Annual Biomedical Research Conference for Minority Students

Final Program & Exhibitor Guide

Developing Scientific Leaders through Research Training and Academic Excellence

SAN ANTONIO
NOVEMBER 12-15

ABRCMS Enhancements and Highlights

The 2014 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

NEW THIS YEAR

Good news! At ABRCMS 2014, Wi-Fi will be freely available in the exhibit hall, session rooms, and convention center hallways. This service has been brought to you by generous contributions from the University of Texas Health Science Center at San Antonio and the American Society for Microbiology.

ABRCMS Launches Mobile App

NEW THIS YEAR

Mobile App at ABRCMS! With this app, the ABRCMS program, exhibitor information, conference maps and much more are at your fingertips.

P&G Opportunities

ABRCMS has partnered with Procter & Gamble to offer internships to students interested in exploring industry opportunities. To learn more and apply, visit http://us.experiencepg.com/ and search for job # RND00002783.

ASM-LINK Mentoring Strategies Workshop

Applications are now being accepted for the ASM-LINK Interdisciplinary Mentoring Lab, an interactive workshop designed to foster collaborations and innovative thinking. Through guided exercises, participants will generate transformative ideas to tackle our greatest mentoring challenges, especially as they relate to building interdisciplinary research teams and broadening participation in STEM. A multidisciplinary mix of active researchers and educators willing to engage in a creative exchange of ideas, experiences, and solutions are sought for this program. To learn more, attend Session 3 on Friday, November 14 at 8:30 a.m.

Interactive Exhibit Floor Plan

Students, with more than 320 exhibit booths 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 confirmed exhibitors and contact them in advance of the conference.

ABRCMS Abstracts Database

Starting October 8, attendees can use the online ABRCMS abstract database to find abstracts by name, topic, or discipline. Early release of abstracts helps exhibitors and attendees organize their poster visitation plans before arriving in San Antonio.

Networking with Disciplinary Societies

Networking sessions with disciplinary societies will be held on **Wednesday, November 12, from 8:30 to 9:30 p.m.** Led by professional society members, these informal sessions offer a forum for small-group discussions focused on the student activities offered by societies. All ABRCMS exhibitor and faculty attendees who are professional society members are strongly encouraged to attend.

Conference Orientation for Undergraduate and Postbaccalaureate Students

Your ABRCMS orientation will help you maximize your learning and networking opportunities throughout the conference. All orientation sessions will be held on **Thursday, November 13, from 8:30 a.m. to 9:30 a.m.**

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

Thursday, November 13, 8:00 p.m. – 9:30 p.m.

A MUST ATTEND!

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.

ABRCMS Professional Skills Development Cafe – Saturday, November 15, 2:45 p.m.

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

Keystone Travel Award for Grads and Postdocs

Keystone Symposia on Molecular Biology will grant two travel awards to graduate students and postdocs attending ABRCMS 2014. The award will cover the registration fee for a select conference in addition to travel and lodging expenses of up to $1,200. Award eligibility requires a brief survey during ABRCMS.

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. on November 15**.

Meet and Greet Speakers

Invited ABRCMS speakers will be available to meet informally with students during main exhibition hours on Thursday and Friday. This is a wonderful opportunity to meet one on one with speakers and learn more about their research and pathways to success.

Onsite Registration and Check-In

Express self-registration will be offered at ABRCMS 2014. Bring a copy of your registration confirmation letter with you to expedite the registration process.

Table of Contents

"I can easily say that ABRCMS helped pave the path to my academic and professional success by motivating me through the seminars provided as well as the contacts I made over the conference weekend."

(Student)

Join the conversation! #2014ABRCMS

facebook.com/abrcms

twitter.com/abrcms

ABRCMS Feedback Survey

ABRCMS wants to hear from you! On Friday, November 14th, ABRCMS will launch the 2014 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.

Program at a Glance

Registration Hours

Wednesday, November 12	12:00 p.m. – 8:00 p.m.
Thursday, November 13	7:00 a.m. – 7:00 p.m.
Friday, November 14	7:00 a.m. – 5:00 p.m.
Saturday, November 15	7:00 a.m. – 1:00 p.m.

Affiliated Workshops

Tuesday, November 11, through Thursday, November 13

ASM-NSF LINK
(By Invitation Only)
(Sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge [LINK] Program)

Visit *www.asmlink.org* for schedule details.

Wednesday, November 12, 2014

2:00 p.m. – 8:00 p.m.
Exhibit Set-up

Concurrent Professional Development Sessions

2:30 p.m. – 4:30 p.m.

Session 1
Graduate Student Life: Perspectives of Graduate Students

Session 2
Succeeding Through Your Strengths: Assess and Apply Your Unique Strengths Toward Your Ideal Career

Session 3
Presentation Techniques: How to Make Effective Poster and Oral Presentations

Session 4
The Supreme Court and Affirmative Action in the 21st Century – The University of Michigan: Critical Issues, Reflections, and Implications

Session 5
Self-Awareness: the Key to Success in Life and Lab

Session 6
Effective Mentoring for Promoting Student Success
(Sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge [LINK] Program)

5:00 p.m. – 6:00 p.m.

Session 1
State of the ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program

Session 2
PREP Students Networking Session (By Invitation Only)

6:30 p.m. – 7:15 p.m.
Dinner

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

Opening Remarks

Conference Welcome

Opening Keynote Address: The Importance of Science Communication

8:30 p.m. – 9:30 p.m.
Networking in Your Scientific Discipline

8:30 p.m. – 10:00 p.m.
NIH Grants Management Workshop

9:00 p.m. – 10:30 p.m.
Graduate Students and Postdoctoral Scientists Networking Mixer

Thursday, November 13, 2014

7:30 a.m. – 8:15 a.m.
Breakfast

8:00 a.m. – 12:00 p.m.
Exhibit Set-up

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
Orientation for Judges

9:45 a.m. – 10:45 a.m.

Concurrent Scientific Sessions

Session 1
Fighting Off Foes: Common Mechanisms Used by Plants and Animals to Protect Against Pathogens and Disease
(Sponsored by the American Society of Plant Biologists)

Session 2
Going Viral: From Science in the Lab to Public Health Interventions in International Communities
(Sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge [LINK] Program)

Session 3
Using Small Molecule Inhibitors to Understand Immune Function: Blocking Allergies and Finding Targets
(Sponsored by the American Society for Microbiology)

Session 4
Astrobiology: Applying What We Know to New Discoveries in the Universe

Session 5
Multivalent Control of HMG CoA Reductase, the Molecular Target of Statin Drugs
(Sponsored by the Howard Hughes Medical Institute)

Session 6
An Attractive Role for Repulsive Guidance Molecules in Shaping the Neural Tube

Session 7
Activities, Culture, and Cognitive Development in Middle Childhood

Session 8
The Joy of Science: Discovery of Victrelis™, the First HCV Protease Inhibitor to be Approved by Food and Drug Administration (FDA)

11:00 a.m. – 12:15 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
How to Be Successful in Your Summer Research Experience

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

Session 7
Meyerhoff Adaptation Project: Assessed by a Multifaceted Approach

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

1:15 p.m. – 2:15 p.m.

PLENARY SCIENTIFIC SESSION
Computational Approaches to Protein Engineering with Applications in the Life Sciences

2:15 p.m. – 6:30 p.m.
Exhibits Open

2:30 p.m. – 3:45 p.m.

POSTER SESSION 1

2:45 p.m. – 3:45 p.m.
Meet and Greet Speakers

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.
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
The Business of Science in Practice: Deciphering Job Ads, Developing Targeted Resumes and Making Yourself Competitive

Session 3
Jumpstart Your Research Faculty Career: Exploring Professional Development Opportunities

8:00 p.m. – 9:30 p.m.
NIGMS Program Director Discussions

Friday, November 14, 2014

7:30 a.m. – 8:15 a.m.
Breakfast

8:30 a.m. – 9:30 a.m.
Concurrent Professional Development Sessions

Session 1
Embracing Diversity, Embracing Ourselves

Session 2
Three Techniques for Building Relationships During Science Communications

Session 3
Appreciative Inquiry: Learning from What's Worked
(Sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge [LINK] Program)

Session 4
Meyerhoff Adaptation Project: Design and Early Outcomes

Session 5
Navigating Your Way into a Postdoctoral Position and Having a Successful Experience

9:45 a.m. – 10:45 a.m.
Concurrent Professional Development Sessions

Session 1
Mentoring Up: Proactively Managing Your Relationship with Your Research Mentor by Assessing and Applying Your Communication Strengths

Session 2
Realizing Your Dreams: What Does Time Have to Do with it?

Session 3
Career Decisions: How to Find a Science Career that Fits YOU

Session 4
The Jessica Effect: Mentoring with Attention to Culture and Family as a Mechanism for Graduate School Retention

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. – 2:15 p.m.
PLENARY SCIENTIFIC SESSION
The Fever: The Role of Poverty and Environmental Disruption in Epidemics from Malaria to Ebola

2:30 p.m. – 3:45 p.m.
Concurrent Professional Development Sessions

Session 1
Effective Personal Statements for Getting into Highly Competitive Graduate Schools and Summer Programs

Session 2
Outclass the Competition! Etiquette Training

Session 3
Preparing an Effective Graduate Fellowship: Hear from the Experts

Session 4
Achieving Your Goals: Goal-Setting Strategies for Scientific and Career Success, Developing Your IDP

Session 5
PULSE – Moving Life Science Education Departments and Institutions from Vision to Change

Session 6
From Tutoring to Mentoring: Supporting Underrepresented Students, and Why That's Good for Everyone

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

Session 3
Making the Most of the Time Between College and Graduate School & Tips for Applying to a Postbaccalaureate Program

7:00 p.m. – 9:00 p.m.
Reception for Speakers, Exhibitors, Judges, and Program Directors

9:00 p.m. – 10:30 p.m.
NIGMS/TWD Organization-wide Meeting for Program Directors

Saturday, November 15, 2014

7:30 a.m. – 8:15 a.m.
Breakfast

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

8:30 a.m. – 9:15 a.m.
Exhibitor Feedback Session

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

9:45 a.m. – 11:00 a.m.
Poster Session 6

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

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

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

1:15 p.m. – 2:15 p.m.
Closing Keynote Address: The Brown World Is Round

2:45 p.m. – 4:45 p.m.
ABRCMS Professional Skills Cafe: Explore a Variety of Topics in Small Group Discussions

5:00 p.m. – 7:00 p.m.
FREE TIME! FREE TIME! FREE TIME!

7:00 p.m. – 9:30 p.m.
Banquet, Conference Wrap-Up, Awards Ceremony

9:30 p.m. – 10:00 p.m.
Photo Session for ABRCMS Presentation Award Winners

10:00 p.m. – 2:00 a.m.
Dance and Social

> *"I truly believe it is my duty to help prepare the future generation of scientists and I also enjoy witnessing the enthusiasm and curiosity of the students…their enthusiasm is contagious."*
>
> (Faculty/Judge)

Conference Welcome

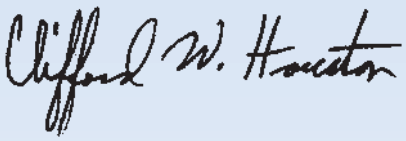
Welcome to San Antonio! I am very proud to have the 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS) here in my home state of Texas! Once again, it is another banner year for ABRCMS, as we continue to set growth records in the numbers of abstracts submitted, exhibit booths sold, and dollars raised for sponsorship. As a reminder, the incredible growth of ABRCMS and indeed its very existence would not be possible without the foresight of the extraordinary Adolphus P. Toliver, Ph.D., branch chief of the Minority Access to Research Careers Program from 1994 to 2012, who passed away on March 26, 2013. May we never forget the pathway laid before us by trailblazers such as Dr. Toliver. Whether you are a new or returning ABRCMS participant, you will see firsthand the power and breadth of our community. You'll have the opportunity to meet renowned speakers, industry experts, faculty, and administrators; network with peers; learn about recent advances in the biomedical and behavioral sciences; and participate in discussions about some of the most current and important issues facing minority students specifically and society in general.

As factors such as the retirement of the baby boomer generation force us to face a dwindling U.S. workforce, now more than ever, 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 and to take your rightful place as a skilled member of the future scientific workforce. The U.S. Bureau of Labor Statistics estimates that about 8.5 million new jobs will exist in STEM fields across the nation by 2018. However, the U.S. is not on track for meeting this opportunity because more students must come through the educational pipeline to meet the job demand. More women and more underrepresented minorities will be needed to fill the future workforce gap if the United States is to remain a global leader. I want to challenge ABRCMS students to be well prepared and to take full advantage of all the opportunities the conference has to offer. I hope that at the end of the conference, YOU are one of the "lucky" students recruited by our exhibitors. Remember — "luck is when preparation meets opportunity!"

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 to bring you a rewarding conference experience. This is evident by the large number of exhibitors who have come to San Antonio to recruit students! When you see any of these exhibitors at ABRCMS 2014, please give them your thanks for making this year's conference one of the best in the nation.

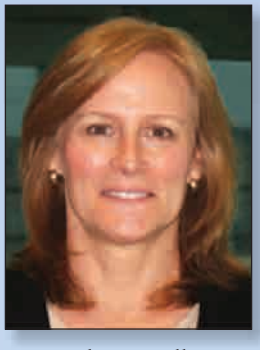
ABRCMS could not happen without the help of many dedicated people and generous sponsors. I want to thank the ABRCMS Steering Committee members, ASM staff, faculty program directors, exhibitors, and volunteer judges for all of their hard work in preparation for and during the conference. I would like to acknowledge our generous sponsors who without their contributions, it would have been impossible to conduct ABRCMS at its current level. I especially want to thank the Division of Training, Workforce Development, and Diversity at the National Institute of General Medical Sciences, National Institutes of Health, whose funding has made this conference possible.

Respectfully,



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

Jon Lorsch



Alison Hall

Dear Students, Colleagues and Friends,

On behalf of the National Institutes of Health's National Institute of General Medical Sciences (NIH NIGMS), we welcome you to the 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS). 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.

ABRCMS 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 NIGMS program participants.

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 the biomedical sciences. During your time here, you can 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.

Sincerely,

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

Alison K. Hall, Ph.D.
Acting Director
Division of Training, Workforce Development, and Diversity
National Institute of General Medical Sciences
National Institutes of Health

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 1,600 poster and oral presentations at the 2014 ABRCMS. For more information, visit the judges' lounge in 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.

> *"To increase diversity in our field of profession, we have to reach out to recruit minority students at the undergrad level to inspire them for a Ph.D. in our discipline. ABRCMS is the right forum to accomplish that."*
>
> (Exhibitor)

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 C. The hall is open to all attendees at the following times:

Exhibits Set- Up and Break Down

Wednesday, November 12:	2:00 p.m. – 8:30 p.m. (set-up)
Thursday, November 13:	8:00 a.m. – 12:00 p.m.
Saturday, November 15:	1:00 p.m. – 4:00 p.m. (break down)

Dates and Times of Exhibition

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

First Aid

First Aid is available at the conference in room 006B. 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**.

> *"I was able to learn about graduate degree programs all over the country, which I would have never heard of otherwise."*
>
> (Student)

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 the Delta Ballroom 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.

Raffle Drawings

Raffle drawings will be held throughout the conference. Winners receive exhibitor-donated, institutional logo items such as hats, shirts, bags, mugs, etc. Students may enter to win prizes on each day of exhibits.

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 Convention Center Room 211. 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 15. Each poster or oral presenter will receive a certificate of participation after the conference. Certificates will be mailed to the address that the student 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.

Poster Presentation Schedule

Session 1 (A)	Thursday, November 13, 2:30 p.m. – 3:45 p.m. Set-up: 2:15 p.m. –2:30 p.m. Take-down: 5:15 p.m. – 5:30 p.m.
Session 2 (B)	Thursday, November 13, 4:00 p.m. – 5:15 p.m. Set-up: 2:15 p.m. – 2:30 p.m. Take-down: 5:15 p.m. – 5:30 p.m.
Session 3 (C)	Friday, November 14, 11:00 a.m. – 12:15 p.m. Set-up: 10:45 a.m. – 11:00 a.m. Take-down: 12:15 p.m. – 12:30 p.m.
Session 4 (D)	Friday, November 14, 4:00 p.m. – 5:15 p.m. Set-up: 3:45 p.m. – 4:00 p.m. Take-down: 6:45 p.m. – 7:00 p.m.
Session 5 (E)	Friday, November 14, 5:20 p.m. – 6:45 p.m. Set-up: 3:45 p.m. – 4:00 p.m. Take-down: 6:45 p.m. – 7:00 p.m.
Session 6 (F)	Saturday, November 15, 9:45 a.m. – 11:00 a.m. Set-up: 9:30 a.m. – 9:45 a.m. Take-down: 12:15 p.m. – 12:30 p.m.
Session 7 (G)	Saturday, November 15, 11:00 a.m. – 12:15 p.m. Set-up: 9:30 a.m. – 9:45 a.m. Take-down: 12:15 p.m. – 12:30 p.m.
Oral Sessions 1-12	Thursday, November 13, 5:30 p.m. – 6:30 p.m.
Oral Sessions 13-24	Saturday, November 15, 8:30 a.m. – 9:30 a.m.

Study Hall Locations

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

- Henry B. Gonzalez Convention Center, Room 006A
- Grand Hyatt Hotel, Mission A Room
- Marriott Riverwalk, Bowie Room
- Marriott River Center, Conference Room 15

"Attending and winning in my category was one of the best experiences in my scientific life. Coming from my background, I doubted myself in the past. I now feel confident because when I presented my poster I left like I belonged. This conference really made me believe that I can pursue a career in science"

(Student)

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, lunch on Friday and lunch on Saturday. Disciplines tables are identified by napkin colors. See table below.

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

Microbiology, Immunology (Red Napkins)

Neuroscience, Physiology, Developmental Biology (Ivory Napkins)

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

Social and Behavioral Science and Public Health (Green Napkins)

Program Highlights

Professional Development Sessions

Undergraduates and Postbaccalaureates

Wednesday, November 12, 2014

2:30 p.m. – 4:30 p.m.

- Graduate Student Life: Perspectives of Graduate Students
- Succeeding Through Your Strengths: Assess and Apply Your Unique Strengths Toward Your Ideal Career
- Presentation Techniques: How to Make Effective Poster and Oral Presentations

8:30 p.m. – 9:30 p.m.

- Networking in Your Scientific Discipline

Thursday, November 13, 2014

8:30 a.m. – 9:30 a.m.

- Orientation for Undergraduates and Postbaccalaureates

11:00 a.m. – 12:15 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?
- How to Be Successful in Your Summer Research Experience
- 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 14, 2014

8:30 a.m. – 9:30 a.m.

- Embracing Diversity, Embracing Ourselves
- Three Techniques for Building Relationships during Science Communications

9:45 a.m. – 10:45 a.m.

- Mentoring Up: Proactively Manage Your Relationship with Your Research Mentor by Assessing and Applying Your Communication Strengths
- Realizing Your Dreams: What Does Time Have to Do with it?

2:30 p.m. – 3:45 p.m.

- Effective Personal Statement for Getting into Highly Competitive Graduate Schools and Summer Programs
- Outclass the Competition! Etiquette Training
- Preparing an Effective Graduate Fellowship: Hear from the Experts *(Recommended for undergraduate seniors)*

> *"ABRCMS attracts a highly diverse group of students of the highest caliber, preparation, and professionalism. I was very impressed with the students we met."*
>
> (Exhibitor)

7:00 p.m. – 8:00 p.m.

- Elements of the Graduate School Application Process
- Making the Most of the Time between College and Graduate School & Tips for Applying to a Postbaccalaureate Program *(Recommended for students considering postbaccalaureate training)*

Saturday, November 15, 2014

2:45 p.m. – 4:45 p.m.

- ABRCMS Professional Skills Cafe: Explore a Variety of Topics in Small Group Discussions

Graduate Students and Postdoctoral Scientists

Wednesday, November 12, 2014

2:30 p.m. – 4:30 p.m.

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

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

- Graduate Students and Postdoctoral Scientists Networking Mixer

Thursday, November 13, 2014

8:30 a.m. – 9:30 a.m.

- Getting Published: Advice for Graduate Students and Postdoctoral Scientists

11:00 a.m. – 12:15 p.m.

- The Business of Science: Leveraging Your Scientific, Business, and Social Identities to Be Competitive in Today's Job Market
- 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
- The Business of Science in Practice: Deciphering Job Ads, Developing Targeted Resumes and Making Yourself Competitive

Friday, November 14, 2014

8:30 a.m. – 9:30 a.m.

- Navigating Your Way into a Postdoctoral Position and Having a Successful Experience
- Three Techniques for Building Relationships During Science Communications

9:45 a.m. – 10:45 a.m.

- Career Decisions: How to Find a Science Career that Fits YOU

2:30 p.m. – 3:45 p.m.

- Preparing an Effective Graduate Fellowship: Hear from the Experts
- Achieving Your Goals: Goal-Setting Strategies for Scientific and Career Success, Developing Your IDP

Saturday, November 15, 2014

2:45 p.m. – 4:45 p.m.

- ABRCMS Professional Skills Cafe: Exploring a Variety of Topics in Small Group Discussion

Faculty, Program Directors, and Exhibitors

Tuesday, November 11, through Thursday, November 13, 2014

- **ASM LINK Mentoring Strategies**
  (By Invitation Only) (Sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge [LINK] Program)
  Visit asmlink.org for details.

Wednesday, November 12, 2014

2:30 p.m. – 4:30 p.m.

- The Supreme Court and Affirmative Action in the 21st Century – The University of Michigan: Critical Issues, Reflections, and Implications
- Effective Mentoring for Promoting Student Success *(Sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge [LINK] Program)*

8:30 p.m. – 10:00 p.m.

- NIH Grants Management Workshop

Thursday, November 13, 2014

8:30 a.m. – 9:30 a.m.

- Orientation for Judges

11:00 a.m. – 12:15 p.m.

- The Business of Science: Leveraging Your Scientific, Business, and Social Identities to be Competitive in Today's Job Market
- Meyerhoff Adaption Project: Assessed by a Multifaceted Approach

Ken Olden (speaker) meets with student during "Meet and Greet" session.

8:00 p.m. – 9:30 p.m.

- Jump Start Your Career: Professional Development Opportunities for Research Faculty
- NIGMS Program Director Discussions (All programs meet as large group and breakout into smaller groups)

Friday, November 14, 2014

8:30 a.m. – 9:30 a.m.

- Appreciative Inquiry: Learning from What's Worked *(Sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge [LINK] Program)*
- Meyerhoff Adaption Project: Design and Early Outcomes

9:45 a.m. – 10:45 a.m.

- The Jessica Effect: Mentoring with Attention to Culture and Family as a Mechanism for Graduate School Retention

2:30 p.m. – 3:45 p.m.

- PULSE – Moving Life Science Education Departments and Institutions from Vision to Change

7:00 p.m. – 9:00 p.m.

- Reception for Speakers, Exhibitors, Judges, and Program Directors

9:00 p.m. – 10:30 p.m.

- NIGMS/TWD Organization-wide Meeting for Program Directors (All programs meet as large group and breakout into smaller groups)

Saturday, November 15, 2014

- NONE

Notes

Conference Program

Keynote, Plenary and Concurrent Scientific Speakers

Wednesday, November 12, 2014, 8:00 p.m. – 8:15 p.m.

OPENING KEYNOTE ADDRESS

The Importance of Science Communication

Derrick Pitts, B.S., The Franklin Institute, Philadelphia, PA

Thursday, November 13, 2014, 1:15 p.m. – 2:15 p.m.

PLENARY SCIENTIFIC SESSION

Credit: Lance Hayashida

Computational Approaches to Protein Engineering with Applications in the Life Sciences

Stephen L. Mayo, Ph.D., California Institute of Technology, Pasadena, CA

Thursday, November 13, 2014, 9:45 a.m. – 10:45 a.m.

CONCURRENT SCIENTIFIC SESSIONS

Fighting Off Foes: Common Mechanisms Used by Plants and Animals to Protect Against Pathogens and Disease

Sponsored by the American Society of Plant Biologists

Javier E. Irazoqui, Ph.D., Massachusetts General Hospital, Harvard Medical School, Boston, MA

Mehdi Kabbage, Ph.D., University of Wisconsin-Madison, WI

Going Viral: From Science in the Lab to Public Health Interventions in International Communities

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

Jesse Kwiek, Ph.D., The Ohio State University, Columbus, OH

A. Oveta Fuller, Ph.D., University of Michigan, Ann Arbor, MI

The Joy of Science: Discovery of Victrelis™, the First HCV Protease Inhibitor to be Approved by Food and Drug Administration (FDA)

Sponsored by the American Chemical Society

George Njoroge, Ph.D., Eli Lilly and Company, Indianapolis, IN

An Attractive Role for Repulsive Guidance Molecules in Shaping the Neural Tube

Rachel M. Brewster, Ph.D., University of Maryland–Baltimore County, Baltimore, MD

Using Small Molecule Inhibitors to Understand Immune Function: Blocking Allergies and Finding Targets

Sponsored by the American Society for Microbiology

Avery August, Ph.D., Cornell University, Ithaca, NY

Activities, Culture, and Cognitive Development in Middle Childhood

Monica Tsethlikai, Ph.D., Arizona State University, Tempe, AZ

Multivalent Control of HMG CoA Reductase, the Molecular Target of Statin Drugs

Sponsored by the Howard Hughes Medical Institute

Russell DeBose-Boyd, Ph.D., UT Southwestern Medical Center, Dallas, TX

Astrobiology: Applying What We Know to New Discoveries in the Universe

Derrick Pitts, B.S., The Franklin Institute, Philadelphia, PA

Friday, November 14, 2014, 1:15 p.m. – 2:15 p.m.

PLENARY SCIENTIFIC SESSION

Credit: Joyce Ravid

The Fever: The Role of Poverty and Environmental Disruption in Epidemics from Malaria to Ebola

Sonia Shah, B.A., Science journalist and prize-winning author

Saturday, November 15, 2014, 1:15 p.m. – 2:15 p.m.

CLOSING KEYNOTE ADDRESS

The Brown World Is Round

Richard Rodriguez, M.A., American writer who became famous as the author of *Hunger of Memory.*

"It was extremely inspiring to see so many people of color and minority women in one place. At times it gets overwhelming being the only one in class or in a lab who is a minority, but to be surrounded by so many who excelled and broke barriers has reminded me what my end goal is."

(Student)

"Having attended ABRCMS I felt more adventurous and more inclined to pursue opportunities that are out of my comfort zone. Before ABRCMS I hadn't come across a lot of minority students like myself, pursuing similar goals in life. My experience at ABRCMS was very encouraging for me to continue with my goal to be a research scientist."

(Student)

Tuesday, November 11, through Thursday, November 13

Affiliated Workshops Location: Grand Hyatt Hotel

ASM-NSF LINK Mentoring Strategies Workshop *(By Invitation Only)*

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

(Recommended for research investigators and educators – multiple disciplines)

With the ever-changing landscape of science, researchers recognize the importance of high quality mentoring in building culturally diverse, interdisciplinary research teams. We have brought together a diverse group of experts to tackle our greatest mentoring challenges. They will engage in cutting-edge solution-finding and the creative exchange of ideas, experiences, and solutions. This workshop will support emerging interdisciplinary partnerships and encourage collaborations to execute the transformative mentoring initiatives generated during the session.

Visit *www.asmlink.org* for schedule details.

Facilitators

Andy Burnett, *Knowinnovation, Ltd., Buffalo, NY*

Julia Figliotti, Maggie Dugan, *Knowinnovation, Ltd., Buffalo, NY*

Wednesday, November 12, 2014

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

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

2:30 p.m. – 4:30 p.m. **Session 1** Location: Henry B. Gonzalez Convention Center, 213 A/B

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 goal setting, selecting a mentor, time management, and balancing academic and social activities.

Speakers

To Be Determined

Moderator:

Jayne Ruben, Ph.D., *University of South Carolina School of Medicine, Greenville, SC*

Session 2 Location: Henry B. Gonzalez Convention Center, 217 D

Succeeding Through Your Strengths: Assess and Apply Your Unique Strengths Toward Your Ideal Career

During ABRCMS, you will hear lots of advice and suggestions, but how do you know what advice is best for you? Not all suggestions are suitable for everyone, because we each have our own set of strengths and preferences in communication and working styles. Our unique strengths impact how we make critical decisions, and understanding our strengths will help us find careers that match our interests and experiences. To help you discover and develop your strengths, this workshop will introduce you to some simple and effective self-assessment tools drawn from the latest research and evidence-based approaches. Once you assess your strengths, you can then apply them as you make decisions toward a career that fits your vision of success.

Speaker

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

Session 3 Location: Henry B. Gonzalez Convention Center, 217 B

Presentation Techniques: How to Make Effective Poster and Oral Presentations

(Recommended for first-time presenters and non presenters)

Effective communication is essential to every 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*

Wednesday, November 12, 2014

Session 4 Location: Henry B. Gonzalez Convention Center, 217 A

The Supreme Court and Affirmative Action in the 21st Century – The University of Michigan and Beyond: Critical Issues, Reflections, and Implications

(Recommended for exhibitors and graduate school deans/administrators)

The major challenge to diversity and inclusion in American life over the last 25 years has been a series of judicial actions, voter referenda, and executive orders that ban the use of affirmative action in higher education. The University of Michigan was the focal point for many of these actions. In the late 1990s, Jennifer Gratz, a white woman filed a lawsuit against the University of Michigan, claiming that she had been denied admission in favor of less qualified underrepresented minorities. The University prevailed when the case reached the Supreme Court, but the victory was nullified by a 2006 voter referendum—The Michigan Civil Rights Initiative (Proposal 2). What was the campus environment like before, during, and after these actions? How were public colleges and universities able to maintain a campus environment that fostered diversity and inclusion? The Michigan experience has major implications for the whole of higher education. This presentation seeks to demonstrate how through its teaching, research, and engagement programs, the University of Michigan succeeded in sustaining diversity as an essential element of campus culture and continues to remain at the pinnacle of diversity in all phases of institutional life.

Speaker

Lester Monts, Ph.D., *University of Michigan, Ann Arbor, MI*

Session 5 Location: Henry B. Gonzalez Convention Center, 217 C

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

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

We each bring our unique personalities and work styles to the classroom, lab, workplace, and home. Understanding your style and appreciating that others have different 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, take in information, make decisions, engage in conflict, learn, 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*

Session 6 Location: Henry B. Gonzalez Convention Center, 212 A/B

Effective Mentoring for Promoting Student Success

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

(Recommended for research investigators and faculty, administrators, program directors, and deans)

The importance of mentoring and effective mentoring relationships for promoting student success and advancement is widely recognized. However, many students and faculty recognize that these relationships are challenging and often do not lead to intended outcomes. In this interactive workshop, the fundamentals of mentoring, methods for establishing and maintaining successful mentoring partnerships, and strategies for mentoring students towards academic success and professional advancement will be discussed by Christine Grant, president and CEO of Creative Growth Solutions for You.

Speaker

Christine S. Grant, Ph.D., *Creative Growth Solutions for You, Raleigh, NC*

5:00 p.m. – 6:00 p.m. **Session 1** Location: Henry B. Gonzalez Convention Center, 210 B

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

The ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program aspires to facilitate meaningful interactions, including mentoring relationships and collaborations, between established scientific investigators, educators, junior investigators, and trainees. Specifically, the program seeks to develop skills in communications, teaching and mentoring, ethics, career planning, management and leadership, and interpersonal relationships through a structured-mentoring program. The complex environmental and social problems that are facing us nationally and globally require input from scientists with a diversity of backgrounds, disciplinary knowledge, and experimental approaches. The LINK program supports scientists to build developmental relationships with trainees and educators at two nationally renowned conferences – ABRCMS and the Annual ASM Conference for Undergraduate Educators (ASMCUE) –

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with the goal of successful participation of mentees in emerging and interdisciplinary sciences. This session will introduce prospective mentors to the LINK program and provide an update of program activities, including National Science Foundation (NSF) research and education award opportunities.

Speakers

Beronda Montgomery, Ph.D., *Michigan State University, East Lansing, MI*
Kelly Diggs-Andrews, Ph.D., *American Society for Microbiology, Washington, DC*
Amy Chang, M.S., *American Society for Microbiology, Washington, DC*
Suzanne Barbour, Ph.D., *National Science Foundation, Arlington, VA*

Session 2 Location: Henry B. Gonzalez Convention Center, 210 A

PREP Students Networking Session *(By Invitation Only)*

6:30 p.m. – 7:15 p.m. **Dinner**

7:15 p.m. – 8:15 p.m. **Conference Overview** Location: Henry B. Gonzalez Convention Center, Grand Ballroom

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

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

Opening Keynote Address

The Importance of Science Communication

What is the role of the scientist in communicating science to the public? Every day the public is bombarded with science information. While it is great that science is being delivered through the media, the real difficulty is that the general public does not possess a strong enough scientific background to understand the science in context with how it is being delivered. There is a tremendous amount of misinformation and misunderstanding about science at a time when people really need to understand science better so they can deal with issues surrounding new discoveries. It is critical for students in science today to understand the importance of being a good science communicator. They need to be able to articulate what their research is about so they can receive grants and other support and so the public can appreciate and understand what they do.

Speaker

Derrick Pitts, B.S., *The Franklin Institute, Philadelphia, PA*

Introducing Speaker:

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

8:30 p.m. – 9:30 p.m. **Networking in Your Scientific Discipline** *(All Disciplines)*

The focus of this informal session is 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, interacting one on one with students,

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discussing student-centered activities and programs offered by their organizations, and offering advice on career pathways and work and personal life balance. Program directors will also be available to mentor students.
Session Leaders
To Be Determined

Microbiology & Immunology	Location: Henry B. Gonzalez Convention Center, 217 D
Cell Biology & Molecular & Computational Biology	Location: Henry B. Gonzalez Convention Center, 214 A
Social and Behavioral Sciences	Location: Henry B. Gonzalez Convention Center, 217 C
Biochemistry	Location: Henry B. Gonzalez Convention Center, 214 B
Neuroscience	Location: Henry B. Gonzalez Convention Center, 217 B
Developmental Biology & Genetics	Location: Henry B. Gonzalez Convention Center, 214 C
Physiology	Location: Henry B. Gonzalez Convention Center, 210 A
Engineering, Physics & Mathematics	Location: Henry B. Gonzalez Convention Center, 212 A/B
Plant Biology	Location: Henry B. Gonzalez Convention Center, 210 B
Cancer Biology	Location: Henry B. Gonzalez Convention Center, 213 A/B
Public Health	Location: Henry B. Gonzalez Convention Center, 205
Chemistry	Location: Henry B. Gonzalez Convention Center, 214 D

8:30 p.m. – 10:00 p.m. **NIH Grants Management Workshop** Location: Henry B. Gonzalez Convention Center, Lila Cockrell Theatre
(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*
Michael Mace, M.A., *National Institute of General Medical Sciences, Bethesda, MD*

9:00 p.m. – 10:30 p.m. **Graduate Students and Postdoctoral Scientists Networking Mixer** Location: Henry B. Gonzalez Convention Center, Lonesome Dove
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.

"ABRCMS broadened my networking circle. I was introduced to many different fields and professionals at this conference. The talks were very stimulating, and I feel like I was more informed and knowledgeable after going to ABRCMS."

(Student)

Continued on next page

Thursday, November 13, 2014

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

7:30 a.m. – 8:15 a.m. **Breakfast**

8:00 a.m. – 12:00 p.m. **Exhibit Set-up**

8:30 a.m. – 9:30 a.m. **Session 1** Location: Henry B. Gonzalez Convention Center, Grand Ballroom

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 and Making the Most of ABRCMS

Importance of Conference Surveys and Evaluations

Speaker

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

Session 2 Location: Henry B. Gonzalez Convention Center, 217 D

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 authorship, multiple submissions, and redundant publication. The session ends with a Q&A period.

Speaker

Victor DiRita, Ph.D., *University of Michigan, Ann Arbor, MI*

Session 3

Orientation for Judges *(All 12 Disciplines)*

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

Pick up your judging packet and learn the ins and outs of the ABRCMS judging process.

- *Biochemistry* Location: Henry B. Gonzalez Convention Center, 007A/007B
- *Cancer Biology* Location: Henry B. Gonzalez Convention Center, 007A/007B
- *Cell Biology* Location: Henry B. Gonzalez Convention Center, 006C/006D
- *Chemistry* Location: Henry B. Gonzalez Convention Center, 006C/006D
- *Developmental Biology and Genetics* Location: Henry B. Gonzalez Convention Center, 007C/007D
- *Engineering, Physics and Mathematics* Location: Henry B. Gonzalez Convention Center, 007C/007D
- *Immunology* Location: Henry B. Gonzalez Convention Center, 007C/007D
- *Microbiology* Location: Henry B. Gonzalez Convention Center, 007C/007D
- *Molecular Biology and Computational Biology* Location: Henry B. Gonzalez Convention Center, 006C/006D
- *Neuroscience* Location: Henry B. Gonzalez Convention Center, 007A/007B
- *Physiology* Location: Henry B. Gonzalez Convention Center, 007A/007B
- *Social and Behavioral Science & Public Health* Location: Henry B. Gonzalez Convention Center, 006C/006D

> *"It was a great opportunity to see the extraordinary research being conducted in the country and also to encourage and offer thoughtful advise to the future scientists."*
>
> (Faculty/Judge)

Thursday, November 13, 2014

9:45 a.m. – 10:45 a.m. **Concurrent Scientific Sessions** *(Eight Session Options)*

Session 1 Location: Henry B. Gonzalez Convention Center, 213 A/B

Fighting Off Foes: Common Mechanisms Used by Plants and Animals to Protect Against Pathogens and Disease
(Sponsored by the American Society of Plant Biologists)

Biological organisms have both beneficial and detrimental relationships with bacteria. When the relationship is detrimental and leads to disease, the bacteria are referred to as pathogens. In recent years, it has become apparent that plants and animals use similar molecular and biochemical mechanisms to detect pathogens and to mount an active defense against them to resist diseases. These mechanisms are known as organismal immune responses. In this session, the molecular players involved in the detection of invaders and the immune responses that are initiated in plant and animal research models will be discussed. Commonalities of the immune response pathway in a range of eukaryotic organisms will be the focus the session.

Speaker

Javier E. Irazoqui, Ph.D., *Massachusetts General Hospital, Harvard Medical School, Boston, MA*
Mehdi Kabbage, Ph.D., *University of Wisconsin-Madison, Madison, WI*

Introducing Speaker:

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

Session 2 Location: Henry B. Gonzalez Convention Center, 214 A/B

Going Viral: From Science in the Lab to Public Health Interventions in International Communities
(Sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge [LINK] Program)

Multi- and interdisciplinary partnerships and interactions are becoming increasingly recognized as critical for successfully addressing multidimensional, complex problems that require input from a variety of disciplines. In this session, two researchers working in immunology and virology will discuss their efforts to take their scientific knowledge from the laboratory to the community to inspire increased public understanding and to contribute to public health interventions.

Speakers

Jesse Kwiek, Ph.D., *The Ohio State University, Columbus, OH*
A. Oveta Fuller, Ph.D., *University of Michigan, Ann Arbor, MI*

Introducing Speaker:

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

Session 3 Location: Henry B. Gonzalez Convention Center, 206 A/B

Using Small Molecule Inhibitors to Understand Immune Function: Blocking Allergies and Finding Targets
(Sponsored by the American Society for Microbiology)

Most cells play critical roles in allergic responses, and calcium signaling controls the function of these cells. In addition, a role for actin in regulating calcium influx into cells has been suggested. This lecture will discuss the identification of a target for the immunosuppressant BTP, which blocks activation of mast cells and the symptoms of allergies in murine models. Also to be discussed are the (i) chemical and genetic approaches that were used to confirm the target of BTP and (ii) function of the target of BTP in mast cells, explaining why it regulates the symptoms of allergies.

Speaker

Avery August, Ph.D., *Cornell University, Ithaca, NY*

Introducing Speaker:

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

Session 4 Location: Henry B. Gonzalez Convention Center, 205

Astrobiology: Applying What We Know to New Discoveries in the Universe

While we have a good understanding of how life functions here on this planet, how can we apply what we know to possibly understanding life elsewhere? In this session on astrobiology — life elsewhere in the universe — astronomer Derrick Pitts will lay out a basic framework to answer this question.

Speaker

Derrick Pitts, B.S., *The Franklin Institute, Philadelphia, PA*

Introducing Speaker:

William Walden, Ph.D., *University of Illinois at Chicago, Chicago, IL*

Continued on next page

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Session 5 Location: Henry B. Gonzalez Convention Center, 212 A/B

Multivalent Control of HMG CoA Reductase, the Molecular Target of Statin Drugs

(Sponsored by the Howard Hughes Medical Institute)

The DeBose-Boyd laboratory focuses on the regulation of HMG CoA reductase, the key enzyme in the synthesis of cholesterol. Inhibitors of HMG CoA reductase, collectively called statins, have revolutionized the treatment of high blood cholesterol levels in humans. Statins trigger effects that result in the decrease of blood cholesterol, thereby reducing the incidence of heart attacks and prolonging the lives of subjects with pre-existing coronary artery disease. The cholesterol-lowering effect of statins is limited by the regulatory system that comes into play when the reductase is inhibited. This regulatory system leads to a major increase in the amount of HMG CoA reductase enzyme that becomes progressively harder to inhibit. Thus, a complete understanding of the HMG CoA reductase regulatory system is essential, not only for scientific reasons, but also because it is at the heart of clinical medicine.

Speaker

Russell DeBose-Boyd, Ph.D., *UT Southwestern Medical Center, Dallas, TX*

Introducing Speaker:

Kennie Shepherd, Ph.D., *Morehouse School of Medicine, Atlanta, GA*

Session 6 Location: Henry B. Gonzalez Convention Center, 214 C/D

An Attractive Role for Repulsive Guidance Molecules in Shaping the Neural Tube

Repulsive guidance molecules (RGMs) are membrane-bound or secreted molecules known to function as repulsive signaling cues for retinal axons and inhibitors of axonal regeneration following spinal cord injury. Intriguingly, members of this family appear to promote the directed migration of neural progenitor cells towards the midline of the neural plate, seemingly functioning as attractive rather than repulsive guidance molecules. This novel role for RGMs and their receptor neogenin is explored using the zebra fish as a model system. The Brewster Lab demonstrated that loss of the ligand or receptor results in severe neural tube defects caused in part by a disorganization of the microtubule cystoskeleton. The open tube phenotype of mouse RGMa mutants further points to a conserved role for this family of ligands in shaping the neural tube.

Speaker

Rachel M. Brewster, Ph.D., *University of Maryland–Baltimore County, Baltimore, MD*

Introducing Speaker:

Cecelia Yates-Binder, Ph.D., *University of Pittsburgh, Pittsburgh, PA*

Session 7 Location: Henry B. Gonzalez Convention Center, 207 A/B

Activities, Culture, and Cognitive Development in Middle Childhood

Monica Tsethlikai's research has examined how children's participation in activities impacts the development of memory and basic cognitive skills commonly referred to as executive functions (i.e., skills that promote the development of logical thinking, good planning skills, and adaptability). In this session, Tsethlikai will share the results of several studies that provide preliminary evidence that active participation in cultural activities promotes cognitive and social development in American Indian children. Additionally her research with primarily White children revealed that active family engagement and training in arts-based activities were both associated with better cognitive functioning in middle childhood. Currently, Tsethlikai's research is exploring how factors such as housing and neighborhood quality are related to stress physiology (i.e., cortisol levels in hair) as risk factors that potentially impair the development of executive functions and the role active cultural engagement may play in possibly moderating the negative effects of high-stress environments in American Indian communities.

Speaker

Monica Tsethlikai, Ph.D., *Arizona State University, Tempe, AZ*

Introducing Speaker:

Janice Reuben, Ph.D., *University of Michigan, Ann Arbor, MI*

Session 8 Location: Henry B. Gonzalez Convention Center, 210 A/B

The Joy of Science: Discovery of Victrelis™, the First HCV Protease Inhibitor to be Approved by Food and Drug Administration (FDA)

(Sponsored by the American Chemical Society)

This is an inspiring story by Dr. F. George Njoroge, a Kenyan born scientist based in USA. Dr. Njoroge with take us through the journey that to led to discovery of Victrelis, a Hepatitis C virus (HCV) protease inhibitor drug that was discovered by his team in New Jersey, USA and approved by Food and Drug Administration (FDA) on May 13th 2011 for the treatment of the aforementioned

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indication. HCV affects about 200 million people worldwide and the previous standard of care, interferon-ribavirin was suboptimal. The team undertook a structural based drug discovery effort that lead to discovery of this important medicine. The science behind this discovery will be discussed in this presentation and will highlight aspects that made his team to be inducted to the coveted 'Hall of Fame' as Heroes of Chemistry by American Chemical Society (ACS).

Speaker

George Njoroge, Ph.D., *Eli Lilly and Company, Indianapolis, IN*

Introducing Speaker:

Brittny Johnson, MSc., American Chemical Society, Washington, DC

11:00 a.m. – 12:15 p.m. **CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS** *(Seven Session Options)*

Session 1 Location: Henry B. Gonzalez Convention Center, 214 A/B

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 to select 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?

Speakers

Sharon Milgram, Ph.D., *Office of Intramural Training & Education, NIH, Bethesda, MD*
Alison Hall, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*
Shiva Singh, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*
Nancy Street, Ph.D., *University of Texas Southwestern, Dallas, TX*
Naomi Rosenberg, Ph.D., *Tufts University, Boston, MA*
Jabar Bennett, Ph.D., *Brown University, Providence, RI*

Session 2 Location: Henry B. Gonzalez Convention Center, 214 C/D

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.

Speakers

Juanita Merchant, M.D., Ph.D., *University of Michigan, Ann Arbor, MI*
Joseph Barbieri, Ph.D., *Medical College of Wisconsin, Milwaukee, WI*
Peter Preusch, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

Session 3 Location: Henry B. Gonzalez Convention Center, 213 A/B

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

John Augusto, Ph.D., *University of Kansas, Lawrence, KS*
Krishan Arora, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*
Carolyn Bohach, Ph.D., *University of Idaho, Moscow, ID*

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Session 4 Location: Henry B. Gonzalez Convention Center, 206 A/B

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

(Mandatory for community college students)

For many of you, this is probably the first national scientific conference that you have attended. This session helps you maximize the benefits of ABRCMS as they apply specifically to 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 all of the networking possibilities.

Speakers

Shari Rochelle, MPH, *Portland Community College, Portland, OR*
Leslie Bassett, B.S., *National Heart, Lung, and Blood Institute, NIH, Bethesda, MD*

Session 5 Location: Henry B. Gonzalez Convention Center, Lila Cockrell Theatre

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: Henry B. Gonzalez Convention Center, 212 A/B

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 those competencies and relate them to job ads and descriptions. We will also discuss the 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 introduce 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 7 Location: Henry B. Gonzalez Convention Center, 205

Meyerhoff Adaptation Project: Assessed by a Multifaceted Approach

The Meyerhoff Adaptation Project is an alliance forged between the University of Maryland–Baltimore County (UMBC), Pennsylvania State University (Penn State), and the University of North Carolina at Chapel Hill (UNC) and funded by Howard Hughes Medical Institute. The project seeks to promote institutional and cultural changes at UNC and Penn State that lead to significant increases in the number of high-achieving underrepresented minority Ph.D. scientists and mathematicians that matriculate to academic and other leadership positions in the United States. UMBC's Meyerhoff Scholars Program serves at the foundational roadmap for the development of programs at UNC and Penn State. A major component of the project is to assess the implementation and impact of the UNC and Penn State programs. The implementation assessment will contribute to understanding the important facilitating factors, barriers, and related contextual influences (such as leadership, climate, and culture) that influence successful adaption. The impact assessment will contribute to understanding the nature and extent of the value-added impact of the programs on student and institutional outcomes, and the key program components and mechanisms that contribute to these impacts. In this session, the multiple facets of the assessments will be described and preliminary findings will be shared.

Speakers

Mariano Sto. Domingo, Ph.D., *University of Maryland–Baltimore County, Baltimore, MD*
Karen Watkins-Lewis, Ph.D., *University of Maryland–Baltimore County, Baltimore, MD*
Jeanine Staples, Ph.D., *Pennsylvania State University, University Park, PA*

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

1:15 p.m. – 2:15 p.m. PLENARY SCIENTIFIC SESSION — Location: Henry B. Gonzalez Convention Center, Grand Ballroom + 217 A-D

Computational Approaches to Protein Engineering with Applications in the Life Sciences

Proteins are key macromolecules central to biological processes, ranging from DNA replication, to metabolism, to immune function. In this session, Caltech's Stephen Mayo will describe his laboratory's work in developing computational approaches to engineering proteins that have desired functional characteristics. In addition, he will provide application examples ranging from creating enhanced enzymes for biofuel production to supercharging antibodies for fighting viral infections.

Speaker

Stephen Mayo, Ph.D., *California Institute of Technology, Pasadena, CA*

Introducing Speaker:

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

2:15 p.m. – 6:30 p.m. Exhibits Open

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

2:45 p.m. – 3:45 p.m. Meet and Greet Speakers

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

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

Oral Session 01: Biochemistry

Location: 210 A/B

O01 IRS1/2 Signaling Preserves Contractile Function in the Adult Heart
Nicholas S. McCarty, *University of Iowa, Iowa City, IA*

O02 Structure of the HIV-1 Core Encapsidation Signal
Gregory C. Carter, Jr., *University of Maryland, Baltimore County, Baltimore, MD*

O03 β-catenin Creates a Sexual Dimorphic Response to Hepatic Iron Overload
LaCheyla J.N. Blount, *Virginia Union University, Richmond, VA*

O04 Functionality of Gating Tyrosine Mutations in the RPB2 Subunit of RNA Polymerase II in Yeast
Sarah S. Rader, *Wichita State University, Wichita, KS*

Session Moderator: ***Michael Summers, Ph.D.,*** *University of Maryland, Baltimore County, Baltimore, MD*

Oral Session 02: Cancer Biology

Location: 214D

O05 Targeting Triple Negative Breast Cancer in African-American Women
Michelle A. Jaldin, *Trinity Washington University, Washington, DC*

O06 Effects of Lung Carcinogens on PPARgamma Activity in A549 Cell Line
Nestor D.L. Carrasco, *University of Puerto Rico at Ponce, Naguabo, Puerto Rico*

O07 Detection of Melanoma Cells in Cerebral Spinal Fluid for the Diagnosis of Leptomeningeal Metastasis in Patients with Melanoma
Larisa Shagabayeva, *CUNY Hunter College, New York, NY*

O08 Treatment of Liver Cancer Cells with A Histone Deacetylase Inhibitor Increases Thioredoxin Interacting Protein
Assata F. Pyatt, *Bowie State University, Bowie, MD*

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

> *"ABRCMS is the most important way for us to connect with committed science students."*
>
> (Exhibitor)

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Oral Session 03: Cell Biology

Location: 207A

O09 Mutations of Arginine Residues in Ricin A Chain Reduce Ricin Cytotoxicity
Maria de L. Pagan, *University of Puerto Rico at Mayaguez, Mayaguez, PR*

O10 Quiescent Stem Cells in GAlert are More Sensitive than Stem Cells in G0 to Oxidative Stress
Chanthia Ma, *Yale University, New Haven, CT*

O11 Using Live Zebrafish Larvae to Elucidate the Role of Endocytic Trafficking in Intestinal Cholesterol Absorption
Oscar E. Reyes Gaido, *Johns Hopkins University, Baltimore, MD*

O12 Confirming the Deletion of Proteins Relative to Adaptation in Response to Small Bowel Resection
Carmen A. Marable, *North Carolina A&T State University, Greensboro, NC*

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

Oral Session 04: Chemistry

Location: 214C

O13 Chemical Characterization of Phytoliths with Raman Spectroscopy: What is inside?
Jessica Sanchez, *California State University of Fullerton, Fullerton, CA*

O14 Constructing a Small-Peptide Drug Library Using Combinatorial Synthesis
Kimberly R. McRae, *The University of South Carolina, Columbia, SC*

O15 Computational Investigation of the Electronic Structure of [60] and [70] Used in Polymer-fullerene Composite Solar Cells
Jeremy N. Webb, *Chicago State University, Chicago, IL*

O16 Preparation of (α-allyloxy-t-butyldimethyl)-10-trimethylsilyl-9-borabicyclo[3.3.2]decane, a New Assymetric Reagent for the Allylboration of Aldehydes and Aldimines
Attabey Rodríguez, *University of Puerto Rico, San Juan, PR*

Session Moderator: ***Alison Williams, Ph.D.,*** *Oberlin College, Oberlin, OH*

Oral Session 05: Developmental Biology and Genetics

Location: 213 A/B

O17 Oil Dispersants Alter Development of Xenopus Laevis Frog Embryos
Rachel L. Lester, *Jacksonville State University, Jacksonville, AL*

O18 Genetic and Behavioral Analysis of a Novel Circler Mutation in Zebrafish
Krizia-Ivana T. Udquim, *University of Maryland Baltimore County, Baltimore, MD*

O19 Investigating the Molecular Genetics of Alcohol Dependence: SWSN-9 Gene Influences Acute Functional Tolerance Development in C. elegans
Makeda Austin, *Virginia Commonwealth University, Richmond, VA*

O20 Genetic Control of Temperature-Sensitive Egg-Laying Rate in *Caenorhabditis elegans*
Kevin P. McPherson, *Emory University, Atlanta, GA*

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

Oral Session 06: Engineering, Physics and Mathematics

Location: 212 A/B

O21 Quantitative Characterization of Elastin in the Wall of the Human Femoropopliteal Artery
Andreas Seas, *University of Maryland, Baltimore County, Baltimore, MD*

O22 Photothermal Lens Spectrometry of Nanoparticles
Aaron Villette, *Delaware State University, Dover, DE*

O23 Using Droplet Microfluidics for High-Throughput in vivo Drug Screening
Carlos J. Brambila, *San Diego State University, Chula Vista, CA*

O24 Novel Methodologies to Induce Lineage Specific Differentiation of Human Mesenchymal Stem Cells for Biomedical Applications
Marissa E. Wechsler, *The University of Texas at San Antonio, San Antonio, TX*

Session Moderator: ***Chris Bassey, Ph.D.,*** *Azusa Pacific University, Azusa, CA*

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Oral Session 07: Immunology

Location: 206B

O25 Janus-faced Microglia: Stiffness Dependent Activity of Murine Microglia
HeeJin Cheon, *Cornell University, Ithaca, NY*

O26 Combined Effect of Tgfβ1 and Fluvastatin on Expression and Phosphorylation of Signaling Proteins in Mast Cells
Tamara T. Haque, *Virginia Commonwealth University, Richmond, VA*

O27 TIM-3 Regulation of IgE Receptor-Proximal Mast Cell Signaling in MC/9 Cells
Alina K. Lorant, *University of Oklahoma, Norman, OK*

O28 Role of pH in the Alternative Activation of Macrophages
Om Neelay, *Gonzaga University, Spokane, WA*

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

Oral Session 08: Microbiology

Location: 205

O29 The Application of CRISPR Genome Engineering to the Study of Host Antiviral Factors
Tolu N. Omokehinde, *University of Maryland, Baltimore County, Baltimore, MD*

O30 Fighting While Parasitized: Can Nematode Infections Affect the Outcome of Staged Combat in Beetles?
David Vasquez, Jr., *Virginia Tech, Blacksburg, VA*

O31 Does HIV-1 Manipulate Cellular Stress Responses?
Andra L. Bates, Jr., *University of Arkansas - Pine Bluff, Pine Bluff, AR*

O32 Species Composition of Fungal Endophytes from Varieties of *Asimina triloba* (L.) Dunal in North Carolina, USA
Edem J. Tchegnon, *University of North Carolina at Greensboro, Greensboro, NC*

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

Oral Session 09: Molecular and Computational Biology

Location: 206A

O33 PIN2 Localization in Arabidopsis PP2A-C Mutants
Erin Johnson, *Spelman College, Atlanta, GA*

O34 Comparative Analysis of *Fasciola hepatica*
Darius M. Bost, *North Carolina Agricultural and Technical State University, Charlotte, NC*

O35 MYST1 is the New Co-activator that Regulates the Proliferation of PCa Cells
Marc Philizaire, *Medgar Evers College, City University of New York, Brooklyn, NY*

O36 High throughput Small Molecule Screen Identifies Compounds Capable of Blocking Chondrocyte Hypertrophy
Jacob M. Bogdanov, *University of California, Los Angeles, Los Angeles, CA*

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

Oral Session 10: Neuroscience

Location: 214A

O37 The Effect of Inflammation on Muscle Sensory Afferent Responses in Adult Male Mice
Anusha Allawala, *San Jose State University, San Jose, CA*

O38 Neuroprotective and Neurotoxic Interactions of the Endocannabinoid and Metabotropic Glutamate Receptor Systems in the Olfactory System
Paul T. Austin, *University of the District of Columbia, Washington, DC*

O39 Determining the Fundamental Unit of Song in Zebra Finches
Jennifer L. Watts, *University of Texas at San Antonio, San Antonio, TX*

O40 A Disease-Toxicant Interaction Reveals Cadmium Exposure as a Potential Modulator in Huntington's Disease Neuropathology
Edmund Korley, *Oberlin College, Oberlin, OH*

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

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Oral Session 11: Physiology Location: 207B

O41 The Effect of Bisphenol Derivatives on Adipose Stem Cells
Brandi Biagas, *Xavier University, Cincinnati, Ohio*

O42 The Effect of Adenosine Diphosphate on Platelets Induced by Shear Stress and Secondhand Smoke and Its Role in Platelet Aggregation
Sarah E. Georges, *Stony Brook University, Stony Brook, NY*

O43 Investigating the Role of the Gut Microbiota and the Circadian Clock in Metabolism
Diane Hernandez, *University of Texas at El Paso, El Paso, TX*

O44 Use of Mitotane in Adrenocortical Carcinomas: Risk and Benefit
Betty Y. Lung, *Hunter College of City University of New York (CUNY), New York, NY*

Session Moderator: ***Christine Beeton, Ph.D.,*** *Baylor College of Medicine, Houston, TX*

Oral Session 12: Social and Behavioral Science and Public Health Location: 214B

O45 Cardiovascular Health Risk Factors among College-Aged Adults
Temitope F. Adeoye, *Morgan State University, Baltimore, MD*

O46 Wired for Health: Recruitment Methods to Engage Medically Underserved Populations in Research about Digital Technology Usage
Daniel K. Schadrac, *University of South Florida, Tampa, FL*

O47 Investigating Associations Between School Climate, Professional Burnout, and Staff Openness to Innovation
Deanna Loh, *Johns Hopkins University, Baltimore, MD*

O48 Roc Curve Analysis of the Accuracy of Diabetes Risk Score and Waist Circumference in the Prediction of Pre-diabetes (type-2) in Eastern Cape
Devon Scott, *Oakwood University, Huntsville, AL*

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

6:45 p.m. – 7:30 p.m. **Dinner**

8:00 p.m. – 9:30 p.m. **Professional Development Sessions** *(Three Session Options)*

Session 1 Location: Henry B. Gonzalez Convention Center, 217 B & 217 C

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

(Recommended for undergraduate, postbaccalaureate and graduate students)

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 and educational backgrounds, what they enjoy about their work, and their strategies for professional and personal life balance. At the end of the session, participants will have 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.

STEM Career Choices: What's Available and How to Succeed
Speaker
Richard Weibl, M.Ed., *Association for Women in Science, Alexandria, VA*

Moderators
Nancy Schwartz, Ph.D., *University of Chicago, Chicago, IL*
Victoria Freedman, Ph.D., *Albert Einstein University, New York, NY*

Speakers
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Session 2 Location: Henry B. Gonzalez Convention Center, 214 B

The Business of Science in Practice: Deciphering Job Ads, Developing Targeted Resumes, and Making Yourself Competitive

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

This SciPhD session will help you demystify job ads, identifying the explicit and implicit job requirements they contain. You will then be shown how to use that information — in conjunction with your own experiences and through additional intelligence through smart networking — to help make yourself competitive for jobs you desire. Additionally, understanding the social context of these competencies, and how they relate to each other provides a foundation not just for obtaining industry jobs, but also for exceling and succeeding in an industry career. This presentation will specifically focus on how to identify the specific business and social skills valued for specific jobs, how to relate your own experiences to those skills, and how to use that knowledge to develop targeted resumes and prepare for the interview process.

Speaker

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

Session 3 Location: Henry B. Gonzalez Convention Center, 213 A/B

Jump Start Your Career: Professional Development Opportunity for Research Faculty

This workshop will introduce newly-established researchers to peer review at NIH's Center for Scientific Review and will describe the Early Career Reviewer Program, which was developed to educate young investigators about the review process and to help them develop into critical and effective reviewers by providing them with review experience.

Session Goals:

The goals of this workshop are to introduce new investigators to the National Institutes of Health funding opportunities, grant application review process, and the Early Career Reviewer (ECR) Program. Through PowerPoint enhanced lecture and group discussion the participants will:

1. Gain information about research grant and career development mechanisms available through the NIH
2. Have a better understanding of the NIH peer review process
3. Know where to look for information and who to contact when planning a research grant application
4. Learn the qualifications and how to apply for the Early Career Reviewer Program

Speaker:

Anna Riley, Ph.D., *National Institutes of Health, Bethesda, MD*

8:00 p.m. – 9:30 p.m. **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 and IMSD Programs Facilitator Location: Henry B. Gonzalez Convention Center, 214 C

Michael Bender, *National Institute of General Medical Sciences, NIH, Bethesda, MD*

T32 Program Directors Facilitator Location: Henry B. Gonzalez Convention Center, 206 A

Joe Gindhart, *National Institute of General Medical Sciences, NIH, Bethesda, MD*
Richard Okita, *National Institute of General Medical Sciences, NIH, Bethesda, MD*

RISE and Bridges Program Facilitator Location: Henry B. Gonzalez Convention Center, 214 A

Robin Broughton, *National Institute of General Medical Sciences, NIH, Bethesda, MD*

IDeA and F30 Program Facilitators Location: Henry B. Gonzalez Convention Center, 210 A/B

Krishon Arora, *National Institute of General Medical Sciences, NIH, Bethesda, MD*
Reginé Douthard, M.D., M.P.H., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

MARC and F31 Program Facilitator Location: Henry B. Gonzalez Convention Center, 214 D

Shawn Gaillard, Ph.D., *National Institute of General Medical Sciences, NIH, Bethesda, MD*

"ABRCMS broadened my career experience. ABRCMS helped me see the larger picture of the profession I was getting into."

(Student)

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

7:30 a.m. – 8:15 a.m. Breakfast

8:30 a.m. – 9:30 a.m. CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS *(five Session Options)*

Session 1

Location: Henry B. Gonzalez Convention Center, Lila Cockrell Theatre

Embracing Diversity, Embracing Ourselves

(Recommended for undergraduate and postbaccalaureate students)

The greatest asset of the National Institute of Environmental Health Sciences (NIEHS) is the talented federal workforce who fuels our innovation and advances. By actively building a rich and diverse faculty, we can ensure future successes within the institute. Through the integration of diverse perspectives, the scientific community has expanded both its vision and capabilities. But maintaining a diverse workforce requires a focus on the individuals, allowing for individualized support and work-life balance. In this session, NIEHS director Linda Birnbaum will discuss the importance of work-life balance and diversity while sharing her own winding career path.

Speaker

Linda S. Birnbaum, Ph.D., D.A.B.T., A.T.S., *National Institute of Environmental Health Sciences and National Toxicology Program, NIH, Bethesda, MD*

Session 2

Location: Henry B. Gonzalez Convention Center, 214 C/D

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 very reluctantly places trust in institutions. Our social brain is first and foremost relational centric and seeks to identify with individuals that demonstrate trust in the judgment of the listener. Designed for the social brain, three science communication techniques will be presented, practiced, and reinforced during the conference. Each technique seeks to build a relationship and reinforce personal trust before providing scientific content.

Speaker

Larry Petcovic, M.Sc., *Human Workflow, Bethesda, MD*

Session 3

Location: Henry B. Gonzalez Convention Center, 214 A

Appreciative Inquiry: Learning from What's Worked

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

(Recommended for research investigators and faculty, but open to all)

In this session, Knowinnovation's Andy Burnett discusses the power of a physical environment to generate innovative ideas and solutions. Burnett has dedicated his career to facilitating creative thinking within companies, organizations, and government and academic institutions. Over the last 30 years, spaces intended for creative thinking and sharing have been developed. In recent years, these spaces are being built more and more to complement specific types of creative and innovative thinking, and to provide real experiences. Research shows that different spaces, away from cubicles, can have significant impacts on the solutions people come up with. The problem is that a only very small percentage of people in the world will ever experience these unusual and unique spaces. This isn't ideal, because many of the world's largest problems today require creative thinking and solutions. Here Burnett outlines why senior executives need to pay more attention to the type of environment they are creating for employees.

Speaker

Andy Burnett, Ph.D., *Knowinnovation, Ltd., Buffalo, NY*

Session 4

Location: Henry B. Gonzalez Convention Center, 206 A/B

Meyerhoff Adaptation Project: Design and Early Outcomes

The Meyerhoff Adaptation Project supports a partnership between the University of Maryland–Baltimore County (UMBC), the University of North Carolina at Chapel Hill (UNC), Pennsylvania State University (Penn State), and the Howard Hughes Medical Institute. The overarching goal of the project is to promote institutional cultural changes at UNC and Penn State that lead to significant increases in the number of high-achieving underrepresented minority Ph.D. scientists and mathematicians that matriculate to academic and other leadership positions in the United States. The Meyerhoff Scholars Program at UMBC serves at the foundational roadmap for the development of individualized programs that consider local demographics, historical outcomes, and existing strengths and weaknesses at the PIs. A second major goal is to determine whether this form of inter-institutional partnership can serve as an

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effective mechanism for promoting the adaptation of "effective practices." Although the Meyerhoff Adaptation Project programs at Penn State and UNC are just over a year old, early outcomes, progress, and barriers have been evaluated and will be presented.
Speakers
Michael F. Summers, Ph.D., *University of Maryland–Baltimore County, Baltimore, MD*
Keith Harmon, M.M., *University of Maryland–Baltimore County, Baltimore, MD*
Starlette Sharp, M.S., *Pennsylvania State University, State College, PA*
Joseph Templeton, Ph.D., *University of North Carolina–Chapel Hill, Chapel Hill, NC*

Session 5 Location: Henry B. Gonzalez Convention Center, 210 A/B

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

9:45 a.m. – 10:45 a.m. **CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS** *(four Session Options)*

Session 1 Location: Henry B. Gonzalez Convention Center, Lila Cockrell Theatre

Mentoring Up: Proactively Managing Your Relationship with Your Research Mentor by Assessing and Applying Your Communication Strengths
(Recommended for undergraduate, postbaccalaureate, and master's students)
As a young scientist, your relationship with your research mentor is the most vital of your academic career. It is vital 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*

Session 2 Location: Henry B. Gonzalez Convention Center, 213 A/B

Realizing Your Dreams: What Does Time Have to Do with It?
Setting goals is an excellent way to provide yourself 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. In this session you will review your goal setting and time management skills while reviewing some of the simple techniques for effective time management. The purpose of this workshop is to help you accomplish your goals through an organized process made easy for you. The audience will be asked to participate in time management skill building activities.
Speaker
Sandra Murray, Ph.D., *University of Pittsburgh, Pittsburgh, PA*

Session 3 Location: Henry B. Gonzalez Convention Center, 214 C/D

Career Decisions: How to Find a Science Career that Fits YOU
(Recommended for senior-level doctoral graduate students and postdoctoral scientists)
Of course you want to find a career that you'll enjoy and find rewarding! But how do you find the right path, especially when there are so many career directions scientists can follow? For instance, there are more than 50 doctorate-level careers in the biomedical sciences. See a list of these careers, while learning to select the best option for you, by attending this thought-provoking and interactive workshop! You will learn a logical, step-by-step process for exploring your career options and deciding which will provide the best fit for your own set of skills, values, and interests. Attendees of this workshop are strongly encouraged to attend the "Achieving Your Goals" workshop scheduled on Friday, November 14, at 2:30 p.m. to achieve best preparation for writing a successful individual development plan.
Speakers
Bill Lindstaedt, M.S., *University of California–San Francisco, San Francisco, CA*
Phil Clifford, Ph.D., *University of Illinois at Chicago, Chicago, IL*

Continued on next page

Friday, November 14, 2014

Session 4 Location: Henry B. Gonzalez Convention Center, 212 A/B

The Jessica Effect: Mentoring with Attention to Culture and Family as a Mechanism for Graduate School Retention

The death of Jessica Soto-Pérez, a chemical engineering graduate student at the University of Maryland–Baltimore County, at the hands of her husband in 2004 is leading to a higher-education practice of more family and friend inclusion for underrepresented minority students (URMs). Soto-Pérez is the subject of "The Jessica Effect: Valuing Cultural and Familial Connections to Broaden Success in Academe," a peerReview article that encourages institutions to "definitively invite and actively" welcome the family and friends of graduate students in certain events and programs." In this session, Renetta Tull — the article's lead author — will discuss how including a student's family in the work-balance equation can help improve the numbers and success of URMs in STEM education and careers.

Speaker

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

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. – 2:15 p.m. **PLENARY SCIENTIFIC SESSION** Location: Henry B. Gonzalez Convention Center, Grand Ballroom + 217 A-D

The Fever: The Role of Poverty and Environmental Disruption in Epidemics from Malaria to Ebola

Ebola could have been contained last year when it was a minor outbreak in the forests of Guinea, but the epidemic across West Africa continues to this day, growing exponentially. Malaria has been preventable and curable for centuries, and yet sickens 300 million people every year and kills over half a million. How have these wily pathogens been so successful, and how can we stop them?

Speaker

Sonia Shah, B.A., *Science Journalist and Prize-Winning Author*

Introducing Speaker:

Mary Sanchez Lanier, *Washington State University, Pullman, WA*

2:30 p.m. – 3:45 p.m. **CONCURRENT PROFESSIONAL DEVELOPMENT SESSIONS** *(Six Session Options)*

Session 1 Location: Henry B. Gonzalez Convention Center, 206 A/B

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 that critical connection 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 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: Henry B. Gonzalez Convention Center, 205

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*

Friday, November 14, 2014

Session 3 Location: Henry B. Gonzalez Convention Center, 212 A/B

Preparing an Effective Graduate Fellowship: 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 the 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 Hall, Ph.D., *National Institutes of Health, Bethesda, MD*
Giselle Muller Parker, Ph.D., *National Science Foundation, Arlington, VA*
Carmen Hinojosa-Laborde, Ph.D., *University of Texas Health Science Center at San Antonio, San Antonio, TX, and American Heart Association, Dallas, TX*

Session 4 Location: Henry B. Gonzalez Convention Center, 214 C/D

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*

Session 5 Location: Henry B. Gonzalez Convention Center, 213 A/B

PULSE – Moving Life Science Education Departments and Institutions from Vision to Change

(Recommended for research faculty)

Unlike many other life science education reform initiatives, the Partnership for Undergraduate Life Sciences Education (PULSE) is focused on departmental transformation aligned with recommendations in the 2011 report *Vision and Change in Life Sciences Education: A Call to Action.* Using best practices identified by institutions who have engaged with the supporting tools generated by the PULSE Vision and Change Leadership Fellows, this session will lead participants to an initial vision for departmental transformation (including a detailed analysis of the current state of their home institutions/departments) and provide opportunities to develop strategies to initiate departmental change.

Speakers

Edwin J. Barea-Rodriguez, Ph.D., *University of Texas at San Antonio, San Antonio, TX*
William B. Davis, Ph.D., *Washington State University, Pullman, WA*
Melanie Lee-Brown, Ph.D., *Guilford College, Greensboro, NC*
Sandra Romano, Ph.D., *University of the Virgin Islands, St. Thomas, VI*
Mary Smith, Ph.D., *North Carolina A&T State University, Greensboro, NC*
Akif Uzman, Ph.D., *University of Houston–Downtown, Houston, TX*
Gabrielle Wienhausen, Ph.D., *University of California–San Diego, San Diego, CA*

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Friday, November 14, 2014

Session 6 Location: Henry B. Gonzalez Convention Center, 210 A/B

From Tutoring to Mentoring: Supporting Underrepresented Students, and Why That's Good for Everyone

(Recommended for faculty and program administrators)

Traditionally, support for students from groups less likely to thrive in college has taken the form of supplemental, and often remedial, instruction. The additional skills gained from such programs often come with the costs of stigmatization and separation from the learning community that is so central to persistence and success. Drawing on the experience of the Grinnell Science Project, Mark Schneider describes the benefits of comprehensive support of all students with an eye to the multifaceted needs of target students. By providing innovations that affect all students, in curricular and co-curricular ways, we have not only improved the participation and success of students of color, but also have significantly enhanced the opportunities for students more broadly.

Speaker

Mark B. Schneider, Ph.D., *Grinnell College, Grinnell, IA*

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** *(three Session Options)*

Session 1 Location: Henry B. Gonzalez Convention Center, 210 A/B

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.

Speakers

John Augusto, Ph.D., *University of Kansas, Lawrence KS*

Gita Bosch, Ph.D.*, G. Bosch & Associates, New York, NY*

Session 2 Location: Henry B. Gonzalez Convention Center, 214 C/D

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.

Speaker

Gayle Slaughter, Ph.D., *Baylor School of Medicine, Houston, TX*

Saundra Oyewole, Ph.D., *Trinity University, Washington, DC*

Session 3 Location: Henry B. Gonzalez Convention Center, 213 A/B

Making the Most of the Time Between College and Graduate School & 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*

7:00 p.m. – 9:00 p.m. **Reception for Speakers, Exhibitors, Judges and Program Directors** Location: Grand Hyatt Hotel, Lonestar Ballroom A, B, C

9:00 p.m. – 10:30 p.m. **NIGMS/TWD Organization-wide Meeting for Program Directors** Location: Grand Hyatt Hotel, Lonestar Ballroom F + Bowie A, B, C

(All programs meet as large group and breakout into smaller groups)

Saturday, November 15, 2014

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

7:30 a.m. – 8:15 a.m. Breakfast

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

Oral Session 13: Biochemistry

Location: 210 A/B

O49 Characterizing Extant Members of the S100 Protein Family in Light of Evolution
Abigail Tami, *Florida State University, Tallahassee, FL*

O50 Elucidating the Role of the RNA Exosome in the Pathogenesis of Pontocerebellar Hypoplasia Type 1
Sergine Brutus, *Emory University, Atlanta, GA*

O51 Functional Identification of the Mouse Ortholog of Yeast RIM2, a Mitochondrial Solute Carrier, and Its Role in Iron Metabolism
An Nguyen, *Virginia Polytechnic Institute and State University, Blacksburg, VA*

O52 Finding a Novel Treatment for the Biological Weapon Treat of Epidemic Typhus by Targeting β-ketoacyl-ACP-reductase in Rickettsia prowazekii
Oscar E. Villarreal, *University of Texas at Austin, Austin, TX*

Session Moderator: ***Michael Summers, Ph.D.,*** *University of Maryland, Baltimore County, Baltimore, MD*

Oral Session 14: Cancer Biology

Location: 214D

O53 Role of CPT1 Enzyme in Prostate Cancer Viability
Kimberly R. Turner, *Saint Louis University, St. Louis, MO*

O54 Characterizing PLX4032 Resistant Melanoma in Zebrafish Chimera Assay
Stephanie Azzopardi, *Hunter College, New York, NY*

O55 Addressing Primary Resistance of ERBB2 Mutant Cancer Cells with Combination Therapy
Naomi T. Nkinsi, *University of Washington, Seattle, WA*

O56 Novel miRNA Regulation in an Early Progression Model of Pancreatic Ductal Adenocarcinoma: Transient Transfection Optimization
Minwei Cao, *Williams College, Williamstown, MA*

Session Moderator: ***Emil Bogenmann, Ph.D.,*** *Childrens Hospital Los Angeles, Los Angeles, CA*

Oral Session 15: Cell Biology

Location: 207A

O57 Glucose Starvation Induces Microautophagy in Yeast Cells
Lauren C. Askew, *University of North Carolina at Chapel Hill, Chapel Hill, NC*

O58 Role of Integrin Alpha 8 in Lung Fibrosis
Kelly Kennewick, *University of Washington, Seattle, WA*

O59 Interplay between E. coli Hsp90 and a Tubulin Homolog during Cell Division
Robyn Jasper, *University of Maryland, Baltimore County, Baltimore, MD*

O60 Role of Smooth Muscle Cell Discoidin Domain Receptor-1 on Matrix Vesicle Calcification
Rafaelle Delaney, *Morehouse College, Atlanta, GA*

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

Oral Session 16: Chemistry

Location: 214C

O61 Insight into the Immunostimulatory Molecules Present within Juzen-taiho-to
Steven Hall, *Hunter College, New York, NY*

O62 Synthesis of Transition Metal Complexes Containing the 7-azaindole Ligand
Monica Kiewit, *University of Texas San Antonio, San Antonio, TX*

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Saturday, November 15, 2014

O63 Kinetic Mechanism of Lipoprotein Nanodisc Dissociation in Bicelles
Kevin N. Muñoz, *University of Puerto Rico, Ponce, PR*

O64 Synthesis, Characterization, and Biocidal Activity of Triorganotin Complexes of Picolinic Acid N-Oxide
Adewola Osunsade, *University of the District of Columbia, Washington, DC*

Session Moderator: ***Alison Williams, Ph.D.,*** *Oberlin College, Oberlin, OH*

Oral session 17: Developmental Biology and Genetics

Location: 213 A/B

O65 Phenotypic Analysis of a Newly Identified Threespine Stickleback Population Near the Willamette Basin
Sophie Sichel, *University of Oregon, Eugene, OR*

O66 Fox Genes Promote Chondrocyte Differentiation and Suppress Osteoblast Differentiation during Zebrafish Craniofacial Development
Felicia Surjono, *Azusa Pacific University, Azusa, CA*

O67 Speciation Reversal: The Case of the Common Raven
Jin Ah Kim, *University of Maryland, Baltimore County, Baltimore, MD*

O68 The Role of Tension Across Cadherins in the Developing Xenopus Laevis Embryo
Delisa Clay, *Virginia Commonwealth University, Richmond, VA*

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

Oral Session 18: Engineering, Physics and Mathematics

Location: 212 A/B

O69 Binding of Meso-tetraphenyl-sofonato Porphyrin (tspp) to Trypsinogen
Joanna Perido, *University of Texas at San Antonio, San Antonio, TX*

O70 The Role of Subchondral Bone in the Progression of Load-Induced Osteoarthritis
Kendra R. Jones, *Howard University, Washington, DC*

O71 Monitoring of Patient Movement During External Beam Radiotherapy for Prostate Cancer
Essence Eley, *Hunter College, New York, NY*

O72 Studying Osmotic Swelling of Articular Cartilage under Unconfined Compression in Ionic Solutions of Varying Activity Coefficients
Evelia Y. Salinas, *St. Mary's University, San Antonio, TX*

Session Moderator: ***Chris Bassey, Ph.D.,*** *Azusa Pacific University, Azusa, CA*

Oral Session 19: Immunology

Location: 206B

O73 Surface Expression of Enolase on Pathogenic Bacteria Mimics Apoptotic Cells and Elicits Immunosuppression
José A. Cruz-Arzón, *University of Puerto Rico at Cayey, Cayey, PR*

O74 Role of Immune Mediator Galectin-9 in Pathogenesis of Murine Neurocysticercosis
Luis E. Munoz, *University of Texas at San Antonio, San Antonio, TX*

O75 Optimization of Programmable RNA Vaccines
Kristin Fitzpatrick, *Southern Oregon University, Talent, OR*

O76 Dynamics of Inflammation Resolution after Spinal Cord Injury in the Larval Sea Lamprey
Tokunbo Falohun, *University of Maryland College Park, College Park, MD*

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

Oral Session 20: Microbiology

Location: 205

O77 Real-Time In vitro Quantification of the Unfolded Protein Response through ATF6-Driven Luciferase Expression
Sean Munier, *Boston University School of Medicine, Boston, MA*

O78 Characterization of 2', 5'-Phosphodiesterases of Coronaviridae Family Members
Katherine Quiroz-Figueroa, *University of Puerto Rico, San Juan, San Juan, PR*

Saturday, November 15, 2014

O79 The Effect of Human Cytomegalovirus on Host Coilin and the Interactions of Viral proteins Ul3 and Ul30 with Coilin during Human Cytomegalovirus Infection
Andrew K. Asante, *Alabama State University, Montgomery, AL*

O80 Identification of Cell Surface Receptors Enabling Bacteriophage 7-7-1 Infection of Agrobacterium sp. H13-3 via Transposon Mutagenesis
Floricel Gonzalez, *Washington State University, Pullman, WA*

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

Oral Session 21: Molecular and Computational Biology

Location: 206A

O81 Organization of Centromeres within the Human Sperm Nucleus
Elizabeth Jordan, *Florida International University, Miami, FL*

O82 Towards the Accurate Calculation of Passive Membrane Permeability
Chantel A. Ible, *University of the Virgin Islands, Kingshill, VI*

O83 Bioinformatics Characterization of Cytotoxic and Regulatory T-cell Molecule (CRTAM) to Identify Candidate Regions to Build a Nano-Biosensor for Prostate Cancer
Judith S. Rodriguez, *Universidad Metropolitana, Caguas, PR*

O84 Expression, Purification and Characterization of a New (Lys)6-tagged Sulfide-reactive Hemoglobin I from Lucina pectinata
Andrés Moya-Rodríguez, *University of Puerto Rico Mayaguez Campus, Mayaguez, Puerto Rico*

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

Oral Session 22: Neuroscience

Location: 214A

O85 Understanding the Role of Pyroglutamate-3 Amyloid-beta in Alzheimer's Disease
Kelley Butler, *Howard University, Washington, DC*

O86 Impaired Aldehyde Metabolism in a Mouse Model of Alpha-Synuclein Overexpression
Leonel Herrera-Flores, *Tennessee State University, Nashville, TN*

O87 Genetic and Pharmacological Studies of Mitochondrial Dysfunction in Autism Spectrum Disorders
Ana C. Bolanos, *The University of Texas M.D. Anderson Cancer Center, Houston, TX*

O88 Aberrant Expression of microRNA let-7f Mediates the Cytotoxic Effect of Ethanol Withdrawal
Anthony Ruiz, *Southern Methodist University, Dallas, TX*

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

Oral Session 23: Physiology

Location: 207B

O89 Expression of GJA5 in Atrial Myocytes Resposible for Cardiac Malformations in Embryonic Development of zebrafish
Kristopher Brown, *Albany State University, Albany, GA*

O90 Contrasting Differences of Chronic Endothelin A Receptor (ETA) Blockade during the Progression of Renal Injury in Type-1 and Type-2 Diabetic Nephropathy
Denisha R. Spires, *Tougaloo College, Jackson, MS*

O91 A Review of Serum Magnesium Levels in Patients with Metastatic Breast Cancer Receiving Pertuzumab
Gianna Torre, *Hunter College, New York, NY*

O92 Measuring the Expression and Phosphorylation of Upstream Binding Factor (UBF) and Retinoblastoma Protein (Rb) in Developing Skeletal Muscle
Colin J.J. Crilly, *Vassar College, Poughkeepsie, NY*

Session Moderator: ***Christine Beeton, Ph.D.,*** *Baylor College of Medicine, Houston, TX*

Continued on next page

Saturday, November 15, 2014

Oral Session 24: Social and Behavioral Sciences and Public Health Location: 214B

O93 Colonoscopy and Polypectomy in Patients less than 50 Years Old: Indications and Findings
Nadiyah H. Rahaman, *CUNY Hunter College, New York, NY*

O94 Effects of Acute and Sustained Threat on Impulsivity in Adolescence
Camille A. Gregory, *Brooklyn College, New York, NY*

O95 Does Age Make a Difference? Mammogram Findings in Women 80 Years of Age and Older
Diane Kogan, *CUNY Hunter College, New York, NY*

O96 Analysis of the Anthropometric Indices of the Medial Longitudinal Arch of the Foot Using Digital Photography in an Adult Indian Population: A Cross Sectional Study
Lauren M. Long, *Alcorn State University, Alcorn State, MS*

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

8:30 a.m. – 9:15 a.m. **Exhibitor Feedback Session**

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**

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

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

1:15 p.m. – 2:15 p.m. **Closing Keynote Address: The Brown World Is Round** Location: Henry B. Gonzalez Convention Center, Grand Ballroom

The world has been brownly mixing since its inception — as religion and poets have told us — and now DNA has confirmed this.

Speaker
Richard Rodriguez, M.A., *American writer who became famous as the author of* Hunger of Memory

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

2:45 p.m. – 4:45 p.m. **Professional Development Session**
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:

Choosing Between Ph.D. and MD/PhD Program. This roundtable session will provide you with information needed to (i) decide if the Ph.D. or M.D.-Ph.D. is the correct pathway for you. Discussion topics include school selection, criteria evaluated by Ph.D. and 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.

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 triumphing over writer's block.

Goal Setting and Time Management. Setting goals is an excellent way to provide you with direction and purpose. Learn how setting goals can help you to channel your energy towards meaningful activities as you continue along your journey to success.

Saturday, November 15, 2014

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 you make sure 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).

Individual Development Plan (IDP) for Undergraduates. 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.

Interviewing for Graduate School. Understand how to (i) prepare for an interview,(ii) learn the differences between the different types of interview and interview questions, (iii) develop a follow up plan for after the interview and (iv) practice how to successfully answer the questions in an interview situation.

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.

Outclass the Competition! Etiquette Training. Learn how to use the ultimate business tool – protocol and etiquette intelligence – to distinguish yourself from the competition. 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.

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.

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! This group 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.

Writing Effective Personal Statements. Get tips on writing effective statements for graduate school and/or summer program applications. Bring a copy of a personal statement that you are working on.

Writing Teaching Statements. Do you want a career that involves substantial college teaching? Come talk with faculty about the critical teaching statement – an important element of a successful job search package. Participants will be provided with examples of successful teaching statements.

5:00 p.m. – 7:00 p.m. **FREE TIME! FREE TIME! FREE TIME!**

7:00 p.m. – 9:30 p.m. **Banquet, Conference Wrap-Up, Awards Ceremony** Location: Henry B. Gonzalez Convention Center, Grand Ballroom

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*

9:30 p.m. – 10:00 p.m. **Photo Session for ABRCMS Presentation Award Winners**

10:00 p.m. – 2:00 a.m. **Dance and Social** *(All Are Invited)* Location: Grand Hyatt Hotel, Lonestar Ballroom

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)

Thursday, November 13, 2014 • 2:45 p.m. – 3:45 p.m.

Keynote, Plenary and Concurrent Scientific Speakers

Derrick Pitts, B.S.
The Franklin Institute
The Important of Science Communication
Astrobiology: Applying What We Know to New Discoveries in the Universe

Stephen L. Mayo, Ph.D.
California Institute of Technology
Computational Approaches to Protein Engineering with Applications in the Life Sciences

Javier E. Irazoqui, Ph.D.
Massachusetts General Hospital, Harvard Medical School
Fighting Off Foes: Common Mechanisms Used by Plants and Animals to Protect Against Pathogens and Disease

Rachel M. Brewster, Ph.D.
University of Maryland– Baltimore County
An Attractive Role for Repulsive Guidance Molecules in Shaping the Neural Tube

Mehdi Kabbage, Ph.D.
University of Wisconsin, Madison
Fighting Off Foes: Common Mechanisms Used by Plants and Animals to Protect Against Pathogens and Disease

Avery August, Ph.D.
Cornell University
Using Small Molecule Inhibitors to Understand Immune Function: Blocking Allergies and Finding Targets

Jesse Kwiek, Ph.D.
The Ohio State University
Going Viral: From Science in the Lab to Public Health Interventions in International Communities

A.Oveta Fuller , Ph.D.
University of Michigan, Ann Arbor
Going Viral: From Science in the Lab to Public Health Interventions in International Communities

Monica Tsethlikai, Ph.D.
Arizona State University
Activities, Culture, and Cognitive Development in Middle Childhood

Russell DeBose-Boyd, Ph.D.
UT Southwestern Medical Center
Multivalent Control of HMG CoA Reductase, the Molecular Target of Statin Drugs

George Njoroge, Ph.D.
Eli Lilly and Company
The Joy of Science: Discovery of Victrelis™, the First HCV Protease Inhibitor to be Approved by Food and Drug Administration (FDA)

Plenary and Keynote Speakers

Wednesday, November 12, 2014

Derrick Pitts, B.S.

Derrick Pitts is currently the Chief Astronomer and Director of the Fels Planetarium at The Franklin Institute. He's also been a NASA Solar System Ambassador since 2009 and serves as the "Astrobiology Ambassador" for the NASA/MIRS/UNCF Special Program Corporation's Astrobiology Partnership Program. One of his newest honors is an appointment to the outreach advisory board for the world's largest telescope, the new Thirty-Meter-Telescope at Mauna Kea in Hawaii. He appears regularly in the media as a science content expert including appearances on the "Colbert Report" on Comedy Central and "The Late, Late Show with Craig Ferguson" on CBS. For more than two decades, Derrick has hosted award-winning astronomy radio programs for Philadelphia's two public radio stations and created signature astronomy television programming for PBS. One of the highlights of Derrick's career was meeting President Obama and his family when he was invited to participate in the first-ever White House Star Party. Derrick has received numerous awards including an honorary Doctor of Science Degree from La Salle University, and serves on the Board of Trustees for his alma mater St. Lawrence University. His twitter handle is @CoolAstronomer and his motto is "Eat, breathe, do science. Sleep later."

Thursday, November 12, 2014

Stephen L. Mayo, Ph.D.

Stephen L. Mayo, William K. Bowes Jr. Leadership Chair, Division of Biology and Biological Engineering; and Bren Professor of Biology and Chemistry, California Institute of Technology. Steve Mayo is the William K. Bowes Jr. Leadership Chair of the Division of Biology and Biological Engineering and Bren Professor of Biology and Chemistry at the California Institute of Technology in Pasadena, California. He has been a member of the Caltech faculty since 1992 and served as Vice Provost for Research from 2007 to 2010 before becoming Chair of the Division of Biology and Biological Engineering. Mayo's research focuses on the development of computational approaches to protein engineering -- a field that has broad applications ranging from advanced biofuels to human therapeutics. He co-founded Molecular Simulations Inc. (currently Accelrys), a computational chemistry company, Xencor, a bio-therapeutics company, and Protabit, a privately held protein engineering company. He was elected a member of the National Academy of Sciences in 2004 for his pioneering contributions in the field of protein design and was appointed by President Obama in March of 2013 to the National Science Board. He received his undergraduate degree in chemistry from the Pennsylvania State University and his Ph.D. in chemistry from Caltech.

Friday, November 14, 2014

Sonia Shah, B.A.

Sonia Shah is a science journalist and prize-winning author. Her writing on science, politics, and human rights has appeared in the *New York Times,* the *Wall Street Journal*, *Foreign Affairs*, *Scientific American* and elsewhere. Her work has been featured on RadioLab, Fresh Air, and TED, where her talk, "Three Reasons We Still Haven't Gotten Rid of Malaria" has been viewed by over 900,000 people around the world. Her 2010 book, The Fever, which was called a "tour-de-force history of malaria" (New York Times), "rollicking" (Time), and "brilliant" (*Wall Street Journal*) was long-listed for the Royal Society's Winton Prize. Her new book, Cholera's Child: Tracking the Next Pandemic, is forthcoming from Sarah Crichton Books/Farrar, Straus & Giroux in October 2015. Sonia Shah is a science journalist and prize-winning author. Her writing on science, politics, and human rights has appeared in the *New York Times,* the *Wall Street Journal*, *Foreign Affairs*, *Scientific American* and elsewhere. Her work has been featured on RadioLab, Fresh Air, and TED, where her talk, "Three Reasons We Still Haven't Gotten Rid of Malaria" has been viewed by over 900,000 people around the world. Her 2010 book, The Fever, which was called a "tour-de-force history of malaria" (New York Times), "rollicking" (Time), and "brilliant" (*Wall Street Journal*) was long-listed for the Royal Society's Winton Prize. Her new book, Cholera's Child: Tracking the Next Pandemic, is forthcoming from Sarah Crichton Books/Farrar, Straus & Giroux in October 2015.

Saturday, November 15, 2014

Richard Rodriguez, M.A.

Richard Rodriguez is an American writer who became famous as the author of Hunger of Memory: The Education of Richard Rodriguez (1982). His work has appeared in Harper's, The American Scholar, the Los Angeles Times Magazine, and The New Republic. Richard's awards include the Frankel Medal from the National Endowment for the Humanities and the International Journalism Award from the World Affairs Council of California. He has been nominated for the Pulitzer Prize in non-fiction; and the National Book Critics' Award. For nearly twenty years, he was a television essayist on the PBS "NewsHour." In 1997, he received a George Peabody Award for his televised essays on American life. In 1993, he received the Frankel Award (later renamed "The National Humanities Medal), the highest honor the Federal government gives to recognize work done in the humanities.

> *"Encouraged me to pursue science and opened my eyes to a community of students of color who were interested in science as well."*
>
> (Student)

Concurrent Scientific Speakers

Avery August, Ph.D.

Avery August is a professor of immunology and the chair of the Department of Microbiology and Immunology in the College of Veterinary Medicine at Cornell University. He is also Co-PI of the Cornell Sloan Diversity Fellowship Program. He received a bachelor's degree in medical technology from California State University–Los Angeles and a doctorate in immunology from Cornell University. He did a postdoctoral fellowship at the Rockefeller University and spent a brief period at the R.W. Johnson Pharmaceutical Research Institute. He was on the faculty at The Pennsylvania State University, where he was awarded the title Distinguished Professor of Immunology and was director of the graduate program in molecular medicine, the Center for Molecular Immunology and Infectious Disease, and the Alcorn State:Penn State University Bridges to the Doctorate Program. He has served on a wide range of NIH study section panels and advisory boards and sits on the editorial boards of a number of journals.

Rachel M. Brewster, Ph.D.

Rachel Brewster holds a bachelor's degree from the University of Geneva in Switzerland (1989). She carried out her graduate work on cell fate specification in the nervous system in the laboratory of Rolf Bodmer at the University of Michigan–Ann Arbor (earning a doctorate in 1996). During her postdoctoral training in the laboratories of Ruiz i Altaba at the Skirball Institute of Biomolecular Medicine (1996-1999) and Marnie Halpern at the Carnegie Institute of Washington (2000-2003), she became interested in how the vertebrate nervous system is shaped and patterned. She continued this line of research in her own laboratory after joining University of Maryland–Baltimore County in 2003. Her laboratory has made significant inroads into understanding the cellular basis for neural tube morphogenesis and the genetic pathways that regulate this process.

Russell DeBose-Boyd, Ph.D.

After obtaining a bachelor's degree in chemistry from Southeastern Oklahoma State University, Russell DeBose-Boyd was accepted into the Department of Biochemistry and Molecular Biology at the University of Oklahoma Health Sciences Center, where he joined the lab of Richard D. Cummings. After successfully defended a thesis focused on the synthesis of antigenic molecules in the parasitic and non-parasitic worms, DeBose-Boyd was a Jane Coffin Childs Memorial Fund for Medical Research Fellow in the lab of Joseph L. Goldstein and Michael S. Brown (1985 Nobel Laureates) in the Department of Molecular Genetics at UT Southwestern Medical Center. DeBose-Boyd was invited to join the molecular genetics faculty as an assistant professor in 2003. He was named an established investigator of the American Heart Association, the first recipient of the David L. Williams Lecture at the Kern Aspen Lipid Conference in 2005, and a W.M. Keck Distinguished Young Scholar in Medical Research in 2006. Promoted to associate professor in 2007, DeBose-Boyd was named a Howard Hughes Medical Institute Early Career Scientist in 2009. He received the John J. Abel Award in Pharmacology from the American Society for Pharmacology and Experimental Therapeutics in 2010 and was promoted to full professor in 2013.

A. Oveta Fuller, Ph.D.

A. Oveta Fuller, associate professor in microbiology and immunology and associate director of the African Studies Center at the University of Michigan, studies early events in virus-host interactions and infectious disease control. Her laboratory research examined herpes simplex virus entry and membrane fusion. Current research for eliminating HIV/AIDS mobilizes community through rigorous evaluation of biomedical-science-based training through religious leader networks in Zambia and the United States. For interdisciplinary global health research, she mentors personnel in cultural competencies required for immersion in fieldwork about microbial pathogens. Fuller has a bachelor's degree and doctorate from the University of North Carolina with postdoctoral training at the University of Chicago. She is a Ford Foundation Fellow and J. William Fulbright Scholar with awards from the National Institutes of Health, Anna Fuller Cancer Fund, National Science Foundation, Ford Foundation, and the U.S. Department of State. Fuller lived in the Southern Africa country of Zambia for most of 2013 to conduct a validity study on impacts of the trusted messenger intervention (TMI) for HIV/AIDS control.

Javier Irazoqui, Ph.D.

Javier Irazoqui earned his bachelor's degree at the Universidad Nacional de Rosario, Argentina. He attended graduate school at Duke University Medical Center, where he obtained his doctorate degree in cell biology in 2003 for his work on the molecular mechanisms of cytoskeletal regulation. He joined Massachusetts General Hospital that same year as a Jane Coffin Childs postdoctoral fellow and then was a Charles King Trust fellow in the lab of Fred Ausubel (Department of Molecular Biology). In Ausubel's lab, Irazoqui investigated the fundamental mechanisms of innate immunity and of methicillin-resistant *Staphylococcus aureus* virulence using *Candida elegans* genetics and genomics. In 2009, Irazoqui joined the faculty of the MassGeneral Hospital for Children as an associate immunologist, and in 2010 the Department of Pediatrics of Harvard Medical School as an assistant professor. In 2014, he joined the Center for the Study of Inflammatory Bowel Disease. Irazoqui's research focuses on fundamental mechanisms of host defense against infection and on host-microbiota interactions, with the ultimate goal to develop better diagnostics and treatments for bacterial infections, chronic inflammation, and metabolic syndrome.

Mehdi Kabbage, Ph.D.

Mehdi Kabbage is an assistant professor of plant pathology at the University of Wisconsin–Madison. He received his bachelor's degree in engineering from Ecole d'Ingénieurs de Purpan, Toulouse, France, and his doctorate in plant pathology from Kansas State University before joining the laboratory of Marty Dickman at the Norman Borlaug Institute of Plant Genomics and Biotechnology at Texas A&M University. In 2013, he joined the faculty in the Department of Plant Pathology at the University of Wiscon-

sin–Madison. His research interests are twofold. One focus is on gaining a better understanding of necrotrophic fungal pathogenesis that will lead to suitable control strategies. The other is on studying programmed cell death in plants, particularly how certain animal apoptosis inhibitors are able to function and inhibit cell death in plants, despite the lack of homology between key cell death players in animal and plant systems.

Jesse J. Kwiek, Ph.D.

Jesse J. Kwiek was born and raised in Western New York. After completing his bachelor's degree in biochemistry, he joined the Peace Corps, where he taught biology in rural Malawi. He has a doctorate in pharmacology and postdoctoral training in molecular epidemiology. His scientific research has focused on malaria and AIDS in Malawi. He is an associate professor at The Ohio State University, and his lab uses the tools of molecular biology, virology, and epidemiology to better understand HIV pathogenesis.

F. George Njoroge, Ph.D.

F. George Njoroge is a senior research fellow at Eli Lilly and Company. Previously, he was a director in the Department of Medicinal Chemistry at Merck Research Laboratories. His achievements at Merck include research leadership on the discovery of the anti-HCV viral drug Victrelis™ (also known as Boceprevir or SCH 503034), which in 2011 was approved by the FDA as the first-in-class therapy for HepC treatment. Njoroge has also worked extensively in the oncology area, especially in the discovery of therapeutic agents geared towards intervention of signal transduction process in proliferating cells. He graduated with honors from University of Nairobi, Kenya, and completed his doctorate in organic chemistry at Case Western Reserve University in 1985. Njoroge is author or coauthor of more than 131 scientific publications and holder of 91 U.S. patents. He was inducted into as the a Hero of Chemistry by the American Chemical Society in 2012 and is a recipient of numerous other awards, including the Emerald Award for Professional Achievement in Industry and Thomas Alva Edison Patent Award for emerging therapies.

David Lacks, Jr., grandson of Henrietta Lacks and son of David (Sonny) Lacks, interacts with ABRCMS participants.

Eberhard Voit (speaker) with student during ABRCMS Meet and Greet session

Monica Tsethlikai, Ph.D.

An enrolled member of the Zuni tribe, Monica Tsethlikai is a William T. Grant Scholar, a Native Children's Research Exchange Scholar, and a former Ford Fellow. She graduated from the University of Notre Dame in 1991 and followed this with eight years as a youth counselor and juvenile probation officer. Tsethlikai obtained a master's degree in indigenous nations studies in 2001 and doctorate in psychology (cognitive and quantitative) in 2005 from the University of Kansas. She completed a postdoctoral fellowship at the University of California–Santa Cruz. She was an assistant professor of psychology at the University of Utah for six years. As an assistant professor in the T. Denny Sanford School of Social and Family Dynamics at Arizona State University, she is interested in how children's daily activities shape brain development with a special focus on cultural activities.

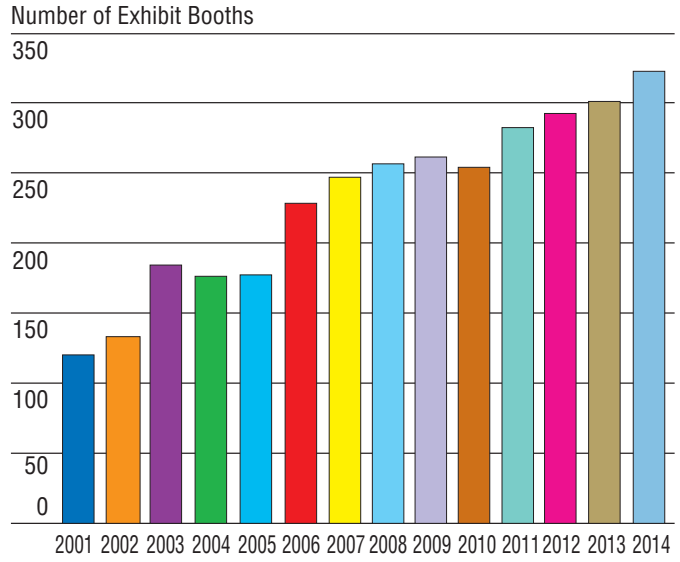
ABRCMS Statistics

Registration

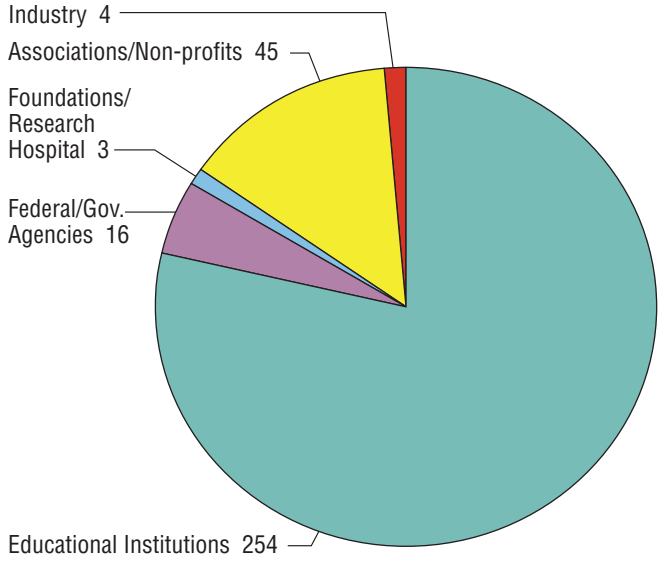
Type of Attendee	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014*
Students	1,157	1,646	1,694	1,580	1,667	1,633	1,525	1,788	1,755	2,008	2,097	2,147	2,184	2,215
Undergrad Students/Postbacs	863	1,395	1,383	1,264	1,296	1,233	1,290	1,494	1,462	1,713	1,788	1,825	1,775	1,863
Grad Students/Postdocs	161	251	311	316	371	400	235	294	293	295	309	322	409	352
Exhibitors	230	237	283	305	323	418	426	442	458	504	501	535	553	491
Program Directors & Faculty	304	471	464	409	423	421	503	501	445	587	588	552	501	448
Others/Admin	164	235	129	141	131	96	10	109	99	139	170	249	201	124
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	3,290

*As of October 31, 2014

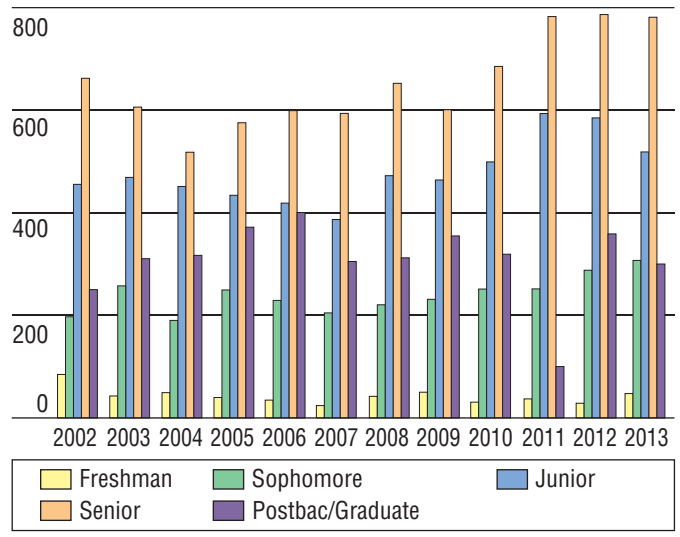
Exhibits



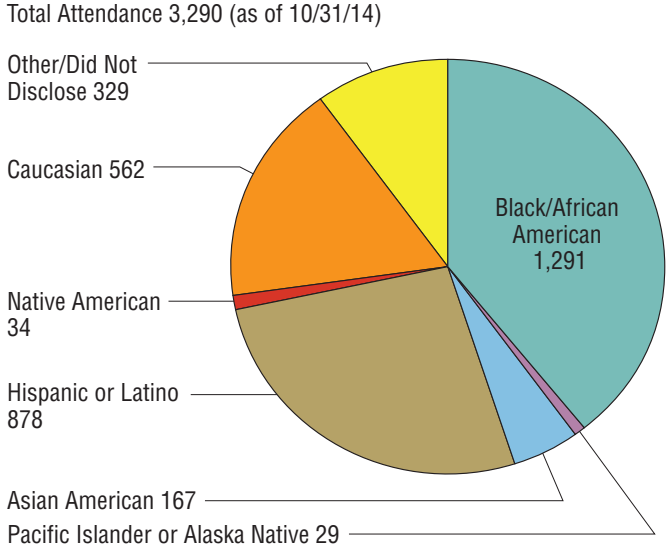
2014 ABRCMS Exhibitor Types



ABRCMS Student Education Levels



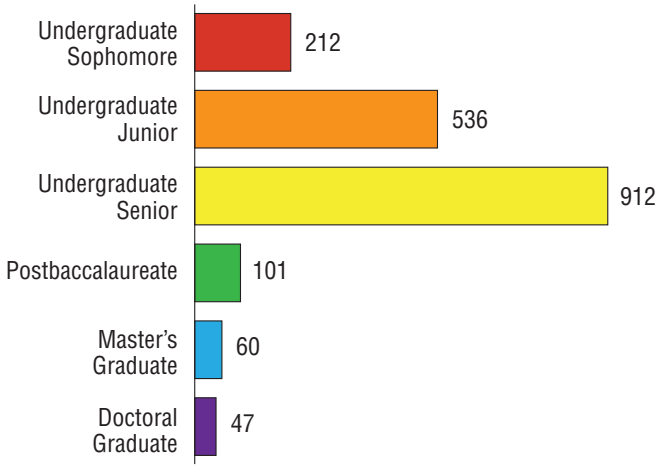
2014 ABRCMS Attendee Ethnicity



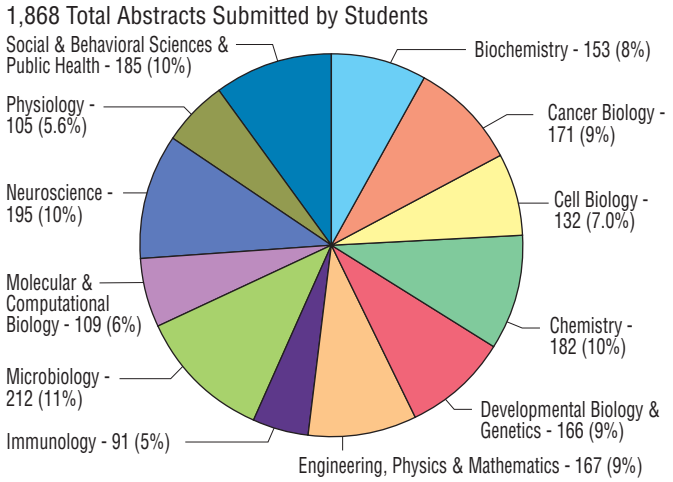
Abstracts Submitted

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

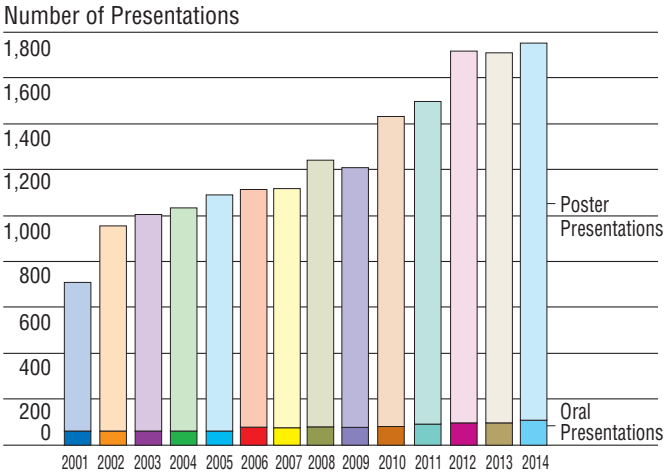
2014 Abstract Submissions by Educational Level



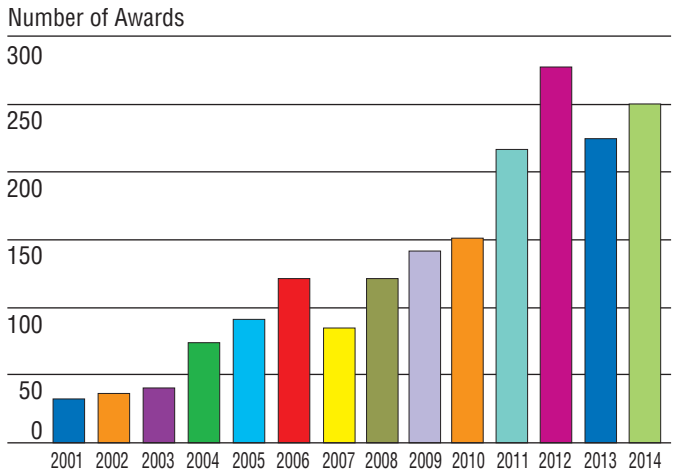
2014 Distribution of Scientific Disciplines



Total Number of Student Presentations



Student Presentation Awards



Notes

Student Presentation Information

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Abstract Information

Poster Presentation Schedule

Poster Session 1 (A):

Thursday, November 13, 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 13, 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 14, 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 14, 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 14, 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 15, 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 15, 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 in program on pages 25-28 and 35-38

Oral Sessions 1 – 12:

Thursday, November 13, 5:30 p.m. – 6:30 p.m.

Oral Sessions 13 – 24:

Saturday, November 15, 8:30 a.m. – 9:30 a.m.

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

	Session 1 (A)	Session 2 (B)	Session 3 (C)	Session 4 (D)	Session 5 (E)	Session 6 (F)	Session 7 (G)
Graduate Students & Previous ABRCMS Presentation Awardees	A001 – A026	B001 – B026	C001 – C017	D001 – D017	E001 – E017	F001 – F026	G001 – G025
Social and Behavioral Sciences & Public Health	A027 – A050	B027 – B050	C018 – C033	D018 – D033	E018 – E033	F027 – F050	G026 – G048
Physiology	A051 – A064	B051 – B064	C034 – C042	D034 – D042	E034 – E042	F051 – F064	G049 – G060
Neuroscience	A065 – A091	B065 – B091	C043 – C060	D043 – D060	E043 – E060	F065 – F091	G061 – G091
Molecular and Computational Biology	A092 – A105	B092 – B105	C061 – C069	D061 – D069	E061 – E069	F092 – F105	G092 – G104
Microbiology	A106 – A133	B106 – B133	C070 – C088	D070 – D088	E070 – E088	F106 – F133	G105 – G133
Immunology	A134 – A144	B134 – B144	C089– C095	D089– D095	E089 – E095	F134 – F144	G134 – G145
Engineering, Physics and Mathematics	A145 – A165	B145 – B165	C096 – C110	D096 – D109	E096 – E109	F145 – F165	G146 – G167
Developmental Biology and Genetics	A166 – A186	B166 – B186	C111 – C124	D110 – D123	E110 – E123	F166 – F186	G168 – G188
Chemistry	A187 – A211	B187 – B211	C125 – C141	D124 – D140	E124 – E140	F187 – F211	G189 – G213
Cell Biology	A212 – A229	B212 – B229	C142 – C153	D141 – D152	E141 – E152	F212 – F229	G214 – G230
Cancer Biology	A230 – A251	B230 – B251	C154 – C168	D153 – D166	E153 – E166	F230 – F251	G231 – G252
Biochemistry	A252 – A272	B252 – B272	C169 – C182	D167 – D180	E167 – E180	F252 – F272	G253 – G271

ABRCMS Student Presentation Chairpersons

Biochemistry
Michael Summers, Ph.D., *University of Maryland, Baltimore County, Baltimore, MD*

Cancer Biology
Juanita Merchant, Ph.D., *University of Michigan, Ann Arbor, MI*

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

Chemistry
Alison Williams, Ph.D., *Oberlin College, Oberlin, OH*

Developmental Biology & Genetics
DiAnna Hynds, Ph.D., *Texas Woman's University, Denton, TX*

Engineering, Physics & Mathematics
Chris Bassey, Ph.D., *Azusa Pacific University, Azusa, CA*

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*

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

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

Physiology
Christine Beeton, Ph.D., *Baylor College of Medicine, Houston, TX*

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

ABRCMS Judges' Travel Subsidy Review Committee

- Michael Ehi Ayewoh, Ph.D., *Lincoln University, Jefferson City, MO*
- Charles Bevins, M.D./Ph.D., *University of California, Davis, 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*
- Megan Mcevoy, Ph.D., *University of Arizona, Tucson, AZ*
- Mauricio Cabrera-Rios, Ph.D., *University of Puerto Rico at Mayaguez, PR*

ABRCMS Student Travel Award Review Committee

- Sherrice Allen, Ph.D., *Fayetteville State University, Fayetteville, NC*
- Avery August, Ph.D., *Cornell University - College of Veterinary Medicine, Ithaca, NY*
- Earnestine Baker, *University of Maryland, Baltimore County, Baltimore, MD*
- C. Gita Bosch, Ph.D., *G Bosch & Associates, New York, NY*
- Eric Buckles, Ph.D., *Dillard University, New Orleans, LA*
- C. Ainsley Davis, Ph.D., *Bethune-Cookman University, Daytona Beach, FL*
- Kelly Diggs-Andrews, Ph.D, *American Society for Microbiology, Washington, DC*
- Maryrose Franko, Ph.D., *Howard Hughes Medical Institute, Ashburn, VA*
- Lisa Goering, Ph.D., *St. Edward's University, Austin, TX*
- Louise Hainline, Ph.D., *CUNY Brooklyn College, Brooklyn, NY*
- Saundra Herndon Oyewole, Ph.D., *Trinity Washington University, Washington, DC*
- Alvin Holder, Ph.D., *Old Dominion University, Norfolk, VA*
- Rachel Horak, Ph.D., *American Society for Microbiology, Washington, DC*
- DiAnna Hynds, Ph.D., *Texas Woman's University, Denton, TX*
- Marsha Lucas, Ph.D., *Society for Developmental Biology, Bethesda, MD*
- Joeli Marrero, Ph.D., *Cornell University-College of Veterinary Medicine, Ithaca, NY*
- Ekaette Mbong, Ph.D., *University of California, San Diego-Health Sciences, San Diego, CA*
- Kristini Miles, Ph.D., DABT, *Kimberly-Clark Corporation, Roswell, GA*
- Peter M. O'Day, Ph.D., *University of Oregon, Eugene, OR*
- Phillip Ortiz, Ph.D., *SUNY-Stony Brook University, Stony Brook, NY*
- Chenere Ramsey, Ph.D., *Hampton University-School of Science, Hampton, VA*
- Marion Sewer, Ph.D., *University of California, San Diego-Skaggs School of Pharmacy and Pharmaceutical Sciences, San Diego, CA*
- Laurel Southard, Ph.D., *Cornell University, Ithaca, NY*
- Sophia Suarez, Ph.D., *CUNY, Brooklyn College, Brooklyn, NY*
- Cynthia van Golen, Ph.D., *Delaware State University, Dover, DE*
- Marcelo Vinces, Ph.D., *Oberlin College & Conservatory-CLEAR, Oberlin, OH*
- Jason Walker, Ph.D., *Philander Smith College, Little Rock, AR*

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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Hintermeister, Abigail	Microbiology: Virology	C070
Hite, Audra J.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A046
Ho, Brian	Developmental Biology and Genetics: Genetics	G183
Hoang, Nguyet-Minh N.	Physiology: Nutrition	A059
Hobbs, Cassie L.	Immunology: Immunology	D089
Hodge, Le'aaricka	Chemistry: Pharmaceutical Chemistry	B194
Holden, Mark-Anthony L.	Cancer Biology: Cancer Biology	A245
Holley, Lenton	Cancer Biology: Cancer Biology	G234
Holloway, Chelsee T.	Physiology: Endocrinology	B007
Holmes, Amanda C.	Social and Behavioral Sciences and Public Health: Psychology	E023
Holmes, Nicole M.	Social and Behavioral Sciences and Public Health: Anthropology	B042

James, Hadiya S.	Microbiology: Bacteriology	F129
Jasper, Robyn	**Cell Biology: Cell Biology**	**O059**
Jasper, Shanese L.	Microbiology: Bacteriology	F009
Jenkins, Andrea M.	Immunology: Immunology	E090
Jennings, Jasmine I.	Physiology: Physiology	C041
Jideama, Stephanie C.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	E021
Jimenez, Angel G.	Neuroscience: Neurobiology	E060
Jimenez, David	Developmental Biology and Genetics: Genetics	C118
Jimenez, Isabel A.	Immunology: Immunology	C094
Jimenez, Vanessa	Neuroscience: Neuroscience	B006
Jocelin, Sabine	Biochemistry: Biochemistry	G268
Johnson, Abraham N.	Cell Biology: Cell Biology	E149
Johnson, Da'Kuawn	Microbiology: Bacteriology	G109
Johnson, Dante' T.	Biochemistry: Biochemistry	E177
Johnson, Darren C.	Immunology: Immunology	C091
Johnson, Erin	**Molecular and Computational Biology: Genomics**	**O033**
Johnson, Jalen I.	Engineering, Physics and Mathematics: Material Sciences	E098
Johnson, Jevon D.	Engineering, Physics and Mathematics: Mathematics	B154
Johnson, Kendra V.	Biochemistry: Biomolecules	A255
Johnson, Michelle	Neuroscience: Neurobiology	F024
Johnson, Nia Cancer	Biology: Cancer Biology	B230
Johnson, Oshea D.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B043
Johnson-Gray, Myles J.	Molecular and Computational Biology: Computer Sciences	G014
Joiner, Breanna J.	Cancer Biology: Cancer Biology	F241
Jones, Alana Cell	Biology: Cell Biology	B226
Jones, Derick D.	Chemistry: Analytical Chemistry	C014
Jones, Edith	Cell Biology: Cell Biology	B217
Jones, Elizabeth	Biochemistry: Biochemistry	F260
Jones, Ilenna S.	Neuroscience: Neurobiology	E050
Jones, Jasmine M.	Cancer Biology: Cancer Biology	D158
Jones, Justin	Molecular and Computational Biology: Computational Biology	B098
Jones, Keldric C.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G044
Jones, Kendra R.	**Engineering, Physics and Mathematics: Bioengineering**	**O070**
Jones, Steven	Social and Behavioral Sciences and Public Health: Psychology	E028
Jones, Tamara	Engineering, Physics and Mathematics: Biophysics	G151
Jordan, Elizabeth	**Molecular and Computational Biology: Genomics**	**O081**
Joseph, Ivor G.	Microbiology: Mycology	G003
Joseph, Kohrissa	Social and Behavioral Sciences and Public Health: Psychology	B032
Joseph, Lorne S.	Chemistry: Inorganic Chemistry	A202
Joseph, Serena	Microbiology: Parasitology	F133
Joseph, Tisha S.	Cancer Biology: Cancer Biology	C162
Joshi, Piyush	Neuroscience: Neurobiology	F087
Jusino, Shirley	Microbiology: Virology	G007
Kamaha, Roussel	Engineering, Physics and Mathematics: Bioengineering	F148
Kapadia, Sahista	Chemistry: Organic Chemistry	F191
Karanja-Senge, Wanjiru	Neuroscience: Neurobiology	D047
Katz, Brittany M.	Neuroscience: Neurobiology	A065
Kay, Amber M.	Chemistry: Pharmaceutical Chemistry	F207
KC, Asmini	Cell Biology: Cell Biology	G220
Kebede, Yonatan A.	Biochemistry: Biochemistry	G260
Keita, Hamidou	Neuroscience: Neurobiology	E057
Kelley, Alexandria	Microbiology: Bacteriology	A111
Kennedy, Kendall J.	Cancer Biology: Cancer Biology	F234
Kennewick, Kelly	**Cell Biology: Cell Biology**	**O058**
Keyes, Anthony	Cancer Biology: Cancer Biology	C160
Khattab, Reem	Cancer Biology: Cancer Biology	F236
Khusial, Richard D.	Chemistry: Environmental Chemistry	F209
Kibui, Julie	Cell Biology: Cell Biology	A215

Leonard, Kaitlyn C.	Physiology: Systems Biology	D038
Lerner, Geraldine O.	Microbiology: Bacteriology	E078
Lester, Rachel L.	**Developmental Biology and Genetics: Developmental Biology**	**O017**
Lestin, Stephan J.	Cell Biology: Cell Biology	A228
Lewis, Dawanna S.	Cell Biology: Cell Biology	B224
Lewis, Kristen	Molecular and Computational Biology: Computational Biology	G013
Lewis, Liam S.	Biochemistry: Biochemistry	D176
Li, May	Chemistry: Organic Chemistry	A206
Li, Mengjun	Cancer Biology: Cancer Biology	C158
Li, Wendy	Cancer Biology: Cancer Biology	A237
Libutsi, Atila	Microbiology: Bacteriology	B123
Lindsay, Brittany T.	Cancer Biology: Cancer Biology	A250
Lipsey, Kiara	Chemistry: Physical Chemistry	E133
Liquet y González, José E.	Microbiology: Bacteriology	A122
Little, Saffron R.	Molecular and Computational Biology: Proteomics	C064
Livingston, Krystal T.	Cancer Biology: Cancer Biology	D162
Llontop, Pedro	Immunology: Immunology	E095
Llorens, Aidaliz	Biochemistry: Metabolism	C169
Lloyd, Taylor	Microbiology: Virology	F122
Loh, Deanna	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O047**
Long, Christopher T.	Neuroscience: Neurobiology	E052
Long, Lauren M.	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O096**
Long, Tiffany	Social and Behavioral Sciences and Public Health: Psychology	B029
Lopez, Abdon	Physiology: Pharmacology	C038
Lopez, Ashley	Microbiology: Bacteriology	G121
Lopez, Crisol	Social and Behavioral Sciences and Public Health: Psychology	B036
Lopez, Cristal	Social and Behavioral Sciences and Public Health: Psychology	B035
López, Darryl J.	Biochemistry: Biomolecules	G256
Lopez, Karina	Cancer Biology: Cancer Biology	B248
Lopez, Katherine	Neuroscience: Neurobiology	A084
Lopez, Lacey R.	Microbiology: Bacteriology	G133
Lopez, Mitchell L.	Developmental Biology and Genetics: Developmental Biology	D012
Lopez, Sabrina	Developmental Biology and Genetics: Genetics	E113
Lopez, Victor A.	Cell Biology: Cell Biology	F219
Lopez, Yessenia	Biochemistry: Biochemistry	E175
Lopez Corcino, Yalitza	Immunology: Immunology	A135
Lopez-Alfonzo, Erika M.	Biochemistry: Biochemistry	A008
Lopez-Arroyo, Andrea	Chemistry: Analytical Chemistry	F193
López-Caraballo, Naomi I.	Neuroscience: Neurobiology	B087
Lorant, Alina K.	**Immunology: Immunology**	**O027**
Lorenzo, Maltish M.	Chemistry: Organic Chemistry	E124
Lowery, Ashley D.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B024
Loyd, Quentin	Cell Biology: Cell Biology	F214
Lozada-Fernandez, Valery V.	Microbiology: Microbial Physiology	G001
Lu, Madeleine	Cell Biology: Cell Biology	F218
Lugo, Ghiara A.	Chemistry: Organic Chemistry	C138
Luna, Andrew J.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F032
Luna, Julie A.	Developmental Biology and Genetics: Developmental Biology	B173
Luna-Serrano, Rochely V.	Physiology: Anatomy	B057
Lung, Betty Y.	**Physiology: Pharmacology**	**O044**
Ly, Ngoc L.	Microbiology: Virology	C081
Lynch, Briana	Cell Biology: Plant Biology	D152
Lynch, Brittany S.	Neuroscience: Neurobiology	D053
Ma, Chanthia	**Cell Biology: Cell Biology**	**O010**
Maasa, Robinah K.	Engineering, Physics and Mathematics: Biophysics	E096
Macchiavelli Giron, Sofia I.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F038
Macklin, Bria L.	Engineering, Physics and Mathematics: Bioengineering	C106
Madden, Justin	Microbiology: Mycology	E072

McRae, Kimberly R.	**Chemistry: Pharmaceutical Chemistry**	**O014**
McReynolds, Melanie R.	Biochemistry: Metabolism	E010
Medina López, Aidyn M.	Cell Biology: Cell Biology	D150
Medina- Ortiz, Ilza H.	Physiology: Endocrinology	E038
Meggo, Anika	Neuroscience: Neuroscience	G070
Meis, Daniel R.	Chemistry: Pharmaceutical Chemistry	B189
Mena, Crystal	Chemistry: Environmental Chemistry	A205
Mendel, Zachary I.	Microbiology: Virology	A116
Mendes, Monique S.	Neuroscience: Neuroscience	E053
Mendez, Erika J.	Neuroscience: Neuroscience	F073
Mendez, Krystal E.	Social and Behavioral Sciences and Public Health: Psychology	F034
Méndez-Vázquez, Yaileen M.	Engineering, Physics and Mathematics: Mathematics	A010
Mensah, Lydia	Chemistry: Organic Chemistry	F199
Mention, Najeia C.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A045
Mestey, Keila	Neuroscience: Neuroscience	C056
Meza, Leticia	Molecular and Computational Biology: Genomics	A102
Michael, Christina M.	Neuroscience: Neurobiology	G076
Mikhaylov, Daniela S.	Cancer Biology: Cancer Biology	G244
Millán-Barea, Luis R.	Molecular and Computational Biology: Proteomics	C067
Miller, Evan R.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	D022
Miller, Gerald C.	Microbiology: Mycology	C087
Miller, Hannah K.	Biochemistry: Biomolecules	B259
Miller, Joselyn S.	Immunology: Immunology	G145
Miller, Megan	Microbiology: Bacteriology	F125
Miner, Krislyn	Chemistry: Inorganic Chemistry	D138
Minker, Katharine R.	Cell Biology: Plant Biology	A025
Minor, Briaunna M.	Biochemistry: Structural Biology	B268
Miramontes, Irving	Developmental Biology and Genetics: Developmental Biology	D122
Miranda Alarcón, Yoliem S.	Chemistry: Organic Chemistry	F211
Miranda-Román, Miguel A.	Cancer Biology: Cancer Biology	F240
Mitchell, Joshua K.	Chemistry: Environmental Chemistry	A191
Mitchell, Lauryn	Molecular and Computational Biology: Computational Biology	G101
Mitchell, Le'Andrea P.	Neuroscience: Neurobiology	C049
Moats, Jacqueline M.	Neuroscience: Neuroscience	C054
Moats, Michelle A.	Chemistry: Organic Chemistry	B191
Mohamed, Zeinab	Microbiology: Virology	A115
Mojibola, Adeolu	Chemistry: Pharmaceutical Chemistry	D129
Molina-Villarino, Andrés	Chemistry: Organic Chemistry	A211
Moline, Olivia M.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	C021
Molla, Hanna M.	Neuroscience: Neuroscience	F070
Monahan-Vargas, Ernest	Neuroscience: Neurobiology	E055
Mondelus, Fabienne	Neuroscience: Neurobiology	B080
Mongalo, Milliejoan	Physiology: Anatomy	B058
Montañez-González, Raquel	Microbiology: Parasitology	D070
Montejano, Amanda E.	Developmental Biology and Genetics: Genetics	B184
Montero-Parrilla, Siriann	Microbiology: Environmental Microbiology	B111
Montes, Jazlene	Biochemistry: Biochemistry	B269
Montes, Laura P.	Neuroscience: Neurobiology	G082
Montgomery, Joshua	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A032
Montgomery, Kelly M.	Chemistry: Organic Chemistry	F188
Montgomery, Maleek D.	Chemistry: Organic Chemistry	A196
Montoya, Vanessa R.	Immunology: Immunology	E091
Montree, Keith A.	Cell Biology: Cell Biology	A218
Moody, Cornelius W.	Biochemistry: Biomolecules	A261
Moody, Jasmine C.	Cancer Biology: Cancer Biology	C156
Moon, Brianna F.	Engineering, Physics and Mathematics: Bioengineering	E008
Moore, Gabriel M.	Microbiology: Bacteriology	B133
Moore, George	Engineering, Physics and Mathematics: Bioengineering	B153

Noel, Niyoyankunze	Biochemistry: Metabolism	G254
Norman, Jaminah C.	Cell Biology: Plant Biology	F222
Norman, Kristyn	Chemistry: Analytical Chemistry	E126
Novelo, Aldair	Cancer Biology: Cancer Biology	G251
Ntaganda, Liliane	Engineering, Physics and Mathematics: Mathematics	E012
Nunez, Roy E.	Engineering, Physics and Mathematics: Bioengineering	B147
Nwabudike, Ijeoma M.	Social and Behavioral Sciences and Public Health: Sociology	G036
Nyarko, Michael K.	Developmental Biology and Genetics: Evolution and Developmental Biology	G172
Nyati, Cassandra	Cell Biology: Cell Biology	A227
O'Keefe, Olivia	Neuroscience: Neurobiology	F065
Ocasio, Daniel	Chemistry: Physical Chemistry	G209
Ochiobi, Amarachi G.	Chemistry: Organic Chemistry	A200
Ochoa, Jocelyn	Chemistry: Pharmaceutical Chemistry	B202
Ochoa, Trini	Microbiology: Bacteriology	E085
Odinammmadu, Kamsi	Developmental Biology and Genetics: Developmental Biology	G170
Odudu, Christopher	Neuroscience: Neuroscience	F089
Odukale, Olumayokun	Chemistry: Analytical Chemistry	F190
Okasinski, Alexis A.	Engineering, Physics and Mathematics: Bioengineering	G162
Okoye, Ejike V.	Neuroscience: Neurobiology	D058
Okunlola, Winifred O.	Developmental Biology and Genetics: Genetics	E121
Oliva, Kimberly	Physiology: Physiology	F063
Olivas, Daniela	Biochemistry: Structural Biology	D172
Omer, Salma	Biochemistry: Biochemistry	C178
Omokehinde, Tolu N.	**Microbiology: Virology**	**O029**
On, Sandy	Molecular and Computational Biology: Proteomics	F103
Ondigi, Olivia	Cancer Biology: Cancer Biology	G243
Ononuju, Ucheze C.	Biochemistry: Biochemistry	A272
Onukwugha, Chinenye	Immunology: Immunology	A143
Oropeza, Beu P.	Microbiology: Virology	F114
Ortiz, Sarah C.	Microbiology: Virology	B106
Ortiz, Sarah L.	Developmental Biology and Genetics: Developmental Biology	G178
Ortiz, Stephanie K.	Chemistry: Pharmaceutical Chemistry	G198
Ortiz-Velez, Yvis del Mar	Neuroscience: Neuroscience	C057
Osigwe, Chinweoke C.	Microbiology: Parasitology	B110
Osumanu, Ibrahim	Physiology: Nutrition	C036
Osunsade, Adewola	**Chemistry: Inorganic Chemistry**	**O064**
Owens, Darlisha L.	Immunology: Immunology	E094
Owens, Harold	Engineering, Physics and Mathematics: Nanotechnology	E108
Ozoemena, Uchechukwu J.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F040
Ozuruonye, Emmanuel K.	Cell Biology: Cell Biology	B213
Padilla, Amanda	Engineering, Physics and Mathematics: Bioengineering	D106
Padilla, Hugo	Molecular and Computational Biology: Proteomics	A105
Padilla, Omar	Engineering, Physics and Mathematics: Material Sciences	E016
Padilla-Del Valle, Ricky	Microbiology: Environmental Microbiology	G106
Pagan, Maria de L.	**Cell Biology: Cell Biology**	**O009**
Pagan Medina, Christian G.	Microbiology: Environmental Microbiology	E088
Pagan-Rivera, Pablo A.	Neuroscience: Neuroscience	A076
Paige, Julian M.	Engineering, Physics and Mathematics: Nanotechnology	G150
Pait, Morgan	Neuroscience: Neurobiology	F072
Palilla, Anthony	Chemistry: Organic Chemistry	A207
Palmer, Andria J.	Engineering, Physics and Mathematics: Material Sciences	A162
Paniagua, Steven	Developmental Biology and Genetics: Genetics	F178
Paredes Mesa, Stephany	Chemistry: Environmental Chemistry	B209
Parisi, Stephanie	Cancer Biology: Cancer Biology	F231
Park, Shin Young	Chemistry: Organic Chemistry	C126
Parsons, Samantha	Biochemistry: Structural Biology	D170
Paruchuri, Venkata A.	Cancer Biology: Cancer Biology	A244
Patel, Tanviben	Engineering, Physics and Mathematics: Nanotechnology	C097

Prince, Calais S.	Developmental Biology and Genetics: Developmental Biology	D015
Puentes, Laura	Physiology: Physiology	F061
Pulliam, Jamon P.	Social and Behavioral Sciences and Public Health: Psychology	E032
Puspita Sari, Chrisdina	Engineering, Physics and Mathematics: Bioengineering	A149
Pyatt, Assata F.	**Cancer Biology: Cancer Biology**	**O008**
Quijano-Cardé, Natalia A.	Physiology: Pharmacology	C042
Quintanilla, Carlo G.	Developmental Biology and Genetics: Genetics	C120
Quiroz-Figueroa, Katherine	**Microbiology: Virology**	**O078**
Rader, Sarah S.	**Biochemistry: Biochemistry**	**O004**
Rahaman, Nadiyah H.	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O093**
Rahat, Madeeha	Neuroscience: Neuroscience	G062
Ramdular, Amanda	Biochemistry: Structural Biology	A258
Ramirez, Andrea P.	Social and Behavioral Sciences and Public Health: Psychology	F030
Ramirez, Brianna R.	Microbiology: Microbial Physiology	C083
Ramirez, Washington H.	Chemistry: Analytical Chemistry	G208
Ramirez, Yadah V.	Developmental Biology and Genetics: Developmental Biology	B175
Ramos, Carina	Developmental Biology and Genetics: Developmental Biology	D118
Ramos, Erika K.	Cancer Biology: Cancer Biology	A232
Ramos, Kevyn A.	Neuroscience: Neurobiology	B071
Ramos, Sashary	Chemistry: Analytical Chemistry	C133
Ramos-Camacho, Elisa	Biochemistry: Biochemistry	D178
Ramos-Diaz, Sylvette	Microbiology: Virology	B127
Rangel, Luis	Neuroscience: Neurobiology	D059
Rangel, Margarita V.	Microbiology: Environmental Microbiology	F109
Rao, Divya	Engineering, Physics and Mathematics: Nanotechnology	E017
Raphael, Maya M.	Neuroscience: Neuroscience	A070
Rayford, Margie A.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	C003
Reddie, Royan	Cancer Biology: Cancer Biology	D157
Reed, Theo L.	Microbiology: Bacteriology	E082
Reid, Faith	Neuroscience: Neuroscience	C050
Resendez, Viviana A.	Molecular and Computational Biology: Genomics	G100
Resnik, Mayra V.	Microbiology: Bacteriology	B122
Reyes, Isavannah L.	Molecular and Computational Biology: Bioinformatics	G099
Reyes, Jose	Physiology: Endocrinology	B062
Reyes, Raisa A.	Microbiology: Environmental Microbiology	F108
Reyes Gaido, Oscar E.	**Cell Biology: Molecular Imaging**	**O011**
Reynolds, Mark C.	Microbiology: Environmental Microbiology	C074
Rice, Dawn A.	Microbiology: Virology	B112
Richard, Craig A.	Engineering, Physics and Mathematics: Bioengineering	C100
Riera, David	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	D026
Rincon, Joshua J.	Cancer Biology: Cancer Biology	D154
Rios, Katrina C.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	D019
Rivera, Charlene N.	Neuroscience: Neurobiology	B072
Rivera, Edris	Biochemistry: Biochemistry	A257
Rivera, Gilbert	Neuroscience: Neuroscience	A091
Rivera, Iris V.	Biochemistry: Biomolecules	D171
Rivera, Isabel	Physiology: Pharmacology	F053
Rivera, Lorianny	Developmental Biology and Genetics: Evolution and Developmental Biology	F176
Rivera, Maria E.	Chemistry: Inorganic Chemistry	F204
Rivera, Myrielis	Immunology: Immunology	E089
Rivera, Osvaldo D.	Cancer Biology: Cancer Biology	G231
Rivera-Lugo, Rafael J.	Microbiology: Microbial Physiology	F020
Rivera-Olmedo, Noemi	Social and Behavioral Sciences and Public Health: Psychology	D024
Rivera-Pérez, Luis M.	Neuroscience: Neurobiology	B002
Rivera-Soto, Ricardo	Microbiology: Virology	A117
Rivie, Adonis T.	Physiology: Physiology	G049
Roa, Tina	Cancer Biology: Cancer Biology	A236
Roach, Corey	Neuroscience: Neurobiology	A016

Saavedra, Andrea C.	Microbiology: Parasitology	G113
Sabir, Marya S.	Cell Biology: Cell Biology	G219
Sagastume, Edwin A.	Engineering, Physics and Mathematics: Bioengineering	B164
Saha, Monica D.	Molecular and Computational Biology: Genomics	G095
Saint-Juste, Jounia S.	Biochemistry: Biochemistry	E176
Salaam, Babatunde E.	Neuroscience: Neurobiology	E048
Salam, Ahmad B.	Cancer Biology: Cancer Biology	C012
Salazar, Christopher J.	Microbiology: Bacteriology	D077
Salazar Cardozo, Emilio	Neuroscience: Neurobiology	A015
Saldana, David	Cancer Biology: Cancer Biology	F025
Salgado, Adrian	Engineering, Physics and Mathematics: Bioengineering	E104
Salinas, Alexander A.	Engineering, Physics and Mathematics: Bioengineering	A158
Salinas, Evelia Y.	**Engineering, Physics and Mathematics: Bioengineering**	**O072**
Salomon, Alexander	Physiology: Endocrinology	C037
Salvador, Jocelynda	Engineering, Physics and Mathematics: Bioengineering	A165
Salvador-Rocha, Erick I.	Molecular and Computational Biology: Bioinformatics	G102
Sam, Sarah	Molecular and Computational Biology: Computational Biology	C062
Samuels, Quentin L.	Engineering, Physics and Mathematics: Material Sciences	C098
San Juan, Priscilla	Molecular and Computational Biology: Genomics	F097
Sanchez, Alexandra	Immunology: Immunology	G138
Sanchez, Ashley A.	Microbiology: Environmental Microbiology	C070
Sanchez, Cristian J.	Biochemistry: Biochemistry	A002
Sanchez, Erica L.	Microbiology: Virology	G004
Sanchez, Hector F.	Physiology: Physiology	F060
Sanchez, Jessica	**Chemistry: Organic Chemistry**	**O013**
Sanchez, Joel	Engineering, Physics and Mathematics: Bioengineering	F150
Sánchez Santiago, Sherylee	Microbiology: Bacteriology	E075
Sanchez- Tenorio, Minerva	Microbiology: Environmental Microbiology	C082
Sanchez-Jauregui, Paloma	Neuroscience: Neurobiology	D055
Sanders, Carrie A.	Developmental Biology and Genetics: Evolution and Developmental Biology	E004
Sanders, Justin D.	Cancer Biology: Cancer Biology	F247
Sandoval, Christopher	Microbiology: Bacteriology	G124
Sandoval, Hector	Physiology: Physiology	G058
Sankoh, Mariam	Molecular and Computational Biology: Bioinformatics	D065
Sanogo, Ismaila	Chemistry: Environmental Chemistry	B190
Sanoja, Alejandro J.	Developmental Biology and Genetics: Genetics	B186
Santiago, Raiza M.	Biochemistry: Biomolecules	B272
Santiago-Arocho, Gabriel E.	Developmental Biology and Genetics: Genetics	F166
Santos, Justin Leonel C.	Biochemistry: Structural Biology	G267
Santos, Stephanie	Chemistry: Environmental Chemistry	A203
Sarka, Kenna K.	Cancer Biology: Cancer Biology	B231
Sauceda, Consuelo	Cell Biology: Cell Biology	B223
Saunders, Mia P.	Cancer Biology: Cancer Biology	A248
Savory, Nishell Tawana	Neuroscience: Psychobiology	B089
Sawyer, Richard O.	Microbiology: Environmental Microbiology	A110
Sawyer, Simone B.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G048
Scarbrough, Ceciley P.	Physiology: Physiology	A055
Schadrac, Daniel K.	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O046**
Schroeder, Jordyn N.	Engineering, Physics and Mathematics: Material Sciences	G160
Scott, Amber	Social and Behavioral Sciences and Public Health: Psychology	B045
Scott, Britney R.	Neuroscience: Neuroscience	C053
Scott, Camille M.	Social and Behavioral Sciences and Public Health: Anthropology	C032
Scott, Devon	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O048**
Seas, Andreas	**Engineering, Physics and Mathematics: Bioengineering**	**O021**
Sedaros, John P.	Developmental Biology and Genetics: Evolution and Developmental Biology	G169
Seddighi, Sahba	Physiology: Pharmacology	A062
SeeToe, Terry	Cancer Biology: Cancer Biology	C154
Segovia, Jasmin R.	Cancer Biology: Cancer Biology	E156

Spires, Denisha R.	**Physiology: Pharmacology**	**O090**
Spruill-Harrell, Briana	Cancer Biology: Cancer Biology	G239
Srivatsan, Aditya	Neuroscience: Neuroscience	F076
Staback Rodríguez, Franklin D.	Immunology: Immunology	G144
Stafford, Khalifa	Neuroscience: Neuroscience	B004
Stallings, Chanel R.	Chemistry: Organic Chemistry	B207
Stallworth, Derek	Neuroscience: Neurobiology	F080
Stanley, Corshe D.	Cell Biology: Cell Biology	B212
Steinbach, Mackenzie A.	Engineering, Physics and Mathematics: Bioengineering	F165
Stephens, Phillip C.	Developmental Biology and Genetics: Genetics	A179
Stevens-Sostre, Whitney A.	Molecular and Computational Biology: Proteomics	G092
Stookey, Stephanie	Cancer Biology: Cancer Biology	F242
Strepay, Dillon	Cancer Biology: Cancer Biology	G245
Stringfield, Margie	Developmental Biology and Genetics: Developmental Biology	E111
Strong, Thomas	Microbiology: Bacteriology	A109
Strothers, Joel	Chemistry: Environmental Chemistry	E127
Stubbs, Caleb	Cell Biology: Cell Biology	B228
Suarez, Bethzaida N.	Neuroscience: Neurobiology	D044
Suarez, July	Social and Behavioral Sciences and Public Health: Psychology	F039
Suarez, Sassan	Neuroscience: Neuroscience	C047
Suarez Lunar, Manuel I.	Engineering, Physics and Mathematics: Bioengineering	G158
Suárez-Zayas, Edwin A.	Developmental Biology and Genetics: Developmental Biology	F171
Sullivan, Brendan P.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B019
Sulph, Chantia Z.	Cell Biology: Plant Biology	B220
Surjono, Felicia	**Developmental Biology and Genetics: Developmental Biology**	**O066**
Sutton, Alexandria	Chemistry: Organic Chemistry	B187
Swanson, Canessa J.	Cancer Biology: Cancer Biology	C155
Swinton, Dajah Elies	Microbiology: Environmental Microbiology	B120
Tabet, Ezekiel C.	Microbiology: Virology	E071
Taguezem, GFlorent G.	Neuroscience: Neuroscience	F079
Tahan, Stephen	Microbiology: Environmental Microbiology	B125
Taite, Will H.	Immunology: Immunology	F002
Tami, Abigail	**Biochemistry: Structural Biology**	**O049**
Tan, Louis	Neuroscience: Neurobiology	C044
Tan, Sophia K.	Cancer Biology: Cancer Biology	A241
Tandjigora, Kaba	Biochemistry: Biochemistry	A254
Tang, Huong G.	Cancer Biology: Cancer Biology	F243
Tapia, Cynthia M.	Neuroscience: Neurobiology	D050
Taplin, Martha	Microbiology: Microbial Physiology	F016
Taqqee, Mandisa	Neuroscience: Neurobiology	G064
Taylor, Brittany L.	Engineering, Physics and Mathematics: Bioengineering	E007
Taylor, Jonathan C.	Molecular and Computational Biology: Computer Sciences	B096
Taylor, Salima F.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	C027
Taylor, Teretha	Molecular and Computational Biology: Bioinformatics	E069
Taylor, Tracey E.	Microbiology: Virology	B118
Taylor, Waynette L.	Developmental Biology and Genetics: Genetics	A169
Tchegnon, Edem J.	**Microbiology: Mycology**	**O032**
Tchounwou, Christine K.	Cell Biology: Cell Biology	G022
Tedla-Boyd, Weinishet	Biochemistry: Structural Biology	A270
Telusma, Bertina	Developmental Biology and Genetics: Genetics	A185
Tena, Anahis	Neuroscience: Neurobiology	D054
Texeira, Carlos E.	Chemistry: Environmental Chemistry	F208
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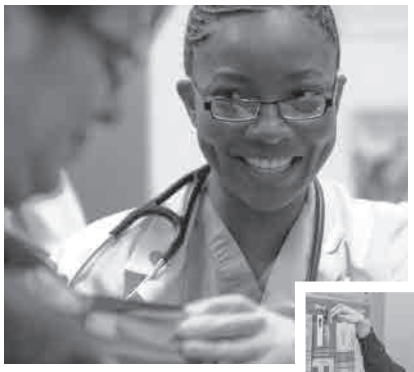

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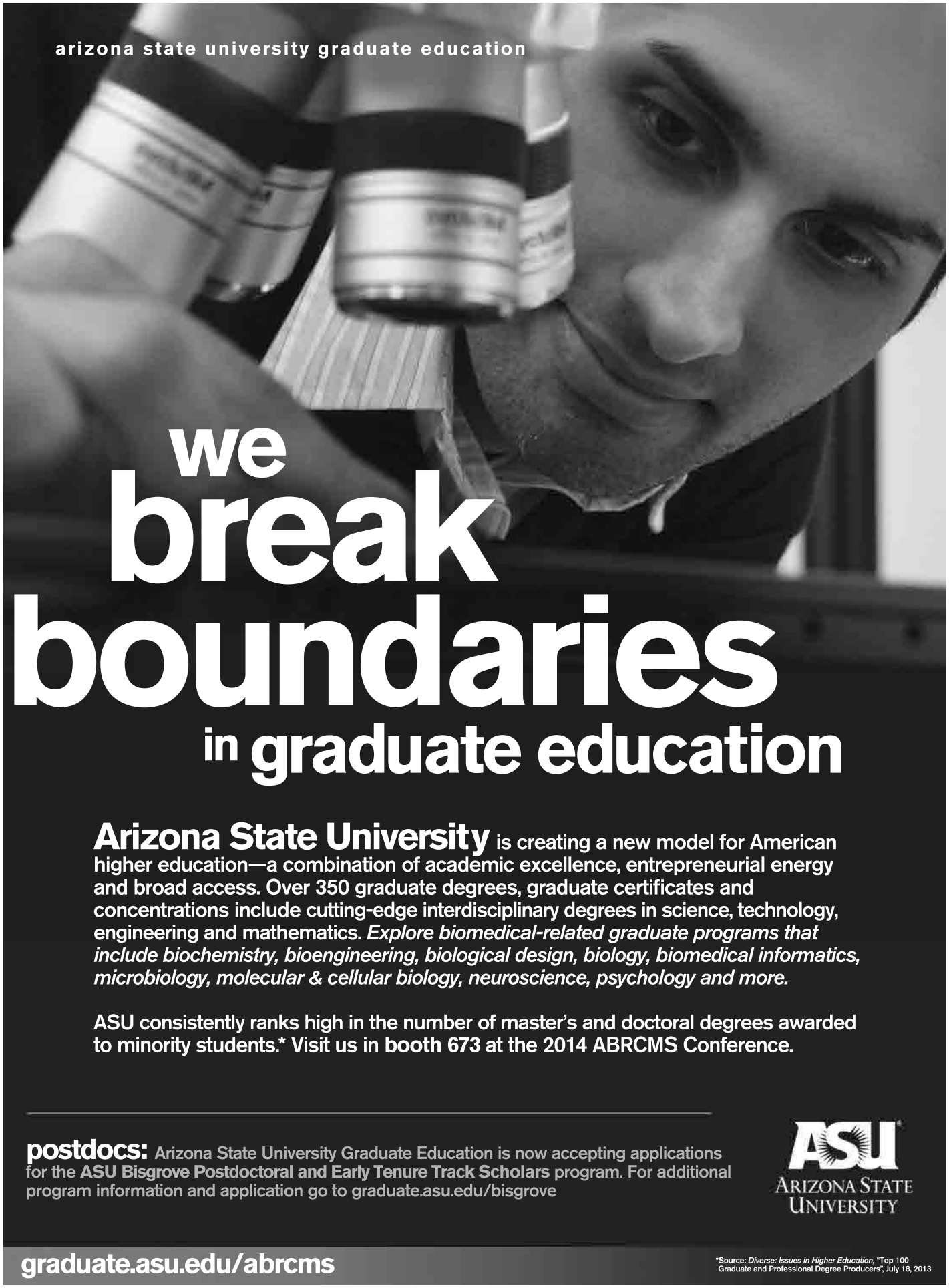

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~ Call for Papers ~

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The **National Association of African American Studies & Affiliates** [National Association of Hispanic and Latino Studies, National Association of Native American Studies, International Association of Asian Studies] solicits a **"Call for Student Research Papers and Poster Presentations"** for its February 9-14, 2015 conference. Research papers and poster presentations DO NOT have to relate to the ethnicities of the host organizations.

Research may include, but is not limited to: health sciences, biomedical research, social issues, athletics, religion, politics, social sciences, family, fine arts, etc. Students also have the option of entering the **Student Research Competition** with a total of $15,000 in cash awards.

Send abstracts, not to exceed two pages, to: NAAAS & Affiliates, PO Box 6670, Scarborough, ME 04070-6670, by fax to 207/839-3776, or via email at naaasconference@earthlink.net. FMI: www.NAAAS.org. Abstracts must be postmarked by Saturday, December 13, 2014.

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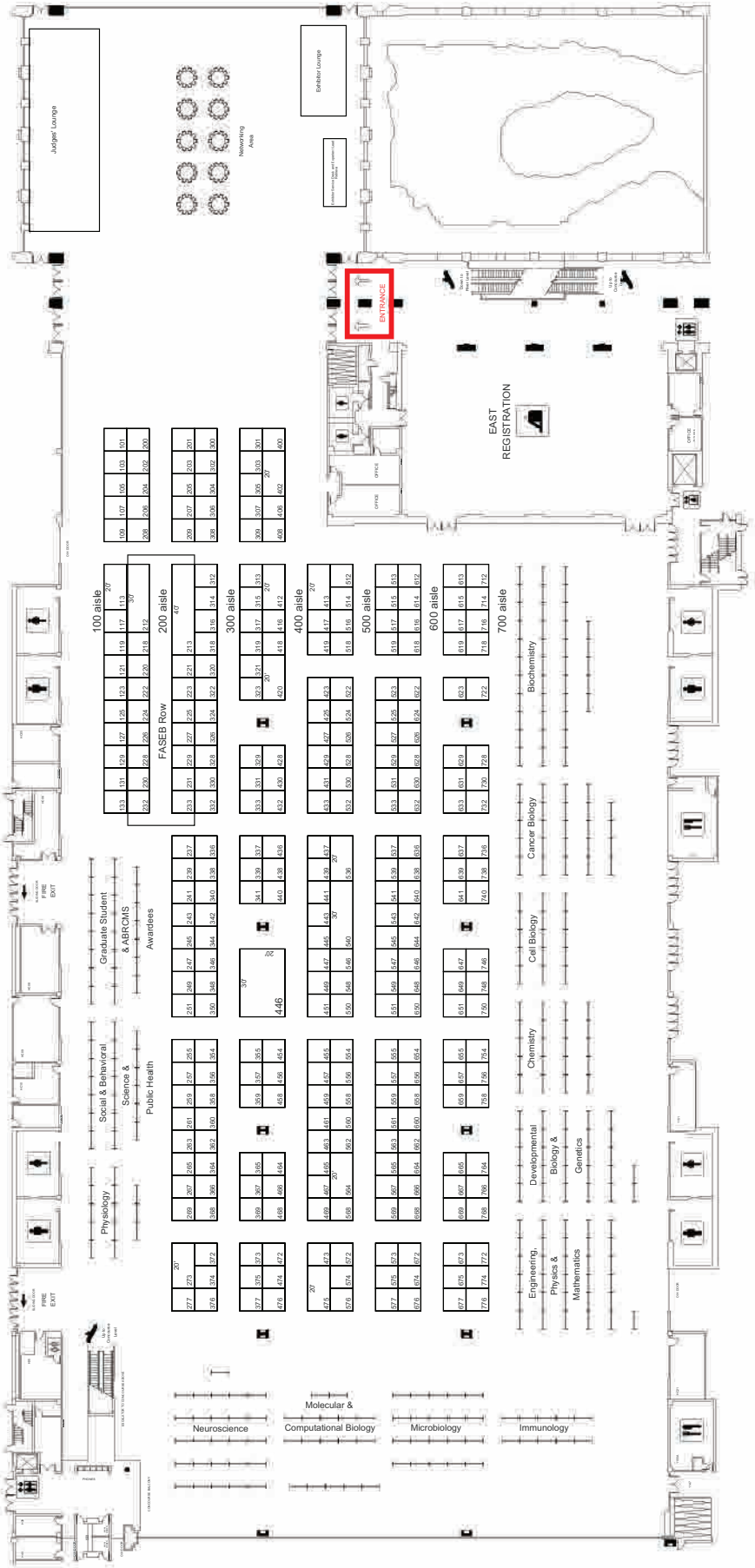
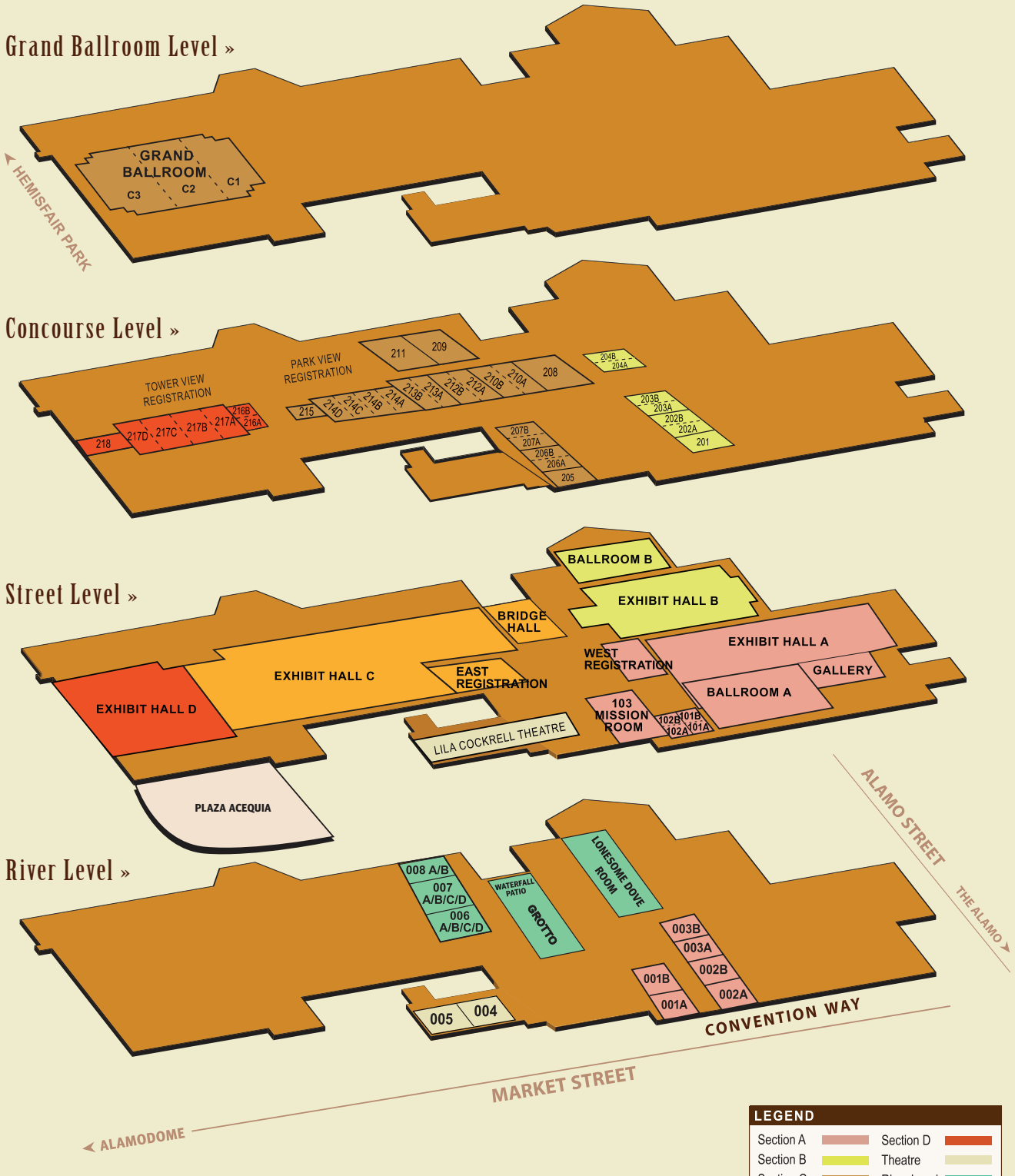
Exhibition Hall Floor Plan



Convention Center Floor Plan

CONVENTION CENTER LEVELS



LEGEND

Section A	Section D
Section B	Theatre
Section C	River Level
Auxiliary Office & Storage Spaces	

Room placement is directional, not to scale.

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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.

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ABRCMS

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See You Next Year!

Seattle, Washington

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