, Deputy Director of the National Science Foundation (NSF), gives the keynote address
- President of Bennett College, Julianne Malveaux, speaks on biomedical research, health disparities, and the role of researchers of color

2012 — Building the Future of Science by Building Diversity Today

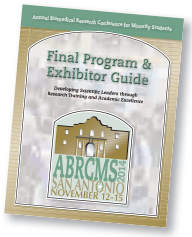


- 50th anniversary of the National Institutes of Health's National Institute of General Medical Sciences (NIGMS), the organization that funds ABRCMS
- For the first time, all undergraduate and postbaccalaureates are judged based on their incorporation of interdisciplinary research within their projects
- Inaugural year of the popular ABRCMS Career Development Skills Cafe
- Rear Admiral Susan J. Blumenthal, former U.S. Assistant Surgeon General and the country's first Deputy Assistant Secretary for Women's Health, discusses the role and importance of science diplomacy
- James Hildreth, first African-American Rhodes Scholar from Arkansas and first African-American to earn full professorship with tenure in the basic sciences at Johns Hopkins School of Medicine, gives a plenary talk

2013 — Developing the Next Generation of Scientific Leaders

- Ainissa Ramirez speaks to conference attendees during the opening keynote address and a plenary session
- During a two-part session the grandson and daughter-in-law of Henrietta Lacks speak candidly about their grandmother and mother-in-law, while Ruth Faden addresses the ethical considerations made famous in the book, *The Immortal Life of Henrietta Lacks*
- Ambassador Andrew Young, former mayor of Atlanta, former U.S. Ambassador to the United Nations, and a civil rights activist, gives the closing keynote address

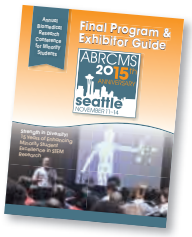
2014 — Developing Scientific Leaders through Research Training and Academic Excellence



- For the first time, Wi-Fi is made freely available in the exhibit hall
- ABRCMS launches its first mobile app
- ABRCMS has a record number of attendees (3,584), abstract submissions (1,724), and exhibitors (322)
- Chief Astronomer and Director of the Fels Planetarium at The Franklin Institute, Derrick Pitts, speaks about the importance of science communication
- Award winning authors Sonia Shah and Richard Rodriguez give plenary talks

15th Anniversary Celebration

2015 — Strength in Diversity! 15 Years of Enhancing Minority Students' Excellence in STEM Research



- Hannah Valantine, Chief Officer for Scientific Workforce Diversity at the National Institutes of Health (NIH), and Jon R. Lorsch, Ph.D., Director of the National Institute of General Medical Sciences at the NIH, give plenary addresses
- Nobel Prize Laureate Linda Buck speaks about her work on odorant receptors and the organization of the olfactory system
- Nontombi Naomi Tutu, human rights activist, daughter of Archbishop Desmond Tutu, and advocate for social justice, is the closing plenary speaker
- Record numbers in abstract submission (2,035)
- Record numbers in pre-registration (3,612)
- Record numbers in exhibit booths (350)

"Incredible experience, especially for undergraduate students. Great networking and professional development opportunities, and exposure to fields of research and research programs."

Table of Contents

Join the conversation! #ABRCMS

facebook.com/abrcms

Instagram
instagram.com/abrcms

twitter.com/abrcms

Important Room Locations at the Convention Center (WSSC)

Speaker Ready Room	WSSC, 212
Presentation Practice Room	WSSC, 213
Oral Presentation Practice Room	WSSC, 211
First Aid Office	WSSC, 4th floor
Study Hall/Exam Room	WSSC, 306
Judges Lounge	WSSC, 401
Meal Functions/Plenary Sessions	WSSC, 4A/4B
Exhibit Hall	WSSC, 4C - F

ABRCMS Feedback Survey

ABRCMS wants to hear from you! On Friday, November 13th, ABRCMS will launch the 2015 conference survey to solicit your input and feedback . By completing the survey, you help us to continue to make ABRCMS the success that it is. Complete survey and win great prizes.

Conference Welcome

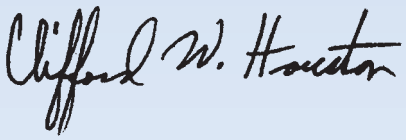
Welcome to Seattle, Washington! I am also very proud to welcome you to the 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS) as we celebrate our 15-year anniversary! Once again, it is yet another banner year for ABRCMS! We have continued to set growth records in the number of total participants, abstracts submitted, exhibit booths sold, and dollars raised for scholarships.

The theme of this year's ABRCMS is "Strength in Diversity! Fifteen Years of Enhancing Minority Students' Excellence in STEM Research." There will truly be strength in diversity when the biomedical research workforce mirrors the population that it serves. This would directly and indirectly address issues such as health disparities through more biomedical research breakthroughs to address these issues by a more diverse research workforce. With the rapidly changing demographics in this country and the simultaneously dwindling U.S. workforce due primarily to factors such as the increasing retirement of the "baby boomer" generation, it is important to join the ABRCMS family in preparing the next generation of scientists — particularly those underrepresented in the sciences—to address future challenges in the biomedical research enterprise.

I want to challenge the ABRCMS students to be well prepared and come to ABRCMS with the intent to take full advantage of all the opportunities the conference has to offer as well as challenge their faculty mentors and advisors to keep pressure on the students so they don't lose focus of their goals. Whether you are a new or a returning ABRCMS participant, you will see and hear renowned speakers, industry experts, faculty and administrators; network with peers; learn about recent advances in the biomedical and behavioral sciences; and participate in discussions of some of the most current and important issues facing minority students as well as professionals specifically and society in general.

The ABRCMS Steering Committee, staff, exhibitors, and a host of volunteers have invested many hours of brainstorming, reviewing abstracts, planning logistics, preparing materials, and more in order to bring you a rewarding conference experience. This is evident by the large number of exhibitors who have come to Seattle to recruit students. When you see any of these exhibitors at ABRCMS 2015, please give them your thanks for making this year's conference one of the best in the nation. ABRCMS could not happen without the help of many dedicated people and generous sponsors. I want to thank in advance the ABRCMS Steering Committee members, ASM staff, faculty program directors, exhibitors, and volunteer judges for all of their hard work and support in preparation for and during the conference. I especially want to thank the Division of Training, Workforce Development, and Diversity at the National Institute of General Medical Sciences, NIH, whose funding has made this conference possible.

Respectfully,



Clifford W. Houston, Ph.D.
Chairperson, ABRCMS

Greetings

Jon Lorsch

Alison Gammie

Dear Students, Colleagues and Friends,

On behalf of the National Institutes of Health's National Institute of General Medical Sciences, we'd like to welcome you to the 2015 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

Program at a Glance

Registration Hours

Wednesday, November 11, 2015	12:00 p.m. – 8:00 p.m.
Thursday, November 12, 2015	7:00 a.m. – 7:00 p.m.
Friday, November 13, 2015	7:00 a.m. – 5:00 p.m.
Saturday, November 14, 2015	7:00 a.m. – 1:00 p.m.

Wednesday, November 11, 2015

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

2:00 p.m. – 8:00 p.m.
Exhibit Set-up

2:00 p.m. – 6:00 p.m.
Fair Play: A Workshop About Unconscious Bias in Academia
(Recommended for graduate students, postdocs, faculty, program directors, and exhibitors)

3:30 p.m. – 4:30 p.m.
Session 1
Graduate Student Life: Perspectives of Graduate Students

Session 2
Presentation Techniques: How to Make Effective Poster and Oral Presentations

Session 3
Self-Awareness: The Key to Success in Life and Lab

Session 4
Facilitating Recruitment of Your Students

Session 5
National Research Mentoring Network to Diversify the Biomedical Workforce

5:00 p.m. – 6:00 p.m.
Session 1
Networking in Your Scientific Discipline (All Disciplines)

Session 2
State of the ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program

6:30 p.m. – 7:15 p.m.
Dinner

7:15 p.m. – 8:30 p.m.
Conference Overview

Opening Remarks

Conference Welcome

Opening Keynote Address: Enhancing Diversity in the Scientific Workforce: An Opportunity and Imperative for Excellence

Thursday, November 12, 2015

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

7:30 a.m. – 8:15 a.m.
Continental Breakfast

8:00 a.m. – 12:00 p.m.
Exhibit Set-up

7:30 a.m. – 8:30 a.m.
PDO Steering Committee Meeting
(By invitation only)

8:30 a.m. – 9:30 a.m.
Session 1
Orientation for Undergraduates and Postbaccalaureates

Session 2
Getting Published: Advice for Graduate Students and Postdoctoral Scientists

Session 3
Tracking Graduates in an Age of Emerging Social Media

Session 4
Orientation for Judges (All 12 Disciplines)

9:45 a.m. – 10:30 a.m.
PLENARY SCIENTIFIC SESSION
Unraveling Smell

11:00 a.m. – 12:00 p.m.
CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

Session 1
Picking the Perfect Ph.D. Program for You/Why Choose a School with a T32

Session 2
M.D.-Ph.D. – Is It Right for Me?

Session 3
Graduate Opportunities in Public and Global Health Research

Session 4
Community College Students: Tips for Transitioning to a Four-Year Institution

Session 5
How We Learn ... and How We Don't

Session 6
Strengths-Based STEM Pipeline Interventions

Session 7
Science for All, One Microbiome at a Time – Course-based Authentic Research Experience for Undergraduates

12:30 p.m. – 1:00 p.m.
Networking Lunch

12:50 p.m. – 1:15 p.m.
Happy 15th Anniversary ABRCMS!

1:15 p.m. – 2:00 p.m.
PLENARY SCIENTIFIC SESSION
The Future of Biomedical Research and Training

2:15 p.m. – 6:30 p.m.
Exhibits Open

2:30 p.m. – 3:45 p.m.
POSTER SESSION 1

4:00 p.m. – 5:15 p.m.
POSTER SESSION 2

5:30 p.m. – 6:30 p.m.
ORAL PRESENTATION SESSIONS 1 – 12

6:45 p.m. – 7:30 p.m.
Networking Dinner

8:00 p.m. – 9:30 p.m.
CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

Session 1
Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences – Conversations with Scientists

Session 2
High-Caliber Research at Non-research Institutions: Models of Effective Undergraduate Research Programs

Session 3
NIGMS Program Director Discussions

8:00 p.m. – 9:30 p.m.
Graduate Students and Postdoctoral Scientists Networking Mixer

Friday, November 13, 2015

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

7:00 a.m. – 7:45 a.m.
Continental Breakfast

7:30 a.m. – 8:15 a.m.
PLENARY SCIENTIFIC SESSION
Ebola and Beyond: Emerging Viruses in a Globalized World

8:30 a.m. – 9:15 a.m.

CONCURRENT SCIENTIFIC SESSIONS

Session 1

Using Statistics to Make Sense of Biomedical Big Data

Session 2

Sickle Cell Disease, Strokes, and Biomedical Engineering

Session 3

A Toxicologist's Quest to Balance Adverse Effects and Desirable Outcomes During Drug Development

(Sponsored by the Society of Toxicology)

Session 4

Glycoprotein Team Burglary: Entry and Exit of the Deadly Zoonotic Nipah Virus

(Sponsored by the American Society for Microbiology)

Session 5

Splicing and Microbial Sex: How a Chromatin-Remodeling Protein Acts as the Master Regulator of pre-mRNA Splicing During Meiosis

Session 6

Coordinating the Stress Response: Mechanisms Regulating Steroid Hormone Production

Session 7

The Neurobiology of Depression and Antidepressant Action: Role of G Proteins, The Cytoskeleton and Lipids Rafts

Session 8

Health Disparities in the United States: What Do We Know about African American Men's Health?

9:45 a.m. – 10:45 a.m.

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

Session 1

Mentoring 101

Session 2

Goal Setting and Time Management

Session 3

Solving for S: Variables in the Success Equation

Session 4

The Business of Science: Leveraging Your Scientific , Business and Social Identities to Be Competitive in Today's Job Market

Session 5

Navigating Your Way into a Postdoctoral Position and Having a Successful Postdoctoral Experience

Session 6

Funding Your Education and Training: Hear from the Experts

Session 7

Expert Roundtable: How to Navigate the NIH Grants and Peer Review Systems

10:45 a.m. – 12:15 p.m.

Exhibits Open

11:00 a.m. – 12:15 p.m.

POSTER SESSION 3

12:30 p.m. – 1:15 p.m.

Networking Lunch

1:15 p.m. – 2:00 p.m.

PLENARY SCIENTIFIC SESSION

Translational Studies on the Impact of Chronic Alcohol Abuse on HIV/AIDS

2:30 p.m. – 3:30 p.m.

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

Session 1

Effective Personal Statement for Getting into Highly Competitive Graduate Schools and Summer Programs

Session 2

Outclass the Competition! Etiquette Training

Session 3

Effective Interviewing Skills and Job Offer Negotiation

Session 4

Three Techniques for Building Relationships During Science Communications

Session 5

Building Your Brand Starts NOW

Session 6

NIH Grants Management Workshop

3:45 p.m. – 6:45 p.m.

Exhibits Open

4:00 p.m. – 5:15 p.m.

POSTER SESSION 4

5:30 p.m. – 6:45 p.m.

POSTER SESSION 5

7:00 p.m. – 8:00 p.m.

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

Session 1

Elements of the Graduate School Application Process

Session 2

Financing Your Graduate Education

Session 3

Strategies for Taking Standardized Admissions Tests: Preparing for the GRE and MCAT Exams

Session 4

Tips for Applying to a Postbaccalaureate Program

Session 5

How to Be Successful in Your Summer Research Experience

Session 6

Job Search Strategies and CV/Resume Workshop

Session 7

How to Apply to MD-PhD Programs

7:00 p.m. – 9:00 p.m.

Reception for Speakers, Exhibitors, Judges, and Program Directors

8:00 p.m. – 9:00 p.m.

NIGMS/TWD Organization-Wide Meeting for Program Directors

Saturday, November 14, 2015

7:00 a.m. – 1:00 p.m.

Registration Open

7:30 a.m. – 8:15 a.m.

Continental Breakfast

8:30 a.m. – 9:30 a.m.

Oral Presentation Sessions (All 12 Disciplines)

9:30 a.m. – 12:30 p.m.

Exhibit Hall Open

9:45 a.m. – 11:00 a.m.

POSTER SESSION 6

11:00 a.m. – 12:15 p.m.

POSTER SESSION 7

12:45 p.m. – 1:30 p.m.

Networking Lunch

1:00 p.m. – 4:00 p.m.

Exhibit Takedown

1:30 p.m. – 2:15 p.m.

Closing Keynote Address: One Body, One Family, One World

2:45 p.m. – 4:45 p.m.

CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

Session 1

ABRCMS Professional Skills Cafe

Session 2

Achieving Your Goals: Goal-Setting Strategies for Scientific and Career Success, Developing Your IDP

5:00 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

Student Presentation Awards Ceremony

Concluding Remarks

10:30 p.m. – 2:00 a.m.

Dessert Reception, Dance Party, and Social (All Are Invited)

ABRCMS Enhancements and Highlights

The 2015 conference offers a comprehensive program of scientific sessions, professional development workshops, student oral and poster presentations, and exhibits. Full program details are provided later in this program; meanwhile, please take note of the following highlights and opportunities:

Free Wi-Fi at ABRCMS

Good news! At ABRCMS 2015, Wi-Fi will be freely available in the exhibit hall, session rooms, and convention center hallways. This service has been brought to you by a generous contribution from the American Society for Microbiology. Network is **ABRCMS** and password is **ABRCMS2015**.

ABRCMS Mobile App

Did you know ABRCMS has its own app? With the ABRCMS app, the conference program, exhibitor information, maps, and more are always at your fingertips.

Judges Needed

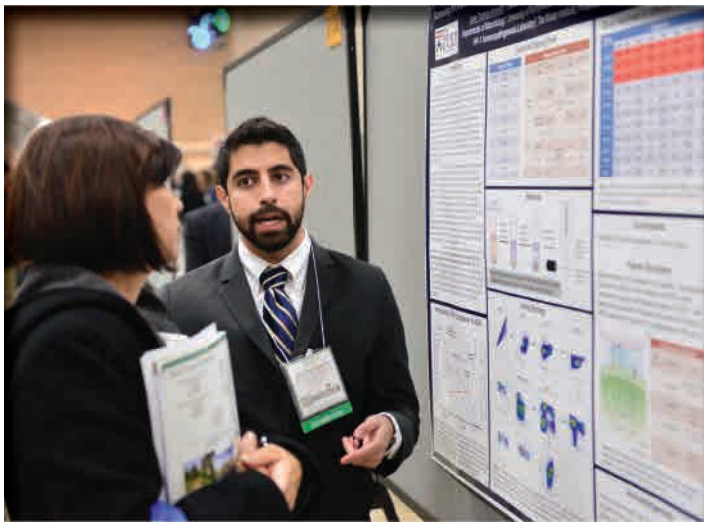
Active researchers in all 12 scientific disciplines are needed to serve as judges for the ABRCMS Student Presentation Program. To volunteer as a judge, stop by the judging information desk by registration or attend Judges' Orientation on Thursday, November 12 at 8:30 a.m.

Interactive Exhibit Floor Plan

Students, with more than 350 exhibitors and just three days of dedicated exhibit hours, ABRCMS encourages you to plan ahead to set up your exhibits itinerary. Visit our online interactive exhibit floor plan today to see and contact confirmed exhibitors.

"This is my first scientific conference ever, it is an amazing experience. I would recommend it to everyone, especially undergraduates. It makes me want to be better, and have bigger dreams."

"I have enjoyed my experience at ABRCMS and am so thankful for the opportunity to attend! I never knew how much a four-day conference could inspire me to continue in my scientific career!"



ABRCMS Abstracts Database

Attendees can use the online ABRCMS abstract database to locate student abstracts by name, topic, or discipline. Visit the conference website or click on the abstract icon in the mobile app to visit the online abstract database.

Keystone Travel Award for Grads and Postdocs

Keystone Symposia on Molecular Biology will grant two travel awards to grad students and postdocs attending ABRCMS 2015. The $1,200 travel award will provide support to attend a 2015-17 Keystone Symposia meeting. Award eligibility requires completion of an application that will be available at Exhibit Hall Booth 727 through November 13, 2015.

Conference Orientation for Undergraduates and Postbaccalaureates

Your ABRCMS orientation will help you maximize your learning and networking opportunities throughout the conference. All orientation sessions will be held on **Thursday, November 12, from 8:30 to 9:30 a.m.**

Networking with Disciplinary Societies

Networking sessions with disciplinary societies will be held on **Wednesday, November 11, from 5:00 to 6:00 p.m.** Led by professional society members, these informal sessions offer a forum for small-group discussions focused on the student activities and career pathways offered by societies. All ABRCMS exhibitor and faculty attendees who are professional society members are strongly encouraged to attend.

Early Admittance into Exhibit Hall for Exhibitors

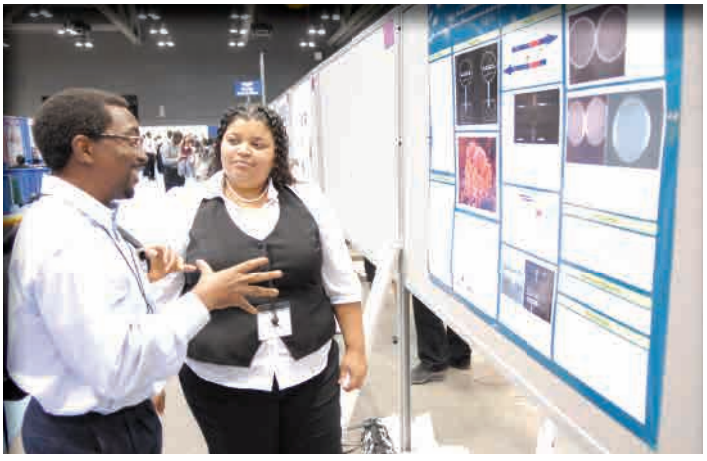
Exhibitors may use their exhibitor badges to access their booths 30 minutes prior to the opening of the exhibit hall. **Exhibit Hall takedown is from 1:00 p.m. to 4:00 p.m., November 14.**

Onsite Registration and Check-In

Express self-registration will be offered at ABRCMS 2015. Bring a copy of your registration confirmation letter with you to expedite the process.

ABRCMS Professional Development Skills Cafe

The cafe offers a unique opportunity for participants to receive one-on-one coaching and engage in discussions with leaders in all scientific disciplines. Don't miss this opportunity to seek individual advice on goal setting, identifying careers, and becoming successful in the sciences.



"It was great! I have the chance to network with institutions outside of my state. I will definitely apply more broadly to graduate schools and medical schools. I also received valuable feedback on my poster. I will definitely take the feedback into consideration for the next poster presentation."

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

Thursday, November 13, 8:00pm – 9:30pm

In this session, research scientists from a variety of career sectors will engage students in small group discussions focused on "a day in the life of a research scientist." Scientists will discuss their career pathways and educational backgrounds, what they enjoy about their work, and their strategies for professional and personal life balance. Career sectors include pharma/biotechnology/industry, media/communications, research intensive academic/staff scientist, undergraduate liberal arts academic/community college, MD-Ph.D. in academic health center, and government/policy/foundation/law.

Meet and Greet Speakers

Invited ABRCMS speakers will be available to meet with students informally immediately following their presentations or during main exhibition hours on Friday, November 13, 11:00 to 12:00 p.m. This is a wonderful opportunity to meet one on one with speakers and learn more about their research and pathways to success.

Join the conversation! #ABRCMS

facebook.com/abrcms

instagram.com/abrcms

twitter.com/abrcms

Important Conference Information

Information for All Attendees

Call for Judges

On-site judges for 12 disciplines in the biomedical and behavioral sciences, including mathematics, are needed to evaluate the approximately 1,800 poster and oral presentations at the 2015 ABRCMS. For more information, visit the judges' lounge by the entrance of the Exhibit Hall.

Cell Phone Usage

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

Child Policies

Note that if children two years old and over attend any portion of ABRCMS (e.g., sessions, exhibits, or meals), they must be paid registrants of the conference, wear a conference badge, and be accompanied by a parent and/or guardian at all times. Please note the following policies regarding children at ABRCMS:

Meals. Anyone entering conference meal areas must be registered and show an ABRCMS name badge at the door. Children under age two may accompany their parents and/or guardians to meals as long as they are seated in a stroller or on the lap of a parent or guardian. There are no exceptions to this policy.

Sessions. The presence of young children at ABRCMS sessions is particularly discouraged because this may distract conference participants.

Exhibit hall. For any minor, regardless of registration status, a liability waiver must be completed at the registration desk by a parent or guardian. An ABRCMS staff representative will cosign the waiver and provide the parent or guardian with a copy to show security guards to gain entry into the exhibit hall. The waiver permits access to the exhibit hall only, not to meal areas or meeting rooms. No strollers are allowed in the exhibit hall. For the protection of all attendees, no dangerous or disruptive behavior will be tolerated.

> *"It is the one conference in the year that actually recharges my research and mentoring batteries."*
>
> *Faculty Attendee*

Dress Code

ABRCMS attendees are expected to dress professionally for all conference activities. Student attendees should be especially mindful that they are at the beginning of their careers and first impressions are critical. It is recommended that male students wear button-down shirts with collars. Although ties are appropriate, they are not required. Female students must also dress professionally. Short skirts, half tops, and anything considered "club attire" are not appropriate attire for conferences.

Evaluation

A conference evaluation will be e-mailed to all attendees immediately following the conference. We value your feedback, and every completed evaluation helps us improve future conferences.

Exhibits Program

The ABRCMS exhibits program is an integral component of the conference, providing attendees with opportunities to learn about the many summer research opportunities, funding courses, internships, professional networks, graduate programs, etc., within the biomedical and behavior sciences, including STEM. More than 350 educational institutions, federal and government agencies, industry-based companies, foundations, professional societies and research hospitals showcase information during the ABRCMS exhibits program.

The exhibits program is located in Exhibit Hall 4C - F.
The hall is open to all attendees at the following times:

Exhibits Set- Up and Break Down

Wednesday, November 11:	2:00 p.m. – 8:00 p.m. (set-up)
Thursday, November 12:	8:00 a.m. – 12:00 p.m.
Saturday, November 14:	1:00 p.m. – 4:00 p.m. (break down)

Dates and Times of Exhibition

Thursday, November 12:	2:15 p.m. – 6:30 p.m.
Friday, November 13:	10:45 a.m. – 12:15 p.m. and 3:45 p.m. – 6:45 p.m.
Saturday, November 14:	9:30 a.m. – 12:30 p.m.

First Aid

First Aid is available at the conference. If you have an emergency please contact staff at ABRCMS registration desk.

Name Badge Replacement Fee

Attendees must wear their ABRCMS name badge to all conference functions. Name badges permit access to all sessions, the e-mail center, exhibits program, and conference meals. No individual without an official ABRCMS name badge will be permitted in these areas. **Please note: there is a $100 fee for replacement name badges**.

"An amazing experience that not only allowed me to practice presenting my work but also meet a diverse body of scientists and future scientists."

Networking Meals

ABRCMS offers many opportunities for networking. Join colleagues with similar interests to share ideas and develop research collaborations. All ABRCMS meals will be held in Ballroom 4A/B and your conference registration fee covers all meals except Friday dinner. Name badges are required to enter the meals area.

Photo Policy

In order to protect data shared during presentations, no photos may be taken of posters or scientific session slides at ABRCMS.

Safety Tips

Meeting participation, with its related travel, is a major component of scientific work. New cities, people, and environments move us away from our normal, routine lives and may cause us to let down our guard. It is important for ABRCMS participants to remember that no place is exempt from crime.

Alphabet Soup? A Glossary for ABRCMS Students

Students, we realize that the many abbreviations, acronyms, and initialisms used as shorthand for scientific organizations can be a source of confusion when you are just beginning your research career. To help keep everyone on the same page, here is a glossary of common terms that you will encounter in this program — and see throughout your career.

AAAS	–	American Association for the Advancement of Science
FASEB	–	Federation of American Societies for Experimental Biology
HHMI	–	Howard Hughes Medical Institute
MARC	–	Minority Access to Research Careers
MBRS	–	Minority Biomedical Research Support
MORE	–	Minority Opportunities in Research
NIH	–	National Institutes of Health
NIGMS	–	National Institute of General Medical Sciences
RISE	–	Research Initiative for Scientific Enhancement
U-STAR	–	Undergraduate Student Training in Academic Research

Continued on next page

Speaker Ready Room

The speaker ready room is located in WSSC, 212. Technical support staff will be available in the room to assist speakers and student oral presenters with their presentations. **All speakers should check in with the technical support staff at least one hour prior to giving their presentations.**

Student Presentations and Awards

Poster presentations are scheduled throughout the conference during exhibit hours. A small number of abstracts have been chosen for oral presentations. Undergraduate and postbaccalaureate presentations will be judged during the conference, and those receiving the highest scores will be given awards at the closing banquet on November 14. Each poster or oral presenter will receive a certificate of participation after the conference. Certificates will be emailed to the address listed on the abstract submission site. **Note that students who arrive late or who do not turn in their presentations by the deadline will not be permitted to present. In addition, faculty may not coach students during their presentations. There are no exceptions to these policies.** See the schedule below for presentation schedules.

Study Hall Location

A private study room is available for students who need to take exams and/or student.

- WSSC, Room 306

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

Networking Tables 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 your respective disciplines during lunch and dinner on Thursday, and lunch on Friday. Disciplines tables are identified by napkin colors. See table below.

Chemistry, Biochemistry, Engineering, Physics & Mathematics (Black Napkins)

Microbiology, Immunology (Burgundy Napkins)

Neuroscience, Physiology, Developmental Biology (Ivory Napkins)

Cell Biology, Molecular Biology & Computational Biology, Cancer Biology (Blue Napkins)

Social and Behavioral Sciences and Public Health (Green Napkins)

Keynote, Plenary and Concurrent Scientific Speakers

Wednesday, November 11, 2015, 8:00 p.m. – 8:30 p.m.

OPENING KEYNOTE ADDRESS

Enhancing Diversity in the Scientific Workforce: An Opportunity and Imperative for Excellence

Hannah Valantine, M.D.
Scientific Workforce Diversity, NIH, Bethesda, MD

Thursday, November 12, 2015, 9:45 – 10:30 a.m.

PLENARY SCIENTIFIC SESSION

Unraveling Smell

Co-sponsored by the American Society for Microbiology and Howard Hughes Medical Institute

Linda B. Buck, Ph.D.
Fred Hutchinson Cancer Research Center, Seattle, WA

Thursday, November 12, 2015, 1:15 p.m. – 2:00 p.m.

PLENARY SCIENTIFIC SESSION

The Future of Biomedical Research and Training

Jon R. Lorsch, Ph.D.
National Institute of General Medical Sciences, NIH, Bethesda, MD

Friday, November 13, 2015, 7:30 a.m. – 8:15 a.m..

PLENARY SCIENTIFIC SESSION

Ebola and Beyond: Emerging Viruses in a Globalized World

David Quammen, B.A., B.Litt.
Science journalist and prize-winning author

Friday, November 13, 2015, 8:30 a.m. – 9:15 a.m.

CONCURRENT SCIENTIFIC SESSIONS

Using Statistics to Make Sense of Biomedical Big Data

Tim Thornton, Ph.D.
University of Washington, Seattle, WA

Susan Shortreed, Ph.D.
Global Health Research Institute, Seattle, WA

Sickle Cell Disease, Strokes, and Biomedical Engineering

Sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program

Manu O. Platt, Ph.D.
Georgia Institute of Technology, Atlanta, GA

A Toxicologist's Quest to Balance Adverse Effects and Desirable Outcomes During Drug Development

Sponsored by the Society of Toxicology

Myrtle Davis, D.V.M., Ph.D.
National Cancer Institute, NIH, Bethesda, MD

Glycoprotein Team Burglary: Entry and Exit of the Deadly Zoonotic Nipah Virus

Sponsored by the American Society for Microbiology

Hector Aguilar-Carreno, Ph.D.
Washington State University, Pullman, WA

"I have participated in several national meetings but ABRCMS has changed my perspective on science in a positive way."

Friday, November 13, 2015, 8:30 a.m. – 9:15 a.m.

CONCURRENT SCIENTIFIC SESSIONS (continued)

Splicing and Microbial Sex: How a Chromatin-Remodeling Protein Acts as the Master Regulator of Pre-mRna Splicing During Meiosis

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

Coordinating the Stress Response: Mechanisms Regulating Steroid Hormone Production

Marion Sewer, Ph.D.
University of California Davis, Davis, CA

The Neurobiology of Depression and Antidepressant Action: Role of G Proteins, the Cytoskeleton and Lipid Path

Mark Rasenick, Ph.D.
University of Illinois, Chicago, IL

Health Disparities in the United States: What Do We Know about African American Men's Health?

Roland Thorpe, Ph.D.
Johns Hopkins University, Baltimore, MD

Friday, November 13, 2015, 1:15 p.m. – 2:00 p.m.

PLENARY SCIENTIFIC SESSION

Translational Studies on the Impact of Chronic Alcohol Abuse on HIV/AIDS

Patricia E. Molina, M.D., Ph.D.
Louisiana State University Health Sciences Center, New Orleans, LA

Saturday, November 14, 2015, 1:30 p.m. – 2:15 p.m.

CLOSING KEYNOTE ADDRESS

One Body, One Family, One World

Nontombi Naomi Tutu
Human rights activist, daughter of Archbishop Desmond Tutu, and advocate for social justice

Linda Buck, Ph.D.

Linda Buck is a Howard Hughes Medical Institute investigator, a full member of the Fred Hutchinson Cancer Research Center, and an affiliate professor at the University of Washington. She received a bachelor's degree from the University of Washington and a doctorate from the University of Texas Southwestern Medical Center. Buck was previously a full professor of neurobiology at Harvard Medical School. She is a fellow of the American Association for the Advancement of Science and a member of the National Academy of Sciences, the Institute of Medicine of the National Academies, and the American Academy of Arts & Sciences. Buck's pioneering research has shed light on how thousands of odor molecules in the environment are first detected in the nose and then translated by the brain into diverse odor perceptions and instinctive behaviors. She has been the recipient of numerous honors and awards, including the Unilever Science Award, the Lewis S. Rosenstiel Award for Distinguished Work in Medical Research, the Gairdner Foundation International Award, and the Nobel Prize in Physiology or Medicine.

Myrtle Davis, D.V.M., Ph.D.

Myrtle Davis is the branch chief for toxicology and pharmacology in the Developmental Therapeutics Program (DTP) at the National Cancer Institute's Division of Cancer Diagnostics and Treatment (NCI DCTD). Davis also serves as scientific director of the Laboratory of Investigative Toxicology at the Frederick National Laboratory for Cancer Research. She contributes broadly to the DCTD by providing mechanistic toxicology expertise to drug discovery and development teams, creating and leading major research initiatives within the DTP, and managing daily branch operations. Before joining the NCI, Davis was a research advisor at Eli Lilly and Company and an associate professor at the University of Maryland, School of Medicine. She is active in the toxicology leadership community and has long history of serving on scientific boards and advisory bodies. Davis has served as co-editor-in-chief for the *ILAR Journal* and as an editor for various toxicology journals. She has authored or co-authored several book chapters or peer-reviewed publications and has developed course content and lectures for medical and graduate student education. Davis completed a postdoctoral fellowship in toxicologic pathology at the University of Maryland. She earned a doctorate in toxicology from the University of Illinois Urbana-Champaign and a doctor of veterinary medicine degree from Tuskegee University School of Veterinary Medicine.

Jon R. Lorsch, Ph.D.

Jon R. Lorsch is director of the National Institute of General Medical Sciences (NIGMS), which funds basic research in cell biology, biophysics, genetics, developmental biology, pharmacology, physiology, biological chemistry, biomedical technology, bioinformatics and computational biology. Lorsch came to NIGMS from the Johns Hopkins University School of Medicine, where he was a professor in the Department of Biophysics and Biophysical Chemistry and received six teaching awards. A leader in RNA biology, Lorsch studies the initiation of translation, a major step in controlling how genes are expressed. He holds one patent and one patent application related to his translation research. As passionate about education as he is about research, Lorsch's Hopkins work included reforming the curricula for graduate and medical education, spearheading the development of the Center for Innovation in Graduate Biomedical Education, launching a program offering summer research experiences to local high school students, and advising dozens of undergraduate and graduate students and postdoctoral fellows. Lorsch holds a bachelor's degree in chemistry from Swarthmore College and a doctorate in biochemistry from Harvard University. He conducted postdoctoral research at Stanford University. Lorsch is the author of more than 60 peer-reviewed research articles, book chapters, and other papers. He is a past editor of *Methods in Enzymology* and a reviewer for numerous scientific journals. Lorsch is a member of the American Society for Biochemistry and Molecular Biology's mentoring committee, the RNA Society's board of directors, and NIH review committees.

Patricia E. Molina, M.D., Ph.D.

Patricia E. Molina is the Richard Ashman, Ph.D., Professor and Chair of Physiology and the director of the Alcohol and Drug Abuse Center of Excellence at Louisiana State University Health Sciences Center (LSUHSC) in New Orleans. Molina completed her doctorate in physiology at LSUHSC and her postdoctoral experience at Vanderbilt University. Prior to joining LSUHSC, she was an assistant professor of surgery and physiology at the State University of New York, Stony Brook, and director of surgical research at North Shore University Hospital. She was also a guest scientist at Brookhaven National Laboratory. Molina is the PI of a T-32 training grant focused on the biomedical consequences of alcohol abuse and of the P60 LSUHSC Comprehensive Alcohol Research Center focused on alcohol interactions with HIV/AIDS. Molina has a strong commitment to education and student development, actively participates in physiology courses at LSUHSC, and is the author of the Langue series *Endocrine Physiology* monograph. At LSUHSC, she has held several faculty, mentor, and committee appointments. Molina has served on multiple National Institutes of Health and American Heart Association review panels and is a current member of the National Advisory Council on Alcohol Abuse and Alcoholism. Molina has held multiple appointments at the American Physiological Society and currently chairs the National Hispanic Science Network on Drug Abuse, an organization with the mission of developing the next generation of Hispanic researchers on drug abuse and comorbid conditions.

Manu O. Platt, Ph.D.

Manu O. Platt received his bachelor's degree in biology from Morehouse College and his doctorate in biomedical engineering from the Georgia Institute of Technology and Emory University School of Medicine. He finished his postdoctoral training (orthopedic tissue engineering and systems biology) at MIT prior to returning to Georgia Tech and Emory in the joint Department of Biomedical Engineering, where he is now an associate professor. Platt's transdisciplinary research bridges tissue remodeling, systems biology, and a number of diseases. An NIH Director's New Innovator Award, the

International AIDS Society, the Georgia Cancer Coalition, and the National Science Foundation have funded his work. He is also the diversity director for the NSF Science and Technology Center on Emergent Behaviors of Integrated Cellular Systems, which is a joint research center between Georgia Tech, the University of Illinois, and MIT. As a part of this effort, he co-founded and co-directs Project ENGAGES (Engaging the Next Generation at Georgia Tech in Engineering and Sciences), a scientific research program to recruit and train Atlanta public high school students into biotechnology and engineering disciplines by involving them in independent research projects in Georgia Tech labs.

David Quammen, B.A., B. Litt

David Quammen is a science journalist, nonfiction author, and (former) novelist who has spent most of his life in Montana. He travels on assignment for various magazines, usually to jungles, deserts, or swamps. His accustomed beat is the world of field biology, ecology, evolutionary biology, and conservation, though he also occasionally writes about travel, history, and outdoor sports. His book, *The Reluctant Mr. Darwin*, is an intimate portrait of the scientist. According to *The Los Angeles Times Book Review*, "Quammen brilliantly and powerfully re-creates the 19th century naturalist's intellectual and spiritual journey." *Harper's*, *National Geographic*, *The Atlantic, National Geographic Adventure*, *Outside*, *The New York Times Book Review*, *The Best American Science Writing 2005* and others have published his work. He has three times received the National Magazine Award for essays and other work. His 15 books include *The Song of the Dodo*, *Monster of God*, *The Soul of Viktor Tronko* (a spy novel), *Natural Acts*, *Ebola: The Natural and Human History of a Deadly Virus*, *Spillover: Animal Infections and the Next Human Pandemic*, and *The Chimp and the River: How AIDS Emerged from an African Forest*.

Mark Rasenick, Ph.D.

Mark Rasenick's work has focused on G protein signaling in the nervous system. He has been particularly interested in how G proteins and the cytoskeleton work in concert to modify synaptic shape and to form a molecular basis for depression and the action of antidepressant drugs. He is an elected fellow of the American College of Neuropsychopharmacology (ACNP), American Association for the Advancement of Science, and the Cuban Academy of Sciences. Rasenick is also active in public policy. He directs advocacy for the American Brain Coalition and ACNP. While a Robert Wood Johnson Fellow (1999-2000), he was a staff member with Senator Edward M. Kennedy. Rasenick is also involved in international outreach for neuroscience.

> *"Great Forum for meeting and establishing networks."*

Marion Sewer, Ph.D.

Marion Sewer is a professor of pharmacology in the Skaggs School of Pharmacy and Pharmaceutical Sciences at the University of California–San Diego. She holds a bachelor's degree in biochemistry from Spelman College and a doctorate in pharmacology from Emory University. While at Emory, Sewer was a Howard Hughes Medical Institute Predoctoral Fellow, investigating the effect of inflammation on drug metabolism. She completed postdoctoral training in the Vanderbilt University Department of Biochemistry. Sewer's research entails defining the factors that regulate lipid metabolism. Her studies, which are funded by the National Institute of Diabetes and Digestive and Kidney Diseases and the National Institute of General Medical Sciences, are aimed at investigating the signaling pathways and transcriptional mechanisms that control the production of cortisol and other steroid hormones.

Susan Shortreed, Ph.D.

Susan Shortreed is an associate investigator in the biostatistics unit at the Group Health Research Institute in Seattle, WA. She is also an affiliate associate professor at the University of Washington's biostatistics department. Shortreed's research brings together statistics and machine learning methods to address health science and biomedical problems, with a special emphasis on analyzing complex longitudinal data and overcoming missing data challenges. Much of her methodological work is focused on developing and evaluating statistical inference approaches for observational data, such as data collected from electronic health care records. Shortreed is also interested in developing new machine learning methods and extending current best-practice methods, specifically for creating individualized treatment strategies and selecting which pieces of information are important to include in statistical analyses. She collaborates with scientists in a broad range of areas, including cancer screening, chronic pain, depression, and suicide prevention.

Timothy Thornton, Ph.D.

Timothy Thornton is an associate professor in the Department of Biostatistics at the University of Washington. He is also an affiliate investigator at the Fred Hutchinson Cancer Research Center in Seattle, WA. The focus of his research is the development and application of statistical methods for the identification of genetic variants underpinning complex traits and diseases. His research lab also develops software for the statistical analysis of large-scale genotyping data. Prior to joining the faculty at the University of Washington, Thornton was a University of California President's Postdoctoral Fellow in the Department of Statistics at the University of California at Berkeley. He earned a bachelor's degree in mathematics from Hampton University and a doctorate in statistics from the University of Chicago.

Roland J. Thorpe, Jr., Ph.D., M.S.

Roland J. Thorpe, Jr., is an assistant professor in the Department of Health, Behavior, and Society, and founding director of the Program for Research on Men's Health in the Hopkins Center for Health Disparities Solutions at the Johns Hopkins Bloomberg

Continued on next page

School of Public Health. Thorpe is a gerontologist whose research agenda focuses on the association of race, socioeconomic status, and segregation with health and functional outcomes among men. He serves as principal investigator of the National Black Men's Health Pilot Study and the Black Men's Health Accrual Project and as co-investigator of the Disparities in Prostate Cancer Treatment Modality and Quality of Life: Baseline Study. His work appears in flagship journals, including *Journals of Gerontology Medical Sciences*, *Social Science and Medicine*, *American Journal of Men's Health*, and *International Journal of Men's Health*. Thorpe's research has been supported by the National Institute on Minority Health and Health Disparities and the National Institute on Aging. He serves on the Department of Health and Human Services Office of Minority Health Advisory Committee for Minority Health. He also serves on the American Psychological Association Working Group on Health Disparities for Boys and Men and the Boys of Color Collaboration. He is a guest editor for *Family and Community Health*, *Behavioral Medicine on the Health of Boys and Men*, and *Ethnicity and Disease.*

Nontombi Naomi Tutu, Global Activist

The challenges of growing up black and female in apartheid South Africa have been the foundation of Nontombi Naomi Tutu's life as an activist for human rights. Those experiences taught her that our whole human family loses when we accept situations of oppression, and how the teaching and preaching of hate and division injure us all. Her speeches blend her passion for human dignity with humor and personal stories. Born in South Africa as the third child of Archbishop Desmond Tutu and Nomalizo Leah Tutu, she has had the opportunity to live in many communities and countries. She was educated in Swaziland, the United States, and England and has divided her adult life between South Africa and the United States. Growing up the "daughter of…" has offered Naomi Tutu many opportunities and challenges. Most important of these has been the challenge to follow her own path and role in building a better world. She has taken up the challenge and channeled her opportunities into raising her voice as a champion for the dignity of all.

Hannah Valantine, M.D.

Hannah Valantine is the National Institutes of Health (NIH) inaugural Chief Officer for Scientific Workforce Diversity and a senior investigator in the Intramural Research Program at the National Heart, Lung, and Blood Institute. Prior to starting this position in April 2014, Valantine was professor of cardiovascular medicine and the senior associate dean for diversity and leadership at the Stanford University School of Medicine. She is nationally recognized for her transformative approaches to diversity and is a recipient of the NIH Director's Pathfinder Award for Diversity in the Scientific Workforce. While at Stanford, to better align the academic workplace with the needs of faculty in the 21st century, she pioneered the Academic Biomedical Career Customization model for which Stanford received the Alfred P. Sloan Award for Faculty Career Flexibility. Valantine has been the recipient of several research grants from the NIH and American Heart Association and has authored over 160 peer-reviewed publications in high-impact journals. In addition, she has authored 10 book chapters and been invited to present over 100 lectures. Valantine has served on many editorial boards, including those for *Journal of Heart & Lung Transplant*, *Transplantation*, and *Circulation*.

Tracy Johnson, Ph.D.

Tracy Johnson earned her bachelor's degree in biochemistry and cell biology from the University of California–San Diego (UCSD) and her doctorate in molecular and cell biology from the University of California–Berkeley. She was a Jane Coffin Childs postdoctoral research fellow at the California Institute of Technology and joined the UCSD biological sciences faculty in 2003. In 2013, Johnson joined the faculty at UCLA, where her lab focuses on understanding basic mechanisms of gene regulation. Johnson has served on a variety of scientific boards, including the RNA Society Board of Directors, the Howard Hughes Medical Institute Professors Executive board, and several federal grant review panels. She is the recipient of numerous awards, including the Presidential Early Career Award for Scientists and Engineers and the Chancellor's Associates Award for Excellence in Undergraduate Teaching. In 2013, Johnson was named one of the Top 20 Women Professors in California, and in 2014, she was named a Howard Hughes Medical Institute Professor.

Hector Aguilar-Carreno, Ph.D.

Hector Aguilar-Carreno grew up in Tepic, Nayarit, Mexico, where he obtained his bachelor's degree in biochemical engineering. He then obtained a master's degree in biology at California State University–Los Angeles and a doctorate in biochemistry and molecular biology at the University of Southern California. His postdoctoral fellowship in virology yielded, among other accomplishments, approximately 15 publications and the co-discovery of the receptors for the deadly Nipah and Hendra viruses. In the last four years, Aguilar-Carreno has been an assistant professor in the Paul G. Allen School for Global Animal Health at Washington State University, as well as an affiliate faculty member in the university's Department of Veterinary Microbiology and Pathology in the School of Molecular Biosciences and the Department of Chemistry. His main focus is the study of the entry and exit of deadly emerging zoonotic viruses into and from mammalian host cells. Aguilar-Carreno's research program is funded by the National Institutes of Health and by the Department of Homeland Security, and his last four years as an assistant professor have yielded about 20 peer-reviewed publications. His area of research promises to have high impact in global human and animal health.

"Conference was very well organized. Thank you so much for all the effort and hard work!"

Conference Program

Wednesday, November 11, 2015

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

2:00 p.m. – 8:00 p.m. **Exhibit Set-up**

2:00 p.m. – 6:00 p.m. **Fair Play: A Workshop About Unconscious Bias in Academia** Location: WSSC, 304

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

This workshop will allow participants to play the game "Fair Play" and discuss how unconscious bias may impede student success. Fair Play teaches faculty and staff how unconscious stereotypes, also known as implicit bias, can inadvertently influence judgment about and behavior toward others. In the game, Jamal, an African-American graduate student, encounters a number of bias incidents as he navigates his academic career and interacts with faculty, staff, and students on a college campus. His success depends on the player negotiating interactions within the game and learning about various bias concepts. In addition to playing the game, workshop participants will engage in a facilitated discussion about addressing unconscious bias in their relationships with students, as well as at their institutions.

Speaker

Christine Pribbenow, Ph.D., *University of Wisconsin–Madison, Madison, WI*

3:30 p.m. – 4:30 p.m. **CONCURRENT PROFESSIONAL DEVELOPMENT SESSION**

Session 1 Location: WSSC, 303

Graduate Student Life: Perspectives of Graduate Students

(Recommended for undergraduate, postbaccalaureate, and master's students)

Hear graduate students share their experiences in discussions that include setting goals, selecting mentors, managing time, and balancing academic and social activities.

Speakers

Panel of Graduate Students and Postdoctoral Scientists

Session Moderator

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

Session 2 Location: WSSC, 606 & 607

Presentation Techniques: How to Make Effective Poster and Oral Presentations

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

Effective communication is essential to each stage of a scientific career. This workshop offers strategies for making the most of every opportunity to attend a scientific meeting and present your work. Learn the essentials of designing compelling oral and poster presentations, including developing a clear conceptual framework, adding graphics, polishing delivery, and responding to questions.

Speaker

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

Session 3 Location: WSSC, 310

Self-Awareness: The Key to Success in Life and Lab

(Recommended for graduate students, postdoctoral scientists, and early-career scientists)

We each bring unique personalities and work styles to the classroom, lab, workplace, and home. Understanding your style and appreciating that others have their own styles can enhance your interactions and help you succeed. This workshop will explore differences in personalities and work styles that impact the way we communicate, learn, make decisions, engage in conflict, and plan our day. The workshop will include group activities and hands-on experiences related to working successfully in educational and research team environments.

Speaker

Sharon Milgram, Ph.D., *Office of Intramural Training & Education, NIH, Bethesda, MD*

Wednesday, November 11, 2015

Session 4 Location: WSSC, 309

Facilitating the Recruitment of Your Students

(Recommended for faculty and program directors)

Successful recruitment of underrepresented students requires the combined effort of the recruiter, the target institution, and the student. While innovative 'best practices' have facilitated the matriculation of underrepresented students in graduate programs at the University of Wisconsin-Madison, there are a number of improvements which NSF/NIGMS directors and faculty can facilitate to optimize recruitment. These improvements will be discussed followed by a call for greater recruitment collaboration. This session will address (i) identification of challenges in recruitment at undergraduate/master's institutions and (ii) recognition of ways to facilitate recruitment.

Speaker

Theresa Duello, Ph.D., *University of Wisconsin-Madison, Madison, WI*

Session 5 Location: WSSC, 305

National Research Mentoring Network to Diversify the Biomedical Workforce

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

Join this session to learn about the National Research Mentoring Network to Diversify the Biomedical Workforce (NRMN), a key part of the newly funded NIH diversity initiative. Attendees will learn about opportunities for mentor-mentee matching, culturally responsive mentor training workshops, professional development grants, development programs for postdocs and junior faculty, and outreach activities. NRMN works through partnerships with institutions, minority-serving organizations and programs, and scientific societies. Along with introducing attendees to NRMN, a key goal of this session is to provide them with information about how they can become key partners in the NRMN endeavor and enroll in or learn more about upcoming NRMN events and activities.

Speaker

Jamboor Vishwanathan, Ph.D., *University of North Texas Health Science Center, Denton, TX*

5:00 p.m. – 6:00 p.m. **Session 1**

Networking in Your Scientific Discipline (All Disciplines)

(Recommended for all attendees)

This informal session will focus on helping students transition to the next level – being involved with their disciplinary societies and attending professional society meetings. Disciplinary society members will lead the session, interact one on one with students, and discuss student-centered activities and programs offered by their organizations.

Session Leaders

To Be Determined

• **Biochemistry and Chemistry**	Location: WSSC, 615
• **Cancer Biology**	Location: WSSC, 616
• **Cell Biology and Molecular and Computational Biology**	Location: WSSC, 614
• **Developmental Biology and Genetics**	Location: WSSC, 612
• **Engineering, Physics, and Mathematics**	Location: WSSC, 613 & 614
• **Microbiology and Immunology**	Location: WSSC, 606 & 607
• **Neuroscience**	Location: WSSC, 609
• **Physiology**	Location: WSSC, 611
• **Plant Biology**	Location: WSSC, 618
• **Public Health**	Location: WSSC, 602 & 603
• **Social and Behavioral Sciences**	Location: WSSC, 608

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Session 2 Location: WSSC, 619 & 620

State of the ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program

(Recommended for faculty and program administrators)

The ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) program aspires to facilitate meaningful interactions between established scientists—many of whom are NSF investigators or prospective investigators—and students, educators, and early-career scientists. Through structured mentoring, the program seeks to develop participant skills in communications, teaching and mentoring, ethics, career planning, management and leadership, and interpersonal relationships. Join this invitational session to learn about LINK and discuss the national need for a structured-mentoring program that will cultivate diversity and competency in STEM.

Speaker

Kelly Diggs-Andrews, Ph.D., *American Society for Microbiology, Washington, DC*

Olga Steinberg-Neifach, Ph.D., *Hostos Community College, CUNY, Brooklyn, NY*

6:30 p.m. – 7:15 p.m. **Dinner**

7:15 p.m. – 8:30 p.m. **Conference Overview** Location: WSSC, 4A/4B

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

Opening Remarks

Clifford W. Houston, Ph.D., *University of Texas Medical Branch, Galveston, TX*

Conference Welcome

Jon R. Lorsh, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

Alison Gammie, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

Opening Keynote Address

Enhancing Diversity in the Scientific Workforce: An Opportunity and Imperative for Excellence

Hannah Valantine, M.D., will describe her career journey as an academic cardiologist who has embraced genomics as a tool for advancing individualized patient care. Valantine has both witnessed and instigated paradigm shifts that drive change in biomedicine. In addition to her novel approaches to transplant genomics, these shifts include efforts to increase diversity and inclusion as the inaugural Chief Officer for Scientific Workforce Diversity at the National Institutes of Health.

Speaker

Hannah Valantine, M.D., *National Institutes of Health, Bethesda, MD*

Introducing Speaker

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

8:30 p.m. – 8:45 p.m. **Question and Answer with Hannah Valantine, M.D.** Location: WSSC, 4A/4B

9:00 p.m. – 10:00 p.m. **ABRCMS Student Travel Awardee Networking** *(By Invitation only)* Location: WSSC, 6B

9:00 p.m. – 10:00 p.m. **PREP Scholars Meeting** Location: WSSC, 602 & 603

Thursday, November 12, 2015

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

7:30 a.m. – 8:15 a.m. Continental Breakfast

7:30 a.m. – 8:30 a.m. Program Director Organization (PDO) Steering Committee Meeting — Location: WSSC, 302
(By invitation only)

8:00 a.m. – 12:00 p.m. Exhibit Set-up

8:30 a.m. – 9:30 a.m. CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS

Session 1 — Location: WSSC, 4A/4B

Orientation for Undergraduates and Postbaccalaureates
(Mandatory for undergraduates and postbaccalaureates)
This orientation sets the tone of the conference, provides an overview of ABRCMS for attendees, and prepares them to take advantage of the many opportunities available at the meeting. Featured topics include tips on (i) following essential conference etiquette, (ii) making the best of a scientific meeting, (iii) navigating a national conference, (iv) establishing mentoring relationships, (v) learning about networking opportunities and techniques, and (vi) maximizing professional growth opportunities.

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, Making the Most of ABRCMS
Speaker
Sandra Murray, Ph.D., *University of Pittsburgh, Pittsburgh, PA*

Importance of Conference Evaluations and Conference Announcements
Speaker
Irene Hulede, *American Society for Microbiology, Washington DC*

Session 2 — Location: WSSC, 602 & 603

Getting Published: Advice for Graduate Students and Postdoctoral Scientists
(Recommended for graduate students, postdoctoral scientists, and early-career scientists)
Publishing your work is the key to expanding your success and influence in science. This session will help you choose a journal, prepare and submit your manuscript, deal with requests for revision, and cope with occasional rejection. It will also explain the ethics of scholarly publishing, including those related to authorship, multiple submissions, and redundant publication. The session ends with a Q&A period.
Speaker
Victor DiRita, Ph.D., *Michigan State University, East Lansing, MI*

Session 3 — Location: WSSC, 604

Tracking Graduates in an Age of Emerging Social Media
In this time of connectivity, social media, and high-powered computing capabilities, gathering data and tracking program participants/graduates is a national challenge. Using formative and summative evaluation strategies provide a means to meeting this challenge. Gathering descriptive data on participants, making regular contacts with graduates, and distributing surveys to graduates are examples of strategies that can be used. This session will explore how the SREB-State Doctoral Scholars Program employs some of these strategies to meet this challenge. Active audience participation will be encouraged.
Speaker
Ansley Abraham, Ph.D., *SREB-State Doctoral Scholars Program, Atlanta, GA*

Session 4

Orientation for Judges *(All 12 Disciplines)*
(Mandatory for all student presentation judges)
Pick up your judging packet and learn the ins and outs of the ABRCMS judging process.

Judges needed! Attend this session if you are interested in serving as an ABRCMS judge.

- *Biochemistry* — Location: WSSC, 201
- *Cancer Biology* — Location: WSSC, 205
- *Cell Biology* — Location: WSSC, 203
- *Chemistry* — Location: WSSC, 204

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- *Developmental Biology and Genetics* — Location: WSSC, 206
- *Engineering, Physics and Mathematics* — Location: WSSC, 310
- *Immunology* — Location: WSSC, 307
- *Microbiology* — Location: WSSC, 303
- *Molecular Biology and Computational Biology* — Location: WSSC, 305
- *Neuroscience* — Location: WSSC, 210
- *Physiology* — Location: WSSC, 308
- *Social and Behavioral Sciences & Public Health* — Location: WSSC, 309

9:45 a.m. – 10:30 a.m. **PLENARY SCIENTIFIC SESSION** — Location: WSSC, 6E

Unraveling Smell

(co-sponsored by the American Society for Microbiology and Howard Hughes Medical Institute)

The sense of smell allows mammals to perceive myriad chemicals as having a distinct odor. It also mediates the detection of pheromones that elicit innate responses. How does the olfactory system detect so many different chemicals, and how does the nervous system translate those chemicals into diverse perceptions and behaviors? Using a combination of molecular, cellular, and genetic approaches, Linda Buck and colleagues have identified families of receptors that initially detect odorants and pheromones in peripheral sense organs, asked how those receptors encode the identities of different chemicals, and investigated how the signals they generate are routed and organized in the nervous system to yield distinct perceptions and instinctive responses.

Speaker

Linda B. Buck, Ph.D., *Fred Hutchinson Cancer Research Center, Seattle, WA*

Introducing Speaker

Mary Sanchez-Lanier, Ph.D., *University of Washington, Pullman, WA*

11:00 a.m. – 12:00 p.m. **CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS** *(seven session options)*

Session 1 — Location: WSSC, 6A

Picking the Perfect Ph.D. Program for You/Why Choose a School with a T32

(Recommended for undergraduates interested in the Ph.D. track)

Because pursuing a doctorate requires a major investment of time and energy – at least four years of working as hard as you have ever worked and deferring earnings – picking the Ph.D. program that will provide you with the best chance of success is crucial. Clearly you want a program with research strengths that match your interests. This workshop provides you with strategies for answering several important questions: Is the program structure compatible with my strengths and goals? How successful is the program at producing Ph.D.s? What careers are Ph.D.s from the program pursuing? Will the program provide me with the professional skills I need to succeed? Will I have the support I need to complete the program?

Speaker

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

Session 2 — Location: WSSC, 6C

M.D.-Ph.D. – Is It Right for Me?

(Recommended for undergraduates interested in the M.D.-Ph.D. track)

This session will provide you with information needed to (i) decide if the M.D.-Ph.D. is the correct pathway for you, (ii) prepare and plan for the M.D.-Ph.D. admissions process, and (iii) create and submit a competitive application packet. Other topics include school selection, criteria evaluated by M.D.-Ph.D. programs, necessary research experience, national program data, the interview process, matriculation, the M.D.-Ph.D. curriculum, and post-training pathways. The session ends with a Q&A period, and several M.D.-Ph.D. directors and administrators will be present to speak with students individually.

Moderator

Joseph T. Barbieri, Ph.D., *Medical College of Wisconsin, Director M.D.-Ph.D. Program*

Presenter

Juanita Merchant, M.D, Ph.D., *University of Michigan School of Medicine*

Panelists

- ***Myles Akabas, M.D., Ph.D M.D.-Ph.D.,*** *Program Director Albert Einstein College of Medicine*
- ***Stephanie Varela, M.D.-Ph.D. Student,*** *University of Washington-Seattle M.D.-Ph.D. Program*
- ***Raul Martinez, M.D.-Ph.D. Student,*** *Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional M.D./Ph.D. Program*
- ***Evida Dennis, M.D.-Ph.D. Student,*** *University of Alabama-Birmingham M.D.-Ph.D. Program*

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Session 3 Location: WSSC, 611 & 612

Graduate Opportunities in Public and Global Health Research

(Recommended for undergraduate juniors and seniors)

This session will draw on the natural sciences and mathematics, as well as economics and social and cultural sciences, to address public and global health research as a model for interdisciplinary education and training. Participants will learn about graduate opportunities in public health and global health research, including steps for pursuing advanced degrees and succeeding in the field.

Speakers

Jason Rao, Ph.D., *American Society for Microbiology, Washington, DC*
Ebony Allen, M.P.H., *Association of Schools and Programs of Public Health, Washington, DC*
Alle Taylor, *American Society for Microbiology, Washington, DC*
Beza Seyoum, Ph.D., *USAID/Washington, Bureau for Global Health, Washington, DC*

Session 4 Location: WSSC, 615

Community College Students: Tips for Transitioning to a Four-Year Institution

(Mandatory for community college students)

For many of you, this is probably your first national scientific conference. This session helps you maximize all the benefits that ABRCMS has to offer community college students. It emphasizes (i) tools for transitioning from a community college to a four-year institution (ii) what you will take back to your program or institution, (iii) how to take full advantage of both the scientific talks and the educational development sessions, (iv) ways you can "work" effectively with the exhibitors, and (v) how to maximize the many networking possibilities.

Speakers To Be Determined

Session 5 Location: WSSC, 601 & 603

How We Learn ... and How We Don't

(Recommended for all attendees)

Changes in the functional capacities of learners are visible manifestations of changes in the physical structure of the brain. Although we seldom think of learning experiences as brain-reorganization activities, they most certainly are precisely that. We will look at why formal education often fails to make substantive and lasting changes in how we think and behave, and we'll consider how to design learning experiences that lead to advantageous changes in cognition, affect, and behavior, all of which are components of expertise in every discipline.

Speaker

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

Session 6 Location: WSSC, 613 & 614

Strengths-Based STEM Pipeline Interventions

(Recommended for exhibitors, faculty and program directors)

This presentation provides a better understanding of strengths-based pipeline interventions that broaden participation in science, technology, engineering and mathematics (STEM). Increasingly, STEM interventions broaden participation at the PK-12, undergraduate, and graduate/professional levels. Strengths-based STEM interventions go beyond deficit remediation to: (A) build on personal strengths of underrepresented participants; (B) address systemic barriers that impede their success; and (C) transform academic and social support environments to further promote successful outcomes, especially during critical pipeline transitions (high school-to-college, undergraduate-to-graduate studies, and advanced degrees-to-careers). This presentation has three major goals to promote diversifying STEM fields in the 21st century: (1) to highlight core elements of strengths-based approaches; (2) to spotlight exemplary strengths-based intervention strategies for major STEM target populations [a] underrepresented minorities [e.g., Meyerhoff Scholars Program], [b] women [e.g., NSF-ADVANCE], and [c] first-generation students [e.g., Carolina Covenant]; and (3) to promote NIH-NIGMS-sponsored initiatives that can further clarify core elements of strengths-based STEM interventions.

Speaker

Phillip J. Bowman, Ph.D., *University of Michigan, Ann Arbor, MI*

Session 7 Location: WSSC, 604

Science for All, One Microbiome at a Time – Course-based Authentic Research Experience for Undergraduates

(Recommended for faculty and program administrators)

The affordability of next-generation sequencing, combined with metagenomic strategies, has opened the door to an exciting range of research projects that can be incorporated into undergraduate courses. The Authentic Research Experience in Microbiology (AREM) program offers students a chance to explore their environment and the role of the microbial communities present. The students develop questions that they can address by sampling and analyzing these microbial communities. Students collect samples around campus from indoors or outdoors, ranging from swabbed surfaces to soil and water. Sequence data from these samples contain tens

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of thousands of reads representing hundreds of microorganisms present in complex communities. By interpreting the data, students develop their quantitative analysis and critical thinking skills. By using the AREM protocols and resources, faculty can incorporate the AREM microbiome research project into existing courses. The flexible AREM format is suitable for courses targeting majors, non-majors or taught in four-year schools or community colleges.

Speakers

Theodore R. Muth, Ph.D., *Brooklyn College, CUNY, Brooklyn, NY*

12:15 p.m. – 1:00 p.m. **Networking Lunch**

12:50 p.m. – 1:15 p.m. **Happy 15th Anniversary ABRCMS! Anniversary Remarks** Location: WSSC, 4A/4B

Speaker

Clifford W. Houston, Ph.D., *University of Texas Medical Branch, Galveston, TX*

1:15 p.m. – 2:00 p.m. **PLENARY SCIENTIFIC SESSION** Location: WSSC, 4A/4B

The Future of Biomedical Research and Training

The National Institute of Health's National Institute of General Medical Sciences (NIGMS) has an annual budget of over $2.3 billion that supports fundamental biomedical research and training at universities, medical schools, and other institutions throughout the country. The undergraduate educational programs that NIGMS manages include Maximizing Access to Research Careers (MARC), Initiative for Maximizing Student Diversity (IMSD), and Research Initiative for Student Enhancement (RISE). NIGMS also supports graduate student training, which funds M.D./Ph.D. students around the country. In this session, NIGMS director Jon Lorsch will discuss the institute's efforts to improve its efficiency and effectiveness in supporting biomedical research. Lorsch will also discuss how NIGMS is working to catalyze innovation and experimentation in biomedical education, as well as ways the Institute hopes to more effectively promote the careers of junior scientists.

Speaker

Jon R. Lorsch, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

Introducing Speaker

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

2:00 p.m. – 2:15 p.m. **Question and Answer with Jon Lorsch**

2:15 p.m. – 6:30 p.m. **Exhibits Open**

2:30 p.m. – 3:45 p.m. **POSTER SESSION 1** Location: WSSC, Exhibit Hall

4:00 p.m. – 5:15 p.m. **POSTER SESSION 2** Location: WSSC, Exhibit Hall

5:30 p.m. – 6:30 p.m. **Oral Presentation Sessions 1 – 12** *(All 12 Disciplines)*

Oral Session 01: Biochemistry Location: WSSC, 606 & 607

O001 Protein:RNA Interactions that Nucleate HIV-1 Viral Assembly
Briaunna Minor, *Xavier University of Louisiana, New Orleans, LA*

O002 Affinity Reagents that Recognize PhosphoThreonine Targets
Oluwadamilola Bankole, *University of Illinois at Chicago, Chicago, IL*

O003 ACLP Signaling Enhances Adipose Progenitor Differentiation into Myofibroblasts
Myrtle Bryant, *Claflin University, Orangeburg, SC*

O004 Stabilization of the HIV-1 RNA Genome's 5'-Untranslated Region (5'-UTR) Monomer Conformer in Sodium Acetate Buffer
Seung Ho (Steven) Choi, *University of Maryland, Baltimore County (UMBC), Baltimore, MD*

Session Moderator: ***Charles Bevins, M.D., Ph.D.,*** *University of California, Davis, CA*

Oral Session 02: Cancer Biology Location: WSSC, 616

O005 Neonatal Ultraviolet Radiation Exposure and Disruption of the Nucleotide Excision Repair Pathway Enhance Melanomagenesis in K5-Edn3 Mice
Diana Cardero, *Florida International University, Miami, FL*

O006 Common Jamaican Herbal Medicine, Bizzy Nut, Inhibits Cell Cycle in Prostate Cancer Cells
Anne Chumbow, *Southern University and A & M College, Baton Rouge, LA*

O007 What Is the Role of the DNA-repair Gene Rad51c (fanco) in Zebrafish Development?
Heather Chorzempa, *University of Oregon, Eugene, OR*

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O008 Centromeric Association of Evolutionary Conserved Polo-Like Kinase CDC5 Regulates Faithful Chromosome Segregation
Ziad Jowhar, *Emory University, Atlanta, GA*

Session Moderator: ***Juanita Merchant, Ph.D.,*** *University of Michigan, Ann Arbor, MI*

Oral Session 03: Cell Biology

Location: WSSC, 617

O009 Role of Ubiquitin Specific Protease 20 in Tumor Necrosis Factor Receptor-Dependent Signaling
Lemuel Hackshaw, *Oakwood University, Huntsville, AL*

O010 Stromal Cell-Derived Factor 1-Alpha Analogue CTCE-0214 Regulates Endothelial Barrier Function through microRNA 126
Gabriel Carrillo, *Clemson University, Clemson, SC*

O011 The Role of Protein Kinase C and Phospholipase D in Morphogenesis in *Dictyostelium discoideum*
Annelie Aguessy, *Hunter College of CUNY, New York, NY*

O012 FDG PET/CT Staging for Patients with Triple Negative Breast Cancer
Raychel Castillo, *Hunter College, New York, NY*

Session Moderator: ***Brent Berwin, Ph.D.,*** *Dartmouth Medical Center, Lebanon, NH*

Oral Session 04: Chemistry

Location: WSSC, 619 & 620

O013 Computational Study of the Decarboxylation Reaction of Aminomalonic Acid
Alycia Lewis, *Central State University, Wilberforce, OH*

O014 Molecular Dynamics of Excimer Formation in Pyrene Molecules
Avery Blockmon, *Oakwood University, Huntsville, AL*

O015 Mechanism of the Oxidation of a Cobaloxime by Bromine and Sodium Hypochlorite in Aqueous Media
Lorne Joseph, *University of the Virgin Islands, St. Thomas, U.S. Virgin Islands*

O016 Small Molecule Agents for Tumor Targeting
Amanda Ramdular, *CUNY Hunter College, New York, NY*

Session Moderator: ***Marco Lopez, Ph.D.,*** *California State University, Long Beach, CA*

Oral Session 05: Developmental Biology and Genetics

Location: WSSC, 613 & 614

O017 Examining Genome Differentiation of Old and New World *Anas platyrhyncos*
Krislen Tison, University of the Virgin Islands, *St. Thomas, U.S. Virgin Islands*

O018 Jun Kinase Signal Transduction Is a Target of Developmental Ethanol in *Drosophila melanogaster*
Danielle Dillard, *San Jose State University, San Jose, CA*

O019 Identification of a Genetic Variant in GLIS1 that Reproducibly Associates with Diabetic Nephropathy in American Indians
Aleida Fernandez-Rubio, *University of California, Davis, CA*

O020 Testing the Role of Error-Prone DNA Polymerases in Genetic Instability of Gene Duplications
Cedric Clark, *University of Kansas, Lawrence, KS*

Session Moderator: ***DiAnna Hynds, Ph.D.,*** *Texas Woman's University, Denton, TX*

Oral Session 06: Engineering, Physics and Mathematics

Location: WSSC, 611 & 612

O021 The Effect of Ionic Solution Composition and Concentration on the Stability of Titanium Dioxide Nanoparticles
Aleksander Piasecki, *Penn State University, State College, PA*

O022 Synthesis and Characterization of Palladium Nanoparticle Doped 3D Graphene Nanosheets for Use as Electrocatalyst Supports in Fuel Cells
Sean Najmi, *University of New Mexico, Albuquerque, NM*

O023 Investigating the Diffusion Constant for a Planar Gradient Chemotaxis Chamber to Understand Cell Migration
Gina Vimbela, *California State University, Long Beach, CA*

O024 The Application of BioHeat Perfusion Sensors to Quantify Pressure Ischemia of Explanted Organs
Ali Roghanizad, *Virginia Tech, Blacksburg, VA*

Session Moderator: ***Michael Ehi Ayewoh, Ph.D.,*** *Howard University Capstone Institute, Washington, DC*

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Oral Session 07: Immunology

Location: WSSC, 604

O025 Neuroprotective Role of Galectin-1 on the Neuropathogenesis of HIV-1
Courtney Mangum, *Tougaloo College, Tougaloo, MS*

O026 Translational Research of Neutrophil and Leukocyte Platelet Aggregate Markers of Inflammation in Ischemic Stroke
Tatiana Jerome, *University of Arizona, Tucson, AZ*

O027 Astrocyte Derived Exosomes Enter the Periphery and Induce Acute Systemic Immune Response to CNS Inflammation
Marlene Kanmogne, *Johns Hopkins School of Medicine, Baltimore, MD*

O028 Differential Gene Expression of Peripheral Blood Mononuclear Cells Induced by the Ebola Virus Infection
Nathaniel Akingbemi, *University of California, Riverside, CA*

Session Moderator: ***Avery August, Ph.D.,*** *Cornell University, Ithaca, NY*

Oral Session 08: Microbiology

Location: WSSC, 6A

O029 Investigation of Possible PilR-Regulated Promoters in *Myxococcus xanthus*
Troy King, *Oklahoma State University, Stillwater, OK*

O030 Role of PARP-1 in NFκB-Induced Activation of the HIV-1 Promoter
Elias Farran, *University of Texas at El Paso, El Paso, TX*

O031 OhrR of *Mycobacterium smegmatis* Senses Intracellular Oxidative Stress
Omar Garnica, *The University of Texas at El Paso, El Paso, TX*

O032 Unraveling the Role of RCK/p54 Interactions with Decapping Complex Proteins and Effects on the Hepatitis C Virus Infection
Deniece Brown, *The State University of New York at Albany, Albany, NY*

Session Moderator: ***Alfredo Torres, Ph.D.,*** *University of Texas Medical Branch, Galveston, TX*

Oral Session 09: Molecular and Computational Biology

Location: WSSC, 615

O033 Novel Cryptic Peptides as Virulence Factors in CA-MRSA
Dominic McGrosso, *California State University, San Marco, CA*

O034 Bioinformatics Discovery of Gene Pathways Associated with Immune Response in the Brain
Tania Borras-Pacheco, *Universidad del Este, Carolina, PR*

O035 Mutant Sirtuin Functions with Limited NAD+ and Extends Life Span
Virginia Adams, *Massachusetts Institute of Technology, Cambridge, MA*

O036 Roles of CDP-1 in Heterochromatin Formation in *Neurospora crassa*
Carissa Kim, *University of Oregon, Eugene, OR*

Session Moderator: ***Marlene de la Cruz, Ph.D.,*** *University of California, Irvine, CA*

Oral Session 10: Neuroscience

Location: WSSC, 608 & 609

O037 Elucidating the Neural Structures that Mediate the Prosocial Response in Rats
Jay Gupta, *University of California, Berkeley, CA*

O038 Role of a Cell Cycle Regulator in Subcortical Parvalbumin Interneurons: Implication for Schizophrenia
Andres Villegas, *Rutgers University, New Brunswick, NJ*

O039 Mitochondrial Energetics Goes Awry in Higher-Order Brain Circuitry When Growing up with Secondhand Smoke
Liam Lewis, *Virginia Commonwealth University, Richmond, VA*

O040 Investigation into the Role of Raldh2 in Inflammation and Remyelination in the CNS
Alisha Dua, *Georgetown University, Washington, DC*

Session Moderator: ***Richard King, Ph.D.,*** *University of Utah, Salt Lake City, UT*

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Oral Session 11: Physiology Location: WSSC, 618

O041 Investigating the Synergistic Effects of Chlorpyrifos and Cadmium Neurotoxicity in Alpha-Synuclein Overexpressing Dopaminergic Cell Model of Parkinson's Disease
Mina Huerta, *Oberlin College, Oberlin, OH*

O042 Dietary Modulation of Insulin Sensitivity in Antioxidant Excess Mice
Jonique George, *The University of the Virgin Islands, St. Thomas, U.S. Virgin Islands*

O043 Comparing Liposomal and Plain Bupivacaine for Nerve Blockade in Minimally Invasive Thoracic Surgery
Emilia Rakhamimova, *Hunter College, New York, NY*

O044 The Effect of Obesity and Insulin Resistance on Reproductive Function in Early Pubertal Boys
Maggie Tsang, *University of California, Berkeley, CA*

Session Moderator: ***Latanya Hammonds-Odie, Ph.D.,*** *Georgia Gwinnett College School of Science and Technology, Lawrenceville, GA*

Oral Session 12: Social and Behavioral Sciences and Public Health Location: WSSC, 602 & 603

O045 Traumatic Loss: Adverse Childhood Experiences, Parental Risk Factors, and Mental Health Diagnoses
Diane Kim, *American University, Washington, DC*

O046 The Impact of Patient-Physician Language Concordance on Quality of Care and Outcomes
Karen Izquierdo, *Hunter College, New York, NY*

O047 The Influence of Racial Discrimination on the Relationship between John Henryism, Hypertension and Blood Pressure
Dakarai Chisolm, *Morgan State University, Baltimore, MD*

O048 High School Athletes' Perceptions of the Motivational Climate in Summer Conditioning Programs
Jacob Chamberlin, *University of Kansas, Lawrence, KS*

Session Moderator: ***C. Debra M. Furr-Holden, Ph.D.,*** *Johns Hopkins University, Baltimore, MD*

6:45 p.m. – 7:30 p.m. **Networking Dinner**

8:00 p.m. – 9:30 p.m. **PROFESSIONAL DEVELOPMENT SESSIONS** *(four session options)*

Session 1 Location: WSSC, 6B

Gateway to the Future: Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences – Conversations with Scientists
(co-sponsored by the American Society for Microbiology and Procter & Gamble)
(Recommended for undergraduate, postbaccalaureate, and graduate students)
In this session, research scientists from a variety of career sectors will engage students in small group discussions focused on "a day in the life of a research scientist." The session will explore the wide variety of careers available in the biomedical sciences, the physical sciences, engineering, and the behavioral sciences, as well as the many types of training that can help students reach their goals. Scientists will discuss their career pathways, educational backgrounds, what they enjoy about their work, and their strategies for professional and personal life balance. Participants will gain a clearer understanding of why graduate training (including postbaccalaureate, master's, and doctoral programs) is the gateway to future opportunities. Career sectors include pharma/biotechnology/industry, media/communications/nonprofits, research-intensive academic/staff scientists, undergraduate teaching academic/community colleges, MD-Ph.Ds. in academic health centers (medical schools), and government/policy/foundation/law.
Speakers
Representatives from various career pathways

STEM Career Choices: What's Available and How to Succeed

Moderator,
Maiysha Jones, Ph.D, *Procter & Gamble, Cincinnati, OH*

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Thursday, November 12, 2015

Session 2 Location: WSSC 613 & 614

High-Caliber Research at Non-research Institutions: Models of Effective Undergraduate Research Programs

(Recommended for faculty and program administrators)

Over the past decade, there has been a strong push to provide more authentic research experiences for students at their home colleges, many of which are not research-focused (Research I) institutions. Despite challenges, there are numerous models of success at non-traditional research institutions. In this session, panel representatives from various liberal arts universities, minority-serving institutions, and community colleges will share their perspectives on creating successful undergraduate research programs. Panelists will describe:

- How to build and sustain undergraduate research programs
- The roles of collaboration, partnerships (internal and external), and funding to success
- Unique barriers and obstacles to implementation at the host institution
- Program effectiveness and impact, along with examples and success stories
- Lessons learned and best practices about starting a new research program at their institution type

Speakers

James Hewlett, Ph.D., *Finger Lakes Community College, Canandaigua, NY*
Karla-Sue Marriott, Ph.D., *Savannah State University, Savannah, GA*
Douglas Stevens, Ph.D., *Salish Kootenai College, Pablo, MT*

Moderator

Alvin Holder, Ph.D., *Old Dominion University, Norfolk, VA*

Session 3

NIGMS Program Director Discussions

This is a meeting of all TWD program directors. Meetings will be arranged by program areas and held in separate rooms assigned by TWD programs.

PREP Program Facilitator Location: WSSC 307
Michael Bender, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

IMSD Program Facilitator Location: WSSC 309
Dan Janes, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

T32 Program Directors Facilitator Location: WSSC 305
Richard Okita, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

RISE and Bridges Program Facilitator Location: WSSC 310
Alexandra Ainsztein, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

Bridges Program Facilitator Location: WSSC 304
Michelle Hamlet, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

IDeA and SCORE Program Facilitator Location: WSSC 308
Krishan Arora, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

MARC and F31 Program Facilitator Location: WSSC 303
Shawn Gaillard, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

BUILD/NRMN/CEC Program Facilitator Location: WSSC 302
Richard Okita, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

Session 4

Graduate Students and Postdoctoral Scientists Networking Mixer Location: Sheraton Seattle Hotel, Cirrus

(co-sponsored by the University of Alabama at Birmingham and Keystone Symposia)

Graduate students, postdoctoral scientists, and recruiters of postdoctoral positions are invited to this mixer, a great opportunity to share experiences, relax, and network. This event is NOT open to undergraduates or postbaccalaureates.

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

7:00 a.m. –7:45 a.m. Continental Breakfast

7:30 a.m. – 8:15 a.m. PLENARY SCIENTIFIC SESSION — Location: WSSC, 4A & 4B

Ebola and Beyond: Emerging Viruses in a Globalized World

The horrific Ebola epidemic of 2014, now in decline but not yet extinguished, is not an isolated event. It's only the most recent and dramatic episode in a broader pattern: the pattern of what scientists call "zoonotic" disease. In plain words: the emergence of dangerous viruses (and other disease-causing bugs) from nonhuman animals into human populations, causing outbreaks and epidemics and threatening global pandemic. The list of these scary viruses, which have emerged over recent decades, is long and exotic: Machupo in Bolivia, Marburg in Germany (but brought from Uganda), Ebola in the Congo and other parts of Africa, Hendra in Australia, Nipah in Malaysia, SARS in China, MERS in Saudi Arabia, and many more. All of these viruses have emerged suddenly from animals of various sorts: rodents, bats, monkeys, and others. What's going on? Do the zoonotic disease dots on the world map represent independent events, or are they related to one another as effects of wider forces and trends? In other words, are these outbreaks simply *happening* to us, or do they reflect things we humans are *doing*? In this talk, David Quammen, a three-time recipient of the National Magazine Award, will explore the dynamics of this phenomenon—the phenomenon of zoonotic diseases—and of Ebola especially, in hopes of getting beyond the fearful headlines to illuminate a broader, scientific context, and discussing what the future may hold.

Speaker

David Quammen, *Science journalist and prize winning author*

8:15 a.m. – 8:20 a.m. Question and Answer with David Quammen — Location: WSSC, 4A & 4B

8:30 a.m. – 9:15 a.m. CONCURRENT SCIENTIFIC SESSIONS *(eight session options)*

Session 1 — Location: WSSC, 615 & 616

Using Statistics to Make Sense of Biomedical Big Data

This session highlights the use of statistical and quantitative methods in various biological studies. Three experts in the field will describe applications of statistical methods to (i) understand human ancestry and diseases from genetic data, (ii) predict diseases and responses to treatment from electronic medical records, and (iii) discover new patterns of brain activity from functional imaging data. By showcasing different applications of statistics in diverse areas of biology, this session aims to highlight the role of statistical and quantitative methods in biomedical studies.

Speakers

Tim Thornton, Ph.D., *University of Washington, Seattle, WA*

Susan Shortreed, Ph.D., *Global Health Research Institute, Seattle, WA*

Introducing Speakers

Ali Shojaie, Ph.D., *University of Washington, Seattle, WA*

Session 2 — Location: WSSC, 6A

Sickle Cell Disease, Strokes, and Biomedical Engineering

Sickled red blood cells were first viewed under a microscope in 1910, more than a hundred years ago, and there are still limited treatment options for this genetic disease that affects 1 in 400 African-Americans in the United States but millions worldwide. Of children born with sickle cell disease, 11% will have a major stroke by age 16, and 30-35% will have a silent stroke impairing cognitive abilities; many will experience significantly reduced life expectancy. Mechanisms behind this accelerated arterial remodeling and lesion formation in the cerebral arteries that supply blood to the brain are not clear, but here we will discuss our recent findings that not only is the chronic inflammation caused by damage due to the stiff, sickled red blood cells to tissue, but also it is due to disturbed blood flow caused by the stiff, dense sickle red blood cells. Biomedical engineers consider the biochemical and the biomechanical stimuli that drive cell behavior, and these will be discussed with novel approaches used to identify novel mechanisms and pharmaceutical. This session will discuss a class of proteases that are potent enzymes that degrade elastin in the artery wall, are regulated by both the unique biochemical and biomechanical stimuli caused by sickle cell disease, and may be novel pharmaceutical targets to prevent the pathological remodeling that puts these children at risk.

Speaker

Manu Platt, Ph.D., *Georgia Institute of Technology, Atlanta, GA*

Introducing Speaker

Kelly Diggs - Andrews, Ph.D., *American Society for Microbiology, Washington, DC*

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Session 3 Location: WSSC, 613 & 614

A Toxicologist's Quest to Balance Adverse Effects and Desirable Outcomes During Drug Development

(Sponsored by the Society of Toxicology)

Toxicology is the study of the adverse effects of chemical, physical, or biological agents on people, animals, and the environment. Toxicologists are scientists trained to investigate, interpret, and communicate the nature of these adverse effects, and this skill is particularly useful during drug discovery. In this setting, toxicologists are expected to use their unique expertise to decrease patient risks to efficacious drugs. This session will highlight "mechanism-driven" nonclinical examples of cell signaling pathways that are targets for anticancer drugs and are associated with toxicities in normal tissues. Nonclinical and clinical strategies for managing these issues will be presented. *Saccharomyces* present challenges associated when combinations of drugs must be employed for effective treatment. The main goal is to provoke deep mechanistic understanding about the toxicities of anticancer therapies and discuss how this understanding can ultimately benefit cancer patients.

Speaker

Myrtle Davis, D.V.M., Ph.D., *National Cancer Institute, NIH, Bethesda, MD*

Introducing Speaker

Marquea King, Ph.D., *U.S. Environmental Protection Agency (EPA), Washington, DC*

Session 4 Location: WSSC, 611 & 612

Glycoprotein Team Burglary: Entry and Exit of the Deadly Zoonotic Nipah Virus

(Sponsored by the American Society for Microbiology)

Emerging viruses represent high levels of concern for global human and animal health. Viral entry into cells, assembly in cells, and exit from cells are very important processes during the viral life cycle. Among other accomplishments, Hector Aguilar-Carreno's research program has developed several new techniques to study how viral entry into cells is triggered by viral attachment to host cell receptors. His primary research is in understanding the (i) mechanisms of entry of enveloped viruses into mammalian host cells; (ii) multidisciplinary approaches to study viral-cell and cell-cell membrane fusion, a pathognomonic phenomenon for some viruses; (iii) mechanisms of viral assembly and exit from mammalian host cells; and (iv) Nipah and Hendra viruses as model systems. Aguilar-Carreno believes that a combination of multidisciplinary approaches will lead to antiviral and vaccine strategies that may be applicable beyond the emerging zoonotic viruses he studies. These discoveries are likely to have profound effects on global human and animal health.

Speaker

Hector Aguilar-Carreno, Ph.D., *Washington State University, Pullman, WA*

Introducing Speaker

Beronda Montgomery, Ph.D., *Michigan State University, East Lansing, MI*

Session 5 Location: WSSC, 602 & 603

Splicing and Microbial Sex: How a Chromatin-Remodeling Protein Acts as the Master Regulator of pre-mRNA Splicing During Meiosis

RNA splicing, the removal of noncoding intron sequences from newly-synthesized RNA molecules, is critical for the proper expression of genes in all eukaryotic cells. This process is carried out by a large macromolecular machine, "the spliceosome," made up of five small nuclear RNAs and over 100 proteins. The discovery that spliceosome assembly occurs co-transcriptionally, while RNA polymerase is engaged with the chromatin-template, suggests that chromatin modifications may regulate splicing. Because of its genetic and biochemical tractability, the yeast *Saccharomyces cerevisiae* has served as a beautiful model system for studying splicing and its regulation. Here we describe new insights into how the activity of a chromatin-remodeling complex regulates pre-mRNA splicing in yeast to control the cell's ability to undergo the crucial and evolutionarily conserved process of meiosis.

Speaker

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

Introducing Speaker

Olivia Harriott, Ph.D., *Fairfield University, Fairfield, CT*

Session 6 Location: WSSC, 606 & 607

Coordinating the Stress Response: Mechanisms Regulating Steroid Hormone Production

Steroid hormones are a family of molecules that include cortisol, estradiol, testosterone, and progesterone. They are key regulators of a diverse array of physiological processes, including sodium homeostasis, endocrine development, the immune system, and reproduction. These molecules allow tissues to respond in a coordinated manner to changes in the internal and external environments by functioning as ligands for both nuclear and plasma membrane receptors. Because steroid hormones control the expression of numerous genes in virtually all cell types, steroidogenic cells utilize multiple mechanisms that ensure tight control of the synthesis of these molecules. Major goals of our research are to elucidate the mechanisms that control steroid hormone production and to

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understand how aberrant hormone secretion contributes to pathophysiological states. Our ongoing research projects entails using a variety of approaches, including mass spectrometry, microscopy, molecular and biochemical assays to define the mechanism by which signaling pathways regulate hormone biosynthesis.

Speaker

Marion Sewer, Ph.D., *University of California-Davis, Davis, CA*

Introducing Speaker

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

Session 7 Location: WSSC, 608 & 609

The Neurobiology of Depression and Antidepressant Action: Role of G Proteins, the Cytoskeleton and Lipid Rafts

One in six of us will suffer from depression at some time in our lives. The World Health Organization estimates that, by 2020, depression will be the leading cause of disability worldwide. Unfortunately, the biological basis of depression is not clear, and this lack of knowledge leads to many biases against those who suffer. Further, most antidepressants require several weeks of treatment before therapeutic efficacy is established, time that can be tortuous to those who suffer. Finally, while there may be identified targets for many antidepressant drugs, it is not clear how they actually work. Using cultured neural and glial cells along with fluorescent versions of G proteins and structural proteins, we have developed both a consistent biological hallmark of antidepressant action as well as a cellular "signature" for depression.

Speaker

Mark Rasenick, Ph.D., *University of Illinois, Chicago, IL*

Introducing Speaker

Richard King, M.D./Ph.D., *University of Utah, Salt Lake City, UT*

Session 8 Location: WSSC, 619 & 620

Health Disparities in the United States: What Do We Know about African American Men's Health?

The elimination of health disparities and the improvement of overall population health are top public health priorities encompassed within the 10-year goals of Healthy People since its inception. However, there has been only modest progress over the past three decades, and substantial disparities persist by both race and gender. At the intersection of race and gender are African American men who have the worst health profile of all American subgroups, bearing earlier onset of disease, more progressed illness, and premature mortality. Yet, there is a paucity of knowledge about the health and health trajectory of African American men in the United States. The goal of this presentation is to provide an overview of African American men's health and discuss future directions.

Speaker

C. Debra Furr - Holden, Ph.D., *Johns Hopkins University, Baltimore, MD*

9:45 a.m. – 10:45 a.m. **CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS** *(seven session options)*

Session 1 Location: WSSC, 608 & 609

Mentoring 101

(Recommended for undergraduate, postbaccalaureate, and master's students)

Part 1: Picking Your Graduate Mentor – A Critical Undertaking

Selecting your mentor is perhaps the most critical decision of your doctoral or postdoctoral career. Your mentor is focal to your success. But selecting one is not just the about the mentor's research area or scholarly accomplishments. There are many other factors to consider in making your selection. These include a good lab climate, success of the mentor's past trainees, funding for your research, etc. This session will consider the range of things you need to consider in selecting a mentor, and provide guidance in how to actually go about the selection process.

Speaker

Arthur Popper, Ph.D., *University of Maryland–College Park, College Park, MD*

Part 2: Proactively Managing Your Relationship with Your Research Mentor by Assessing and Applying Your Communication Strengths

As a young scientist, your relationship with your research mentor is the most vital one of your academic career. It is essential to learn how to "mentor up," i.e., proactively manage the relationship by assessing your communication strengths and applying them strategically. The concept of mentoring up is adapted from the business world's concept of managing up. In this session, critical skills in mentoring up will be presented for interactive discussions. Participants will take a brief self-assessment test and discuss a case study of a mentee learning how to mentor up.

Speaker

Steven P. Lee, Ph.D., *University of California–Davis, Davis, CA*

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Session 2 Location: WSSC, 6C

Goal Setting and Time Management

(Recommended for all attendees)

Setting goals is an excellent way to provide you with direction and purpose. The more you can clearly define your goals (and revise them as needed), the more likely you are to achieve success. Goals can help you to channel your energy towards meaningful activities as you continue along your journey. The purpose of this workshop is to help you accomplish your goals through an organized process made easy for you.

Speaker

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

Session 3 Location: WSSC, 606 & 607

Solving for S: Variables in the Success Equation

(Recommended for undergraduate and graduate students and faculty and administrators who are planning program elements to assist their students)

Academe can be daunting place. Whether you are an undergraduate or graduate student, postdoctoral fellow or early-career faculty member, the road to graduation or promotion can often seem endless. Questions like, *"Am I making progress?"* or *"Am I doing the right things to succeed?"* produce great anxiety and discourage many talented people. There are unwritten rules that may determine your destiny. What if there was a formula for academic success–a practical formula, where all you have to do is solve the equation? This presentation explores the components of a formula for academic success, derived from interactions with more than 10,000 students and professors. This formula serves as a compass and radar for anyone navigating the uncharted terrain of the academy. Participants will increase their ability to leverage their environment, optimize their impact, and maximize their chances of achieving academic success.

Speakers

Renetta Tull, Ph.D., *University of Maryland–Baltimore County, Baltimore, MD*

Damon L. Tull, Ph.D., *ASEP, CSM, Co-author of* A Formula for Success

Session 4 Location: WSSC, 619 & 620

The Business of Science: Leveraging Your Scientific, Business, and Social Identities to Be Competitive in Today's Job Market

(Recommended for graduate students, postdoctoral scientists, and faculty)

This SciPhd training workshop introduces 24 business competencies valued in industry, relates them to postdoctoral research experiences, and demonstrates how to identify and relate them to job ads and descriptions. We will also discuss industry's perceived strengths and weaknesses of academic scientists, along with how to leverage this knowledge and your own real capabilities to advance your career. The session will discuss the kinds of companies and jobs available for scientists, developing your personal brand (your scientific, business, and social identities), and relating the scientific method to common business.

Speaker

Randall Ribaudo, Ph.D., *Human Workflows, Rockville, MD*

Session 5 Location: WSSC, 604

Navigating Your Way into a Postdoctoral Position and Having a Successful Postdoctoral Experience

(Recommended for doctoral-level graduate students and postdoctoral scientists)

This session will focus on the many critical issues that graduate students and postdoctoral scientists face when selecting first and second postdoctoral positions. These issues include securing funding, expected duration, racial and ethnic composition of the postdoctoral pool, health care and other benefits, job responsibilities, and career development activities. The forum will encourage candid conversations focused on everything that graduate students and postdoctoral scientists want to know but are afraid to ask.

Speaker

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

Session 6 Location: WSSC, 615 & 616

Funding Your Education and Training: Hear from the Experts

(Recommended for undergraduate seniors, graduate students, postdoctoral scientists, and early-career scientists)

This session offers an overview of the best practices for preparing, writing, and submitting NIH, NSF, and foundation grant proposals. Although many of the basic strategies for preparing proposals apply to all funding sources, each funder has its own proposal style, submission process, and evaluation system. Attend this session to learn about the lifecycle of grant proposals, factors influencing funding decisions, and tips that will help you organize proposals and avoid pitfalls.

Speakers

Alison Gammie, Ph.D., *National Institutes of Health, Bethesda, MD*

Giselle Muller Parker, Ph.D., *National Science Foundation, Arlington, VA*

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Victoria McGovern, Ph.D., *Burroughs Wellcome Fund, Research Triangle Park, NC*
Clifton Poodry, Ph.D., *Howard Hughes Medical Institute, Chevy Chase, MD*
Keisha John, Ph.D., *University of Virginia, Charlottesville, VA*

Moderator
Keisha John, Ph.D., *University of Virginia, Charlottesville, VA*

Session 7 Location: WSSC, 611 & 612

Expert Roundtable: How to Navigate the NIH Grants and Peer Review Systems
(Recommended for faculty and program directors)
In this session, a panel of NIH experts will provide 10- to 15-minute presentations and answer participant questions about the following topics:

- Discovering How the NIH Grants System Works
  Darren Sledjeski, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*
- Finding NIH Funding Opportunities Right for You
  Mercedes Rubio, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*
- Writing a Successful NIH Grant Application
  Richard Okita, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*
- Navigating the NIH Peer Review Process and Jumpstarting Your Career with Review Experience
  Anna Riley, Ph.D., *Center for Scientific Review, NIH, Bethesda, MD*
- Q&A Roundtable Discussion
  Michael Sesma, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

10:45 a.m. – 12:15 p.m. **Exhibits Open**

11:00 a.m. – 12:00 p.m. **Meet and Greet with Speakers**

11:00 a.m. – 12:15 p.m. **POSTER SESSION 3** Location: WSSC, Exhibit Hall

12:30 p.m. – 1:15 p.m. **Networking Lunch**

1:15 p.m. – 2:00 p.m. **PLENARY SCIENTIFIC SESSION** Location: WSSC, 4A & 4B

Translational Studies on the Impact of Chronic Alcohol Abuse on HIV/AIDS
Chronic alcohol consumption is the most common and costly form of drug abuse in the United States. Approximately 7% of the adult population meets the diagnostic criteria for alcohol use disorders (AUD). According to the CDC, an estimated 872,990 persons in the United States were living with HIV at the end of 2010 and approximately 50% of them had an AIDS diagnosis. Patient mortality has been significantly reduced with antiretroviral therapy (ART), and HIV infection has emerged as a chronic disease that frequently coexists with alcohol abuse. AUD and HIV frequently coexist in the same individual. The biomedical consequences of chronic alcohol consumption on disease progression have significant implications for clinical HIV disease progression and add to the existing body of knowledge about the multiple negative effects of AUD in HIV+ patients, including decreased adherence to and effectiveness of ART and enhanced susceptibility to infection and viral replication. This session will provide an overview of studies performed by an interdisciplinary team of investigators using an integrative physiological approach to examine the interaction of chronic alcohol consumption on disease progression.
Speaker
Patricia E. Molina, M.D., Ph.D., *Louisiana State University Health Sciences Center, New Orleans, LA*

Introducing Speaker
John Fitzgerald Gates, Ph.D., *Criticality Management Consulting, New York, NY*

2:30 p.m. – 3:30 p.m. **CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS** *(seven session options)*

Session 1 Location: WSSC, 6C

Effective Personal Statement for Getting into Highly Competitive Graduate Schools and Summer Programs
(Recommended for undergraduate, postbaccalaureate, and master's students)
What are graduate programs in the sciences looking for in an applicant? Find out in this session, which will focus on finding programs, using ranking systems smartly, getting better recommendations, selecting work samples, making critical connections with potential mentors, writing awesome statements of purpose, and learning how to get full funding and go to school for free. Get tips on writing effective statements for graduate school and/or summer program applications from presenters who have written many

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personal statements during their careers, read thousands of submitted statements, and helped many early-career students to write great statements. Bring a copy of a personal statement that you are working on.

Speakers

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

Session 2 Location: WSSC, 6A

Outclass the Competition! Etiquette Training

(Recommended for all attendees)

This dynamic seminar will show you how to use the ultimate business tool – protocol and etiquette intelligence – to distinguish yourself from the competition: make an entrance, work a room, and improve your mingling proficiency. Learn the importance of hand-shaking (the ultimate greeting), introductions, and eye signals, and become skilled at effective business meal tactics, such as silverware savvy and dining dos and don'ts.

Speaker

Patricia Minor, *Etiquette School of Maryland, Ellicott City, MD*

Session 3 Location: WSSC, 606 & 607

Effective Interviewing Skills and Job Offer Negotiation

(Recommended for junior faculty, postdoctoral scientists, and senior graduate students)

No one can land a job without interviewing, and no one should accept a position unless the compensation package is fair and equitable. Improving your interviewing skills enhances your ability to effectively communicate your value to the hiring committee and increases your odds of landing your position of choice. Furthermore, understanding the many components of compensation packages will help you make informed employment decisions as you move forward with your career. Strategies on the negotiation process will be discussed, along with what should you negotiate and what can and cannot be negotiated. The intended outcomes from this program are to improve your interviewing techniques and awareness as well as learning how to negotiate in a professional, logical, and respectful manner. Actual interview questions from industry and academic institutions will be provided as handouts.

Speaker

Bob Dolan, M.B.A., *Massachusetts Institute of Technology, Cambridge, MA*

Session 4 Location: WSSC, 615 & 616

Three Techniques for Building Relationships During Science Communications

(Recommended for all attendees)

Traditional science communication techniques are based on scientific/technical experts providing content and are dependent on the trust and credibility of both the expert presenter and the presenting institution. A behavioral description would describe traditional science communications as "telling and selling." Yet our "social brain" challenges presentations by experts and places trust in institutions very reluctantly. Our social brain is first and foremost relational centric and seeks to identify with individuals that demonstrate trust in the judgment of the listener. In this session, three science communication techniques designed for the social brain will be presented, practiced, and reinforced. Each technique seeks to build a relationship and reinforce personal trust before providing scientific content.

Speaker

Larry Petcovic, M.Sc., *Human Workflows, Rockville, MD*

Session 5 Location: WSSC, 613 & 614

Building Your Brand Starts NOW

What brand of scientist are you? Are you the technical guru who can solve any problem, or are you the communicator who can translate complex concepts into simple language? When people think of you, what image comes to mind? Is your digital footprint, i.e., your Instagram, Facebook, Twitter, Snapchat account, an accurate reflection of you? The way you are perceived in person and online is how you will be defined. Your brand is more than goggles and a lab coat. It represents a promise of quality which reflects your values, skills, strengths, passions and growth areas. Whether you seek a traditional STEM role in a corporate, academic or government sector, or an alternative career utilizing the skills you have gained, building a personal brand is a valuable career development strategy for both students and professionals. Building a strong personal brand NOW will help demonstrate your value in the job marketplace and ultimately help secure the career of your dreams.

Speaker

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

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Session 6 Location: WSSC, 602 & 603

A Social Cognitive Approach to Building Confidence for Research

(Recommended for Program Directors, Faculty and Administrators)

This session is geared to program directors, other staff, and faculty working in programmatic interventions with students in biomedical and biological research fields. Using current research findings on factors affecting the academic and career development of ethnically diverse students in science, this session will provide a theoretically informed, evidence-based conceptual framework for promoting their confidence in conducting research and pursuit of research careers. Topics, including strategies for promoting self-efficacy and academic resilience, will be discussed in an interactive format and a formal curricular training module for building students' research self-efficacy will be presented. Finally, tools for assessing and evaluating the effectiveness of interventions to increase students' research self-efficacy beliefs will be shared.

Speaker

Amber Smith, Ph.D., *University of Wisconsin-Madison, Madison, WI*

Session 7 Location: WSSC, 608 & 609

NIH Grants Management Workshop

(Recommended for program directors and faculty)

This session offers updates from the National Institute of General Medical Sciences Minority Opportunities in Research Program, including current budget information, (i) clarification of requirements for the use of human subjects, (ii) use of the "Streamlined Noncompeting Award Process" for applications, and (iii) areas of interest in the Minority Biomedical Research Support and Minority Access to Research Careers programs.

Speakers

Lori Burge, B.S., *National Institute of General Medical Sciences, Bethesda, MD*

Bob Altieri, M.A., *National Institute of General Medical Sciences, Bethesda, MD*

3:45 p.m. – 6:45 p.m. **Exhibits Open**

4:00 p.m. – 5:15 p.m. **POSTER SESSION 4** Location: WSSC, Exhibit Hall

5:30 p.m. – 6:45 p.m. **POSTER SESSION 5** Location: WSSC, Exhibit Hall

7:00 p.m. – 8:00 p.m. **CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS** *(seven session options)*

Session 1 Location: WSSC, 619 & 620

Elements of the Graduate School Application Process

(Recommended for undergraduate and master's-level students)

The session provides students with the information necessary to prepare and plan for the graduate school admissions process. Part one briefly covers the undergraduate years (coursework, internships, and standardized tests), including the process of selecting schools for application, subsequent matriculation, and the application process, with a focus on the admissions file. There will be a discussion of the application form and supporting documentation, with a special focus on the personal statement. Also covered are the interview process and how to succeed in graduate school. The personal statement introduces the applicant to the school and its admissions committee; therefore, part two provides tips and strategies on writing a powerful personal statement for applications for graduate school and/or summer internships. Lastly, part three offers strategies for financing graduate education.

Speaker

Gita Bosch, Ph.D., *G. Bosch & Associates, Philadelphia, PA*

Session 2 Location: WSSC, 615 & 616

Financing Your Graduate Education

(Recommended for undergraduate and master's-level students)

Is graduate school in your future? Attend this workshop to learn about no-strings-attached funding. These opportunities can help potentially increase your overall stipend, decrease your time to degree, and enhance your marketability during and beyond graduate school. This session will expose you to various external fellowships (NIH, NSF, Ford, NDSEG, F31s, etc.) and help you to prepare to put the best application together by starting now and thinking about the things you need beyond the research experience.

Speaker

Keisha John, Ph.D., *University of Virginia, Charlottesville, VA*

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Session 3 Location: WSSC, 613 & 614

Strategies for Taking Standardized Admissions Tests: Preparing for the GRE and MCAT Exams

This session focuses on test-taking strategies and provides valuable information about resources for preparing for standardized admissions tests, particularly the GRE and MCAT. It is important to note that the session is not intended to take the place of formal comprehensive workshops, such as courses offered by your institution and/or independent test preparation agencies.

Speakers

Gayle Slaughter, Ph.D., *Baylor School of Medicine, Houston, TX*
Saundra Oyewole, Ph.D., *Trinity University, Washington, DC*

Session 4 Location: WSSC, 604

Tips for Applying to a Postbaccalaureate Program

(Recommended for students considering postbaccalaureate training)

Many students consider postbaccalaureate training prior to applying to graduate school, and the NIH has the largest postbac training program in the country. The session will focus on the NIH postbac program details and requirements, including the nuts and bolts of submitting a successful application. Information and resources on other U.S. postbac programs will also be presented.

Speakers

Sharon L. Milgram, Ph.D., *Office of Intramural Training & Education, NIH, Bethesda, MD*
Michael Bender, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

Session 5 Location: WSSC, 617

How to Be Successful in Your Summer Research Experience

(Recommended for undergraduates and community college students)

Summer programs are essential for enhancing your graduate school admissions file. This session discusses the importance of summer internships and how to (i) navigate the ABRCMS exhibit hall to identify the best summer program for you, (ii) select and apply to these programs, (iii) establish a good relationship with your faculty mentor, and (iv) have a successful summer research experience. Don't miss this opportunity to take home strategies for getting accepted into the best summer programs!

Speakers

Jose Manautou, Ph.D., *University of Connecticut, Storrs, CT*

Session 6 Location: WSSC, 618

Job Search Strategies and CV/Resume Workshop

This session will provide you with several exercises to help you identify skills, interests, personal characteristics, and values, and align them towards a career of choice. Working in an environment that aligns with your professional goals and values will enhance your ability to be successful. Discussions in the session will cover creating an effective communication strategy that will encompass your attributes and align them with the hiring manager/committee. Topics will include the important elements of a CV/resume and cover letter, including strategies for how to showcase your particular knowledge and experiences effectively. The intended outcome from this program will be to give you a greater understanding of yourself and help you target either the academic track with your CV or a position in industry with your resume. (Resume styles for industry are different from the typical CV.) Actual PhD/Postdoc industry resumes will be provided as handouts.

Speaker

Bob Dolan, M.B.A., *Massachusetts Institute of Technology, Cambridge, MA*

Session 7 Location: WSSC, 602 & 603

How to Apply to MD-PhD Programs

This session will describe each of the step in applying for admissions into an MD-PhD; Q&A active learning environment with panel members (students currently in MD-PhD Programs); One-on-one with directors and administrators of MD-PhD Programs to address specific questions students may have about MD-PhD career and training. At the end of the session, participants will (i) understand the timeline for preparing and applying for admission into MD-PhD programs, (ii) critique the specific components of the MD-PhD application, (iii) discover the criteria used to evaluate the credentials of applicants and the profiles of students who enter MD-PhD training programs, and (iv) understand the interview process for MD-PhD applicants.

Speakers

Robin Lorenz, M.D., Ph.D., *University of Alabama, Birmingham, AL*
Leslie Harrington, M.S., *University of Iowa, Iowa City, IA*

7:00 p.m. – 9:00 p.m.	**Reception for Speakers, Exhibitors, Judges and Program Directors**	Location: Grand Hyatt Hotel, Leonassa Ballroom
8:00 p.m. – 9:00 p.m.	**NIGMS/TWD Organization-wide Meeting for Program Directors**	Location: Grand Hyatt Hotel, Amphitheatre
8:00 p.m. – 9:00 p.m.	**Fred Hutchinson/University of Washington Reception**	Location: Sheraton Seattle Hotel, Cirrus Room

Saturday, November 14, 2015

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

7:30 a.m. – 8:15 a.m. Continental Breakfast

8:30 a.m. – 9:30 a.m. Oral Presentation Sessions *(All 12 Disciplines)*

Oral Session 13: Biochemistry

Location: WSSC, 606 & 607

O049 Milk Thistle Flavonoids Reverse Antibiotic Resistance in *Staphylococcus aureus* by Inhibiting the NorA Membrane-Based Multidrug Resistant Efflux Pump
Mohamad Dandan, *University of California, Irvine, CA*

O050 The Fibrogenic Function of sFRP2 Is Cell Type Restricted
Angelica Rivera Rosa, *University of Puerto Rico at Cayey, Gurabo, PR*

O051 Regulation of Histone H3 Tail Clipping in *Tetrahymena thermophila*
Karissa Munoz, *Claremont McKenna College, Claremont, CA*

O052 Investigating the Link between T1D and Environmental Chemical Exposure During Early Years of Life
Christopher Mays, *Georgia Southern University, Statesboro, GA*

Session Moderator: ***Megan Mcevoy, Ph.D.,*** *University of Arizona, Tucson, AZ*

Oral Session 14: Cancer Biology

Location: WSSC, 616

O053 A Novel Polyisoprenylated Cysteinyl Amide Inhibitor, NSL-BA-055, Selectively Inhibits Proliferation of Hepatocellular Carcinoma Cells
Michelle Naidoo, *Hunter College of the City University of New York, New York, NY*

O054 MYCN Status to Guide Surveillance in Patients with Central Nervous System (CNS) Neuroblastoma
Grace Neumann, *Hunter College, New York, NY*

O055 Anticancer Activity of Xmd8-87 (dclk1 Inhibitor) in Neuroblastoma
Jeffrey Boakye, *Philander Smith College, Little Rock, AR*

O056 In-Vitro Effect of Calcium Sulfide Nanostructures on Non-Small Cell Lung Adenocarcinoma Cell Cycle Succession and Oxidative Environment
Kevin Muñoz Forti, *University of Puerto Rico, Ponce, PR*

Session Moderator: ***Emil Bogenmann, Ph.D.,*** *Children's Hospital Los Angeles, Los Angeles, CA*

Oral Session 15: Cell Biology

Location: WSSC, 617

O057 Macrophage Proliferation During Pneumonectomy-Induced Adult Lung Regeneration
Carmen Maria Conroy, *University of California, Berkeley, CA*

O058 Effects of Growth Factors on the Proliferation and Differentiation of Human Skeletal Muscle Progenitor Cells
Leigha Jarett, *Binghamton University, Binghamton, NY*

O059 Assaying Stress Gene Expression in Response to Disturbance in Amino Acid Homeostasis in Plants
Waqas Hamid, *Virginia Tech, Blacksburg, VA*

O060 Proteomic Analysis of Wolbachia Symbiosis in *Drosophila* Oogenesis
Ricardo Perez Dulzaides, *Florida International University, Miami, FL*

Session Moderator: ***Brent Berwin, Ph.D.,*** *Dartmouth Medical Center, Lebanon, NH*

Oral Session 16: Chemistry

Location: WSSC, 619 & 620

O061 Interface Chemistry Between Glassy Carbon and Polyimide
Kyle Logan, *San Diego State University, San Diego, CA*

O062 Utilizing Direct and Indirect Solution-Based Assays to Determine the Ability of Novel Fullerene Derivatives to Produce Singlet Oxygen
Ashli Toles, *University of Southern Mississippi, Hattiesburg, MS*

Continued on next page

Saturday, November 14, 2015

O063 Design of Dual 131I-PARP1-Fl Inhibitor for Dual Fluorescent/PET Glioblastoma Diagnosis
Anisa Seenauth, *Hunter College, New York City, NY*

O064 Correlation of Mc and Dmc-Adducts Structures with the Role of P21 in the Toxicity of the α-icl and β-icl
William Aguilar, *John Jay College of Criminal Justice, New York, NY*

Session Moderator: ***Marco Lopez, Ph.D.,*** *California State University, Long Beach, CA*

Oral Session 17: Developmental Biology and Genetics

Location: WSSC, 613 & 614

O065 Two Traits, or One - That Is the Question: An Analysis of Submissive and Aggressive Personalities in Female Spotted Hyenas
Wangui Hymes, *Spelman College, Atlanta, GA*

O066 Identifying Host Factors that Affect Retrotransposition in *Saccharomyces cerevisiae*
Emilia Tolbert, *Spelman College, Atlanta, GA*

O067 Defining Cellular Dynamics and Biomechanical Forces During Wound Healing in *Xenopus laevis* Embryos
Delisa Clay, *Virginia Commonwealth University, Richmond, VA*

O068 Elucidating the Role of Tet1 in Osteoarthritis
Stephen Cutie, *University of Miami, Coral Gables, FL*

Session Moderator: ***DiAnna Hynds, Ph.D.,*** *Texas Women's University, Denton, TX*

Oral Session 18: Engineering, Physics and Mathematics

Location: WSSC, 611 & 612

O069 Reducing Error and Increasing Consistency in the Segmentation of Anatomical Structures for Radiotherapy Planning
Kathleen Jedruszczuk, *CUNY Hunter College, New York, NY*

O070 Increased Extracellular Matrix Stiffness Decreases Proliferation of MCF-7 Cancer Cells in 3D Culture
Carlos Brambila, *San Diego State University, San Diego, CA*

O071 Surface Optimization of 3D Printed Phantoms for Parametric Imaging Based Vascular Disease Applications
Stacie Arechavala, *University of Miami, Coral Gables, FL*

O072 Injectable Cellulosic Hydrogels for Soft Tissue Reconstruction Following Breast Tumor Resection
Zhiying Zhu, *City College of New York, New York, NY*

Session Moderator: ***Mauricio Cabrera-Rios, Ph.D.,*** *University of Puerto Rico at Mayaguez, Mayaguez, PR*

Oral Session 19: Immunology

Location: WSSC, 604

O073 Immunosuppression of T Cells by Myeloid Derived Suppressor Cells
Ludy Martinez, Claflin University, *Orangeburg, SC*

O074 Characterization of Monocyte-Derived Macrophages in Atherosclerosis
Natalie Hamilton, *University of Miami, Coral Gables, FL*

O075 Evaluation of TALEN and the CRISPR/Cas9 Nuclease System to Correct the Sickle Cell Disease Mutation
Dianne Lumaquin, *University of California Los Angeles, Los Angeles, CA*

O076 Nesting Pads Primes the Immune Response in a Murine Pneumonia Model
Alejandro Sanoja, *University of Florida, Gainesville, FL*

Session Moderator: Avery August, Ph.D., *Cornell University, Ithaca, NY*

Oral Session 20: Microbiology

Location: WSSC, 6A

O077 Roles of Nipah Virus Attachment, Fusion, and Matrix Proteins on Viral Assembly and Budding
Keesha Matz, *Washington State University, Pullman, WA*

O078 Alternative Coreceptor Use by SIV from Mustached Monkey, the Ancestor of HIV-1
Ezekiel Bello, *Florida A&M University, Tallahassee, FL*

O079 Bacterial Characterization of a Hog Confinement Located in Poweshiek County and a Potential Source of Antibiotic Resistance Bacteria Discovered
Alfredo Colina, *Grinnell College, Grinnell, IA*

Saturday, November 14, 2015

O080 Localization Analysis of a Major Osmotic Stress-Response Gene in the Fungus *Candida albicans*
Ronald Rodriguez, *John Jay College (CUNY), New York, NY*

Session Moderator: William E. Walden, Ph.D., *University of Illinois-Chicago, IL*

Oral Session 21: Molecular and Computational Biology

Location: WSSC, 615

O081 Comparative Genomic Analysis of Two Paragonimus Species
Joe Sosa, *St. Edward's University, Austin, TX*

O082 Dynamic Interplay Between TET1 and OGT
Ronald Shanderson, *Georgia State University, Atlanta, GA*

O083 Performance of Computational Methods for Inferring Tumor Clones Using Multi-Region Sequencing Data
Karen Gomez, *Temple University, Philadelphia, PA*

O084 Scoring Sequence for Modeled Folding Conformation in Interactive ROSETTA Using HMMSTR
Oluwadamilola Lawal, *Medgar Evers College, Brooklyn, NY*

Session Moderator: ***Jeanette Papp, Ph.D.,*** *University of California, Los Angeles, CA*

Oral Session 22: Neuroscience

Location: WSSC, 608 & 609

O085 Taurine as a Potential Therapeutic Avenue to Treat Aging-Associated Diseases
Michael Boachie-Mensah, *Texas A&M University, College Station, TX*

O086 Quantification of GABAergic Inhibitory Synapses in Rhesus Monkey Neocortex Through Detection of the Vesicular GABA Transporter VGAT
Alexandra Morquette, *Columbia University, New York, NY*

O087 Neural Cell Adhesion Molecule (NrCAM) as a Possible Modulator of Cochlear Innervation and Epithelial Patterning
Randall Harley, *Georgetown University, Washington, DC*

O088 Behavioral Expression Profile of α-Conotoxin PeIA in Chronic Constriction Injury Model in Rats
Porfirio Fernandez, *John Jay College, New York, NY*

Session Moderator: ***Richard King, Ph.D.,*** *University of Utah, Salt Lake City, UT*

Oral Session 23: Physiology

Location: WSSC, 618

O089 Role of Endothelial Ip3r1 in Regulating Blood Pressure
Mindy Kim, *Amherst College, Amherst, MA*

O090 The Role of REM Sleep in the Development of PTSD Using a Rodent Model
Yvette Arias-Delfi, *University of Puerto Rico at Ponce, Patillas, PR*

O091 Glucagon-Like Peptide-1 Receptor Activation and Angiotensin Receptor Blockade Decrease Nadph Oxidase 4 Protein Expression and Urinary Albumin Excretion in a Model of Metabolic Syndrome
Benny Escobedo, *University of California Merced, Merced, CA*

O092 MG53-Mediated Protection in Heart Valve Biology
Melanie Russell, *The Ohio State University, Columbus, OH*

Session Moderator: ***Latanya Hammonds-Odie, Ph.D.,*** *Georgia Gwinnett College School of Science and Technology, Lawrenceville, GA*

Oral Session 24: Social and Behavioral Sciences and Public Health

Location: WSSC, 602 & 603

O093 Physical Activity and Cancer Among Navajo Cancer Survivors: Focus Group and Interview Findings
Shelby Dalgai, *Northern Arizona University, Flagstaff, AZ*

O094 Contextualizing Traumatic Experiences Among Deportees in a Border Community in Mexico: Trauma Occurrences at Different Stages of the Migration Process
Juan Pena, *San Diego State University, San Diego, CA*

O095 National Guidelines for Surveillance Testing in Patients with Solid Tumors: Variation and Specificity
Rubaya Yeahia, *Hunter College, New York, NY*

Continued on next page

Saturday, November 14, 2015

O096 Assessing Self-Reported Barriers and Perceived Access to Fruits and Vegetables among Low-Income Minority Participants in a Community-Based Food Access Initiative
Kianda Hicks, *North Carolina Central University, Durham, NC*

Session Moderator: ***Vanessa McRae, Ph.D.,*** *Albany State University, Albany, GA*

9:30 a.m. – 12:30 p.m. Exhibit Hall Open

9:45 a.m. – 11:00 a.m. POSTER SESSION 6 — Location: WSSC, Exhibit Hall

11:00 a.m. – 12:15 p.m. POSTER SESSION 7 — Location: WSSC, Exhibit Hall

12:45 p.m. – 1:30 p.m. Networking Lunch — Location: WSSC, 4A & 4B

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

1:30 p.m. – 2:15 p.m. Closing Keynote Address — Location: WSSC, 4A & 4B

One Body, One Family, One World

Speaker
Nontombi Naomi Tutu
Human rights activist, daughter of Archbishop Desmond Tutu, and advocate for social justice

Introducing Speaker
John Fitzgerald Gates, Ph.D., *Criticality Management Consulting, New York, NY*

2:15 p.m. – 2:30 p.m. Question and Answer with Nontombi Naomi Tutu

2:45 p.m. – 4:45 p.m. PROFESSIONAL DEVELOPMENT SESSIONS *(two session options)*

Session 1 — Location: WSSC, 6B

ABRCMS Professional Skills Cafe

(Recommended for undergraduate students, graduate students and postdoctoral scientists)
This session is designed to help students gain a broad appreciation for career exploration and the job search process. The professional skills cafe, coordinated by ABRCMS and the NIH Office of Intramural Training & Education, will be offered in a small group, round-table setting where students can bring specific questions to experts. Topics include:

Community College Student Resources. Come with questions about making the leap to a 4-year college and finding the resources you need to thrive, not just survive. We will discuss strategies for success in a variety of science majors.

Finding Mentors and Being Mentored Effectively. Everyone agrees that we need multiple mentors to help us develop as scientists and professionals, but finding mentors and forming productive mentoring relationships can be difficult. Come discuss the ins-and-outs of mentoring, within and outside the research environment.

Finishing Your Dissertation. The end of graduate school seems like a flurry of activity. This session will help you identify and overcome roadblocks such as working with your mentor, communicating with your committee, writing your dissertation while finishing experiments, and overcoming writer's block.

How to Be Successful in a Summer Internship Program. You went to the ABRCMS session on the importance of summer research programs, but maybe you still have questions. Discussions at this table will help ensure that you know how to integrate into the lab and understand lab dynamics (such as how to work with your direct supervisor and your faculty mentor).

Your Individual Development Plan (IDP). Visit this table to learn more about the IDP, a tool that can improve and enhance your academic and professional achievements by helping you establish your goals, assess your strengths and weaknesses, and identify skill and portfolio gaps that can impede your plans to reach your goals.

LinkedIn for Networking. Learn how to use LinkedIn effectively for your career! We will explore creating your profile, getting introductions, finding connections, and finding the right groups.

Networking. Everyone says networking is critical, but are you worried that you don't really know what that means or that you don't know how to network effectively? Come with questions about networking strategies. We will explore ways to identify networks, make connections, and have meaningful conversations and interactions.

Picking Your Thesis Lab. This is one of the biggest decisions of your early scientific career – who to work with for the next few years. This table will help you navigate what types of research groups will fit best, what questions to ask of new advisors, how to use your rotations wisely, and getting help if things go wrong.

Saturday, November 14, 2015

Putting Together Your Academic Job Package. Come talk with senior faculty about the critical components of a successful academic job search package. Participants will be provided with examples of successful academic job applications for research- and teaching-intensive institutions.

Putting Together Your Industry Job Package. At this table, discuss how to dissect a job ad and create a cover letter and resume that will help you shine in an industry job hunt.

Resume or CV. Are you confused about the difference between a resume and a CV and what is appropriate for school and/or job applications? Come discuss tips on putting your best foot forward in these critical school and job search documents.

Studying Tips for Tests: The GRE, MCAT, and DAT, oh my! The group at this table will discuss general tips and techniques to prepare for admission tests.

Time Management/Balancing Our Academic and Personal Lives. Everyone agrees that finding time for our work and personal lives is key, but there never seems to be enough hours in the day. Come share your struggles and strategies for finding balance and making choices with colleagues and mentors.

How to apply to MD-PhD Programs. Discussion will focus on each of the steps in applying for admissions into an MD-PhD. One-on-one with directors and administrators of MD-PhD Programs to address specific questions students may have about MD-PhD career and training.

Women in STEM. Women have successful careers in all STEM disciplines. Join this table to find out how to succeed in STEM with others navigating career choices just like you.

Session Moderator
Natasha Lugo-Escobar, Ph.D., *National Institutes of Health, Bethesda, MD*

Session 2 — Location: WSSC, 606 & 607

Achieving Your Goals: Goal-Setting Strategies for Scientific and Career Success, Developing Your IDP
(Recommended for graduate students and postdoctoral scientists)
Do you ever promise yourself that you'll finish that paper, or improve your presentation skills, and then don't quite get around to it? Do you have trouble setting goals and sticking to them? Survey data has shown that trainees in the biomedical sciences who create and follow a written plan are more likely to reach their research and career goals. This hands-on workshop will get you started on creating your annual Individual Development Plan (IDP) for completing projects and developing the professional skills you'll need for success. Through this process, you will learn principles for setting achievable goals and strategies for ensuring that you'll follow through to success.
Speakers
Bill Lindstaedt, M.S., *University of California–San Francisco, San Francisco, CA*
Phil Clifford, Ph.D., *University of Illinois at Chicago, Chicago, IL*

3:00 p.m. – 4:30 p.m.	**ASM LINK Debriefing**	Location: WSSC, 303
5:00 p.m. – 7:30 p.m.	**FREE TIME! FREE TIME! FREE TIME!**	
6:00 p.m. – 7:00 p.m.	**MADRS Program Director Meeting** *(By Invitation Only)*	Location: Sheraton Seattle Hotel, University Room
7:30 p.m. – 10:00 p.m.	**Banquet and Awards Ceremony**	Location: WSSC, 4A & 4B

Conference Wrap-up
John Fitzgerald Gates, Ph.D., *Criticality Management Consulting, New York, NY*

Student Presentation Awards Ceremony

Concluding Remarks
Clifford W. Houston, Ph.D., *University of Texas Medical Branch, Galveston, TX*

10:30 p.m. – 2:00 a.m.	**Dessert Reception, Illusions Show and Dance Party** *(All Are Invited)*	Location: Sheraton Seattle Hotel, Grand Ballroom

Professional Development Sessions by Track

Undergraduates and Postbaccalaureates

Wednesday, November 11, 2015

3:30 p.m. – 4:30 p.m.

- Graduate Student Life: Perspectives of Graduate Students

5:00 p.m. – 6:00 p.m.

- Networking in Your Scientific Discipline (All Disciplines)

Thursday, November 12, 2015

8:30 a.m. – 9:30 a.m.

- Orientation for Undergraduates and Postbaccalaureates

11:00 a.m. – 12:00 p.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 13, 2015

9:45 a.m. – 10:45 a.m.

- Mentoring 101
- Goal Setting and Time Management
- Solving for S: Variables in the Success Equation
- Funding Your Education and Training: Hear from the Experts

2:30 p.m. – 3:30 p.m.

- Effective Personal Statement for Getting into Highly Competitive Graduate Schools and Summer Programs
- Outclass the Competition! Etiquette Training
- Building Your Brand Starts NOW
- Three Techniques for Building Relationships During Science Communications

7:00 p.m. – 8:00 p.m.

- Elements of the Graduate School Application Process
- Financing Your Graduate Education

- Strategies for Taking Standardized Admissions Tests: Preparing for the GRE and MCAT Exams
- Tips for Applying to a Postbaccalaureate Program
- How to Be Successful in Your Summer Research Experience
- How to Apply to MD-PhD Programs

Saturday, November 14, 2015

2:45 p.m. – 4:45 p.m.

- ABRCMS Professional Skills Cafe

Graduate Students and Postdoctoral Scientists

Wednesday, November 11, 2015

2:00 p.m. – 6:00 p.m.

- Fair Play: A Workshop About Unconscious Bias in Academia

3:30 p.m. – 4:30 p.m.

- Self-Awareness: The Key to Success in Life and Lab
- National Research Mentoring Network to Diversify the Biomedical Workforce

5:00 p.m. – 6:00 p.m.

- Networking in Your Scientific Discipline (All Disciplines)

Thursday, November 12, 2015

8:30 a.m. – 9:30 a.m.

- Getting Published: Advice for Graduate Students and Postdoctoral Scientists

11:00 a.m. – 12:00 p.m.

- How We Learn… and How We Don't

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 13, 2015

9:45 a.m. – 10:45 a.m.

- Goal Setting and Time Management
- Solving for S: Variables in the Success Equation
- Navigating Your Way into a Postdoctoral Position and Having a Successful Postdoctoral Experience
- Funding Your Education and Training: Hear from the Experts
- The Business of Science: Leveraging Your Scientific, Business, and Social Identities to Be Competitive in Today's Job Market

2:30 p.m. – 3:30 p.m.

- Outclass the Competition! Etiquette Training
- Effective Interviewing Skills and Job Offer Negotiation
- Building Your Brand Starts NOW
- Three Techniques for Building Relationships During Science Communications

Saturday, November 14, 2015

2:45 p.m. – 4:45 p.m.

- ABRCMS Professional Skills Cafe
- Achieving Your Goals: Goal-Setting Strategies for Scientific and Career Success, Developing Your IDP

Faculty, Program Directors, and Exhibitors

Wednesday, November 11, 2015

2:00 p.m. – 6:00 p.m.

- Fair Play: A Workshop About Unconscious Bias in Academia

3:30 p.m. – 4:30 p.m.

- Facilitating Recruitment of Your Students
- National Research Mentoring Network to Diversify the Biomedical Workforce

5:00 p.m. – 6:00 p.m.

- Networking in Your Scientific Discipline (All Disciplines)
- State of the ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program

Thursday, November 12, 2015

8:30 a.m. – 9:30 a.m.

- Orientation for Judges (All 12 Disciplines)
- Tracking Graduates in an Age of Emerging Social Media

11:00 a.m. – 12:00 p.m.

- How We Learn… and How We Don't
- Strength-Based STEM Pipeline Interventions
- Science for All, One Microbiome at a Time – Course-based Authentic Research Experience for Undergraduates

8:00 p.m. – 9:30 p.m.

- High-Caliber Research at Non-research Institutions: Models of Effective Undergraduate Research Programs

Friday, November 13, 2015

9:45 a.m. – 10:45 a.m.

- Solving for S: Variables in the Success Equation
- Expert Roundtable: How to Navigate the NIH Grants and Peer Review Systems

2:30 p.m. – 3:30 p.m.

- Outclass the Competition! Etiquette Training
- NIH Grants Management Workshop
- Three Techniques for Building Relationships During Science Communications
- A Social Cognitive Approach to Building Confidence for Research

"Very well run. Excellent event with highly motivated prospective students. Looking forward to attending next year"

(Exhibitor)

Meet and Greet Speakers

Opportunity to meet one-on-one with speakers informally to gain in depth knowledge of their research and career pathway to success.

(See program book for speaker biographies)

2015 Meet and Greet Speakers

David Quammen, B.A., B.Litt.
Science Journalist and Prize Winning Author

Tim Thornton, Ph.D.
University of Washington
Susan Shortreed, Ph.D.
Global Health Research Institute
Using Statistics to Make Sense of Biomedical Big Data

Manu Platt, Ph.D.
University of Georgia
Sickle Cell Disease, Strokes, and Biomedical Engineering

Myrtle Davis, DVM, Ph.D.
National Institute of Health
The National Cancer Institute
A Toxicologist's Quest to Balance Adverse Effects and Desirable Outcomes During Drug Development

Hector Aguilar-Carreno, Ph.D
(Sponsored by American Society for Microbiology)
Glycoprotein Team Burglary: Entry and Exit of the Deadly Zoonotic Nipah virus

Tracy Johnson, Ph.D.
UCLA, Los Angeles, CA
Splicing and Microbial Sex: How a Chromatin- Remodeling Protein Acts as the Master Regulator of Pre-mRna Splicing During Meiosis

Marion Sewer, Ph.D.
University of California Davis, Davis, CA
Coordinating the Stress Response: Mechanisms Regulating Steroid Hormone Production

Mark Rasenick, Ph.D.
University of Illinois, Chicago, IL
The Neurobiology of Depression and Antidepressant Action: Role of G Proteins, The Cytoskeleton and Lipid Path

Roland Thorpe, Ph.D.
Johns Hopkins University, Baltimore, MD
Health Disparities in the United States: What Do We Know about African American Men's Health

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ACS Chemistry for Life™

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American Heart Association / American Stroke Association

American Heart Association/ American Stroke Association

aps American Physiological Society

American Physiological Society

ASBMB American Society for Biochemistry and Molecular Biology

American Society for Biochemistry and Molecular Biology

Biophysical Society

Biophysical Society

Columbia University Medical Center

Columbia University Medical Center

CUR

Council on Undergraduate Research

FASEB Federation of American Societies for Experimental Biology

MARC: Maximizing Access to Research Careers

Federation of American Societies for Experimental Biology

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Society for Developmental Biology

Society for Neuroscience

Society of Toxicology

University of Alabama at Birmingham

University of Washington

Weill Cornell Graduate School of Medical Sciences

Notes

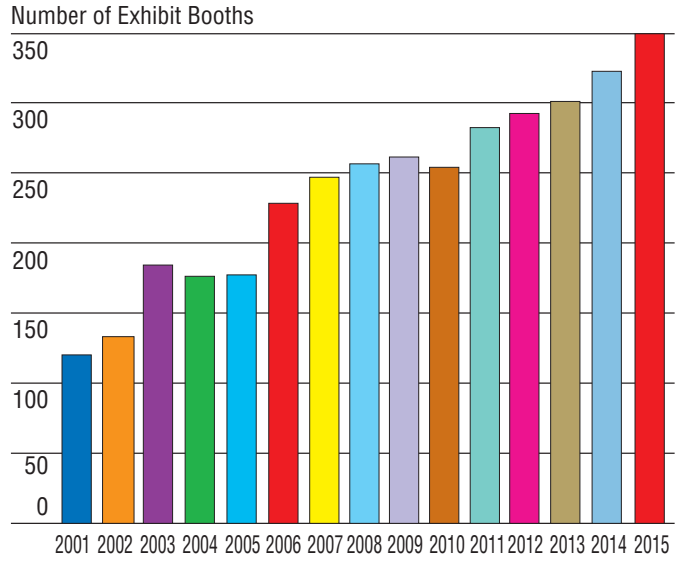
ABRCMS Statistics

Registration

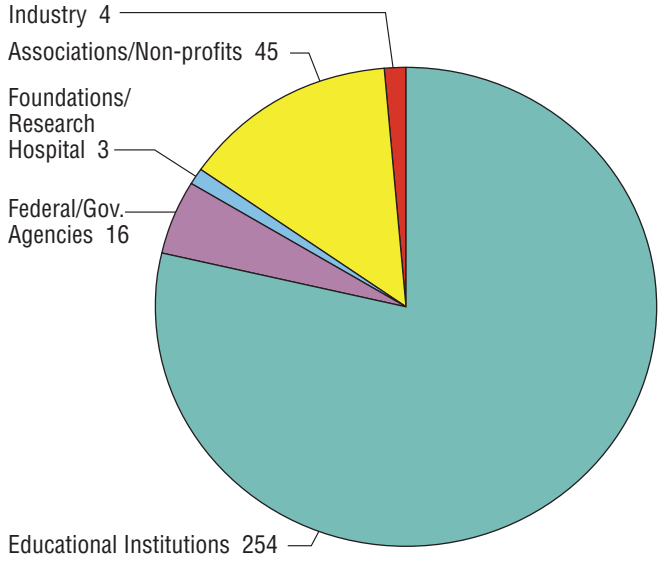
Type of Attendee	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015*
Students	1,157	1,646	1,694	1,580	1,667	1,633	1,525	1,788	1,755	2,008	2,097	2,147	2,184	2,294	2,397
Undergrad Students/Postbacs	863	1,395	1,383	1,264	1,296	1,233	1,290	1,494	1,462	1,713	1,788	1,825	1,775	1,929	2,003
Grad Students/Postdocs	161	251	311	316	371	400	235	294	293	295	309	322	409	365	394
Exhibitors	230	237	283	305	323	418	426	442	458	504	501	535	553	618	519
Program Directors & Faculty	304	471	464	409	423	421	503	501	445	587	588	552	501	513	506
Others/Admin	164	235	129	141	131	96	10	109	99	139	170	249	201	159	190
Total	1,855	2,589	2,570	2,435	2,544	2,568	2,464	2,840	2,757	3,238	3,356	3,483	3,443	3,584	3,612

*As of October 31, 2015

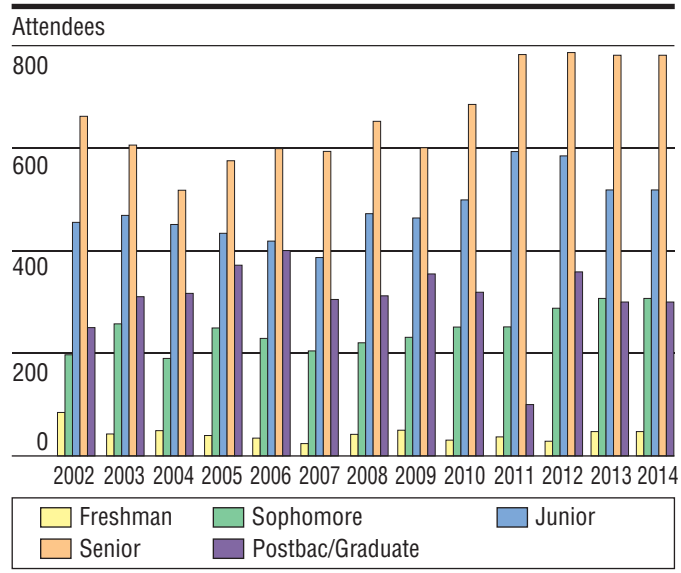
Exhibits



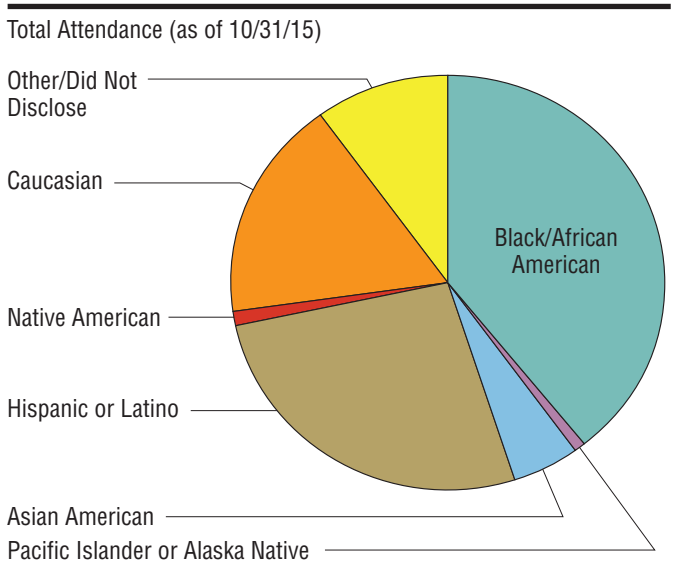
2015 ABRCMS Exhibitor Types



ABRCMS Student Education Levels



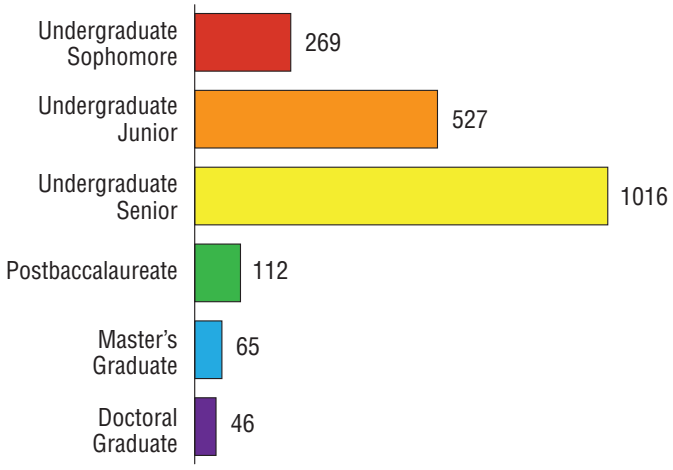
2015 ABRCMS Attendee Ethnicity



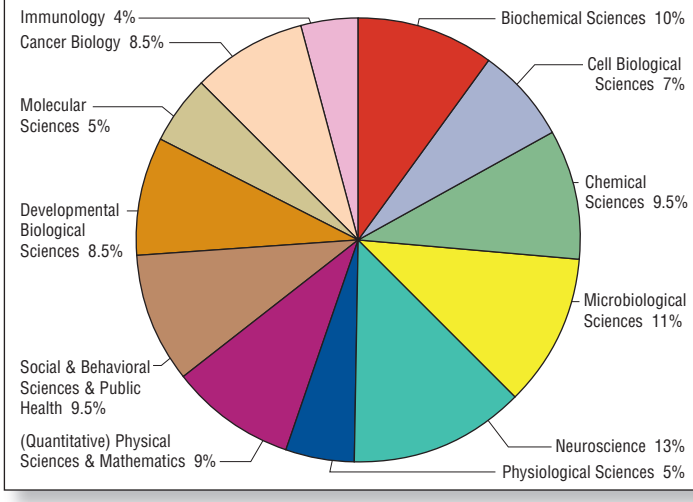
Abstracts Submitted

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Biochemistry	81	90	114	109	101	117	120	117	141	154	139	167	175	153	201
Cancer Biology	-	-	-	-	-	-	-	-	-	-	145	159	176	171	175
Cell Biology	197	303	289	215	233	198	174	189	195	232	119	157	121	132	143
Chemistry	93	112	125	123	135	128	141	162	148	156	166	170	149	182	189
Developmental Biology & Genetics	-	-	-	-	-	-	41	61	61	57	142	163	172	166	171
Engineering, Physics & Mathematics	19	45	37	65	80	81	51	90	73	110	130	153	150	167	185
Environmental Sciences	60	79	93	-	-	-	-	-	-	-	-	-	-		
Immunology	-	-	-	-	-	-	-	-	-	-	79	81	78	91	88
Interdisciplinary Sciences	16	-	-	-	-	-	-	-	-	-	-	-	-		
Microbiology	88	135	129	156	162	220	182	217	200	261	174	179	163	212	229
Molecular & Computational Biology	-	-	-	139	118	152	148	159	136	151	112	113	90	109	109
Neuroscience	-	90	85	56	121	138	138	131	130	160	145	188	184	195	266
Physiology	142	146	138	156	89	103	87	84	87	102	109	121	93	105	91
Social & Behavioral Sciences & Public Health	73	124	74	83	104	89	84	155	127	162	155	164	151	185	188
Total	**769**	**1,124**	**1,084**	**1,102**	**1,143**	**1,226**	**1,160**	**1,365**	**1,298**	**1,545**	**1,615**	**1,815**	**1,702**	**1,868**	**2,035**

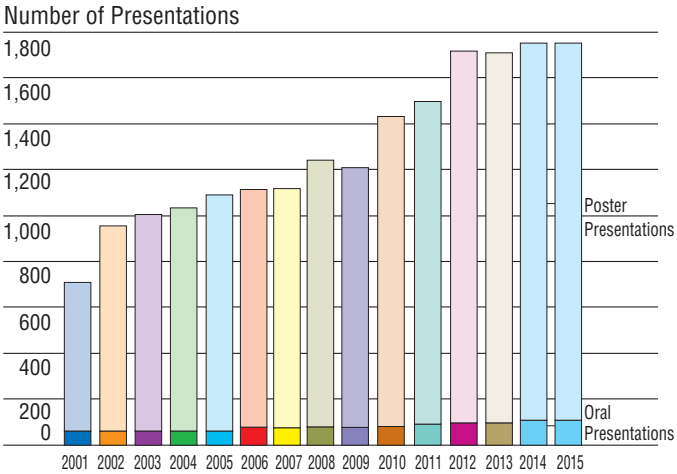
2015 Abstract Submissions by Educational Level



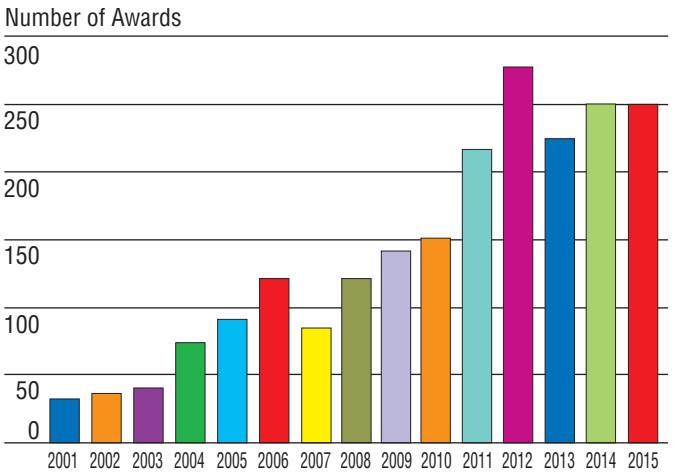
2015 Distribution of Scientific Disciplines



Total Number of Student Presentations



Student Presentation Awards



Notes

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Poster Presentation Schedule

Poster Session 1 (A):

Thursday, November 12, 2:30 p.m. – 3:45 p.m.
Set-up time: 2:15 p.m. – 2:30 p.m.
Take down time: 5:15 p.m. – 5:30 p.m.

Poster Session 2 (B):

Thursday, November 12, 4:00 p.m. – 5:15 p.m.
Set-up time: 2:15 p.m. – 2:30 p.m.
Take down time: 5:15 p.m. – 5:30 p.m.

Poster Session 3 (C):

Friday, November 13, 11:00 a.m. – 12:15 p.m.
Set-up time: 10:45 a.m. – 11:00 a.m.
Take down time: 12:15 p.m. – 12:30 p.m.

Poster Session 4 (D):

Friday, November 13, 4:00 p.m. – 5:15 p.m.
Set-up time: 3:45 p.m. – 4:00 p.m.
Take down time: 6:45 p.m. – 7:00 p.m.

Poster Session 5 (E):

Friday, November 13, 5:30 p.m. – 6:45 p.m.
Set-up time: 3:45 p.m. – 4:00 p.m.
Take down time: 6:45 p.m. – 7:00 p.m.

Poster Session 6 (F):

Saturday, November 14, 9:45 a.m. – 11:00 a.m.
Set-up time: 9:30 a.m. – 9:45 a.m.
Take down time: 12:15 p.m. – 12:30 p.m.

Poster Session 7 (G):

Saturday, November 14, 11:00 a.m. – 12:15 p.m.
Set-up time: 9:30 a.m. – 9:45 a.m.
Take down time: 12:15 p.m. – 12:30 p.m.

Oral Presentation Schedule – Locations are listed starting on page XX

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Oral Sessions 13 – 24:

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Poster Board Presentations (Sessions A-G) by Scientific Discipline & Poster Session

	Session 1 (A) Thursday 2:30 – 3:45 pm	Session 2 (B) Thursday 4:00 – 5:15 pm	Session 3 (C) Friday 11:00 am – 12:15 pm	Session 4 (D) Friday 4:00 – 5:15 pm	Session 5 (E) Friday 5:30 – 6:45 pm	Session 6 (F) Saturday 9:45 – 11:00 am	Session 7 (G) Saturday 11:00 am – 12:15 pm
Postbacs & Previous ABRCMS Presentation Awardees	A001 – A024	B001 – B024	C001 – C016	D001 – D016	E001 – E016	F001 – F024	G001 – G024
Biochemistry	A025 – A049	B025 – B049	C017 – C032	D017 – D032	E017 – E032	F025 – F049	G025 – G049
Cancer Biology	A050 – A070	B050 – B070	C033 – C046	D033 – D046	E033 – E046	F050 – F070	G050 – G070
Cell Biology	A071 – A087	B071 – B087	C047 – C058	D047 – D058	E047 – E058	F071 – F087	G071 – G087
Chemistry	A088 – A113	B088 – B113	C059 – C076	D059 – D076	E059 – E076	F088 – F113	G088 – G113
Developmental Biology and Genetics	A114 – A136	B114 – B136	C077 – C092	D077 – D092	E077 – E092	F114 – F136	G114 – G136
Engineering, Physics and Mathematics	A137 – A160	B137 – B160	C093 – C108	D093 – D108	E093 – E108	F137 – F160	G137 – G160
Immunology	A161 – A170	B161 – B170	C109 – C114	D109 – D114	E109 – E114	F161 – F170	G161 – G170
Microbiology	A171 – A198	B171 – B198	C115 – C133	D115 – D133	E115 – E133	F171 – F198	G171 – G198
Molecular and Computational Biology	A199 – A211	B199 – B211	C134 – C142	D134 – D142	E134 – E142	F199 – F211	G199 – G211
Neuroscience	A212 – A244	B212 – B244	C143 – C164	D143 – D164	E143 – E164	F212 – F244	G212 – G244
Physiology	A245 – A254	B245 – B254	C165 – C170	D165 – D170	E165 – E170	F245 – F254	G245 – G254
Social and Behavioral Sciences & Public Health	A255 – A274	B255 – B274	C171 – C183	D171 – D183	E171 – E183	F255 – F274	G255 – G274
Graduate Students	A275 – A291	B275 – B291	C184 – C194	D184 – D194	E184 – E194	F275 – F291	G275 – G291

ABRCMS Student Presentation Chairpersons

Biochemistry
Charles Bevins, M.D./Ph.D., *University of California, Davis, CA*
Megan Mcevoy, Ph.D., *University of Arizona, Tucson, AZ*

Cancer Biology
Juanita Merchant, Ph.D., *University of Michigan, Ann Arbor, MI*
Emil Bogenmann, Ph.D., *Children's Hospital Los Angeles, Los Angeles, CA*

Cell Biology
Brent Berwin, Ph.D., *Dartmouth Medical Center, Lebanon, NH*

Chemistry
Marco Lopez, Ph.D., *California State University, Long Beach, CA*

Developmental Biology & Genetics
DiAnna Hynds, Ph.D., *Texas Women's University, Denton, TX*
Alejandro Sanchez Alvarado, Ph.D., *The Stowers Institute for Medical Research, Kansas City, MO*

Engineering, Physics & Mathematics
Michael Ehi Ayewoh, Ph.D., *Howard University Capstone Institute, Washington, DC*
Mauricio Cabrera-Rios, Ph.D., *University of Puerto Rico at Mayaguez, PR*

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

Microbiology
Alfredo Torres, Ph.D., *University of Texas Medical Branch, Galveston, TX*
William E. Walden, Ph.D., *University of Illinois-Chicago, IL*

Molecular and Computational Biology
Marlene de la Cruz, Ph.D., *University of California, Irvine, CA*
Jeanette Papp, Ph.D., *University of California, Los Angeles, CA*

Neuroscience
Richard King, Ph.D., *University of Utah, Salt Lake City, UT*

Physiology
Latanya Hammonds-Odie, Ph.D., *Georgia Gwinnett College School of Science and Technology, Lawrenceville, GA*

Social and Behavioral Sciences & Public Health
C. Debra M. Furr-Holden, Ph.D., *Johns Hopkins University, Baltimore, MD*
Vanessa McRae, Ph.D., *Albany State University, Albany, GA*

ABRCMS Judges' Travel Subsidy Review Committee

- Michael Ehi Ayewoh, Ph.D., *Howard University Capstone Institute, Washington, DC*
- Charles Bevins, M.D./Ph.D., *University of California, Davis, CA*
- Emil Bogenmann, Ph.D., *Children's Hospital Los Angeles, Los Angeles, CA*
- Healani K. Chang, Ph.D., *University of Hawaii at Manoa, Honolulu, HI*
- Latanya Hammonds-Odie, Ph.D., *Georgia Gwinnett College School of Science and Technology, Lawrenceville, GA*
- Marco Lopez, Ph.D., *California State University, Long Beach, CA*
- Megan Mcevoy, Ph.D., *University of Arizona, Tucson, AZ*
- Mauricio Cabrera-Rios, Ph.D., *University of Puerto Rico at Mayaguez, PR*
- Gayle Weaver, Ph.D., *Centers for Disease Control and Prevention, Atlanta, GA*

"I applaud ABRCMS for providing one of the most (if not the most) professional academic channel for young upcoming minority scientists."

Continued on next page

ABRCMS Student Travel Award Review Committee

- Hector Aguilar-Carreno, Ph.D., *Washington State University, Pullman, WA*
- Napoleon F. Alejandro, Ph.D., DABT, *Alcon Research, Ltd., Fort Worth, TX*
- Sherrice Allen, Ph.D., *SVA1 Consulting, LLC, Fayetteville, NC*
- Earnestine Baker, MS Ed., *University of Maryland, Baltimore County, Baltimore, MD*
- C. Gita Bosch, Ph.D./M.B.A., *Academic & Education Consultant, New York, NY*
- Eric Buckles, Ph.D., *Dillard University, New Orleans, LA*
- Luis Angel Cubano, Ph.D., *Universidad Central del Caribe, Bayamón, Puerto Rico*
- C. Ainsley Davis, Ph.D., *Bethune-Cookman University, Daytona Beach, FL*
- Aline de Conti, Ph.D., *Food and Drug Administration—National Center for Toxicological Research, Jefferson, AR*
- Kelly Diggs-Andrews, Ph.D., *American Society for Microbiology, Washington, DC*
- Shandee D. Dixon, Ph.D., *University of California, Irvine, Irvine, CA*
- Candice M. Etson, Ph.D., *Wesleyan University, Middletown, CT*
- Maryrose Franko, Ph.D., *Health Research Alliance, Durham, NC*
- Kathryn M. Frietze, Ph.D., *University of New Mexico Health Sciences, Albuquerque, NM*
- Shilpa Gadwal, Ph.D., *American Society for Microbiology, Washington, DC*
- Carmen Gherasim, Ph.D., *University of Michigan Medical School, Ann Arbor, MI*
- Jeremy J. Gilbreath, Ph.D., *BioFire Diagnostics, Salt Lake City, UT*
- Lisa Goering, Ph.D., *St. Edward's University, Austin, TX*
- Nicholas E. Grossoehme, Ph.D., *Winthrop University, Rock Hill, SC*
- Joshua Hall, Ph.D., *University of North Carolina at Chapel Hill, Chapel Hill, NC*
- Camille Hardiman, Ph.D., *Yale University, New Haven, CT*
- Olivia Harriott, Ph.D., *Fairfield University, Fairfield, CT*
- Alvin A. Holder, Ph.D., *Old Dominion University, Norfolk, VA*
- DiAnna L. Hynds, Ph,D., *Texas Woman's University, Denton, TX*
- Keisha John, Ph.D., *University of Virginia, Charlottesville, VA*
- Thomas Landefeld, Ph.D., *California State University, Dominguez Hills, Dominguez Hills, CA*
- Nathan H. Lents, Ph.D., *John Jay College, City University of New York, New York, NY*
- Samantha C. Lewis, Ph.D., *University of California, Davis, Davis, CA*
- Sharifa Love-Rutledge, Ph.D., *Michigan State University, East Lansing, MI*
- Marsha Lucas, Ph.D., *Society for Developmental Biology, Bethesda, MD*
- Corrin McBride Hunt, Ph.D., *Johns Hopkins Center for Talented Youth, Baltimore, Maryland*
- Kris Miles, Ph.D., DABT, *Kimberly-Clark Corporation, Roswell, GA*
- Beronda Montgomery, Ph.D., *Michigan State University, East Lansing, MI*
- Steevenson Nelson, Ph.D., *National Institutes of Health, Bethesda, Maryland*
- Peter M. O'Day, Ph.D., *University of Oregon, Eugene, OR*
- Hellen Oketch-R, Ph.D., *United States Pharmacopeia, Rockville, MD*
- Phillip Ortiz, Ph.D., *State University of New York, Stony Brook, NY*
- Saundra Herndon Oyewole, Ph.D., *Trinity Washington University, Washington, DC*
- Justine M. Pompey, Ph.D., *Centers for Disease Control and Prevention, Atlanta, GA*
- Jose Luis Ramirez, Ph.D., *National Institutes of Health, Rockville, MD*
- Pranav Rathi, Ph.D., *University of New Mexico, Albuquerque, NM*
- Jason M Rauceo, Ph.D., *John Jay College, City University of New York, New York, NY*
- Edgardo Sanabria-Valentin, Ph.D., *John Jay College, City University of New York, New York, NY*
- Marion B. Sewer, Ph.D., *University of California, San Diego, San Diego, CA*
- Jillian Silva, Ph.D., *University of California, San Francisco, San Francisco, CA*
- Laurel Southard, *Cornell University, Ithaca, NY*
- Christopher W. Stewart, Ph.D., *DABT, MPI Research, Mattawan, MI*
- Deirdre Thompson, M. S., *Howard University and Prince George's Community College, Washington, DC*
- Cynthia van Golen, Ph.D., *Delaware State University, Dover, DE*
- Sara Vetter, Ph.D., *Minnesota Department of Health, St. Paul, MN*
- Marcelo Vinces, Ph.D., *Oberlin College, Oberlin, OH*
- Robert J. Walker, Ph.D., *Wayne State University, Detroit, MI*
- Danielle Watt, Ph.D., *Umea University and University of California, Irvine, Irvine, CA*

Notes

ABRCMS Judging Rubric – Poster & Oral Presentations

SCORE	HYPOTHESIS, OBJECTIVE OR STATEMENT OF PROBLEM	METHODS (sample/study participants, study design, procedures)	RESULTS	CONCLUSION/DISCUSSION/ FUTURE WORK
1	• The hypothesis/objective/ statement of problem was inappropriate or was missing • Little or no background information was included or connected • Hypothesis/objective of project was not stated	• No discussion of choice of methods • No discussion on methods	• Results are not yet available or reproducible • Presentation of data was missing	• Conclusions were missing • There was no connection with the hypothesis/objective/ statement of problem • Discussion was missing
2	• A questionable hypothesis/ statement of problem was presented and was not necessarily supported • Some relevant background information/introduction was included, but not connected with the project • Hypothesis/objective of project was not clear	• No discussion of choice of methods • Methods are not adequately described	• Some data were lacking not fully sufficient to address the hypothesis/objective/ statement of problem • Presentation of data was included, but unclear or difficult to comprehend	• Conclusions/discussion were given • Little connection with the hypothesis/objective/ statement of problem was apparent
3	• The hypothesis/objective/ statement of problem was presented was not clearly presented • Background introduction was relevant, but not connected to the project • Hypothesis/objective of project was stated understandably	• Little discussion of why methods were chosen • Some discussion on methods but with some deficiency (lacks some key information to fully understand what was done)	• Adequate amounts of reasonably good data were presented to address the hypothesis/objective/ statement of problem • Presentation of data was not entirely clear	• Reasonable conclusions were given • Conclusions/discussion were not compared to the hypothesis/objective/ statement of problem and their relevance was not discussed
4	• A logical hypothesis/statement of problem was presented • Background information was relevant, but connections were not clear • Hypothesis/objective of project was stated clearly; showed relevance beyond project	• Good explanation of the choice of methods • Clear and accurate discussion of methods used to carry out the research	• Sufficient amounts of good data were presented to address the hypothesis/ objective/statement of problem • Presentation of data was clear and logical	• Reasonable conclusions were given and supported with evidence • Conclusions/discussion were compared to hypothesis/ objective/statement of problem, but their relevance was not discussed
5	• A logical hypothesis/objective/ statement of problem was presented clearly • Background information was relevant and summarized well. Connections to previous literature and broader issues were clear • Hypothesis/objective of project was stated clearly and concisely; showed clear relevance beyond project	• Clear and appropriate rationale for why specific methods were chosen • Clear and accurate discussion of methods used to carry out the research	• Substantial amounts of high quality data were presented sufficient to address the hypothesis/objective/ statement of problem • Presentation of data was clear, thorough, and logical	• Reasonable conclusions were given and strongly supported with evidence • Conclusions/discussion were compared to hypothesis/ objective/statement of problem and their relevance in a wider context was discussed

SCORE	OVERALL PRESENTATION & HANDLING QUESTIONS	POSTER BOARD/POWERPOINT PRESENTATION
1	• Does not demonstrate any knowledge of the research project • Reads from the poster (slide or script) all the time • Does not understand questions • Presentation is very confusing	• Some of the expected components* are present, but poorly laid out and confusing to follow in the absence of the presenter. • The text is hard to read, messy and illegible, and contains multiple spelling or typographical errors very poor background • The figures and tables are poorly done • Visual aids are not used
2	• Demonstrates a poor knowledge of the research project • Reads from the poster (slide or script) most of the time • Has difficulty answering questions • Presentation is unclear	• Some of the expected components* are present, but layout is untidy and confusing to follow in the absence of the presenter • The text is hard to read due to font size or color and inconsistently free of spelling or typographical errors; the board/slide background may be distracting • The figures and tables are not related to the text, or are not appropriate, or are poorly labeled • Photographs/tables/graphs are limited and do not improve understanding of the project
3	• Demonstrates some knowledge of the research project • Uses visual aids to enhance the presentation • Has some difficulty answering challenging questions • Presentation is generally unclear and inconsistent	• Most of the expected components* are present, but layout is confusing to follow in the absence of presenter • The text is relatively clear and legible, but inconsistently free of spelling or typographical errors; the board/slide background may be distracting • The figures and tables are not always related to the text, or appropriate, or are labeled incorrectly • Photographs/table/graphs do not improve understanding
4	• Demonstrates a good knowledge of the research project • Speaks clearly and naturally; makes eye contact • Answers most questions • Presentation is clear for the most part, but not consistently	• All expected components* are present, but layout is crowded or jumbled and somewhat confusing to follow in the absence of presenter • The text is relatively clear, legible, and mostly free of spelling or typographical errors; the board/slide background is unobtrusive • Most of the figures and tables are appropriate and labeled correctly • Photographs/tables/graphs improve understanding
5	• Demonstrates a very strong knowledge of the research project • Speaks clearly, naturally and with enthusiasm; makes eye contact • Answers difficult questions clearly and succinctly • Presentation is consistently clear and logical	• All expected components* are present, clearly laid out, and easy to follow in the absence of presenter • The text is concise, legible, and consistently free of spelling or typographical errors; the board/slide background is unobtrusive • The figures and tables are appropriate and consistently labeled correctly • Photographs/tables/graphs improve understanding and enhance the visual appeal **components are defined as title, authors and affiliations, abstract, hypothesis, goals and/or objective, introduction, results, discussion, conclusion, future direction, bibliography and acknowledgments.*

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Blockmon, Avery	**Chemistry: Physical Chemistry**	**O014**
Boachie-Mensah, Michael	**Neuroscience: Neurobiology**	**O085**
Boakye, Jeffrey	**Cancer Biology: Cancer Biology**	**O055**
Boeta Lopez, Karla	Developmental Biology and Genetics: Genetics	B115
Bogale, Kaleb	Neuroscience: Neurobiology	F232
Bogdanov, Jacob	Engineering, Physics and Mathematics: Bioengineering	A152
Bogue, Wil	Physiology: Physiology	A250
Bolanos, Alfredo	Neuroscience: Neuroscience	A015
Boni, Yannick	Neuroscience: Neurobiology	D151
Borras-Pacheco, Tania	**Molecular and Computational Biology: Bioinformatics**	**O034**
Borrego, Ernesto	Engineering, Physics and Mathematics: Material Sciences	F149
Bower, Joseph	Cancer Biology: Cancer Biology	D043
Bowers, Jonathan	Molecular and Computational Biology: Genomics	B204
Bowman, Shakema	Engineering, Physics and Mathematics: Material Sciences	D106
Boyd, Jada	Cancer Biology: Cancer Biology	F060
Boyi, Trinithas	Developmental Biology and Genetics: Developmental Biology	B133
Boykin, Khadijah	Engineering, Physics and Mathematics: Mathematics	A153
Bracey, Kai	Neuroscience: Neurobiology	A288
Bracey, Syrena	Biochemistry: Metabolism	F045
Bradley, Joseph	Developmental Biology and Genetics: Developmental Biology	C085
Brambila, Carlos	**Engineering, Physics and Mathematics: Bioengineering**	**O070**
Branch, LaDonna	Molecular and Computational Biology: Computational Biology	C134
Brandon, Ken	Microbiology: Environmental Microbiology	A189
Brantley, Branden	Physiology: Nutrition	C170
Brathwaite, Nyeisha	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	E181
Bravo, Priscilla	Cancer Biology: Cancer Biology	B286
Braxton, Tyler	Neuroscience: Psychobiology	F244
Brewer, Sharee	Molecular and Computational Biology: Bioinformatics	G205
Brewton, Honoree'	Physiology: Physiology	D167
Brice, Robin	Cell Biology: Molecular Imaging	D055
Broadnax, LaCassidy	Developmental Biology and Genetics: Genetics	B117
Brooks, Evan	Developmental Biology and Genetics: Developmental Biology	F128
Brooks, Dominic	Molecular and Computational Biology: Computer Sciences	D138
Brooks Rivera, Roy	Neuroscience: Neuroscience	F241
Brown, James	Neuroscience: Psychobiology	B229
Brown, Lionel	Microbiology: Bacteriology	D127
Brown, Rachel	Immunology: Immunology	E110
Brown, Mya	Chemistry: Analytical Chemistry	B112
Brown, Deniece	**Microbiology: Virology**	**O032**
Brown, Keaon	Chemistry: Organic Chemistry	A100
Brown, Simone	Social and Behavioral Sciences and Public Health: Psychology	A274
Brown, Tiara	Chemistry: Inorganic Chemistry	B089
Brown, Annalyn	Cell Biology: Cell Biology	E049
Brown, Reginald	Developmental Biology and Genetics: Developmental Biology	C005
Brown, Shanai	Molecular and Computational Biology: Bioinformatics	A208
Brown, Joshua	Biochemistry: Structural Biology	E190
Brown, Kwame	Chemistry: Inorganic Chemistry	C191

Carter, Cord	Biochemistry: Structural Biology	A284
Cartwright, Jill	Social and Behavioral Sciences and Public Health: Psychology	G271
Casey, Dion	Engineering, Physics and Mathematics: Nanotechnology	G143
Cason, Joshua	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	D172
Castillo, Raychel	**Cell Biology: Molecular Imaging**	**O012**
Castillo, Erik	Neuroscience: Neurobiology	E146
Castillo Cabrera, Johnny	Cancer Biology: Cancer Biology	B020
Castro, Jose	Biochemistry: Biochemistry	A275
Castro, Amanda	Social and Behavioral Sciences and Public Health: Psychology	B007
Castro, Arlene	Microbiology: Environmental Microbiology	D122
Castro-Martinez, Alexander	Microbiology: Environmental Microbiology	B178
Catalan-Hurtado, Rodrigo	Microbiology: Bacteriology	D126
Caver, Elizabeth	Neuroscience: Neurobiology	D146
Cawthon, Bryan	Neuroscience: Neuroscience	B276
Cazares, Christian	Neuroscience: Neuroscience	A018
Cephas, Duyania	Neuroscience: Neurobiology	B240
Cerrato, Karla	Microbiology: Bacteriology	G187
Cervantes, Vanessa	Cell Biology: Cell Biology	C185
Cervantes, Layla	Microbiology: Bacteriology	C128
Chadha, Haneet	Developmental Biology and Genetics: Developmental Biology	A131
Chahine, Zeinab	Developmental Biology and Genetics: Evolution and Developmental Biology	G132
Chai, Chloe	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A257
Chamberlin, Jacob	**Social and Behavioral Sciences and Public Health: Psychology**	**O048**
Chancellor, Blake	Cancer Biology: Cancer Biology	A058
Chaves, Chelsea	Chemistry: Pharmaceutical Chemistry	E063
Chavez, Edwin	Cell Biology: Cell Biology	E053
Chavez, Alexandria	Molecular and Computational Biology: Proteomics	B211
Chavez, George	Microbiology: Environmental Microbiology	F196
Chavez-Martinez, Carmine	Neuroscience: Neuroscience	F227
Cheeves, Jasmine	Chemistry: Analytical Chemistry	C065
Cherenfant, Chrissy	Physiology: Pharmacology	F246
Chery, Michael	Engineering, Physics and Mathematics: Material Sciences	D101
Ching, Mc Millan	Microbiology: Mycology	A188
Chipangura, Yevedzo	Chemistry: Physical Chemistry	G107
Chisolm, Dakarai	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O047**
Choi, Seung Ho (Steven)	**Biochemistry: Structural Biology**	**O004**
Choi, Jinhee	Chemistry: Organic Chemistry	C067
Chong, Ashley	Biochemistry: Structural Biology	G049
Chorzempa, Heather	**Cancer Biology: Cancer Biology**	**O007**
Christophe, Angelo	Developmental Biology and Genetics: Evolution and Developmental Biology	G015
Christopher, Lauren	Social and Behavioral Sciences and Public Health: Anthropology	E180
Chumbow, Anne	**Cancer Biology: Cancer Biology**	**O006**
Cintron, Kevin	Developmental Biology and Genetics: Genetics	D088
Cintron, Urieliz	Physiology: Systems Biology	D170
Cirincione, Ann	Microbiology: Virology	G181
Clark, Gabrielle	Engineering, Physics and Mathematics: Bioengineering	B149
Clark, Nyashe	Biochemistry: Biomolecules	F048
Clark, Ashley	Cell Biology: Plant Biology	F076
Clark, Cedric	**Developmental Biology and Genetics: Genetics**	**O020**
Clarke, Erlyana	Immunology: Immunology	F169
Clausing, Kelsey	Neuroscience: Neurobiology	B243
Clay, Delisa	**Developmental Biology and Genetics: Developmental Biology**	**O067**
Clower, Patrick	Developmental Biology and Genetics: Developmental Biology	E087
Cobb, Keith	Chemistry: Organic Chemistry	F090
Cockfield, Jordan	Cancer Biology: Cancer Biology	A056
Colbert, Michelle	Microbiology: Microbial Physiology	A175
Coleman, Cheyenne	Chemistry: Environmental Chemistry	C060
Colina, Alfredo	**Microbiology: Environmental Microbiology**	**O079**

Davis, Myles	Cancer Biology: Cancer Biology	B287
Davis, Xenia	Social and Behavioral Sciences and Public Health: Psychology	B262
Davis, Jakeira	Neuroscience: Neuroscience	A229
Davis, Sandra	Cancer Biology: Cancer Biology	D046
Dawit, Ezana	Engineering, Physics and Mathematics: Biostatistics	A146
Dawkins, Karim	Microbiology: Environmental Microbiology	G289
Day, Centennial	Neuroscience: Neurobiology	C159
De Jesus, Algenis	Immunology: Immunology	C110
De Jesús Astacio, Luis	Engineering, Physics and Mathematics: Biophysics	F155
de la Rosa, Natasha	Cell Biology: Cell Biology	B024
De La Toba, Eduardo	Chemistry: Analytical Chemistry	C074
De La Torre, Jessica	Microbiology: Microbial Physiology	F179
De Los Santos, Sabrina	Biochemistry: Biochemistry	E017
Dean, Cassandra	Neuroscience: Neuroscience	F217
Deck, Samuel	Microbiology: Virology	D129
Declet, Carlos Declet	Microbiology: Virology	E129
Dedicatoria, Kay	Microbiology: Bacteriology	B189
Defendini, Ana	Neuroscience: Neuroscience	F226
Degrgori, Samuel	Microbiology: Environmental Microbiology	D116
DeJean, Christina	Cell Biology: Plant Biology	D057
DeJesus, Shannon	Social and Behavioral Sciences and Public Health: Psychology	C174
Del Cid, Anthony	Chemistry: Pharmaceutical Chemistry	B108
Del Rosario, Cathlene	Chemistry: Organic Chemistry	G001
del Rosario, Beverlin	Social and Behavioral Sciences and Public Health: Psychology	G257
Dele-Oni, Deborah	Biochemistry: Biochemistry	G033
Delgado, Nomarys	Cell Biology: Cell Biology	F079
Deluna, Aria	Biochemistry: Structural Biology	F029
Denagamage, Sachira	Engineering, Physics and Mathematics: Bioengineering	E107
Dent, Shaquitta	Neuroscience: Neurobiology	E150
Denyo, Godwin	Neuroscience: Neuroscience	G230
Deve, Maya	Molecular and Computational Biology: Bioinformatics	E135
Devera, Jean	Chemistry: Physical Chemistry	G093
Diaz, Alina	Neuroscience: Neuroscience	G233
Díaz, Ernie	Cancer Biology: Cancer Biology	E041
Dieppa, Diómedes	Chemistry: Organic Chemistry	F018
Dieseldorff Jones, Karissa	Physiology: Systems Biology	G279
Digal, Lori	Chemistry: Organic Chemistry	C068
Dill, Julian	Cell Biology: Cell Biology	G080
Dillard, Danielle	**Developmental Biology and Genetics: Genetics**	**O018**
DiStefano, Tyler	Engineering, Physics and Mathematics: Bioengineering	C016
Dixon, Karien	Microbiology: Microbial Physiology	E132
Dixon, Ricky	Chemistry: Environmental Chemistry	A088
Dixon, Patrice	Biochemistry: Biochemistry	B042
Dobey, Nicole	Physiology: Physiology	G252
Doliotis, Antonios	Engineering, Physics and Mathematics: Mathematics	C106
Dominguez, Steven	Chemistry: Analytical Chemistry	A110
Dominguez, Cesar	Neuroscience: Neuroscience	B217
Dong, Mirae	Microbiology: Bacteriology	B192
Donner, Anita	Biochemistry: Biochemistry	F032
Donovan, Alexandra	Biochemistry: Biochemistry	A276
Dormeus, Guidalia	Microbiology: Microbial Physiology	B183
Dorsett, Sedona	Developmental Biology and Genetics: Evolution and Developmental Biology	E080
Douglass, Martin	Microbiology: Mycology	A198
Downer, LaTanya	Chemistry: Analytical Chemistry	F094
Downs, Latoyia	Microbiology: Bacteriology	C116
Drake, Rebecca	Engineering, Physics and Mathematics: Bioengineering	B150
Drew, Jordan	Neuroscience: Neuroscience	A215
Dua, Alisha	**Neuroscience: Neurobiology**	**O040**

Felix, David	Microbiology: Parasitology	A183
Feliz-Mosquea, Yismeilin	Cancer Biology: Cancer Biology	F021
Felton, Lisa	Engineering, Physics and Mathematics: Bioengineering	D098
Fenollal-Maldonado, Gabriela	Cancer Biology: Cancer Biology	G058
Ferguson, Brielle	Neuroscience: Neuroscience	E192
Fernandez, Wendy	Molecular and Computational Biology: Computational Biology	G208
Fernandez, Angela	Chemistry: Environmental Chemistry	B098
Fernandez, Porfirio	**Neuroscience: Neurobiology**	**O088**
Fernandez, Leandro	Engineering, Physics and Mathematics: Nanotechnology	G141
Fernandez, Luke	Molecular and Computational Biology: Computer Sciences	C142
Fernandez-Rubio, Aleida	**Developmental Biology and Genetics: Genetics**	**O019**
Ferreira, Jacob	Microbiology: Virology	E118
Ferrer, Christopher	Neuroscience: Neuroscience	A212
Ferrer del Busto, Maria	Chemistry: Inorganic Chemistry	G013
Fidis, Robert	Developmental Biology and Genetics: Developmental Biology	B128
Fields, Blanche	Microbiology: Microbial Physiology	E003
Fields, Joseph-Michael	Cancer Biology: Cancer Biology	A065
Figueroa, Lysmarie	Engineering, Physics and Mathematics: Bioengineering	C107
Figueroa, Mary	Cancer Biology: Cancer Biology	E034
Figueroa, Maria	Cancer Biology: Cancer Biology	B061
Fimbres, Valeria	Social and Behavioral Sciences and Public Health: Psychology	D174
Finnie, James	Engineering, Physics and Mathematics: Mathematics	A159
Fitch, Amelia	Microbiology: Environmental Microbiology	B174
Fletcher, Jerrine	Cancer Biology: Cancer Biology	G068
Flores, Judith	Chemistry: Analytical Chemistry	E073
Flores, Natalie	Developmental Biology and Genetics: Genetics	A130
Flores, Rachel	Molecular and Computational Biology: Proteomics	G009
Flores, Zara	Neuroscience: Neurobiology	G222
Flores, Juan	Biochemistry: Biochemistry	A042
Flores, Alejandra	Biochemistry: Biomolecules	D026
Flores Hernández, Andrea	Developmental Biology and Genetics: Evolution and Developmental Biology	D083
Floyd, Taylor	Neuroscience: Neuroscience	E163
Folse, Harmony	Biochemistry: Biochemistry	A002
Ford, DeJuana	Cancer Biology: Cancer Biology	B021
Fortune, Trinisia	Cell Biology: Molecular Imaging	C052
Foster, Kristoff	Neuroscience: Neurobiology	A234
Franceschini, Fran	Neuroscience: Neuroscience	B235
Francis, Zanah	Microbiology: Bacteriology	D130
Franklin, Dakari	Engineering, Physics and Mathematics: Biophysics	F145
Franklin, Janay	Microbiology: Bacteriology	F182
Franqui, Naymar	Neuroscience: Neuroscience	C157
Frazier, Chantrell	Molecular and Computational Biology: Proteomics	E138
Fritzsching, Shirley	Cell Biology: Plant Biology	D048
Fuller, Cameron	Chemistry: Environmental Chemistry	B088
Fuqua, Timothy	Developmental Biology and Genetics: Developmental Biology	E088
Gabriel, Gailyn	Neuroscience: Neurobiology	B219
Gallant, Kelsey	Cancer Biology: Cancer Biology	A050
Galvez, Hector	Cancer Biology: Cancer Biology	B066
Gant, Prenicia	Neuroscience: Neuroscience	F214
Garcia, Jessica	Neuroscience: Neuroscience	G235
Garcia, Angela	Neuroscience: Neuroscience	G231
Garcia, Cristina	Microbiology: Virology	B197
Garcia, Brian	Developmental Biology and Genetics: Genetics	G116
Garcia, Adrian	Neuroscience: Neuroscience	A019
Garcia, Joshua	Biochemistry: Biochemistry	C022
Garcia, Stephanie	Neuroscience: Neurobiology	A236
Garcia, Geyon	Developmental Biology and Genetics: Genetics	F132
García, Melody	Developmental Biology and Genetics: Genetics	A132

Gregoire, Villisha	Developmental Biology and Genetics: Genetics	A125
Gregory, Camille	Neuroscience: Neurobiology	E157
Grennell, Justin	Chemistry: Analytical Chemistry	C003
Griffith, Leiana-Mejoi	Cell Biology: Cell Biology	G078
Grogan, Depresia	Molecular and Computational Biology: Bioinformatics	E186
Guerrero, Oscar	Neuroscience: Neuroscience	D150
Guillen, Erik	Engineering, Physics and Mathematics: Bioengineering	G150
Gullo, Joy	Cancer Biology: Cancer Biology	C036
Gupta, Jay	**Neuroscience: Neurobiology**	**O037**
Guthrie, Nicholas	Molecular and Computational Biology: Proteomics	D134
Guthrie, Quibria	Chemistry: Organic Chemistry	E059
Gutierrez, Dominique	Microbiology: Virology	C123
Gutierrez, Ednia	Social and Behavioral Sciences and Public Health: Psychology	F267
Gutierrez-Mirabal, Pura	Immunology: Immunology	G168
Gutzmore, Alessandrio	Engineering, Physics and Mathematics: Nanotechnology	D097
Guzman, Rosa	Cancer Biology: Cancer Biology	B063
Guzman, Lissette	Neuroscience: Neurobiology	B227
Guzman, Annerys	Neuroscience: Neurobiology	C152
Guzman, Andrea	Engineering, Physics and Mathematics: Bioengineering	G139
Hackshaw, Lemuel	**Cell Biology: Cell Biology**	**O009**
Haggerty, Michael	Neuroscience: Neurobiology	F223
Haile, Sara	Biochemistry: Structural Biology	D032
Hairston, Mark	Developmental Biology and Genetics: Developmental Biology	A118
Hall, Marquez	Cell Biology: Cell Biology	G074
Hall, Steven	Chemistry: Organic Chemistry	D066
Hamid, Waqas	**Cell Biology: Plant Biology**	**O059**
Hamideh, Shadia	Cell Biology: Cell Biology	A085
Hamilton, Kimberly	Cell Biology: Plant Biology	C057
Hamilton, Natalie	**Immunology: Immunology**	**O074**
Hampton, Brea	Microbiology: Virology	E006
Hanna, Jonathan	Developmental Biology and Genetics: Genetics	F127
Hansen, Bridget	Biochemistry: Biochemistry	B025
Hardy, Lakeya	Microbiology: Bacteriology	G023
Hargett, Imani	Cancer Biology: Cancer Biology	B062
Harley, Randall	**Neuroscience: Neurobiology**	**O087**
Harris, Kayla	Microbiology: Bacteriology	A180
Harris, Ingrid	Microbiology: Environmental Microbiology	G290
Harris, Samantha	Cell Biology: Cell Biology	A087
Harris, Koran	Biochemistry: Metabolism	E032
Harrison, Helen	Neuroscience: Neuroscience	D157
Hart, Ayana	Neuroscience: Neuroscience	G215
Hart, Talia	Developmental Biology and Genetics: Developmental Biology	C088
Hartanto, Samantha	Cell Biology: Molecular Imaging	A076
Harvey, Jayla	Neuroscience: Neuroscience	D160
Harvey, Krysten	Molecular and Computational Biology: Bioinformatics	G201
Hatfield, Marsella	Biochemistry: Biochemistry	B047
Hawayek, Maria	Cancer Biology: Cancer Biology	A069
Hawks, Alexis	Chemistry: Organic Chemistry	B101
Hayes, Tristan	Immunology: Immunology	F287
Hayes, Joshua	Neuroscience: Neuroscience	A020
Haynes, Zane	Microbiology: Bacteriology	B172
Haywood, Nicole	Neuroscience: Neuroscience	B233
Heard, Darby	Cell Biology: Cell Biology	C051
Hector, Kervens	Cancer Biology: Cancer Biology	G051
Helf, Megan	Cell Biology: Cell Biology	D058
Henderson, Ashley	Cell Biology: Plant Biology	B085
Hendricks, Amara	Cell Biology: Cell Biology	A079
Hendrix, C'Brionne	Developmental Biology and Genetics: Genetics	A122

Hunt, Aisha	Cancer Biology: Cancer Biology	A291
Hunt, Jaden	Microbiology: Bacteriology	C119
Hurst, Natalie	Microbiology: Microbial Physiology	A197
Hussain, Syed	Chemistry: Analytical Chemistry	F112
Hutchins, Shermaine	Developmental Biology and Genetics: Genetics	A133
Hutchins, Romanus	Engineering, Physics and Mathematics: Material Sciences	G154
Hutchinson, Marsha-Kay	Physiology: Pharmacology	A252
Hutchinson, Lori	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	C172
Hymes, Wangui	**Developmental Biology and Genetics: Evolution and Developmental Biology**	**O065**
Hysa, Lisa	Neuroscience: Neuroscience	C163
Ibarra, Jorge	Biochemistry: Biochemistry	F031
Idowu, Kehinde	Cancer Biology: Cancer Biology	E036
Igbaroola, Oluwagbotemi	Developmental Biology and Genetics: Genetics	D087
Igwebuike, Chinaemere	Cell Biology: Cell Biology	G284
Imbiakha, Brian	Microbiology: Virology	E116
Ingham, Christian	Engineering, Physics and Mathematics: Mathematics	F150
Inglés-Martínez, Natasha	Biochemistry: Biochemistry	D030
Isaiah, Ekemini	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	E182
Iyer, Aishwarya	Biochemistry: Structural Biology	G041
Iyiewaure, Peace	Social and Behavioral Sciences and Public Health: Psychology	A265
Izabel, Sarah	Neuroscience: Neuroscience	A222
Izquierdo, Karen	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O046**
Jackson, Brie	Physiology: Endocrinology	D166
Jackson, Kelcy	Neuroscience: Neuroscience	E144
Jackson, Ryan	Cancer Biology: Cancer Biology	F005
Jackson, Nicholas	Biochemistry: Biochemistry	F026
Jackson, Ronald	Immunology: Immunology	B161
Jackson, Leandra	Biochemistry: Biochemistry	F034
Jackson, Nicholas	Neuroscience: Neuroscience	E155
Jackson, Jasmine	Engineering, Physics and Mathematics: Mathematics	A149
Jackson, Jarrett	Cell Biology: Cell Biology	F081
Jacob, Devin	Cancer Biology: Cancer Biology	B290
Jacobs, Justin	Developmental Biology and Genetics: Evolution and Developmental Biology	A127
Jacques, Frederick	Molecular and Computational Biology: Bioinformatics	G011
Jahan, Naznin	Neuroscience: Neuroscience	A216
Jaimes, Rodrigo	Cancer Biology: Cancer Biology	B060
James, Briana	Immunology: Immunology	D009
Jara, Nataly	Neuroscience: Neurobiology	G224
Jarett, Leigha	**Cell Biology: Cell Biology**	**O058**
Javier, Michelle	Developmental Biology and Genetics: Evolution and Developmental Biology	F135
Jean, Riccardo	Cell Biology: Cell Biology	C187
Jedruszczuk, Kathleen	**Engineering, Physics and Mathematics: Bioengineering**	**O069**
Jefferson, Jameka	Microbiology: Bacteriology	B198
Jeffery, Jasmin	Immunology: Immunology	F162
Jemison, Christopher	Biochemistry: Biochemistry	G036
Jenkins, Sherrall	Developmental Biology and Genetics: Genetics	C092
Jerome, Tatiana	**Immunology: Immunology**	**O026**
Jett, Rashaad-Dreana	Cell Biology: Cell Biology	E057
Jimenez, Alyssa	Microbiology: Bacteriology	F289
Jimenez, Nicole	Molecular and Computational Biology: Genomics	E008
Jimenez-Ruiz, Ivan	Molecular and Computational Biology: Bioinformatics	D141
Jimjimo, Halfiya	Molecular and Computational Biology: Genomics	F201
Jindal, Rajat	Cell Biology: Plant Biology	G077
Joell, Tiarra	Cell Biology: Cell Biology	B080
Johnson, DeMone	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	C183
Johnson, Talon	Molecular and Computational Biology: Bioinformatics	D135
johnson, chantel	Chemistry: Environmental Chemistry	C072
Johnson, Wesley	Microbiology: Environmental Microbiology	B181

Khanam, Thamina	Microbiology: Parasitology	G182
Khuri, Jacob	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A273
Khuu, Cindy	Cell Biology: Cell Biology	G085
Kidd, Jenifer	Microbiology: Virology	G177
Kiflezghi, Michael	Molecular and Computational Biology: Genomics	A206
Kim, Carissa	**Molecular and Computational Biology: Genomics**	**O036**
Kim, Diane	**Social and Behavioral Sciences and Public Health: Sociology**	**O045**
Kim, Sungil	Engineering, Physics and Mathematics: Bioengineering	B145
Kim, Mindy	**Physiology: Physiology**	**O089**
Kim, Sun Mi	Social and Behavioral Sciences and Public Health: Psychology	C180
Kim, Ji Won	Physiology: Toxicology	F249
King, Yemimah	Social and Behavioral Sciences and Public Health: Psychology	B008
King, Zayna	Biochemistry: Biochemistry	C026
King, Mikayla	Social and Behavioral Sciences and Public Health: Psychology	D178
King, Danviona	Chemistry: Inorganic Chemistry	B097
King, Troy	**Microbiology: Microbial Physiology**	**O029**
Kingston, Rody	Neuroscience: Neuroscience	E159
Kirkland, J	Physiology: Anatomy	B252
Kirpach, Aleksandr	Chemistry: Environmental Chemistry	G103
Kisor, Kyle	Cancer Biology: Cancer Biology	F016
Klafehn, Erica	Social and Behavioral Sciences and Public Health: Anthropology	B270
Kline, Jada	Cell Biology: Cell Biology	E056
Klingler, Linus	Cancer Biology: Cancer Biology	B052
Knouna, Kyle	Neuroscience: Neuroscience	F237
Koehler, Cynthia	Biochemistry: Metabolism	D018
Kori, Megha	Cancer Biology: Cancer Biology	G065
Kpegba, Cristel	Developmental Biology and Genetics: Genetics	F114
Kulman, Daniel	Chemistry: Pharmaceutical Chemistry	E060
Kumari, Bharti	Microbiology: Microbial Physiology	G185
Kyeremaa, Rachel	Chemistry: Organic Chemistry	C069
LaBelle, Krista	Cell Biology: Cell Biology	G079
Lacey, Da'Nay	Chemistry: Organic Chemistry	B092
Laje, Kelly	Biochemistry: Metabolism	A283
Lakpa, Shirley	Microbiology: Environmental Microbiology	F190
Lam, Quan	Biochemistry: Biochemistry	A043
Lamour, Tahinah	Developmental Biology and Genetics: Evolution and Developmental Biology	G121
Lanns, Yuleisy	Cell Biology: Plant Biology	G073
Lara, Liliana	Microbiology: Bacteriology	G174
Larios Valencia, Jessie	Microbiology: Microbial Physiology	B173
Larson, Heather	Immunology: Immunology	E111
Lassiter, Alexis	Developmental Biology and Genetics: Genetics	F119
Lauray, Alexandria	Cell Biology: Plant Biology	A074
Lawal, Oluwadamilola	**Molecular and Computational Biology: Computational Biology**	**O084**
Lawrence, Brooke	Developmental Biology and Genetics: Developmental Biology	E082
Lawrence, Nicholas	Cancer Biology: Cancer Biology	A067
LE, TAM	Engineering, Physics and Mathematics: Mathematics	C098
LeBlanc, Ryan	Neuroscience: Neurobiology	G238
Lebron-Garcia, Adrianna	Engineering, Physics and Mathematics: Bioengineering	A160
Lee, Ah-rim	Cancer Biology: Cancer Biology	F055
Lee, Hye Ji	Chemistry: Organic Chemistry	D067
Lee, Christopher	Chemistry: Environmental Chemistry	F281
Lee, Soun Heang	Cell Biology: Plant Biology	A071
Lefebre-Rivera, Monica	Engineering, Physics and Mathematics: Bioengineering	B148
Legall, Noah	Molecular and Computational Biology: Bioinformatics	G209
Leighton, Shelby	Physiology: Physiology	E167
Lemon, Zoë	Engineering, Physics and Mathematics: Biophysics	F144
Leng, Tyler	Developmental Biology and Genetics: Genetics	E078
Leon, Ebony	Social and Behavioral Sciences and Public Health: Psychology	D177

Mack, Angelica	Chemistry: Pharmaceutical Chemistry	F107
Magaña, Joaquín	Molecular and Computational Biology: Computational Biology	C135
Malavé, Ken	Neuroscience: Neurobiology	D152
Maldonado, Alexandra	Developmental Biology and Genetics: Genetics	F134
Maldonado, Juan	Molecular and Computational Biology: Computational Biology	E137
Maldonado, Pablo	Neuroscience: Neuroscience	E193
Malone, Megan	Microbiology: Environmental Microbiology	E117
Mancenido, Briana	Neuroscience: Neuroscience	F231
Mangum, Courtney	**Immunology: Immunology**	**O025**
Manookian, Babgen	Chemistry: Physical Chemistry	F013
Maple, Lareish	Chemistry: Analytical Chemistry	G104
María Ríos, Cristina	Neuroscience: Neuroscience	B242
Marin-Acevedo, Benny	Developmental Biology and Genetics: Developmental Biology	C091
Markova, Svetlana	Cancer Biology: Cancer Biology	A055
Marks, Tereena	Biochemistry: Biomolecules	F039
Marrero-Abreu, Arlette	Engineering, Physics and Mathematics: Bioengineering	D094
Marrett, Kimone	Neuroscience: Neurobiology	G229
Marshall, Mason	Microbiology: Bacteriology	B186
Martin, Marina	Immunology: Immunology	F164
Martin, Shenee'	Neuroscience: Neurobiology	D014
Martin, Brittany	Cancer Biology: Cancer Biology	B068
Martinez, Luis	Biochemistry: Biochemistry	E023
Martinez, Cristina	Engineering, Physics and Mathematics: Mathematics	E099
Martinez, Ludy	**Immunology: Immunology**	**O073**
Martinez, Antoinette	Microbiology: Microbial Physiology	F184
Martinez, October-Rose	Biochemistry: Biochemistry	D023
Martinez, Viridiana	Neuroscience: Neuroscience	F222
Martinez, Paola	Immunology: Immunology	F161
Martinez-Montes, Eduardo	Neuroscience: Neurobiology	A235
Mas, Vivianna	Neuroscience: Neuroscience	D161
Massey, Brandi	Engineering, Physics and Mathematics: Mathematics	A144
Matar Abed, Mahmoud	Engineering, Physics and Mathematics: Bioengineering	F160
Matz, Keesha	**Microbiology: Virology**	**O077**
Mayer, Megan	Chemistry: Organic Chemistry	B094
Maynor, Alexis	Cancer Biology: Cancer Biology	A051
Mayol, Luis	Engineering, Physics and Mathematics: Bioengineering	E093
Mayorga, Luisa	Microbiology: Bacteriology	G176
Mays, Christopher	**Biochemistry: Metabolism**	**O052**
Mays Albu-Shamah, Mays	Cell Biology: Cell Biology	D051
Mbaluka, Beatrice	Cell Biology: Cell Biology	C055
Mburu, Naomi	Engineering, Physics and Mathematics: Bioengineering	G151
McDaniel, Kiara	Chemistry: Analytical Chemistry	B099
McDermott, Courtney	Neuroscience: Neuroscience	A228
McGovern, Janachia	Chemistry: Analytical Chemistry	B090
McGowan, Robert	Social and Behavioral Sciences and Public Health: Sociology	A264
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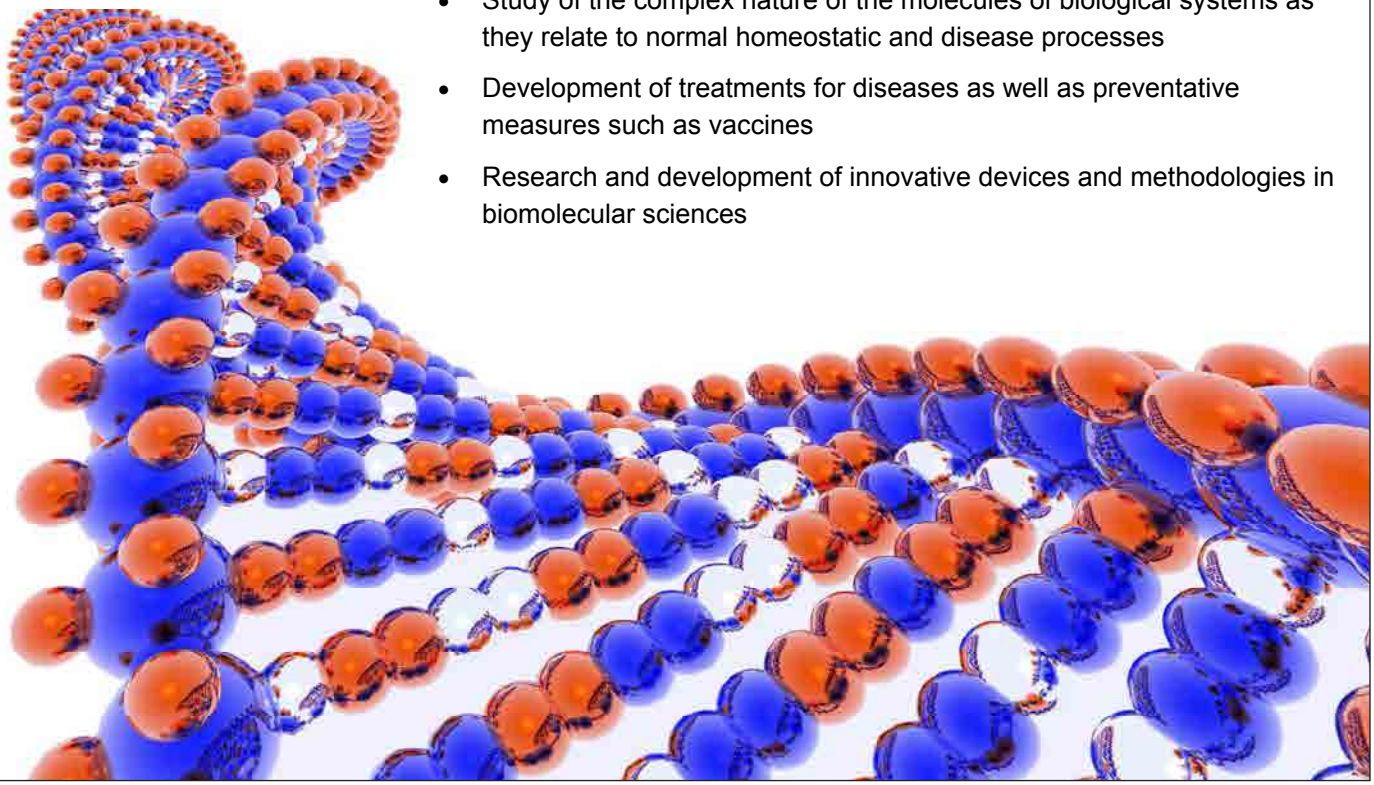

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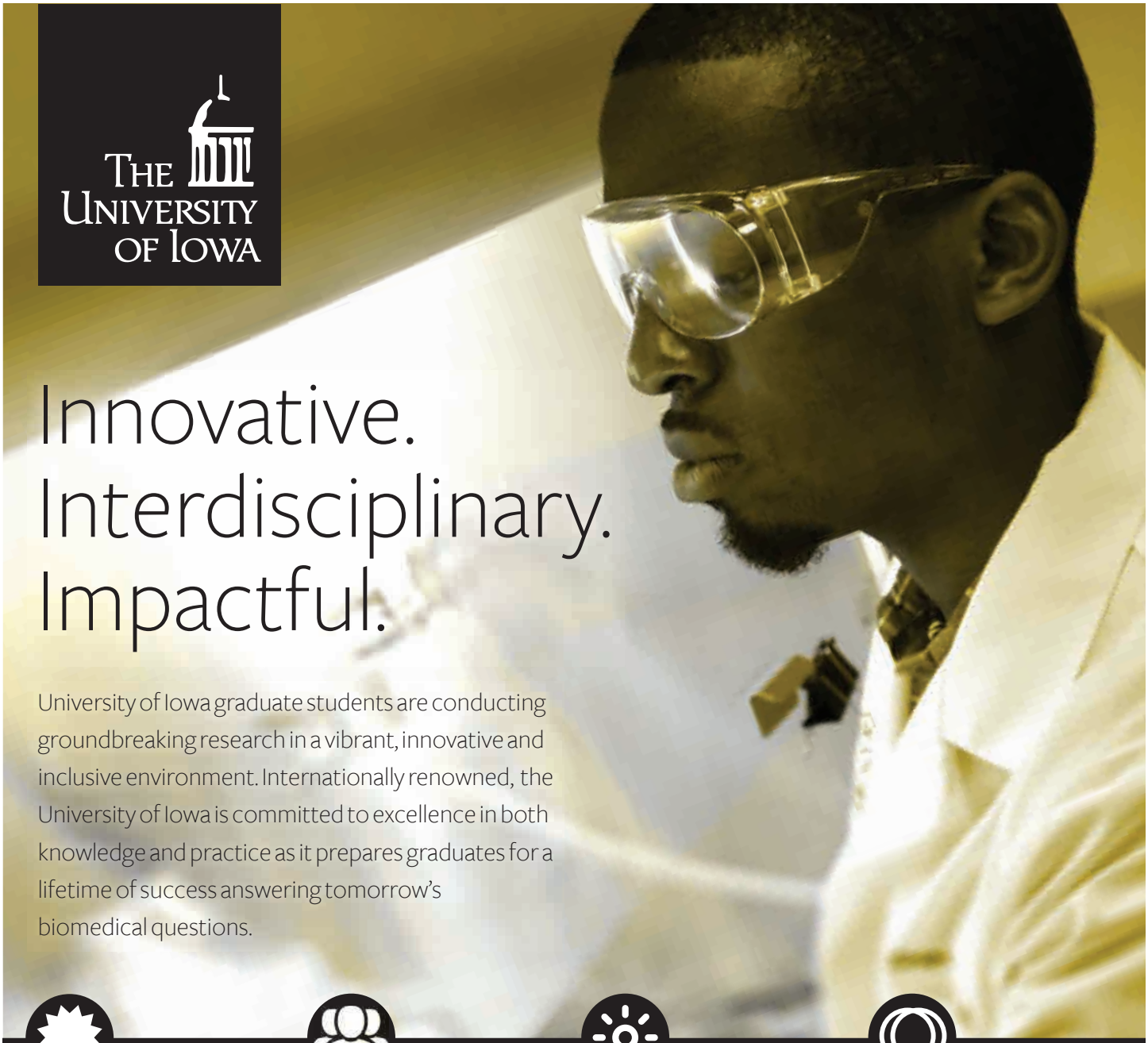

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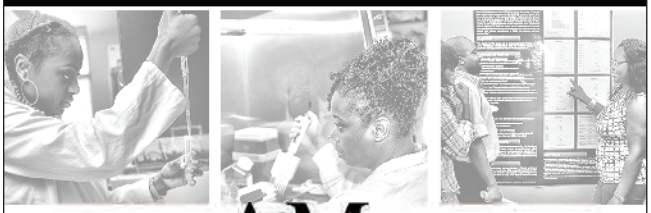


FLORIDA A&M UNIVERSITY

College of Pharmacy and Pharmaceutical Sciences Graduate Programs

The College of Pharmacy and Pharmaceutical Sciences (COPPS) at Florida A&M University is recognized for its premier land grant graduate program that leads the nation in producing African-American scholars in the pharmaceutical and public health sciences. We are looking for students who are passionate about learning and making discoveries that benefit humanity.

M.S. and Ph.D. in Pharmaceutical Sciences

- Environmental Toxicology
- Health Outcomes Research and Pharmacoeconomics
- Medicinal Chemistry
- Pharmaceutics
- Pharmacology/Toxicology

MPH and DrPh in Public Health

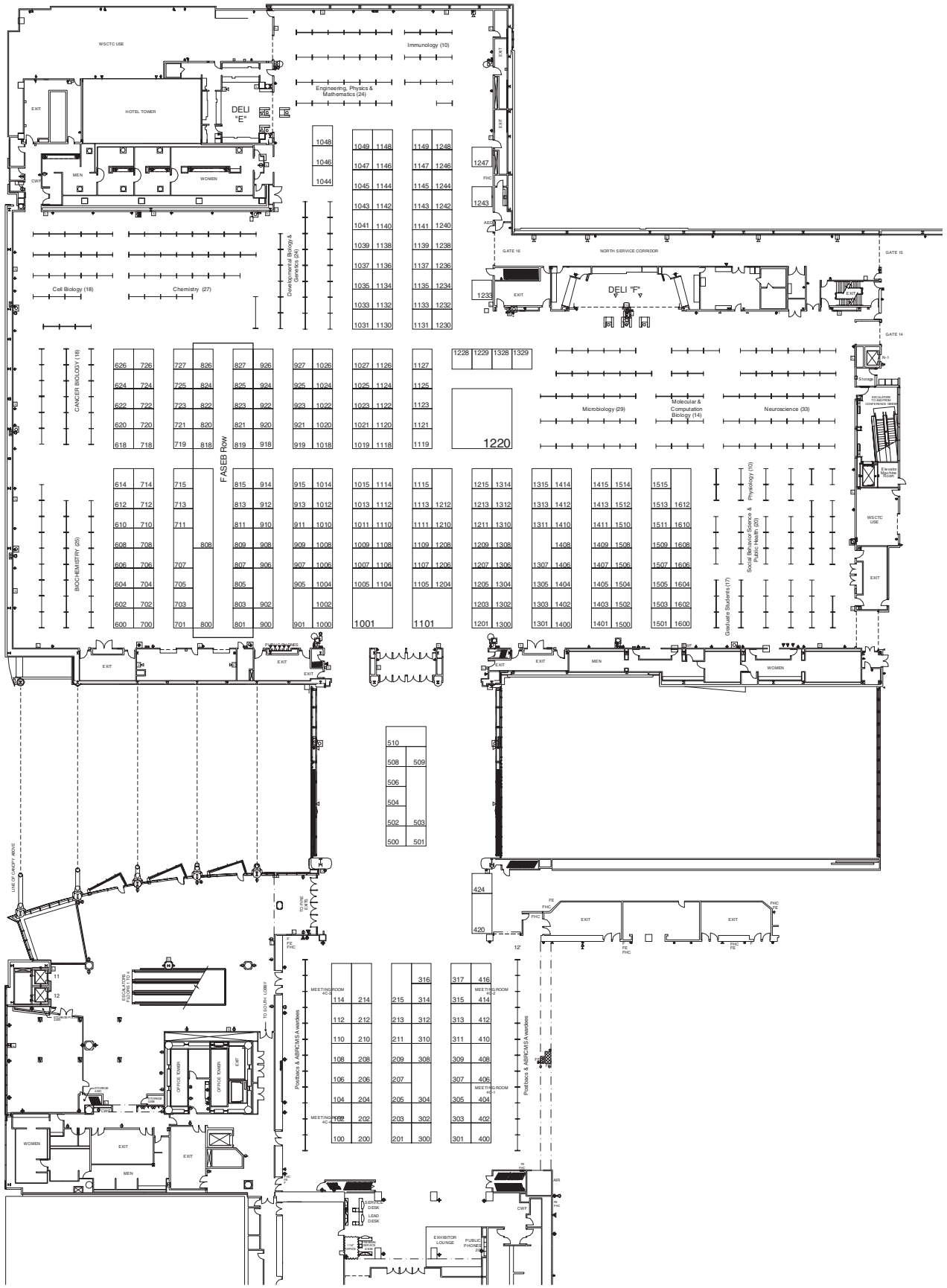
- Environmental and Occupational Health
- Health Policy and Management
- Behavioral Sciences and Health Education
- Epidemiology
- MPH Online Program

Opportunities

- Competitive Annual Stipend
- Paid Tuition and Health Insurance Reimbursement

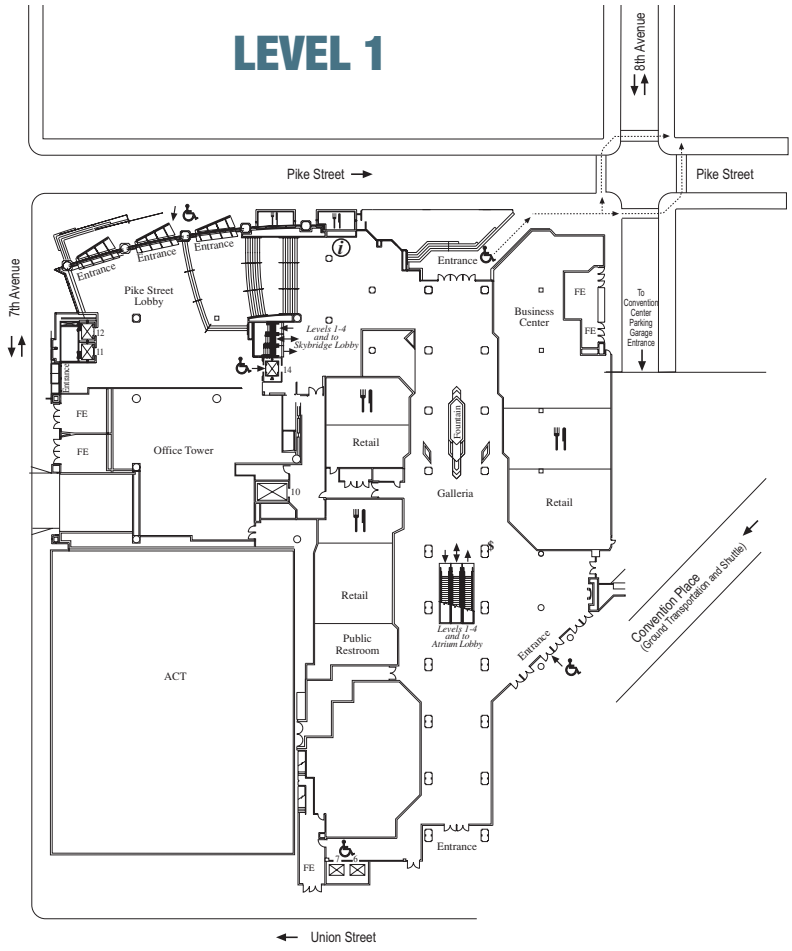
FAMU COLLEGE OF PHARMACY & PHARMACEUTICAL SCIENCES

Exhibition Hall Floor Plan



Convention Center Floor Plan

LEVEL 1



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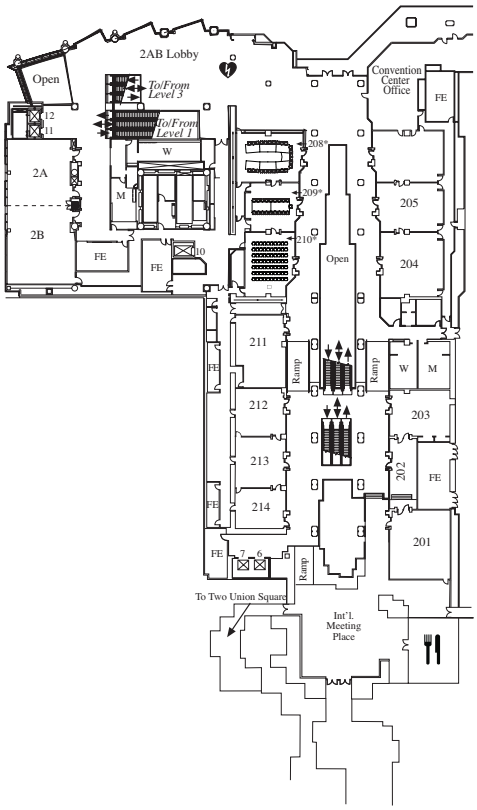
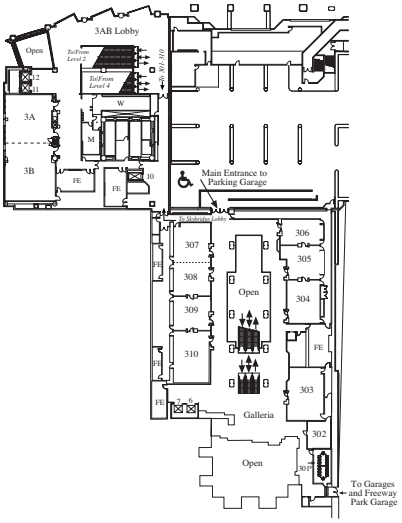


LEVEL 3



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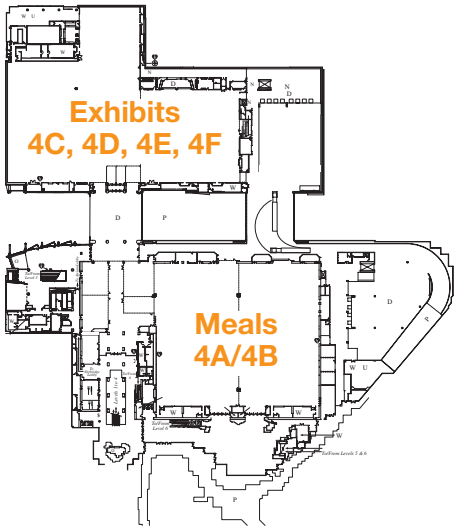

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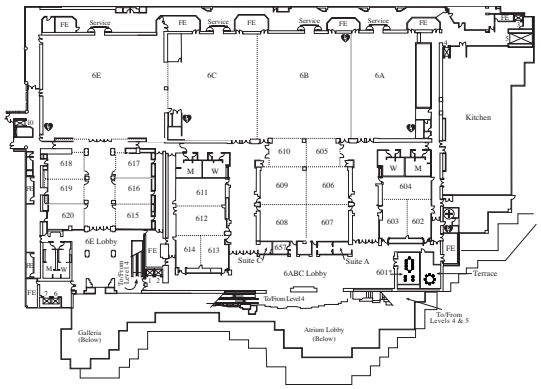

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Reflections/Take Home Message

The Annual Biomedical Research Conference for Minority Students (ABRCMS) is the largest multidisciplinary national student conference designed to encourage students to pursue advanced education and training in the biomedical or behavioral sciences, including mathematics, and provide faculty mentors and advisors with resources for facilitating student success. Approximately 3,500 individuals, including undergraduate students, graduate students, postdoctoral scientists, and faculty and administrators attend the conference.

One of the main goals of the ABRCMS is to challenge everyone to learn new information and to ask questions about the new information. Each day, take a few moments to share your newly acquired knowledge with another student, faculty member, director, or colleague.

Reflections – All ABRCMS Participants...

Regarding a scientific session…

- What was the speaker's primary message?
- What was the problem or the question under study? How did the speaker resolve the problem or answer the question under study?
- What information is known or unknown about this topic?
- What impact does the research have on improving health and well-being of population?
- Are there any "next steps" to study?

Reflections – Students...

Regarding a professional development session…

- What was the speaker's primary message?
- How could you apply this message in your planning next month, in six months?
- What tools, resources, and/or people do you need to advance further?
- Where can you find these tools, resources, and people?

Reflections – Program Directors, Faculty, Exhibitors, and Program Administrators

It Takes the Community to Raise a Child

According to *MentorNet News* (September 06 issue), advisors of graduate students (and prospective graduate students) should

- "Take students to conferences and introduce them to colleagues. Do not assume that they know how to network; they will need help to develop this vital skill."
- "Encourage students to present posters at a conference starting from their first year. Make them rehearse until they are comfortable with the material and the background. Ask them 'why' they did the work. Ask them questions that you know might be asked. Bring colleagues over to their poster and introduce them. Then stand back and let them do the presentation; step in only if they need you."

Beyond ABRCMS, Moving On

Participating in ABRCMS is a critical juncture for students. It serves as both an end point for a single research experience and a starting point for the journey towards becoming a scientist. For students who conducted research and presented at ABRCMS, it is a time to rejoice and celebrate accomplishments. However, when students leave ABRCMS, they must take the next steps in their journey. These should include continuation of their research experiences, presentations at disciplinary society meetings, and networking with new colleagues.

Students, consider the following:

- Identify six steps to move you along your journey,
- Identify how and when you will complete the first step, second step, etc.,
- Identify the people and resources required to complete the first step, second step, etc.,
- Write an outline of your plan and revisit it regularly.

Steering Committee Members and Staff

Steering Committee Members

- **Clifford W. Houston, Ph.D. (Chairperson)**
  University of Texas Medical Branch, Galveston, TX
- **Alejandro Sanchez Alvarado, Ph.D.**
  Stowers Institute for Medical Research, Kansas City, MO
- **Avery August, Ph.D.**
  Cornell University, Ithaca, NY
- **Cherrie B. Boyer, Ph.D.**
  University of California, San Francisco, CA
- **Marlene De la Cruz, Ph.D.**
  University of California, Irvine, CA
- **Richard King, M.D/Ph.D.**
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ASM exhibit booth at 2014 ABRCMS.

Managed by

AMERICAN SOCIETY FOR MICROBIOLOGY

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Visit www.abrcms.org for more information.