Annual Biomedical Research Conference for Minority Students

Final Program & Exhibitor Guide

Developing the Next Generation of Scientific Leaders

2013 ABRCMS

November 13–16

Nashville

ABRCMS Highlights & Opportunities

The 2013 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:

Preconference Workshops

On **Wednesday, November 13, from 10:00 a.m. to 6:00 p.m.**, several workshops will be held to offer participants the opportunity to enhance their knowledge or gather information about specific topics. See page 8 for more information. Please plan your travel accordingly so that you can attend these informative workshops.

Keystone Travel Award for Grads and Postdocs

Keystone Symposia on Molecular Biology will grant two travel awards to grad students and postdocs attending ABRCMS 2013. The award will cover the registration fee for a conference selected in addition to travel and lodging expenses up to $1,000. Award eligibility requires a brief survey during ABRCMS.

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 14, from 8:30 to 9:30 a.m.** See page 9 for more information.

Networking with Disciplinary Societies

Networking sessions with disciplinary societies will be held on **Wednesday, November 13, 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 and career pathways offered by societies. All ABRCMS exhibitor and faculty attendees who are professional society members are strongly encouraged to attend.

Online Abstract Database for Exhibitors

The ABRCMS online abstract database offers information about each student's scientific discipline to help you tailor your recruitment efforts accordingly. Visit www.abrcms.org for up-to-date information.

Early Admittance into Exhibit Hall for Exhibitors

Exhibitors may use their exhibitor badges to access their booths 30 minutes prior to the opening of the exhibit hall. **Exhibit Hall takedown is from 1:00 p.m. to 4:00 p.m., November 16.**

Onsite Registration and Check-In

Express self-registration will be offered at the 2013 ABRCMS. Bring a copy of your registration confirmation letter with you to expedite the registration process.

ABRCMS Professional Development Skills Cafe

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

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.

ABRCMS Attendees by Location

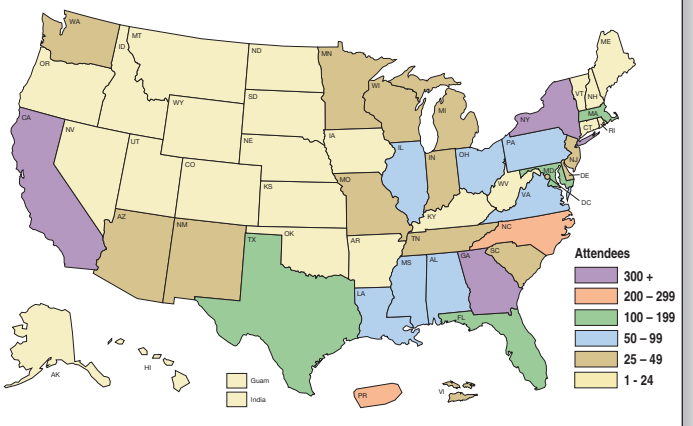


Table of Contents

ABRCMS Highlights & Opportunities ..... Inside Front Cover

Program at a Glance 2

Conference Welcome 4
(Clifford W. Houston, Ph.D.)

Greetings 5
(Jon Lorsch, Ph.D., Clifton A. Poodry, Ph.D.)

Important Conference Information 6

Professional Development Schedule: Undergraduates & Postbaccalaureates 10

Professional Development Schedule: Graduate Students & Postdoctoral Scientists 10

Professional Development Schedule: Program Directors, Faculty & Exhibitors 11

Keynote, Plenary, & Concurrent Scientific Speakers 14

Conference Program 16

Meet and Greet Speakers Schedule 39

Speaker Biographies 41

2001-2013 ABRCMS Statistics 52

Abstract Information 56

Author Index 60

Exhibitor by Booth Number 88

Exhibitor List in Alphabetical Order 94

Conference Sponsors 148

Exhibit Hall Floor Plans 150

Reflections/Take Home Message 172

Steering Committee, Advisors, and Staff 173

"ABRCMS is the most important gathering of professional/academic minds in biomedical science in USA, and is an experience every student, faculty member, dean and director should have more than once."

(Faculty & Admin)

Program at a Glance

Registration Hours

Wednesday, November 13	12:00 p.m. – 8:30 p.m.
Thursday, November 14	7:00 a.m. – 8:00 p.m.
Friday, November 15	7:00 a.m. – 7:00 p.m.
Saturday, November 16	7:00 a.m. – 1:00 p.m.

Wednesday, November 13, 2013

10:00 a.m. – 4:00 p.m.
Facilitating Entering Mentoring
FREE Registration Required

1:30 p.m. – 3:00 p.m.
Outclass the Competition!

2:00 p.m. – 4:00 p.m.
Enhancing the Diversity of the NIH-Funded Workforce – An Open Discussion with the NIH
FREE Registration Required

2:00 p.m. – 8:30 p.m.
Exhibit Set-up

3:30 p.m. – 5:00 p.m.
Presentation Techniques: How to Make Effective Poster and Oral Presentations

Outclass the Competition! (REPEAT)

5:15 p.m. – 6:00 p.m.
ASM-NSF LINK Program Orientation

6:30 p.m. – 7:30 p.m.
Dinner

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

OPENING KEYNOTE ADDRESS
Gearing Up to Change the World
Speaker
Ainissa Ramirez, Ph.D., Yale University, New Haven, CT

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

8:30 p.m. – 10:00 p.m.
Graduate Students and Postdoc Mixer

Thursday, November 14, 2013

7:00 a.m. – 8:00 a.m.
Networking 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
Orientation for Judges (All 12 Disciplines)

Session 3
Understanding and Leveraging Cultural Dynamics in Research Mentoring Relationships
Speaker
Angela Byars-Winston, Ph.D., University of Wisconsin- Madison, Madison, WI

9:45 a.m. – 10:45 a.m.

Session 1
Help! Math Is Invading Biology and Medicine!
Speaker
Eberhard Voit, Ph.D., Georgia Institute of Technology, Atlanta, GA

Session 2
Cell, Tissues, Action! Surface Effects on Cells
Speaker
Yolanda Vasquez, Ph.D., Oklahoma State University, Stillwater, OK

Session 3
The Role of Hedgehog Genes in Vertebrate Neural Development
Speaker
Andrea Morris, Ph.D., Columbia University, New York, NY

Session 4
Environmental Health Disparities in the Age of Epigenomics
Speaker
Kenneth Olden, Ph.D., Sc.D.
National Center for Environmental Assessment, Office of Research and Development, U.S. Environmental Protection Agency, Arlington, VA

Session 5
Biomapping in the Biomedical, Social and Behavioral Sciences
Speaker
Debra Furr-Holden, Ph.D., Johns Hopkins University, Baltimore, MD

Session 6
Neuroimaging Biomarkers in Alzheimer's Disease
Speaker
Richard D. King, M.D., Ph.D., University of Utah- Salt Lake City, UT

11:00 a.m. – 12:15 p.m.
Backwater to White House: The Research-Driven Rise of Mass Bay Community College's Biotechnology Program to International Prominence
(Recommended for faculty, postdocs and graduate students)
Speaker
Bruce Jackson, Ph.D., Massachusetts Bay Community College, Wellesley, MA

Exhibitor Resource Session: Tips for Managing Your ABRCMS Booth

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

1:15 p.m. – 2:15 p.m.
PLENARY SCIENTIFIC SESSION
Metals with Memories and Other Smart Materials
Speaker
Ainissa Ramirez, Ph.D., Yale University, New Haven, CT

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. – 4:30 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

7:30 p.m. – 9:30 p.m.

Friday, November 15, 2013

7:00 a.m. – 8:00 a.m.
Networking Breakfast

8:15 a.m. – 9:15 a.m.

Session 1

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

Speaker

Steven P. Lee, Ph.D., Northwestern University, Chicago, IL

Session 2

Mentoring: An Enabling Relationship that Fosters Professional Growth and Development

Speaker

Howard G. Adams, Ph.D., H.G. Adams and Associates, Norfolk, VA

Session 3

Understanding and Leveraging Cultural Dynamics in Research Mentoring Relationships

Speaker

Angela Byars-Winston, Ph.D., University of Wisconsin-Madison, Madison, WI

Session 4

Getting Published: Advice for Graduate Students and Postdoctoral Scientists

Speaker

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

9:30 a.m. – 10:45 a.m.

PLENARY SESSION

HeLa Panel
Part 1: The Immortal Life of Henrietta Lacks

Speakers

David Lacks, Jr., grandson of Henrietta Lacks and son of David (Sonny) Lacks
Shirley Lacks, daughter-in-law of Henrietta Lacks

Part 2: Bioethics, Justice and HeLa: A Conversation with Dr. Ruth Faden

Speaker

Ruth Faden, Ph.D., Johns Hopkins University, 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

Taming the p53 Network for Therapeutic Purposes

Speaker

Joaquin Espinosa, Ph.D., University of Colorado, Boulder, CO

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

3:30 p.m. – 6:30 p.m.
Exhibits Open

3:45 p.m. – 5:00 p.m.

POSTER SESSION 4

5:15 p.m. – 6:30 p.m.

POSTER SESSION 5

6:45 p.m. – 7:45 p.m.
Concurrent Professional Development Sessions

6:45 p.m. – 8:45 p.m.
Networking for Speakers, Exhibitors, Judges and Program Directors

9:00 p.m. – 10:30 p.m.
NIGMS/TWD Program Director Meeting

> *"An amazing experience that not only allowed me to practice presenting my work but to meet a diverse body of scientists and future scientists. Very inspirational experience."*
>
> ABRCMS Undergrad Attendee

Saturday, November 16, 2013

7:00 a.m. – 8:00 a.m.
Networking Breakfast

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

8:30 a.m. – 9:30 a.m.

ORAL PRESENTATION SESSIONS 13 – 24

9:30 a.m. – 12:30 p.m.
Exhibits 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
Advancing Global Economic Development and Thoughts on A Continuing Legacy

Speaker

Ambassador Andrew Young

2:45 p.m. – 4:30 p.m.
Concurrent Professional Development Sessions

4:45 p.m. – 5:45 p.m.
Concurrent Professional Development Sessions

6:00 p.m. – 7:30 p.m.
FREE TIME! FREE TIME! FREE TIME!

7:30 p.m. – 9:30 p.m.
Banquet, Conference Wrap-up, and 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 (All Are Invited)

Conference Welcome

Welcome to Nashville, Tennessee, home of the Grand Old Opry and the 2013 Annual Biomedical Research Conference for Minority Students (ABRCMS)! This is another banner year for ABRCMS as, once again, we set growth records in the numbers of abstracts submitted, exhibit booths sold, and dollars raised for sponsorship.

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. I am very sad to say that Dr. Toliver passed away on March 26, 2013. He was a great friend, mentor, change agent, leader, and proponent of minority programs at the National Institutes of Health. I have no doubt that Dr. Tolliver's death is an immeasurable loss to the greater scientific community, the biomedical sciences, and the future scientific workforce. I hope that we, as faculty and students, will use his passing as motivation to work harder, be more persistent, and strive to achieve his vision for ABRCMS.

Let's not let Dr. Tolliver's efforts be in vain. 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.

I want to challenge our student participants to prepare well and take full advantage of all the opportunities ABRCMS 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 Nashville to recruit students for their institutions!) When you see any of these contributors at ABRCMS 2013, please give them your thanks for making this year's conference one of the best in the nation.

I would like to acknowledge the assistance of the many dedicated volunteers, program directors, and 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 and Workforce Development at the National Institute of General Medical Sciences, National Institutes of Health, whose funding has made this conference possible.

Respectfully,

Clifford W. Houston

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

Greetings

Jon Lorsch

Clifton A. Poodry

Dear Students, Colleagues and Friends,

On behalf of the National Institutes of Health's National Institute of General Medical Sciences (NIGMS), we welcome you to the 2013 Annual Biomedical Research Conference for Minority Students (ABRCMS).

A priority of NIGMS is to support research training that leads to the development of an outstanding biomedical research workforce, a workforce that is diverse and inclusive reflecting the breadth of the American population. The Minority Access to Research Careers (MARC), Minority Biomedical Research Support (MBRS), Bridges, and Post Baccalaureate Research Program (PREP) have contributed enormously to the pool of underrepresented students who have gone on to graduate training and subsequent biomedical research careers. We are very proud to support this meeting, which brings together truly outstanding students and scientists for stimulating discussions of research and exchanges of ideas.

We hope that your involvement in NIGMS funded programs has inspired and motivated you to pursue research careers and leadership roles in the scientific enterprise. And more immediately, we hope that your experience at ABRCMS helps prepare you for the next stages of your research careers. We encourage you to make the most of the meeting and take advantage of the many scientific presentations, professional development workshops, networking sessions and wealth of other opportunities it offers.

Sincerely,

Jon Lorsch, Ph.D.

Clifton A. Poodry, Ph.D.

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 2013 ABRCMS. For more information, visit the judges' lounge (Delta A Lobby) or attend the judges' orientation (see program) on Thursday, November 14, at 8:30 a.m.

Cell Phone Usage

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

Charging Station

New this year, ABRCMS is providing an opportunity for attendees to charge up their communication devices and stay connected throughout the conference.

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.

> *"ABRCMS is an excellent conference. It is really appropriate for students and professionals. One of the best aspects of the conference was networking because it allows people to search for good opportunities."*
>
> (Undergrad & Postbacs)

Conference Orientation (undergraduate & Postbaccalaureates

The conference orientation is scheduled for Thursday, November 14, 2013 from 8:30 - 9:30 a.m. and is required for all attendees; it sets the tone for participants and prepares them to take advantage of the many opportunities available at ABRCMS. Topics will include navigating through a scientific meeting, the importance of networking, and best practices in recruitment.

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 13:	2:00 p.m. – 8:30 p.m. (set-up)
Thursday, November 14:	8:00 a.m. – 12:00 p.m.
Saturday, November 16:	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 3:30 p.m. – 6:30 p.m.
Saturday, November 16:	9:30 a.m. – 12:30 p.m.

First Aid

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

Judges' Orientation

All individuals volunteering to judge student presentations are expected to attend this session on Thursday, November 14, from 8:30 to 9:30 a.m. Expectations of judges and the ABRCMS judging process will be discussed, and judging packets will be distributed. Judges who do not attend the orientation should pick up their packet at the judges lounge in Delta A Lobby.

Orientations will be held by scientific disciplines below; please attend the session for your assigned discipline.

Biochemistry
Location: Bayou E

Cancer Biology
Location: Lincoln C/D/E

Cell Biology
Location: Jackson E/F

Chemistry
Location: Canal E

Developmental Biology and Genetics
Location: Canal A/B

Engineering, Physics and Mathematics
Location: Canal C/D

Immunology
Location: Lincoln A

Microbiology
Location: Bayou C/D

Molecular and Computational Biology
Location: Jackson C/D

Neuroscience
Location: Washington B

Physiology
Location: Jackson A/B

Social and Behavioral Sciences and Public Health
Location: Bayou A/B

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

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**.

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.

Speaker Ready Room

The speaker ready room is located in Presidential Chamber B. 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 16. 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 14, 2:30 p.m. – 3:45 p.m. Set-up: 2:15 p.m. –3:30 p.m. Take-down: 3:45 p.m. – 4:00 p.m.
Session 2 (B)	Thursday, November 14, 4:00 p.m. – 4:30 p.m. Set-up: 3:45 p.m. – 4:00 p.m. Take-down: 4:15 p.m. – 4:30 p.m.
Session 3 (C)	Friday, November 15, 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 15, 3:45 p.m. – 5:00 p.m. Set-up: 3:30 p.m. – 3:45 p.m. Take-down: 5:30 p.m. – 5:45 p.m.
Session 5 (E)	Friday, November 15, 5:15 p.m. – 6:30 p.m. Set-up: 5:00 p.m. – 5:15 p.m. Take-down: 6:30 p.m. – 6:45 p.m.
Session 6 (F)	Saturday, November 16, 9:45 a.m. – 11:00 a.m. Set-up: 9:30 a.m. – 9:45 a.m. Take-down: 11:00 a.m. – 11:15 p.m.
Session 7 (G)	Saturday, November 16, 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.
Oral Sessions 1-12	Thursday, November 14, 5:30 p.m. – 6:30 p.m.
Oral Sessions 13-24	Saturday, November 16, 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.
Location: Lincoln B

Networking Tables By Discipline

ABRCMS offers many opportunities for networking. Join colleagues with similar interest to share ideas and develop research collaborations. Networking is strongly encouraged throughout the conference however attendees are asked to sit in your respective disciplines during lunch on Thursday, and lunch on Friday. Disciplines tables are identified by napkin colors. See table below.

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

Microbiology, Immunology (Purple Napkins)

Neuroscience, Physiology, Developmental Biology (Ivory Napkins)

Cell Biology, Molecular Biology & Computational Biology, Cancer Biology (Chocolate Brown Napkins)

Social and Behavioral Science and Public Health (Blue Napkins)

Program Highlights

Professional Development Sessions

Undergraduates and Postbaccalaureates

Wednesday, November 13, 2013

3:30 p.m. – 5:00 p.m.

- Presentation Techniques: How to Make Effective Poster and Oral Presentations
- Outclass the Competition! Etiquette Training

8:30 p.m. – 9:30 p.m.

- Networking in Your Scientific Discipline (All Disciplines)

Thursday, November 14, 2013

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
- M.D.-Ph.D. – Is It Right for Me?
- Graduate Opportunities in Public and Global Health Research
- Community College Students: Tips for Transitioning to a Four-Year Institution

7:30 p.m. – 9:30p.m.

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

Friday, November 15, 2013

8:30 a.m. – 9:30 a.m.

- Succeeding with Your Strengths: Assess and Apply Your Unique Strengths toward Your Ideal Career
- Mentoring: An Enabling Relationship that Fosters Professional Growth and Development

2:30 p.m. – 3:30 p.m.

- Writing a Successful Personal Statement for Graduate School and/or Summer Program Admission – Getting into Highly Competitive Graduate Schools and Summer Programs
- Outclass the Competition! Etiquette Training (REPEAT)

> *"ABRCMS is wonderful opportunity for a minority student. It is one of the best places for the promotion of science among minority students and gets us more interested in science but also aware of the challenges."*
>
> ABRCMS Undergrad Attendee

- Creative Interdisciplinary Education through a Biologically Inspired Design Curriculum

6:45 p.m. – 7:45 p.m.

- Graduate School Application Process
- Strategies for Taking Standardized Admissions Tests: Preparing for the GRE and MCAT Exams
- Tips for Applying to a Postbaccalaureate Program
- Succeeding through Your Failures: Learning to Fail Productively

Saturday, November 16, 2013

2:45 p.m. – 4:30 p.m.

- ABRCMS Professional Skills Café

4:45 p.m. – 5:30 p.m.

- Graduate School Experience: My Personal Story
- Summer Research Programs – Essential Components of the Graduate School Application Process

Graduate Students and Postdoctoral Scientists

Wednesday, November 13, 2013

10:00 a.m. – 4:00 p.m.

- Faciliting Entering Mentoring

3:30 p.m. – 5:00 p.m.

- Outclass the Competition! Etiquette Training

8:30 p.m. – 10:00 p.m.

- Grad and Postdoc Mixer

Thursday, November 14, 2013

8:30 a.m. – 9:30 a.m.

- Understanding and Leveraging Cultural Dynamics in Research Mentoring Relationships

11:00 a.m. – 12:15 p.m.

- Backwater to White House: The Research-Driven Rise of MassBay Community College's Biotechnology Program to International Prominence

7:30 p.m. – 9:30 p.m.

- Gateway to the Future – Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences
- What Do You Want Your Students to Know? Designing Effective Courses through Backward Design

Friday, November 15, 2013

8:30 a.m. – 9:30 a.m.
- Getting Published: Advice for Graduate Students and Postdoctoral Scientists

2:30 p.m. – 3:30 p.m.
- Vision and Change Leadership Fellows: Transforming Undergraduate Life Sciences
- Creative Interdisciplinary Education through a Biologically Inspired Design Curriculum

6:45 p.m. – 7:45 p.m.
- Succeeding through Your Failures: Learning to Fail Productively
- Navigating Your Way into a Postdoctoral Position and Having a Successful Postdoctoral Experience
- Continuing Education for Active Researchers in the Biological Sciences

Saturday, November 16, 2013

2:45 p.m. – 4:30 p.m.
- Goal-Setting Strategies for Scientific and Career Success, Developing Your IDP/How to Find a Science Career that Fits YOU
- GCAT, Synthetic Biology, and a Summer Faculty Workshop Opportunity

Faculty, Program Directors and Exhibitors

Wednesday, November 13, 2013

10:00 a.m. – 4:00 p.m.
- Facilitating Entering Mentoring

2:00 p.m. – 4:00 p.m.
- Enhancing the Diversity of the NIH-Funded Workforce – An Open Discussion with NIH

Thursday, November 14, 2013

8:30 a.m. – 9:30 a.m.
- Orientation for Judges (All 12 Disciplines)

11:00 a.m. – 12:15 p.m.
- Backwater to White House: The Research-Driven Rise of MassBay Community College's Biotechnology Program to International Prominence

7:30 p.m. – 9:30 p.m.
- Innovative Models for Staying Current in Research
- Data-Driven Bioscience: Introducing Computation Modeling and Simulation into Research and Teaching

Friday, November 15, 2013

8:30 a.m. – 9:30 a.m.
- Understanding and Leveraging Cultural Dynamics in Research Mentoring Relationships (REPEAT)

2:30 p.m. – 3:30 p.m.
- Vision and Change Leadership Fellows: Transforming Undergraduate Life Sciences
- Creative Interdisciplinary Education through a Biologically Inspired Design Curriculum

6:45 p.m. – 8:45 p.m.
- Networking for Speakers, Judges, Exhibitors and Program Directors

9:00 p.m. – 10:30 p.m.
- NIGMS/TWD Program Director Meeting

(All programs will initially meet as a large group and break into sub-group afterwards)

Saturday, November 16, 2013

2:45 p.m. – 4:30 p.m.
- GCAT, Synthetic Biology, and a Summer Faculty Workshop Opportunity

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

Conference Program

Keynote, Plenary and Concurrent Scientific Speakers

Wednesday, November 13, 8:00-8:15 p.m.

OPENING KEYNOTE ADDRESS

Gearing Up to Change the World

Ainissa Ramirez, Ph.D.
Yale University, New Haven, CT

Thursday, November 14, 11:00 a.m.-12:15 p.m.

PLENARY PROFESSIONAL DEVELOPMENT SESSION

Backwater to White House: The Research-Driven Rise of MassBay Community College's Biotechnology Program to International Prominence

Bruce Jackson, Ph.D.
Massachusetts Bay Community College, Wellesley, MA

Thursday, November 14, 9:45-10:45 a.m.

CONCURRENT SCIENTIFIC SESSIONS

Help! Math Is Invading Biology and Medicine!

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

Eberhard Voit, Ph.D.
Georgia Institute of Technology, Atlanta, GA

Environmental Health Dispartities in the Age of Epigenomics

Sponsored by the Society of Toxicology

Kenneth Olden, Ph.D., Sc.D.
National Center for Environmental Assessment, Office of Research and Development, U.S. Environmental Protection Agency, Arlington, VA

Cell, Tissues, Action! Surface Effects on Cells

Yolanda Vasquez, Ph.D.
Oklahoma State University, Stillwater, OK

Biomapping in the Biomedical and Social Behavioral Sciences

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

The Role of Hedgehog Genes in Vertebrate Neural Development

Andrea Morris, Ph.D.
Columbia University, New York, NY

Neuroimaging Biomarkers in Alzheimer's Disease

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

> *"Great forum for meeting and establishing networks. Did some of that and am looking forward to the outcome."*
>
> ABRCMS Faculty Attendee

Thursday, November 14, 1:15-2:15 p.m.

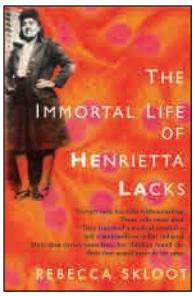
PLENARY SCIENTIFIC SESSION

Metals with Memories and Other Smart Materials

Ainissa Ramirez, Ph.D.
Yale University, New Haven, CT

Friday, November 15, 9:30-10:45 a.m.

PLENARY SESSION



HeLa Panel

Part 1: The Immortal Life of Henrietta Lacks

David Lacks, Jr.
Grandson of Henrietta Lacks and son of David (Sonny) Lacks

Shirley Lacks
Daughter-in-law of Henrietta Lacks

Part 2: Bioethics, Justice and HeLa: A Conversation with Dr. Ruth Faden

Ruth Faden, Ph.D.
Johns Hopkins University, Baltimore, MD

Friday, November 15, 1:15-2:15 p.m.

PLENARY SCIENTIFIC SESSION

Taming the p53 Network for Therapeutic Purposes

Sponsored by the Howard Hughes Medical Institute

Joaquin Espinosa, Ph.D.
University of Colorado, Boulder, CO

Saturday, November 16, 1:15-2:15 p.m.

CLOSING KEYNOTE ADDRESS

Advancing Global Economic Development and Thoughts on A Continuing Legacy

Ambassador Andrew Young
Andrew Young Foundation, Atlanta, GA

"I applaud ABRCMS for providing one of the most, (if not the most) professional academic channel for young upcoming minority scientists. I have attended the past ten consecutive ABRCMS meetings and each has exceeded the previous one. If you need a volunteer to assist in any way feel free to call on me."

ABRCMS Admin Attendee

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

ABRCMS Postbac Attendee

Final Program

Wednesday, November 13, 2013

8:00 am – 2:00p.m. — **Where Do I Go from Here? Successfully Navigating the Undergraduate to Graduate Transition** *(By Invitation Only)* — Location: Delta Island E

(Sponsored by NIBIB and NIDA)

10:00 a.m. – 4:00 p.m. — **Facilitating Entering Mentoring** — Location: Delta Island A/B

Sponsored by ASM LINK

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

The Entering Mentoring curriculum (and curricula based upon it) has been used successfully to train research mentors of undergraduates, graduate students, postdoctoral scientists, and faculty across science, engineering, mathematics, medicine, and public health disciplines. This workshop will help you implement mentor-training curricula from the Entering Mentoring series at your home institution. With support from the National Institutes of Health, and National Science Foundation the workshop aims to (i) meet the growing demand for an evidence-based approach to research mentor training and (ii) expand dissemination of the series to diverse groups of scholars.

This session is by invitation only.

Speakers

Christine Pfund, Ph.D., *University of Wisconsin- Madison, Madison, WI*
Janet Branchaw, Ph.D., *University of Wisconsin- Madison, Madison, WI*
Angela Byars-Winston, Ph.D., *University of Wisconsin- Madison, Madison, WI*
Kim Spencer, BS, *University of Wisconsin- Madison, Madison, WI*

12:00 p.m. – 8:30 p.m. — **Registration Open**

2:00 p.m. – 4:00 p.m. — **Enhancing the Diversity of the NIH-Funded Workforce – An Open Discussion with the NIH** — Location: Canal A/B

With its "Enhancing the Diversity of the NIH-Funded Workforce" program, the NIH aims to bring novel and innovative approaches to helping individuals from diverse backgrounds prepare for and succeed in biomedical research careers (see http://commonfund.nih.gov/diversity/). Institutions in the program develop and test hypotheses toward achieving this goal, with the expectation that transformative models for training and mentoring will be developed and trainees will advance to successful careers in biomedical research. Attend this open brainstorming session to learn more about the program, exchange ideas, and network with colleagues who share your interest in promoting a diverse biomedical research workforce!

Speakers

Elizabeth Wilder, Ph.D., *National Institutes of Health, Bethesda, MD*
Clifton Poodry, Ph.D., *National Institutes of Health, Bethesda, MD*

2:00 p.m. – 8:30 p.m. — **Exhibit Set-up** — Location: Exhibit Hall C

3:30 p.m. – 5:00 p.m. — **Session 1** — Location: Jackson A/B

Presentation Techniques: How to Make Effective Poster and Oral Presentations

(Recommended for first-time 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

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

3:30 p.m. – 5:00 p.m. — **Outclass the Competition! Etiquette Training** — Location: Washington B

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. This session repeats on Friday, November 15, at 2:30 p.m.

Speaker

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

4:00 p.m. – 5:30 p.m. — **MARC Grant Principal Investigators Meeting** — Location : Jackson A

4:00 p.m. – 5:30 p.m. — **T 32 Grant Principal Investigators Meeting** — Location : Jackson B

5:15 p.m. – 6:00 p.m. — **ASM-NSF LINK Program Orientation** — Location: Presidential Boardroom A

The ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) program aspires to facilitate meaningful interactions between established scientists – many of whom are NSF investigators or prospective investigators – and students, educators and early-career

Wednesday, November 13, 2013

scientists. Through structured mentoring, the program seeks to develop participant skills in communications, teaching and mentoring, ethics, career planning, management and leadership, and interpersonal relationships. Join this invitational session to learn about the LINK and discuss the national need for a structured-mentoring program that will cultivate diversity and competency in STEM.

Speakers

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

Stacey Simon, Ph.D., *American Association for the Advancement of Science/National Science Foundation, Arlington, VA*

6:30 p.m. – 7:30 p.m. **Dinner** *(Catering service will end at 7:30 p.m.)* Location: Delta Ballroom

7:15 p.m. – 8:30 p.m. **UMBC Student Exam** Location: Lincoln B

7:30 p.m. – 8:15 p.m. **Conference Overview** Location: Delta 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

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

Clifton Poodry, Ph.D., *Division of Training, Workforce Development and Diversity, National Institute of General Medical Sciences, NIH, Bethesda, MD*

Opening Keynote Address

Gearing Up to Change the World

Ainissa Ramirez, Ph.D., *Yale University, New Haven, CT*

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

Microbiology & Immunology	Location: Lincoln C/D/E
Cell Biology & Molecular & Computational Biology	Location: Lincoln A
Social and Behavioral Sciences & Public Health	Location: Washington B
Biochemistry	Location: Jackson C
Neuroscience	Location: Jackson A
Developmental Biology & Genetics	Location: Jackson E
Physiology	Location: Jackson F
Engineering, Physics & Mathematics	Location: Jackson B
Plant Biology	Location: Lincoln B
Cancer Biology	Location: Presidential Boardroom A
Chemistry	Location: Jackson D

8:30 p.m. – 10:00p.m. **PREP Program Director Meeting**

8:30 p.m. – 10:00 p.m. **Grad and Postdoc Mixer** Location: Crystal Gazebo

Sponsored by Vanderbilt Medical Center and Meharry Medical College

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.

Continued on next page

Thursday, November 14, 2013

7:00 a.m. – 8:00 p.m. **Registration Open**

7:00 a.m. – 8:00 a.m. **Networking Breakfast** *(Catering service will end at 8:00 a.m.)* Location: Delta Ballroom

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

8:00 a.m. – 2:00 p.m. **American Heart Association Board Meeting (Affiliate Meeting)** Location: Delta Island F

8:30 a.m. – 9:30 a.m. **Session 1** Location: Delta 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 & Associates, Norfolk, VA*

Program Overview and Making the Most of ABRCMS

Speaker

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

Session 2

Orientation for Judges *(All 12 Disciplines)*

(Mandatory for all student presentation judges)

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: Bayou E
- *Cancer Biology* Location: Lincoln C/D/E
- *Cell Biology* Location: Jackson E/F
- *Chemistry* Location: Canal E
- *Developmental Biology and Genetics* Location: Canal A/B
- *Engineering, Physics and Mathematics* Location: Canal C/D
- *Immunology* Location: Lincoln A
- *Microbiology* Location: Bayou C/D
- *Molecular Biology and Computational Biology* Location: Jackson C/D
- *Neuroscience* Location: Washington B
- *Physiology* Location: Jackson A/B
- *Social and Behavioral Sciences and Public Health* Location: Bayou A/B

Session 3 Location: Presidential Ballroom D

Understanding and Leveraging Cultural Dynamics in Research Mentoring Relationships

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

This session is for research faculty mentors working with undergraduate and graduate students. Through interactive discussion, participants will increase their awareness of the ways in which cultural dynamics impact research teams and the mentoring relationships within those teams. Both research and practical applications on the topic of cultural competence and STEM academic and career development will be presented. Participants will be provided concrete strategies for increasing their cultural competence and identifying ways to develop the knowledge and skills needed to effectively leverage cultural dynamics in research mentoring relationships, especially relative to matters of race, ethnicity and gender.

Speaker

Angela Byars-Winston, Ph.D., *University of Wisconsin-Madison, Madison, WI*

Thursday, November 14, 2013

9:45 a.m. – 10:45 a.m. **CONCURRENT SCIENTIFIC SESSIONS** *(Six Session Options)*

Sponsored by LINK

Session 1

Location: Presidential Ballroom C/E

Help! Math Is Invading Biology and Medicine!

Biological research of the past decades has made it clear that living systems are very complicated. Even lowly bacteria contain thousands of genes, and the number of proteins in plant and animal cells, while unknown, is enormous. The sheer size of the molecular inventory of each cell or organism leaves little doubt that our intuition alone is no longer sufficient to understand how biology works. For systems biologists, cells are huge sudokus, where some information is available, but many gaps must be filled in. The exciting challenge is to create tools and methods to solve these enormous puzzles, and that's what systems biology is all about. In particular, we tackle the complexity of the control systems that keep cells working properly. In an exquisitely coordinated manner, these systems regulate which genes are expressed and when, which proteins are generated or destroyed, and which metabolites are produced when the cell has to respond to food availability, danger signals, or stresses. Addressing these fundamental control systems of life requires mathematical and computational approaches, a few of which will be introduced in this presentation.

Speaker

Eberhard Voit, Ph.D., *Georgia Institute of Technology, Atlanta, GA*

Introducing Speaker

Stacey Simon, Ph.D., *American Association for the Advancement of Science/National Science Foundation, Arlington, VA*

Session 2

Location: Washington B

Cell, Tissues, Action! Surface Effects on Cells

The stiffness, chemistry, topography, and material properties of a surface can dictate whether a mammalian cell will grow, migrate, divide, or differentiate. In mammalian cells, the stiffness or mechanical stimuli of a surface can induce biochemical signals that result in morphological changes in the cell. Morphology is an important indicator of lineage commitment in stem cells; however, not well understood is the interplay between biochemical signals and mechanical cues at the cell-substrate interface that result in changes in cell morphology. This session will host speakers working at the interface between surface/material properties and the biochemical signals that they affect.

Speaker

Yolanda Vasquez, Ph.D., *Oklahoma State University, Stillwater, OK*

Introducing Speaker

Steve Greenbaum, Ph.D., *Hunter College of CUNY, New York, NY*

Session 3

Location: Presidential Ballroom B

The Role of Hedgehog Genes in Vertebrate Neural Development

Billions of neurons, the specialized cells of the nervous system, are precisely interconnected to modulate nervous system function. These cells create extended processes known as axons, which must find their way to appropriate target cells during neural development. The selective pathways that axons use to achieve such neural "wiring" are not fully characterized, so our lab is interested in understanding more about the molecular basis of vertebrate axon guidance. We are using the embryonic visual system of the frog *Xenopus laevis* as a model for studies of axon pathfinding and are examining whether hedgehog protein signaling molecules are required for this process. Understanding how axon pathfinding occurs during normal neural development may prove useful for correcting abnormal brain wiring, central nervous system injury repair, and axon regeneration.

Speaker

Andrea Morris, Ph.D., *Columbia University, New York, NY*

Introducing Speaker

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

Continued on next page

Thursday, November 14, 2013

Session 4 Location: Lincoln C/D/E

Environmental Health Disparities in the Age of Epigenomics
(Sponsored by Society of Toxicology)

Growing evidence suggests that environmental exposures can influence the development of chronic disease in humans through the accumulation of epigenetic modifications – mitotically and/or meiotically heritable changes in gene function – without changes in DNA sequence. This general hypothesis provides a broad umbrella for examining how the environment "gets under the skin" among selected racial, ethnic and/or socioeconomic groups. Neighborhood-specific epigenetic markings can potentially be used as a tool to investigate proposed mechanisms to account for well-documented racial and ethnic disparities in health and to assess the cumulative and/or synergistic effects of social, behavioral, and chemical/physical stressors on the health of populations in "disadvantaged" or "distressed" neighborhoods. This assessment of neighborhood-specific epigenetic markers could help identify the most appropriate targets for medical and/or environmental intervention. While we generally assume that some environments are unhealthy, epigenetic studies may identify others as protective of health. The slow progress in understanding disparities in disease susceptibility may be related to the fact that studies have not considered the cumulative effect of environmental exposure to both chemical and non-chemical stressors on genetic substrates. The failure to take into account local environmental differences between neighborhoods may have undermined the ability to identify the causes of the variance in observed disease risk and may explain why strong candidate susceptibility genes have performed poorly in genotype-phenotype association studies.

Speaker

Kenneth Olden, Ph.D., Sc.D., *U.S. Environmental Protection Agency, Arlington, VA*

Introducing Speaker

Salcina Elton, D.Vim, Ph.D., *Meharry Medical College, Nashville, TN*

Session 5 Location: Presidential Ballroom D

Biomapping in the Biomedical, Social and Behavioral Sciences

Biomapping is the integration of biological data with geographic data, and as a system, it includes three components: (1) a biomarker sensor and/or data logger, (2) a commercial global-positioning system (GPS) unit, and (3) visualization and/or mapping software. Research participants wear a mobile wristwatch-type or chest-mounted device that includes a small GPS microchip and a biosensor. Conventional biomarkers, such as blood pressure, heart rate, and body temperature, change as a function of behavior and arousal. In this workshop, an understudied biomarker, galvanic skin response (GSR), will also be considered. GSR is an electrodermal response used to detect changes in the sympathetic nervous system (SNS) through skin conductance. GSR has been linked to stress, SNS arousal, and cognitive ability. GSR has yet to be fully explored as a biomarker for behavior, and its potential utility as a biomarker for drug craving, drug use, and measure of individual sensitivity to environmental stimuli will be explored.

Speaker

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

Introducing Speaker

Cherrie Boyer, *University of California, San Francisco, CA*

Session 6 Location: Presidential Ballroom A

Neuroimaging Biomarkers in Alzheimer's Disease

Alzheimer's disease is quickly becoming one of the greatest threats to vital longevity. A progressive debilitating neurodegenerative condition, the disease affects more than 5 million people in the United States, and this number is expected to increase to over 15 million by 2040. Currently someone develops Alzheimer's disease every 70 seconds; this will drop to 33 seconds in forty years. One of the most active research areas in the fight against neurodegenerative diseases is the development of novel neuroimaging tools. The research of Richard D. King uses multidisciplinary translational approaches to understand Alzheimer's and related neurodegenerative diseases. In this session, King will discuss the current understanding of Alzheimer's disease and describe new methods being developed to better diagnose and treat neurodegenerative diseases. His current focus is the use of advanced neuroimaging analysis tools to study volumetric and shape changes in the brain associated with neurodegenerative diseases. One particular tool is fractal analysis, a novel method of computing cerebral cortical complexity. This technique uses high-resolution, high-contrast magnetic resonance to quantitatively characterize atrophy-caused changes in the shape of the cerebral cortex that could be useful for early detection of Alzheimer's and other neurologic diseases. The method could be used as a surrogate biomarker for disease progression or as a metric for the success of therapeutic interventions.

Speaker

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

Introducing Speaker

Hansel Fletcher, Ph.D., *Loma Linda University, Loma Linda, CA*

Thursday, November 14, 2013

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

Session 1 Location: Presidential Ballroom D

Picking the Perfect Ph.D. Program for You

(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*

Additional Speakers To Be Determined.

Session 2 Location: Presidential Ballroom C/E

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.

Moderators:

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

Jana Marie Toutolmin, *University of California, San Francisco, CA*

Speakers:

Juanita L. Merchant M.D., Ph.D., *University of Michigan, Annn Arbor, MI*

Danai Nyasha Chagwedera, MSTP Trainee Year III, *University of California, San Francisco*

Byron Knowles, MSTP Trainee Year VI, *Vanderbilt University*

Chimno Nnadi, MSTP Trainee Year III, *Vanderbilt University*

Obi Umunakwe, MSTP Trainee Year VI, *Vanderbilt University*

Session 3 Location: Jackson E/F

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 (and/or first-time presenters). 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.

Speaker

Loretta Brancaccio-Taras, Ph.D., *Kingsborough Community College, New York, NY*

Sponsored by LINK

Session 4 Location: Presidential Ballroom B

Backwater to White House: The Research-Driven Rise of Mass Bay Community College's Biotechnology Program to International Prominence

(Recommended for graduate students, postdoctoral scientists, faculty, program directors, early-career scientists)

The complex environmental and social problems that are facing us nationally and globally require collaborations from scientists and educators from a diversity of backgrounds, disciplinary knowledge, and experimental approaches. This session, sponsored by the ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program, highlights undergraduate teacher-scholars who have made ordinary connections and nurtured extraordinary collaborations across disciplinary and global boundaries, supporting interdisciplinary

Continued on next page

Thursday, November 14, 2013

and multi-ethnic teams. The session launches multiple feedback opportunities – planned throughout and after ABRCMS – about meaningful interactions between established investigators and undergraduates, educators, and future faculty.

Speaker

Bruce Jackson, Ph.D., *Massachusetts Bay Community College, Wellesley, MA*

Introducing Speaker

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

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

1:15 p.m. – 2:15 p.m. **PLENARY SCIENTIFIC SESSION** Location: Delta Ballroom

Metals with Memories and Other Smart Materials

This presentation will provide an overview of smart materials, so named for their ability to convert one form of stimuli into another. There is one class of smart materials called shape memory alloys that will change their shape when heated as they undergo a phase change. Such ability makes them perfectly suited for medical applications and devices where mechanical motion is needed. The conditions that control phase changes such as the processing and synthesis conditions will be discussed. This talk will also highlight other smart materials and their applications.

Speaker

Ainissa Ramirez, Ph.D., *Yale University, New Haven, CT*

Introducing Speaker

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

2:15 p.m. – 6:30 p.m. **Exhibits Open** Location: Exhibit Hall C

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

2:45 p.m. – 4:30 p.m. **Meet and Greet Speakers** Location: Exhibit Hall Entrance

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

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

Oral Session 01: Biochemistry Location: Bayou E

O01 Sulfated Chalcones as Glycosaminoglycan Mimetics for Allosteric Modulation of Coagulation Enzymes
Domonique T. White, *Norfolk State University, Norfolk, VA*

O02 Misunderstood Sirtuins: The True Substrates of Af1-Sir2 and Af2-Sir2
Christina A. Roman, *Stony Brook University, Stony Brook, NY*

O03 A Novel Halophilic Esterase with High Activity and Stability in Nonaqueous Media
Iris V. Rivera, *University of Puerto Rico at Humacao, Fajardo, PR*

O04 Methionine Aminopeptidase-1 (*Lm*Metap1) as a Potential Chemotherapeutic Agent Against *Leishmania major*
Sebastian Montalvo, *University of Texas at El Paso, El Paso, TX*

Session Moderator: ***Mario Garcis-Rios, Ph.D.,*** *Mount Ida College, Newton, MA*

Oral Session 02: Cancer Biology Location: Lincoln C/D/E

O05 The Role of Chromodomain Helicase DNA Binding Protein 5 (CHD5) in the Differentiation of Neural Stem Cells
Victoria M. Jones, *North Carolina Central University, Durham, NC*

O06 Epigenetic Regulation of Cd-10 in Breast Cancer and Its Role in Cell Invasion
Rammiz J. Khoury, *Lipscomb University, Nashville, TN*

O07 Reducing Inflammation Increases the Therapeutic Index of ATMi and Decreases Toxicity to Normal Brain
Caila C. Boyd, *University of South Carolina, Columbia, SC*

O08 Letrozole Resistance Is Promoted Through Epithelial to Mesenchymal Transition
Gina Nguyen, *Tulane and Xavier Universities, New Orleans, LA*

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

Thursday, November 14, 2013

Oral Session 03: Cell Biology

Location: Jackson E/F

O09 Cx37 Is Required for Osteoclast Differentiation and Fusion and Its Deletion Results in Increased Bone Mass in Mice
Iraj Hassan, *Indiana University-Purdue University Indianapolis, Indianapolis, IN*

O10 Identification of Novel Malaria Ligands Involved in Sialic Acid Independent Invasion of *Plasmodium falciparum* in Human Erythrocytes
Sheila Amoako, *The College of Wooster, Wooster, OH*

O11 Role of CaMKK2 and SRC-3 in Macrophage-Mediated Inflammation
Kenyaria Noble, *University of South Florida, Tampa, FL*

O12 Identifying New Interactors of Condensin II Subunit dCAP-D3
Jessica J. Lenoir, *Hiram College, Hiram, OH*

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

Oral Session 04: Chemistry

Location: Canal E

O13 The Encapsulation of Tetracycline Using β-cyclodextrin
DeBorah T. Myles, *Chicago State University, Chicago, IL*

O14 Radiolytic Studies on the Effect of Bridging Ligands on Electron Transfer Rate and Efficiency in Cobalt(ii)- and Ruthenium(ii)-Containing Complexes in Acetonitrile
Tiera Corey, *The University of Southern Mississippi, Hattiesburg, MS*

O15 Alkaline Synthesis of Amidines — Exploring a New Approach to Accessing a Pharmaceutically Relevant Functional Group
Muhammad M. Khalifa, *University of Oregon, Eugene, OR*

O16 Isolation and Characterization of the Dichloromethane Seed Extracts of *Schinus molle* and Evaluation of Their Biological Potential
Amal Taylor, *Oakwood University, Huntsville, AL*

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

Oral Session 05: Developmental Biology and Genetics

Location: Canal A/B

O17 Analysis of the Newly Discovered Plasmid in *Streptococcus parauberis*
Ian E. Copeland, *Norfolk State University, Norfolk, VA*

O18 Nuclear Organization of Telomeres and Centromeres in Human Sperm
Nicole M. Millan, *Florida International University, Miami, FL*

O19 A Novel Polymorphic AluYb8 Insertion in 8q24 is Associated with Prostate Cancer in African Americans
Symone V. Jordan, *Bowie State University, Bowie, MD*

O20 Novel Translocation Discovery by Next Generation RNA Sequencing of Soft Tissue Sarcomas
Sayeeda Chowdhury, *Hunter College, New York, NY*

Session Moderator: ***Alejandro Sanchez Alvarado, Ph.D.,*** *The Stowers Insttitute for Medical Research, Kansas City, MO*

Oral Session 06: Engineering, Physics and Mathematics

Location: Canal C/D

O21 Calcium Phosphate Nanoparticles: Synthesis, Characterization and Biocompatibility
Fatima Green, *Norfolk State University, Norfolk, VA*

O22 Peano Curves and Laplacians on Fractals
Nadia Ott, *San Diego State University, San Diego, CA*

O23 Prostate-Specific Antigen Dynamics in Benign Prostatic Hyperplasia and Prostate Cancer
Xiomarie Alejandro, *University of Puerto Rico, Humacao, PR*

O24 Study of the Bactericide Properties of Silver-Diamond Nanocomposite Films
Alejandra Guevara, *Universidad de Puerto Rico–Rio Piedras, San Juan, PR*

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

Continued on next page

Thursday, November 14, 2013

Oral Session 07: Immunology

Location: Lincoln A

O25 Novel HIV-1 Encoded miRNAs: Role in Chronic Immune Activation
Sonya J. Inderbitzin, *Delaware State University, Dover, DE*

O26 Defining the Roles of Calcium Mobilization in the Initial Decondensation of Chromatin During T Cell Activation
Taylor Y. Mitchell, *Furman University, Greenville, SC*

O27 Examining the Role of Suppressor of IKKε (SIKE) as a Recently Characterized Substrate of TANK Binding Kinase 1(TBK1)
Danice Alston, *Virginia Commonwealth University, Richmond, VA*

O28 Eosinophil Regulation of Allergic Asthma and Inflammation Through STAT6 Signaling
Nelson M. LaMarche, *Cornell University, Ithaca, NY*

Session Moderator: ***David Sanchez, Ph.D.,*** *Western University of Health Sciences, Pomona, CA*

Oral Session 08: Microbiology

Location: Bayou C/D

O29 Effect of HIV-1 Gp120 Expression on Glutamate Metabolism in Human Astrocytes
Yessenia Cedeño-Cedeño, *University of Puerto Rico, Ponce, PR*

O30 Small RNAs as Regulators of SPI 1 T3SS in *Salmonella enterica* Serovar Typhimurium
Isamar Caban-Vazquez, *Interamerican University of Puerto Rico, Aguadilla, PR*

O31 HIV gp120-Induced Up-regulation of Alpha7 Acetylcholine Receptor in Macrophages: a Calcium Mobilization Study
Rosiris León Rivera, *University of Puerto Rico, San Juan, PR*

O32 An Alternative Mechanism of *Bacillus anthracis* Release from Infected Immune Cells
Roche Kapoor, *University of Illinois at Urbana-Champaign, Urbana, IL*

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

Oral Session 09: Molecular and Computational Biology

Location: Jackson C/D

O34 Elucidating and Quantifying Novel Cell Cycle Regulated Proteins: A Mass Spectrometry-Based Proteomic Approach
Alexander Platero, *University of California, Davis, CA*

O33 Radiogenomics in Ovarian Cancer: Linking Phenotype with Genotype
Seong Im Hong, *Hunter College, New York, NY*

O35 The Power of Proteomics: A Study of Viral Mediated Post-Translational Modification
Maxwell DeNies, *State University of New York College at Fredonia, Fredonia, NY*

O36 Pooled Sequencing Power Analysis
Darius M. Bost, *North Carolina Agricultural and Technical State University, Charlotte, NC*

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

Oral Session 10: Neuroscience

Location: Washington B

O37 Attention Is Necessary for the Integration of Audiovisual Speech Stimuli But Unnecessary for the Integration of Non-speech Stimuli
Enimielen Aligbe, *Oberlin College, Oberlin OH*

O38 Unique Molecular Alterations in Synapses of Neuronal Ensembles between Nucleus Accumbens and the Prefrontal Cortex Related to Context-Induced Reinstatement of Cocaine-Seeking Behavior
Vani P. Selvam, *National Institute of Drug Abuse, Baltimore, MD*

O39 An Optogenetic Model for Parkinson's Disease
Victoria Servin, *University of California, Berkeley, CA*

O40 Sleep Dependence of Memory for Object-Place Associations in Mice
Christina Fuentes, *Northwestern University, Evanston, IL*

Session Moderator: ***Stephanie Bingham, Ph.D.,*** *Barry University, Miami Shores, FL*

Thursday, November 14, 2013

Oral Session 11: Physiology Location: Jackson A/B

O41 Effect of the Abiotic Digestion of Spent Ground Coffee (sgc) on the Bioavailability of Antioxidants and Growth of a Commercial Probiotic Strain (*Lactobacillus casei* Dn114)
Umaru Barrie, *University at Albany, SUNY, Albany, NY*

O42 Reproductive Abnormalities Associated with Deletion of the Kiss1r in Mouse Gnrh Neurons
Momodou L. Sonko, *Johns Hopkins University, Baltimore, MD*

O43 Role of Ano-1 in Pulmonary Vascular Endothelial Cell Proliferation and Migration
Sherry Gee, *University of Michigan, Ann Arbor, MI*

O44 Sexually Divergent Cardiac Expression of IL-19 and Its Cognate Receptors in Health and Disease
Thao Le, *University of Missouri, Columbia, MO*

Session Moderator: ***Basil Ibe, Ph.D.,*** *LA Biomed at Harbor-UCLA Medical Center, Torrance, CA*

Oral Session 12: Social and Behavioral Sciences and Public Health Location: Bayou A/B

O45 Evaluation of a Coordinated Symptom Assessment and Management Intervention System for Patients with Lung Cancer (SAMI-L): Patient Perspectives
Sindy M. Ortiz Pimentel, *Denison University, Granville, OH*

O46 Understanding the Pathway to Suicide: The Role of Planning for Suicide
Victoria E. Quinones, *Hunter College, New York, NY*

O47 Barriers and Challenges for African-American Mothers to Participate in Early Intervention Programs for Their Preterm Infants
Sidni Moore, *Elizabeth City State University, Elizabeth City, NC*

O48 The Role of Alcohol Use on the Sexual Decision-Making Behaviors of Emerging Adult African American Males and Their Sexual Partners
Kenneth Pass, *Morehouse College, Atlanta, GA*

Session Moderator: ***Cherrie B. Boyer, Ph.D.,*** *University of California, San Francisco, CA*

6:45 p.m. – 7:30 p.m. **Dinner** *(Catering Service ends at 7:30pm)* Location: Delta Ballroom

7:45 p.m. – 9:45 p.m. **Professional Development Sessions** *(Five Session Options)*

Session 1 Location: Presidential Ballroom D

Gateway to the Future – Career Paths in the Biomedical Sciences, STEM Disciplines, and Behavioral Sciences
(Recommended for undergraduate and graduate students)
This session will explore the wide variety of careers available in the biomedical sciences, physical sciences, engineering, and behavioral sciences, as well as the many types of training that can help you reach your goals. Experienced 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, you will have a clearer understanding of why graduate training programs (including postbaccalaureate, master's, and doctoral programs) are the gateway to your future opportunities. Speakers will be available to meet in small groups after the session.

Career pathways include:
- Industry
- Academia
- Government (Research and Non-research)
- Start-up Company
- Physician Scientist
- Administration/Nonprofit
- Public Policy
- Public Health

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

Speakers
To Be Determined

Continued on next page

Thursday, November 14, 2013

Sponsored by LINK

Session 2 Location: Presidential Boardroom A

Innovative Models for Staying in Current Research

(Recommended for faculty and early-career scientists)

There has been a recent recognition that the current rates of training in science, technology, engineering, and mathematics (STEM) disciplines will result in a shortage of nearly 1 million workers unless significant changes in education and training are made. Such large-scale changes in increasing access and success in STEM for individuals from a range of diverse backgrounds will require innovations and collaborative efforts from scientists and educators from a diversity of backgrounds, disciplinary knowledge, and experimental approaches. This session highlights mentors and models exemplifying successful strategies for supporting interdisciplinary and racially and ethnically diverse teams. The session is a part of a multiyear collaboration called the ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) initiative. LINK seeks to stimulate and support meaningful interactions between established investigators and undergraduate students, educators, faculty and future faculty. By responding to a national need for structured mentoring, the ASM-NSF LINK program aspires to cultivate diversity and competency in STEM fields.

Speakers

Beronda Montgomery, Ph.D., *Michigan State University, East Lansing, MI*
Michael Ibba, Ph.D., *The Ohio State University, Columbus, OH*
Keivan Stassum, Ph.D., *Vanderbilt University/Fisk University, Nashville, TN*

Session 3 Location: Jackson E/F

Funding Opportunities and Grant Writing 101 – Tips on Preparing Your First Grant Proposal

(Recommended for graduate students and postdoctoral scientists)

This session offers an overview of the best practices for preparing, writing, and submitting NIH, NSF, and other 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 to learn about the lifecycle of grant proposals, factors influencing funding decisions, and tips that will help you organize proposals and avoid pitfalls.

Speaker

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

Session 4 Location: Jackson C/D

Data-Driven Bioscience: Introducing Computation, Modeling and Simulation into Research and Teaching

Sponsored by Extreme Science and Engineering Discovery Environment (XSEDE)

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

Scientists and engineers around the world use digital resources and services – supercomputers, collections of data, and new tools – to make our lives healthier, safer, and better. The Extreme Science and Engineering Discovery Environment (XSEDE) accelerates open scientific discovery by enhancing the productivity of researchers, engineers, and scholars and making advanced digital resources easier to use. Grace Silva, a graduate student studying bioinformatics and computational biology, will provide a researcher's perspective on using XSEDE high-performance computing resources in her cancer research. Gregory Goins, an XSEDE faculty user, will discuss how North Carolina A&T University transformed its bioscience curriculum to respond the new requirements of data-driven science.

Speakers

Grace Silva, *University of North Carolina–Chapel Hill, Chapel Hill, NC*
Gregory D. Goins, Ph.D., *North Carolina A&T University, Greensboro, NC*

Introducing Speaker

Linda Akli, SURA, *Washington, DC*

Session 5 Location: Lincoln C/D/E

What Do You Want Your Students to Know? Designing Effective Courses through Backwards Design

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

In this age of information overload, many instructors struggle with what to cover in a course. The "backwards design" approach can help! Through a series of activities, this session will introduce you to the advantages and steps of the process. Attend to explore instructional and learning activity plans and to learn how backwards design can help you develop and assess course outcomes.

Speaker

Loretta Brancaccio-Taras, Ph.D., *Kingsborough Community College, New York, NY*

Friday, November 15, 2013

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

7:00 a.m. – 8:00 a.m. **Networking Breakfast** *(Catering service will end at 8:00 a.m.)* Location: Delta Ballroom

8:15 a.m. – 9:15 a.m. **Concurrent Professional Development Sessions** *(Five Session Options)*

Session 1 Location: Lincoln C/D/E

Succeeding with Your Strengths: Assess and Apply Your Unique Strengths toward Your Ideal Career

(Recommended for undergraduates and postbaccalaureates)

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 right for everyone because we each have a unique set of strengths and preferences in communication and working styles. Our strengths affect 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 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., *Northwestern University, Chicago, IL*

Session 2 Location: Presidential Ballroom D

Mentoring: An Enabling Relationship that Fosters Professional Growth and Development

(Recommended for undergraduate, postbaccalaureate, and graduate students)

This session introduces mentoring as a strategy for enhancing academic, personal, and professional development. It describes mentorship models and explores success stories in mentoring undergraduate and graduate students. The session is structured to provide participants with (i) the philosophy and terminology of mentoring, (ii) the rationale for mentoring, (iii) mentoring roles and responsibilities, (iv) tips for forming an effective mentoring alliance, and (v) ways to use mentoring as a strategy for developing people. The session highlights the graduate advisor's roles and the warning signs of unethical relationships. Case studies and participant experiences will be used as tools to delve into mentoring.

Speaker

Howard G. Adams, Ph.D., *H.G. Adams & Associates, Norfolk, VA*

Session 3 Location: Jackson C/D

Graduate Opportunities in Public and Global Health Research

(Recommended for undergraduates and postbaccalaureates)

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

Speaker

Celeste Phillip, Ph.D.*, Volusia County Health Department, Daytona Beach, FL*

Session 4 Location: Jackson A/B

Understanding and Leveraging Cultural Dynamics in Research Mentoring Relationships (REPEAT)

(Recommended for faculty and postdoctoral scientists)

This session is for research faculty mentors working with undergraduate and graduate students. Through interactive discussion, participants will increase their awareness of the ways in which cultural dynamics impact research teams and the mentoring relationships within those teams. Both research and practical applications on the topic of cultural competence and STEM academic and career development will be presented. Participants will be provided concrete strategies for increasing their cultural competence and identify ways to develop knowledge and skills needed to effectively leverage cultural dynamics in research mentoring relationships, especially related to matters of race, ethnicity, and gender.

Speaker

Angela Byars-Winston, Ph.D., *University of Wisconsin-Madison, Madison, WI*

Continued on next page

Friday, November 15, 2013

Session 5 Location: Jackson E/F

Getting Published: Advice for Graduate Students and Postdoctoral Scientists

(Recommended for graduate students and postdoctoral scientists)

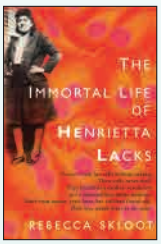
Publishing your work is the key to expanding your success and influence in science. This session will help you choose a journal, prepare and submit your manuscript, deal with requests for revision, and cope with occasional rejection. It will also explain the ethics of scholarly publishing, including 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*

9:30 a.m. – 10:45 a.m. **PLENARY SESSION** Location: Presidential Ballroom A/B/C/E

HeLa Panel



Part 1: Immortal Life of Henrietta Lacks

The story of Henrietta Lacks was unknown for many years, but with Rebecca Skloot's bestseller, *The Immortal Life of Henrietta Lacks,* a growing number of people, from medical researchers to book group members and high school students, are eager to learn more about her. In this session, members of Henrietta's family speak candidly and poignantly about their experiences and the mother and grandmother whose cell tissue has miraculously become, since her death in 1951, one of the most important medical research tools ever discovered. The Lacks family's connection to the bestselling book emphasizes how proud they are of Henrietta's contribution to science.

Speakers

David Lacks, Jr., *grandson of Henrietta Lacks and son of David (Sonny) Lacks*

Shirley Lacks, *daughter-in-law of Henrietta Lacks*

Part 2: Bioethics, Justice and HeLa

As a professor of bioethics and executive director of the Phoebe R. Berman Bioethics Institute at Johns Hopkins University, Ruth Faden has spent decades researching the intersection of medicine, science, and ethics. In this lecture, Faden will bring her expertise to the incredible but true story of Henrietta Lacks and the ethical considerations raised in Rebecca Skloot's book, *The Immortal Life of Henrietta Lacks.* Faden will address the dual issues of consent and compensation, and she will investigate why so many of the ethical considerations in the HeLa story are about social justice as well. Leading the audience through the landscape of medical ethics in Henrietta's lifetime and into the current state of bioethics, Faden will also look towards the future, inviting us to consider what Henrietta Lacks' lasting bioethical legacy will be.

Speaker

Ruth Faden, Ph.D., *Johns Hopkins University, Baltimore, MD*

Introducing Speaker

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

10:45 a.m. – 12:15 p.m. **Exhibits Open** Location: Exhibit Hall C

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

12:30 p.m. – 1:15 p.m. **Networking Lunch** *(Catering service will end at 1:15 p.m.)* Location: Delta Ballroom

1:15 p.m. – 2:15 p.m. **PLENARY SCIENTIFIC SESSION** Location: Delta Ballroom

Taming the p53 Network for Therapeutic Purposes

(Sponsored by the Howard Hughes Medical Institute)

p53 is the most commonly inactivated tumor suppressor gene in human cancer. The *p53* gene network is composed of functionally distinct gene modules mediating starkly diverse cellular responses to stress, including cell cycle arrest, senescence, apoptosis and autophagy. The molecular mechanisms defining how cells adopt a specific response upon *p53* activation are poorly understood, which hampers the development of therapies harnessing the apoptotic potential of *p53* for selective elimination of cancer cells. Why do some cell types survive whereas others die upon *p53* activation? What mechanisms define this dichotomy? *p53* functions primarily as a transcription factor, and specific subsets of *p53* target genes are activated in response to diverse stimuli or in different cell types, which clearly impacts cell fate choice. Espinosa will present the results from several projects in his lab, which is investigating how pleiotropy is generated within the *p53* transcriptional program and how the network can be manipulated to produce specific cellular responses upon *p53* activation. He will first describe mechanistic studies using global measurements of nascent RNA synthesis (GRO-seq), steady-state RNA levels (microarray gene profiling), and *p53* occupancy (ChIP-seq) to demonstrate how the *p53* transcriptional program

Friday, November 15, 2013

is qualified at the transcriptional and posttranscriptional levels. He will then describe the results of genome-wide shRNA screens to identify signaling pathways that control the cellular response to *p53* activation. Finally, he will demonstrate how this knowledge can be used to improve the therapeutic efficacy of *p53*-based targeted therapies currently being tested in clinical trials for the treatment of various cancers.

Speaker

Joaquin Espinosa, Ph.D., *University of Colorado, Boulder, CO*

Introducing Speaker

Alejandro Sanchez-Alvarado, Ph.D., *Stowers Institute for Medical Research, Kansas City, MO*

2:30 p.m. – 3:30 p.m. **Mid Atlantic PREP & IMSD Program Director Meeting** Location: Delta Island E

2:30 p.m. – 3:30 p.m. **Professional Development Sessions** *(Four Session Options)*

Session 1 Location: Presidential Ballroom D

Writing a Successful Personal Statement for Graduate School Admission and/or Summer Programs – 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: Canal E

Vision and Change Leadership Fellows: Transforming Undergraduate Life Sciences

(Recommended for faculty and program directors)

A national effort is underway to transform how life sciences are taught at the undergraduate level, how academic departments support faculty, and how curricular decisions are made. Attend this session to hear more about PULSE (Partnership for Undergraduate Life Sciences Education), a joint initiative of the National Science Foundation, Howard Hughes Medical Institute, and National Institutes of Health that is supporting a yearlong project in which 40 Vision and Change Leadership Fellows consider and then recommend models for improving undergraduate life sciences education at the institutional level. Significant contributions from the greater community are needed throughout the project to develop and implement a framework for systemic change. Visit www.pulsecommunity.org for more information.

Speakers

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

Bill Davis, Ph.D., *Washington State University, Pullman, WA*

Mary Smith, Ph.D., *North Carolina A&T University, Greensboro, NC*

Loretta Brancaccio-Taras, Ph.D., *Kingsboro Community College, New York, NY*

Session 3 Location: Jackson A/B

Creative Interdisciplinary Education through a Biologically Inspired Design Curriculum

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

Biologically inspired design (BID) represents a powerful and logical bridge to multidisciplinary education. Biologists implicitly understand general principles relevant to function and design of biological objects and have explicit knowledge embodied by a rich set of natural examples of organisms that successfully solve specific challenges. Engineers have explicit knowledge of quantitative assessment of function and are accustomed to selecting design criteria and designing objects with specific functions. Thus both biologists and engineers face the problem of identifying design criteria, yet each group approaches the problem from a unique perspective. Mixing upper-level undergraduates majoring in engineering with those majoring in biology, we have devised a BID class that provides increased content knowledge and practical training in methods and techniques. These areas of concentration facilitate the identification and translation of biological principles into solutions for human challenges. Our course also was motivated by a desire

Continued on next page

Friday, November 15, 2013

to develop teaching practices that address persistent problems in science, technology, math and engineering (STEM) education. Thus our program utilizes the connection between biological and engineering functions to develop problem solving, critical thinking, and research and inquiry skills in an interdisciplinary setting.

Speakers

Jeannette Yen, Ph.D., *Georgia Institute of Technology, Atlanta, GA*
Kathy Nagel, M.S., *Georgia Institute of Technology, Atlanta, GA*
Francis Garing, B.S.M.E., *Formation Design Group, Atlanta, GA*

Session 4 Location: Washington B

Outclass the Competition! Etiquette Training (REPEAT)

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*

3:30 p.m. – 6:30 p.m. **Exhibits Open** Location: Exhibit Hall

3:45 p.m. – 5:00 p.m. **POSTER SESSION 4** Location: Exhibit Hall

4:00p.m. – 5:00p.m. **BRIDGES Program Director Meeting** Location: Delta Island A/B

5:15 p.m. – 6:30 p.m. **POSTER SESSION 5** Location: Exhibit Hall

6:45 p.m. – 7:45 p.m. **Professional Development Sessions** *(Six Session Options)*

Session 1 Location: Washington B

Graduate School Application Process

(Recommended for undergraduate and master's students)

The session provides potential graduate students with the information necessary to prepare and plan for the graduate school admissions process. The session 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 tips and strategies on writing a powerful personal statement for applications for graduate school and/or summer internships. Also covered are the interview process and how to succeed in graduate school. Lastly, the session offers strategies for financing graduate education.

Speaker

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

Session 2 Location: Lincoln C/D/E

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: Jackson C/D

Making the Most of 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 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.

Speaker

Sharon L. Milgram, Ph.D., *Office of Intramural Training & Education, NIH, Bethesda, MD*
Rick McGee, Ph.D., *Northwestern University Feinberg School of Medicine, Evanston, IL*

Friday, November 15, 2013

Session 4 Location: Jackson A/B

Succeeding through Your Failures: Learning to Fail Productively

(Recommended for undergraduate, postbaccalaureate and graduate students)

At ABRCMS, you will likely hear lots of encouraging stories about successful scientists and research projects. But how will you respond when – not if – you encounter limitations, obstacles, and failures? Your mindset towards failure significantly affects how you'll respond, and it can make the difference between settling at and moving beyond a plateau. We will consider research from psychology professor Carol Dweck (Stanford University), who shows how those with growth mindsets often succeed despite failure, but those with fixed mindsets often crumble from failure. We will also consider other scholarship and thoughts on failure in the scientific and academic community. (This session will complement, but not depend on, the "Succeeding with Your Strengths" workshop; you may attend both or either one independently.)

Speaker

Steven P. Lee, Ph.D., *Northwestern University, Chicago, IL*

Session 5 Location: Presidential Boardroom A

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

Marcelo Vinces, Ph.D., Oberlin College, Oberlin, OH

Session 6 Location: Jackson E/F

Continuing Education for Active Researchers in the Biological Sciences

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

Have you ever emerged from the depths of your research needing to learn a new technology, wishing for an in-depth introduction to a new field, or wanting to find new collaborators and mentors? If so, come hear about in-residence educational opportunities at private, not-for-profit research institutions in the life sciences.

Speakers

Charla Lambert, Ph.D., *Cold Spring Harbor Laboratory, Cold Spring Harbor, NY*
William Reznikoff, Ph.D., *Marine Biological Laboratory, Woods Hole, MA*
Lisa John, Ph.D., *The Jackson Laboratory, Bar Harbor, ME*

6:45 p.m. – 8:00p.m. **HHMI Meet and Greet with Students and PIs** *(By Invitation Only)* Location : Delta Island E

6:45 p.m. – 8:45 p.m. **Networking for Speakers, Exhibitors, Judges and Program Directors** Location: Governors Ballroom
(Undergraduate, postbaccalaureate and graduate students are NOT permitted to attend)

9:00 p.m. – 10:30 p.m. **NIGMS/TWD Program Director Meeting** Location: Delta Island A/B/C
(All programs will initially meet as a large group and break into sub-groups afterwards)

Continued on next page

Saturday, November 16, 2013

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

7:00 a.m. – 8:00 a.m. **Networking Breakfast** *(Catering service will end at 8:00 a.m.)* Location: Delta Ballroom

8:30 a.m. – 9:15 a.m. **Exhibitor Forum and Feedback Session** Location: Exhibit Hall (Networking Area)

8:30 a.m. – 9:30 a.m. **Oral Presentation Sessions 13 – 24** *(All 12 Disciplines)*

Oral Session 13: Biochemistry

Location: Bayou E

O49 Capsid-Dependent Diploid Genome Selection of HIV-1
Sayo McCowin, *University of Maryland–Baltimore County, Baltimore, MD*

O50 Sildenafil (Viagra®) Protects Against Ethanol Cytotoxicity in H9c2 Rat Cardiomyoblasts Under Normal and High Glucose Conditions
Salma Omer, *Virginia Commonwealth University, Richmond, VA*

O51 Recognition and Regulation of microRNA Precursors by Transcription Factors
Mariel Coradin, *University of Puerto Rico, San Juan, PR*

O52 Is It a Ligand Switch or a Dipstick Diagnostic Tool? Yes! RNA Aptamer Against Calf Intestinal Alkaline Phosphatase
Vincent D. Huynh, *University of Texas, Austin, TX*

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

Oral Session 14: Cancer Biology

Location: Lincoln C/D/E

O53 Impact of Radiation Therapy on Local Control of Osseous Metastases in Rhabdomyosarcoma
Diane Kogan, *Hunter College, New York, NY*

O54 Minimally Invasive Treatment of Early Hepatocellular Carcinoma
Sarah Soo-Hoo, *Macaulay Honors College at Hunter College, New York, NY*

O55 Heregulin Induces Transformation of Non-transformed Breast Cancer Epithelial Cells
Ghiara A. Lugo, *University of Puerto Rico, Mayagüez, PR*

O56 Application of the Nielsen Criteria to Predict Benefit of Bicalutamide in Patients with Androgen-Receptor (AR)-Positive, Hormone-Receptor-Negative Metastatic Breast Cancer
Gianna Torre, *Hunter College, New York, NY*

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

Oral Session 15: Cell Biology

Location: Jackson E/F

O57 AZD2281-FL — a Novel-Imaging Agent for Intraoperative Imaging and Surgical Resection of Brain Tumors
Yasiri Portorreal, *City College of New York, New York, NY*

O58 Imaging of Neuroblastoma Lesions with 123I-MIBG Scintigraphy and 18F-FDG PET/CT
Noshin M. Haque, *City College of New York, New York, NY*

O59 Identification of Key Components Involved in mtDNA Inheritance During Cell Division
Beatriz Camacho, *San Jose State University, San Jose, CA*

O60 Overexpression of POU Domain Transcription Factor, Brn3b, Causes an Upregulation of Neuroregenerative Proteins GAP43 and TUBA-1 in Cultured 661W Cells
Stephanie A. Ogbo, *University of Dallas, Irving, TX*

Session Moderator: ***Harper Singh, Ph.D.,*** *Savannah State University, Savannah, GA*

Saturday, November 16, 2013

Oral Session 16: Chemistry

Location: Canal E

O61 Speciation, Photophysical, and Chiroptical Properties of Europium(III) - Tetracycline Species
Kirandeep K. Deol, *San Jose State University, San Jose, CA*

O62 From the Micellar Cradle to the Crystalline Grave: Surfactant Aggregation from Dilute Solutions to Pure Crystals
Marco S. Messina, *Texas A&M University, Corpus Christi, TX*

O63 Synthesis of Capsaicin Analogs as Anti-Cancer Agents
Rosalyn Kent, *Tulane and Xavier Universities, New Orleans, LA*

O64 Highly Regioselective Synthesis of Allyl and Vinyl Phenyl Sulfones Under Controlled Sodium Hydride Conditions
Anibal R. Davalos, *Queens College-City University of New York, Flushing, NY*

Session Moderator: ***Kenneth Sajwan, Ph.D.,*** *Savannah State University, Savannah, GA*

Oral session 17: Developmental Biology and Genetics

Location: Canal A/B

O65 Development of Methods for the Characterization of *Scenedesmus Dimorphus* Pale Mutants
Mohamed Dumbuya, *University of the District of Columbia, Washington, DC*

O66 Identification of Clonal Skeletal Progenitor Cells
Francisco X. Galdos, *Harvard University, Cambridge, MA*

O67 CRISPR/Cas9-Mediated Gene Targeting in Mammalian Fibroblasts
Luis A. Cedeno-Rosario, *University of Puerto Rico, Humacao, PR*

O68 How Will Downgrading the SCC4 and SYN4 Gene Expression During Meiosis Affect the Growth and Development of Arabidopsis Plants?
Alexis S. Collier, *Lincoln University, Lincoln University, PA*

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

Oral Session 18: Engineering, Physics and Mathematics

Location: Canal C/D

O69 A New Wireless Wearable Device for Improved Gait Rehabilitation of Elderly and Stroke Patients
Abdelhakim Ahmim*, University of the District of Columbia, Washington DC*

O70 An In Vitro Model to Understand the Effect of Vascular Delay on Sprouting Angiogenesis
Emily Diaz, *University of Maryland–Baltimore County, Baltimore, MD*

O71 An Allosteric Gain of Function Mutation Cannot Counteract a Loss of Function Mutation at the Gp1bα Binding Site of Vwf A1 Domain
Barsha Aangdembe Subba, *Mississippi University for Women, Columbus, MS*

O72 The Design of a Multi-Stable Material
Francisco Candido, *San Diego State University, San Diego, CA*

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

Oral Session 19: Immunology

Location: Lincoln A

O73 HIV-1: A Possible Prevention
Susanna J. Huggenberger, *University of Nebraska, Lincoln, NE*

O74 Effects of Intracellular Iron on Inflammasome Activation by *Salmonella* Typhimurium
Celia Campos*, Southwestern University, Georgetown, TX*

O75 Characterization of HIV-1 Epitopes in Elite Suppressor CD8+ Cytotoxic T Lymphocyte Mediated Killing
Mohameed N. Islam, *Cornell University, Ithaca, NY*

O76 Adoptive T Cell Therapy for Metastatic Colorectal Cancer
Shauna Ebanks, *Lincoln University, Lincoln University, PA*

Session Moderator: ***David Sanchez, Ph.D.,*** *Western University of Health Sciences, Pomona, CA*

Continued on next page

Saturday, November 16, 2013

Oral Session 20: Microbiology

Location: Bayou C/D

O77 Morphology and Composition of Artificial Marine Snow at the Oil-Water Interface
***Joyce P. Ward**, Tulane University, New Orleans, LA*

O78 A Study of Interesting and Unique Transcripts Mapping to the Varicella Zoster Virus Genome
***Rosa N. Cruz-Torres,** University of Colorado, Anshutz Medical Campus, Aurora, CO*

O79 Epigenetic Factors Play a Role in Antifungal Drug Sensitivity in *Saccharomyces cerevisiae*
***Debresha A. Shelton**, Fisk University, Nashville, TN*

O80 Inhibition of Quorum Sensing by *Bucida buceras* in Conjunction with Antibiotics to Attenuate Virulence in *Pseudomonas aeruginosa*
***Liana Angeli N. Apolis,** Florida International University, Miami, FL*

Session Moderator: ***Patricia Baynham, Ph.D.,** St. Edward's University, Austin, TX*

Oral Session 21: Molecular and Computational Biology

Location: Jackson C/D

O81 The Efficiency of an Error Correction Method in Reducing the Read Mapping Bias in Allele-Specific Expression
***Lavida Brooks,** University of the Virgin Islands, St. Thomas, U.S. Virgin Islands*

O82 Whole-Genome Association Study of Silver Resistance Pathways
***Imani N. Sharpe,** North Carolina A&T State University, Greensboro, NC*

O83 Expression and Characterization of TAT-Cre for Ex Vivo Gene Deletion
***Jere ` L. Hutson,** Delaware State University, Dover, DE*

O84 The Effect of Microgravity on the Intestinal TIght Junction Proteins
***Devin A. Taylor,** University of Maryland–Baltimore County, Baltimore, MD*

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

Oral Session 22: Neuroscience

Location: Washington B

O85 Stimulation of AgRP Neurons Drives Operant Feeding Behavior in Mice
***Ryan Bartholomew,** Duke University, Durham, NC*

O86 Infusion of Neuropeptide Y into the Basolateral Amygdala Induces Resilience to Social-Defeat Stress
***Cree T. Robinson,** Spelman College, Atlanta, GA*

O87 Grounded Neurophenomenology: a Novel Method and Case Study Using Real-Time Neurofeedback to Investigate the Correspondence Between Subjective Experience and Brain Activity
***Juan F. Santoyo,** Brown University, Providence, RI*

O88 G-Protein Coupled Receptor Regulation of Human Myelination
***Jessie J. Polanco García,** University of Puerto Rico, Mayaguez, PR*

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

Oral Session 23: Physiology

Location: Jackson A/B

O89 Investigation into the Antidiabetic Activity of Blueberry (vaccinium Arctostaphylos L) and Dandelion (taraxacum Officinale) via the Inhibition of α-glucosidase
***Brittini Summers,** Tulane and Xavier Universities, New Orleans, LA*

O90 Detection of Hydrogen Peroxide Catalyzed by Iron(iii)-Tetrasulfonatophthalocyanine Using Amplex Red as a Fluorescent Substrate
***Reena E. Blade,** Hampton University, Hampton, VA*

O91 The Role of Androgen Signaling in the Pituitary of Female Mice
***Temidayo I. Adedeji-Fajobi,** Johns Hopkins University School of Medicine, Baltimore, MD*

O92 Hyperinsulinemia Upregulates Androgen Secretion and Impairs Reproductive Function in Female Mice
***Amanda Nwaopara,** Johns Hopkins University, Baltimore, MD*

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

Saturday, November 16, 2013

Oral Session 24: Social and Behavioral Sciences and Public Health Location: Bayou A/B

O93 The Taxi Network: Decreasing Cancer Risk through Community-Based Participatory Research
Arlene Castillo, *Hunter College, New York, NY*

O94 Investigating Diabetes Knowledge, Attitude, and Practices and Its Relationship to Diabetes Self-Management
Audra Griffin*, North Carolina Agricultural and Technical State University, Greensboro, NC*

O95 Racial Identity, Campus Involvement, and Progress Toward On-Time Graduation
Erica Lee, *Virginia Tech, Blacksburg, VA*

O96 Improving Mental Health Services in Primary Care
Pearl Eni, *University of Pittsburgh, Pittsburgh, PA*

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

9:30 a.m. – 12:30 p.m. **Exhibits Open** Location: Exhibit Hall C

9:45 a.m. – 11:00 a.m. **Poster Session 6** Location: Exhibit Hall C

11:00 a.m. – 12:15 p.m. **Poster Session 7** Location: Exhibit Hall C

12:30 p.m. – 1:15 p.m. **Networking Lunch** *(Catering Service will end at 1:15 p.m.)* Location: Delta Ballroom

1:00 p.m. – 4:00 p.m. **Exhibit Takedown** Location: Exhibit Hall C

1:15 p.m. – 2:15 p.m. **Closing Keynote Address** Location: Delta Ballroom

Advancing Global Economic Development and Thoughts on A Continuing Legacy

Speaker
Ambassador Andrew Young, *Andrew Young Foundation, Atlanta, GA*

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

2:45 p.m. – 4:30 p.m. **Concurrent Professional Development Sessions** *(Three Session Options)*

Session 1 Location: Presidential Ballroom A/B

ABRCMS Professional Skills Café

(Recommended for undergraduates and postbaccalaureates)

This session is designed to help students gain a broad appreciation for career exploration and the job search process. The career café, 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 career experts. Topics include, but are not limited to:

- **LinkedIn for Networking:** Learn how to use LinkedIn effectively for your career! We will explore creating your profile, getting introduced to others, 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 your networks, make connections, and have meaningful conversations and interactions.
- **Individual Development Plans (IDPs) 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.
- **Resumes and CVs:** 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.
- **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 in research- and teaching-intensive institutions.

Continued on next page

Saturday, November 16, 2013

- **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 developing productive mentoring relationships can be difficult. Come discuss the ins and outs of mentoring within and outside the research environment.
- **Time Management/Balancing Our Academic and Personal Lives:** Everyone agrees that finding time for our work and for our personal lives is key, but there never seem to be enough hours in the day. Come share your struggles and strategies for finding balance and making choices with colleagues and mentors.
- **Resources for Community College Students:** 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.
- **Summer Internships: How to Succeed:** Throughout ABRCMS, you've heard all about the importance of summer research experiences, but maybe you still have questions about how to use this time effectively. This session covers how to integrate into the lab, understand lab dynamics, and the difference between your day-to-day mentor and the faculty mentor.
- **Finishing Your Dissertation:** The end of graduate school seems like a flurry of activity. This session will help you to identify and overcome roadblocks such as working with your mentor, communicating with your committee, writing your dissertation while finishing experiments, and overcoming writer's block.
- **Picking your thesis lab:** Choosing a research group is an important decision in grad school. Learn how to set up your rotations wisely, assess if the science fits your interests, see if you fit with the rest of the group, understand the PI's management style, and get help if things go wrong.
- **Studying Tips for Tests:** The GRE, MCAT, and DAT, oh my! This group will discuss general tips and techniques to prepare for admission tests.
- **Picking the Grad Program That's Right for You:** Every graduate program has a different philosophy and feel. Learn how to weigh program pros and cons to ensure that you find the program that fits you. Discussion at this table will address both who to apply to and how to make your final decision.
- **MD and PhD — How to Choose Between:** This session will provide you with questions to help determine which degree will make you happy and successful in your career.
- **Grad School Applications — Crafting Your Personal Statement and Resume:** Learn how to create two important components of your graduate school application — a resume specific to grad school applications and a personal statement that will influence the admissions committee.
- **Grad School — Ace Your Interview:** Learn what types of questions you should prepare for, what the typical schedule looks like, and more tips for surviving the interview process for graduate school.
- **Grad School — How to Succeed:** This table will help you to understand what happens in grad school (picking rotations, taking classes, teaching, passing prelims, joining a research group, picking a thesis topic and more) and how you can prepare for the challenges coming your way.
- **Career Options for PhD Scientists:** After you finish your graduate degree, you'll have many options for career paths. Let's chat about your options in the academic, industry, government, and nonprofit settings. We'll also discuss how to best use your time in grad school to prepare for a variety of career paths.
- **Reference Letters:** Learn who to ask for letters, how to build a relationship that results in a strong letter, what to give your letter writer, and more!

Moderator

Lori Conlan, Ph.D., *Office of Intramural Training & Education, NIH, Bethesda, MD*

Additional Speakers To Be Determined

Session 2 Location: Lincoln C/D/E

Part 1

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. In this hands-on workshop, we'll get you started on creating your annual Individual Development Plan (IDP) for completing projects and developing professional skills that you'll need for success. Through this process, you will learn principles for how to set achievable goals and strategies for ensuring that you'll follow through to success.

Saturday, November 16, 2013

Part 2

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

(Recommended for 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.

Speakers

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

Phil Clifford, Ph.D., *Medical College of Wisconsin, Milwaukee, WI*

Session 3 Location: Jackson A/B

GCAT, Synthetic Biology, and a Summer Faculty Workshop Opportunity

Sponsored by the Genome Consortium for Active Teaching (GCAT)

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

The Genome Consortium for Active Teaching (GCAT) is an organization of faculty dedicated to improving the resources available for teaching genomics to undergraduates. Synthetic biology is a dynamic, young field that incorporates engineering principles and mathematical modeling with molecular biology techniques to produce novel genetic devices with applications in energy, the environment, medicine, and computation. Synthetic biology pulls together the perspectives of many disciplines to shed new understanding on biological processes. This field is full of opportunities for undergraduate research.

Speaker

Malcolm Campbell, Ph.D., *Davidson College, Davidson, NC*

4:45 p.m. – 5:45 p.m. **Concurrent Professional Development Sessions** *(Two Session Options)*

Session 1 Location: Washington B

Graduate School Experience: My Personal Story

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

Hear graduate students share their experiences in discussions that include goal setting, selecting a mentor, time management, and balancing academic and social activities.

Moderator

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

Speakers to Be Determined

Session 2 Location: Presidential Boardroom A

Summer Research Programs – Essential Components of the Graduate School Application Process

(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) how to 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*

Roberta Pokphanh, Ph.D., *University of Kansas, Lawrence, KS*

5:45 p.m. – 7:30 p.m. **FREE TIME! FREE TIME! FREE TIME!**

Continued on next page

Saturday, November 16, 2013

7:30 p.m. – 9:45 p.m.	**Banquet, Conference Wrap-up, Awards Ceremony**	
	Conference Wrap-up ***John Fitzgerald Gates, Ph.D.,*** *Criticality Management Consulting, New York, NY*	Location: Delta Ballroom
	Student Presentation Awards Ceremony	Location: Delta Ballroom
	Concluding Remarks ***Clifford W. Houston, Ph.D.,*** *University of Texas Medical Branch, Galveston, TX*	Location: Delta Ballroom
9:45 p.m. – 10:15 p.m.	**Photo Session for ABRCMS Presentation Award Winners**	Location: Delta Lobby
10:30 p.m. – 2:00 a.m.	**"Nashville Music City"-Themed Dance and Social (All Are Invited)**	Location: Presidential Ballroom A-E

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 14, 2013 2:45 p.m. – 4:30 p.m.

Eberhard Voit, Ph.D.
Georgia Institute of Technology

Yolanda Vasquez, Ph.D.
Oklahoma State University

Andrea Morris, Ph.D.
Columbia University

Kenneth Olden, Ph.D., Sc.D.
U.S. Environmental Protection Agency

Debra Furr-Holden, Ph.D.
Johns Hopkins University

Richard King, M.D., Ph.D.
University of Utah

Ainissa Ramirez, Ph.D.
Yale University

Bruce Jackson, Ph.D.
Massachusetts Bay Community College

"Very well run. Excellent event with highly motivated prospective students. Looking forward to attending next year. Conference was very well-organized, thank you so much for all the effort and hard work!"

(Exhibitor)

Speaker Biographies

Conference Speakers

Howard G. Adams, Ph.D.

Howard G. Adams is president and founder of H.G. Adams & Associates, Inc., a consulting company that provides a full range of career, personal, and professional development services to educational, governmental, and industrial organizations. Adams served as executive director of the National Consortium for Graduate Degrees for Minorities in Engineering and Science, Inc. (the GEM program), headquartered at the University of Notre Dame. He has written extensively in the areas of workforce development, student programs, mentorship program development, and program evaluation and has authored or coauthored more than 15 self-help guides and handbooks. Adams has received numerous awards and citations recognizing his work, including the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. In 1999, he was named a 20th Century Outstanding Educator by *Black Issues in Higher Education*. Before joining GEM, Adams was vice president for student affairs at Norfolk State University. He holds a bachelor's degree from Norfolk State University, a master's degree from Virginia State University, and a doctorate from Syracuse University.

John Augusto, Ph.D.

John Augusto is assistant dean in the Office of Research and Graduate Studies at the University of Kansas, overseeing the graduate application processing center for the main campus. He has more than 15 years of experience with graduate admissions. Augusto authored a study with the Educational Testing Service and the National Association of Graduate Admissions Professionals on student use of the Internet in selecting graduate programs.

C. Gita Bosch, Ph.D.

C. Gita Bosch has 20 years of academic leadership experience and a seven-year background in laboratory biomedical research. As associate dean at both Mount Sinai School of Medicine and Memorial Sloan-Kettering Cancer Center, she has served as a minority student advocate for over 20 years. Bosch has also served on an American Association of Medical Colleges (AAMC) advisory group that looks at health disparities in biomedical research and the biomedical workforce in the nation. For almost 20 years, she has been collaborating with organizations that work with underrepresented undergraduate and graduate students such as ABRCMS, Society for Advancement of Chicanos and Native Americans in Science, and MHPF. Bosch currently serves on external advisory committees for the Postbaccalaureate Research Education Program (PREP) and the MARC and RISE programs. As an elected member of the steering committee of the AAMC GREAT Group, she founded and chaired the Gateway for Aspiring Biomedical Scientists Committee, which created and launched a resource website for trainees at all levels. Bosch has a long history of leading professional development workshops on topics that include applying to graduate school, interviewing, leadership, networking, writing, time management and communications skills. She has also served as a consultant for the Case Western Reserve University Office of Inclusion, Diversity and Equal Opportunity, helping guide the preparation of a diversity strategic action plan for the University, and for the Association of UNCF/Merck Fellows, helping to establish this professional association of African American biomedical scientists as a national presence.

Loretta Brancaccio-Taras, Ph.D.

Loretta Brancaccio-Taras is a professor in the Department of Biological Sciences at Kingsborough Community College and a staff member of the Brooklyn Biotechnology Bridge program. She teaches the courses Microbiology in Health and Disease (to allied health students) and General Microbiology (to biotechnology students and other biology majors). Her research has focused on antibiotic production by marine actinomycetes. In 2005, she was selected to participate in the American Society for Microbiology's Biology Scholars Program to study the effectiveness of problem-based learning in microbiology classes.

Angela Byars-Winston, Ph.D.

Angela Byars-Winston is an associate professor in the Department of Medicine, Division of General Internal Medicine, at the University of Wisconsin. Her research interests include the examination of cultural influences on career development, especially for racial and ethnic minorities and women in the sciences, engineering, and medicine. Specifically, she has focused on testing the validity of theoretical models to explain and predict academic and career outcomes using social cognitive theoretical approaches. In 2010, Byars-Winston was awarded a multiyear R01 grant from the National Institutes of Health as principal investigator of a project that measures and tests critical factors in research training interventions for mentors of ethnically diverse mentees in biological science. For Byars-Winston's efforts to diversify science fields, President Barack Obama's Winning the Future initiative selected her as a Champion of Change. Byars-Winston completed a predoctoral clinical internship at the University of Maryland–College Park and received her doctorate in counseling psychology from Arizona State University. She was a KL2 scholar in the Institute for Clinical and Translational Research Development Program at the University of Wisconsin School of Medicine and Public Health and is a researcher in the university's Center for Women's Health Research.

A. Malcolm Campbell, Ph.D.

Malcolm Campbell is a professor of biology and the director of the James G. Martin Genomics Program at Davidson College. He is the founding director of the Genome Consortium for Active Teaching (GCAT), which connects undergraduates with research-quality genomic learning materials. With his colleague Laurie Heyer, he wrote the first true genomics textbook for undergraduates, *Genomics, Proteomics and Bioinformatics*, now in its second edition. He won the American Society for Cell Biology's Bruce Alberts Excellence in Education Award and the Hunter-Hamilton Love of Teaching Award from Davidson College. He has served as the co-editor-in-chief of *CBE-Life Sciences Education* and is a charter member of the Society for the Advancement of Biology Education Research. His scholarship covers both education research and undergraduate-driven synthetic biology. Heyer and Campbell collaborate with their students to design and build bacterial computers that solve math problems. Campbell earned his doctorate in cell and molecular biology from the Johns

Hopkins University in 1992 and was awarded a Pew Teacher-Scholar postdoctoral fellowship, where he studied under Jan Serie at Macalester College.

Philip Clifford, Ph.D.

Phil Clifford is an associate dean for postdoctoral education and a professor of anesthesiology and physiology at the Medical College of Wisconsin. He has a longstanding interest in postdoctoral issues and was one of the founding members of the advisory board of the National Postdoctoral Association. As a part of FASEB's Science Policy Committee on Training and Careers, he was a coauthor of the *Individual Development Plan for Postdoctoral Fellows*. He also contributed to the *Compact Between Postdoctoral Appointees and Their Mentors* as a member of the AAMC (Association of American Medical Colleges) GREAT (Graduate Research, Education, and Training) Group Postdoctorate Section. Clifford heads an active research program that is investigating the physiological mechanisms regulating skeletal muscle blood flow during exercise. His research laboratory has been funded by the NIH since 1988, with additional funding from the American Heart Association and the Department of Veterans Affairs. He is a fellow of the American Heart Association and the American College of Sports Medicine and serves on the editorial boards of several physiological journals. He is also a consultant in the medical device industry.

Lori M. Conlan, Ph.D.

Trained as a biochemist, Lori M. Conlan received her bachelor's degree in biochemistry from Michigan State University and her doctorate in biochemistry and biophysics from Texas A&M University. She worked for several years as a postdoc at the Wadsworth Center, New York State Department of Health, before transitioning from the lab to focus on career issues for the next generation of scientists. Conlan started as the director of the Science Alliance, an international career development program for graduate students and postdocs sponsored by the New York Academy of Sciences. She now is at the NIH Office of Intramural Training & Education, assisting the 4,000 NIH postdocs in their personal career choices. Conlan is the director of two offices, the NIH Office of Postdoctoral Services and the NIH Career Services Center. She speaks at universities and institutions around the nation on career development topics for young scientists. Additionally, she volunteers as a board member for the National Postdoctoral Association.

Victor DiRita, Ph.D.

Professor Victor DiRita is a member of the Unit for Laboratory Animal Medicine and the Department of Microbiology and Immunology at the University of Michigan Medical School (UMMS). He joined the faculty in 1991 and was appointed assistant dean for graduate and postdoctoral studies in 2008. DiRita completed his doctorate in biological sciences at Purdue University and received postdoctoral training as a research fellow in microbiology and molecular genetics at Harvard Medical School. He has used a variety of in vitro and in vivo models of virulence to perform significant work in the areas of gene regulation and gene discovery in pathogens. DiRita's research, which has been supported by the National Institutes of Health, the U.S. Department of Agriculture, and the University of Michigan Endowment for the Basic Sciences, has led to 53 original research papers published in peer-reviewed publications. He has supervised more than 30 postdoctoral fellows and presented his work at several scientific conferences in the United States and abroad. He serves as the Divisional Group II representative for the American Society for Microbiology, representing members of one of the largest divisions within the Society. At UMMS, DiRita serves as director of the Mechanisms of Microbial Pathogenesis Training Program, an NIH-funded pre- and postdoctoral training program that he started in 1998. He also serves as vice-chair for the Biological Sciences Scholars Search Committee.

Shawn R. Drew Gaillard, Ph.D.

Shawn Drew Gaillard is a program director at the National Institute of General Medical Sciences, National Institutes of Health (NIH), where she manages research and research training programs aimed at increasing the number of historically underrepresented populations in leadership positions in science. Drew also manages the biostatistics T32 training grants and the R01 research grants from the Biostatistical Methods and Research Design Study Section. Before her current position, Drew was director of the NIH Academy, an intramural postbaccalaureate research training program. She holds a bachelor's degree in chemistry from Spelman College and a doctorate in biology from Howard University. Drew conducted her doctoral dissertation research and postdoctoral work at the NIH National Institute of Diabetes and Digestion and Kidney Diseases.

Joaquín Espinosa, Ph.D.

Joaquín Espinosa, a molecular biologist at the University of Colorado at Boulder, is studying one of the most prominent genes in cancer biology: the *p53* tumor suppressor gene. He has made important contributions to understanding how p53 regulates the expression of other proteins to stop tumor growth. His technical papers and writings are often teeming with analogies; for instance, he refers to *p53* as the CEO of a large company (the cell). By itself, it doesn't do much, but it makes important decisions based on input from many different sources, proteins, and other cofactors, and it delegates tasks. "The CEO is one of the most heavily connected persons within a company," says Espinosa. "It's the same with *p53* and the cell. You don't understand how it works alone. You have to know its companions." Espinosa is a native of Argentina and the first in his family to attend college.

Ruth R. Faden, Ph.D.

Ruth Faden is the Philip Franklin Wagley Professor of Biomedical Ethics and the executive director of the Johns Hopkins Berman Institute of Bioethics at Johns Hopkins University. She is also a senior research scholar at the Kennedy Institute of Ethics at Georgetown University. Faden serves on the Advisory Board of Incentives for Global Health, the nonprofit behind the Health Impact Fund. She chaired the President's Advisory Committee on Human Radiation Experiments established by Former President Bill Clinton in 1994 and has served on several other national advisory committees and commissions. Faden is a notable commentator

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on bioethics in several media outlets as well a guest speaker at numerous conferences. She is a recipient of the Golden Apple Award at the Johns Hopkins School of Public Health. Faden holds a bachelor's degree from the University of Pennsylvania, a master's degree (General Studies in Humanities) from the University of Chicago, and a Master of Public Health and doctorate (Program in Attitudes and Behavior) from the University of California–Berkeley.

Victoria H. Freedman, Ph.D.

Victoria Freedman is an associate dean for graduate programs in biomedical sciences at the Albert Einstein College of Medicine. She is also an assistant professor in the college's microbiology and immunology department.

Debra Furr-Holden, Ph.D.

Debra Furr-Holden is an epidemiologist with expertise in drug and alcohol dependence epidemiology, psychiatric epidemiology, and prevention science. Her predoctoral training at Johns Hopkins University focused on cross-national classification and identification of substance use disorders, and her postdoctoral training focused on developmental pathways from childhood to young adulthood and the malleability of these paths, including in-depth evaluation of risk and protective factors for adolescent development and the transition into young adulthood. Her previous research experience includes evaluation of the NIDA (National Institute on Drug Abuse)-funded "Periodic Follow-up of Two Universal Preventive Intervention Trials," a longitudinal follow-up of two universal preventive interventions implemented in 1993 in nine Baltimore City Public Schools in a cohort of entering 1st graders (see Furr-Holden, et al., 2004). Furr-Holden's other research areas include methodological issues surrounding the design and evaluation of interventions, including sampling, program modeling, and innovative statistical and evaluation approaches as well as measurement of drug and alcohol use disorders. She has also acquired training and is developing expertise in environmental approaches to prevention.

Francis Garing, B.S.M.E.

Through studies in mechanical engineering and industrial design at the Georgia Institute of Technology, Francis Garing trained himself to be a multidisciplinary problem solver. This combined with his work at various engineering, research, and design firms has given him a grasp of frontier development in both industry and academia. Garing's academic research is rooted in various research and development groups at the Georgia Institute of Technology and abroad. He has worked for the Sustainable Design and Manufacturing Lab in developing multimodal transportation network interfaces for reducing the transportation-related carbon footprint and for the Institute for Bioscience and Bioengineering on mechanical testing of new surgical processes and on an in vivo femural fixator implant. His academic research and design work also spans globally with the development of an innovative, real-time diagnostic system based on fiber-optic localized plasmon resonance for National Chung Cheng University in Taiwan. Currently employed at Formation Design Group, Garing engages in multidisciplinary design optimization on various projects that require an aesthetic eye, engineering proficiency, and manufacturing sensibility. Proficient in concept ideation, prototype development, and design refinement, most of his work involves the translation of open-ended design problems and constraints into thoughtfully engineered solutions.

John Fitzgerald Gates, Ph.D.

John Fitzgerald Gates is a co-founder of the Criticality Consulting Management Group. Before holding this position, he served as Associate Dean for Administration and Finance at Harvard College and previously was Special Assistant to the President and the Provost and Lecturer of Higher Education at the University of Vermont. There, Gates advised the executive leadership, oversaw the Diversity and Equity Unit and university events, participated on the master planning counsel, and represented the university to the public. For nearly a decade prior, Gates served New York University (NYU) in numerous capacities, including as executive director of global operations, with oversight of NYU campuses in Great Britain, Italy, the Czech Republic, and Argentina. He has also served NYU as assistant provost, associate director of the Africana Studies Program and the Institute of African-American Affairs, and associate director of the Faculty Resource Network. He is a fellow of the British-American Project and has served on numerous organizational boards. Gates holds a bachelor's degree in English from Morehouse College, a master's degree in higher education administration from NYU, and a doctorate in organizational leadership from the University of London.

Gregory D. Goins, Ph.D.

Gregory Goins is an associate professor of biology and the principal investigator on the NSF-sponsored Integrative Biomathematical Learning and Empowerment Network for Diversity (iBLEND) Project. iBLEND is a NSF-supported undergraduate biomathematics initiative with an overall goal to encourage, enable, and support students to do research at the interface of mathematics and biology. This goal is achieved by long-term immersion of students in cutting-edge research activities, coupled with close curricular ties and training activities between the mathematics and biology departments at North Carolina A&T State University. The intellectual focus is on the development of mathematical skills in set theory, linear algebra, differential equations, number theory, numerical analysis, stochastic and deterministic processes, topology, and computational mathematics. This will aid in the development of analytical argumentative strategies to better understand high-throughput biological data, which includes molecular genetics, host-pathogen microbiology, comparative and functional genomics, phylogenetics, ecology, and genomic instability and oncology.

Clifford W. Houston, Ph.D.

Clifford Houston is a tenured professor at the University of Texas Medical Branch (UTMB), where he is also an associate vice president for educational outreach. In addition, he is the original holder of the Herman Barnett Distinguished Professorship in Microbiology and Immunology. Houston serves or has served on many boards in Galveston, Texas. He was chair of the University of Texas System Committee on the Advancement of Minorities and is cochair of the Galveston County Science Fair. Houston has received numerous awards for his work in the community, including the UTMB Kempner Award, the Martin Luther King, Jr., Service Award, and the

Presidential Award for Science, Math, and Engineering Mentoring. Funding to support the many programs and activities of Houston's office comes from the National Science Foundation, the Howard Hughes Medical Institute, the Harris and Eliza Kempner Fund, the National Institutes of Health, the Houston Livestock Show and Rodeo, and the UTMB President's Cabinet Award. Houston is a past president of the American Society for Microbiology (ASM) and a past chair of the ASM Education Board.

Michael Ibba, Ph.D.

Mike Ibba is professor and chair of the Department of Microbiology and co-director of an NIH-sponsored graduate training program in cellular and molecular biochemistry at Ohio State University. He obtained an undergraduate degree in biochemistry from Imperial College in London and then completed doctoral work at the University of Manchester. After graduating, he undertook both industrial and academic postdoctoral positions in Switzerland and the United States before setting up his own independent research group. After starting out as a faculty member in Copenhagen, Denmark, Ibba moved to the Department of Microbiology at Ohio State University, where his lab now works on various aspects of microbial protein synthesis and antibiotic resistance.

Bruce Jackson, Ph.D.

Bruce Jackson is a professor and the head of the biotechnology programs at Massachusetts Bay Community College. His work focuses on how DNA, in conjunction with other tools, can help solve mysteries of ancestry and forensics. Jackson offers the world's only forensic DNA analysis program for judges and the legal profession. The biggest challenge is to motivate the underserved student who has potential. Jackson's commitment to "reach and teach" this population has produced eight Goldwater Congressional Scholars, and 80% of his graduates have published scientific papers. The Jackson philosophy is to set higher goals for the associate's degree, challenge the student to become a scientist, and use the research and development skills of a Ph.D. candidate.

Lisa John

Lisa John is program director of predoctoral and postdoctoral fellows at The Jackson Laboratory, has a M.Ed. from Georgia State University and extensive experience in teaching and education outreach. Ms. John provides day-to-day management for The Jackson Laboratory's (JAX's) predoctoral and postdoctoral trainingprograms. She directs the Education Office staff to coordinate training and ensure that the program, mentors, and trainees receive excellent administrative support. She is co-Director of a new "Whole Scientist" course that will be offered annually for graduate students and postdoctoral fellows to provide career development in areas beyond their research project. The program includes imbedded practicum during the academic year in areas such as science communication, teaching and mentor, business of science. Lisa also works with postdocs in creating Individual Development Plans to assist in career planning and profession networking. Lisa also oversees professional development workshop on grantsmanship, ethics and other topics of choice. Ms. John has expertise in program development and15 years of experience in the administration of training and education programs.

Richard D. King, M.D., Ph.D.

Richard D. King joined the University of Utah in September 2009 as assistant professor in the Department of Neurology in the Center for Alzheimer's Care, Imaging, and Research, where he also serves as director of the Alzheimer's Image Analysis Laboratory. Before coming to Utah, King was an assistant professor of neurology at the University of Texas Southwestern Medical Center. His research uses multidisciplinary translational approaches to understand Alzheimer's disease and related neurodegenerative disorders. His current focus is the use of advanced neuroimaging analysis tools to study morphometric changes in the brain associated with neurodegenerative diseases. King received a bachelor's degree in bioengineering from Texas A&M University, where he graduated cum laude and with university and foundation honors. He received his doctorate in neuroscience and his medical degree from the Baylor College of Medicine, where he also interned in internal medicine. In 2002, King received the first Annual Richard R. Dickason Outstanding Physician Scientist award from Baylor College of Medicine's Medical Scientist Training Program. He completed his neurology residency at Harvard Medical School, followed by a fellowship in behavioral neurology and cognitive neuroscience at the University of Texas at Dallas. King is a member of the American Academy of Neurology, Society for Neuroscience, Cognitive Neuroscience Society, and National Medical Association. He has been the recipient of numerous awards, including a prestigious grant from the Robert Wood Johnson Foundation's Harold Amos Medical Faculty Development Program.

Charla Lambert, Ph.D

Charla Lambert completed her doctorate in September 2008. She was a student of Maynard Olson, Ph.D., at the University of Washington, but relocated to the lab of Joshua Akey, Ph.D., when Olsen went on sabbatical as a prelude to retirement. Lambert's thesis focused on human evolutionary genomics, with an emphasis on the evolutionary history of the DARC gene. Following a postdoctoral fellowship in Sarah Tishkoff's laboratory at the University of Pennsylvania, Lambert now works at Cold Spring Harbor Laboratory.

David Lacks, Jr.

David "Sonny" Lacks has enthralled audiences across the country by talking about his mother Henrietta Lacks and her important contribution to modern medicine. The international success of Rebecca Skloot's *New York Times* bestseller, *The Immortal Life of Henrietta Lacks*, has left people keenly interested in the Lacks family and Henrietta's legacy. In his appearances, Sonny Lacks shares with audiences what it meant to find out—decades after the fact—that his mother's cells were being used in laboratories around the world, bought and sold by the billions. His visits put a personal face on big issues such as the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over "informed consent," including whether we control the stuff we're made of and should share in the profits.

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Steven P. Lee, Ph.D.

Steve Lee is currently the assistant director of the CLIMB (Collaborative Learning and Integrated Mentoring in the Biosciences) program at Northwestern University. As a professional development initiative for doctoral students in the biosciences, the CLIMB program is dedicated to creating a diverse community of young scientists. In his current position, Lee is involved in recruiting students for the program, training students in the early and critical stages of graduate school, evaluating program activities, and assisting the program director in increasing the number of underrepresented minority graduate students in the biosciences at Northwestern. Prior to Northwestern, Lee served on the faculties of Wheaton College and Roosevelt University. Lee earned his bachelor's degree in chemistry from Carnegie Mellon University and his doctorate in organic chemistry from the University of Illinois at Urbana-Champaign.

Bill Lindstaedt, M.S.

Bill Lindstaedt has been helping scientists and engineers make career decisions for nearly 20 years. He is the director of the Office of Career and Professional Development at the University of California–San Francisco (UCSF). In addition to his administrative responsibilities at UCSF, his career advising work focuses on helping predoctoral and postdoctoral research scientists with their career and professional development issues. Lindstaedt has particular expertise in working with life and health scientists as they transition from academic positions to careers in biotechnology and other nonacademic settings. He holds a bachelor's degree in chemical engineering from the Rose-Hulman Institute of Technology and a master's degree from the joint counseling psychology and higher education/student affairs programs at Indiana University. Prior to coming to UCSF in 2001, Lindstaedt's career-counseling experience included work with engineering and science students at Case Western Reserve University and the Rose-Hulman Institute of Technology.

Jon R. Lorsch, Ph.D.

In August 2013, Jon R. Lorsch became the director of the National Institute of General Medical Sciences (NIGMS), which funds basic research in cell biology, biophysics, genetics, developmental biology, pharmacology, physiology, biological chemistry, biomedical technology, bioinformatics and computational biology. Lorsch came to NIGMS from the Johns Hopkins University School of Medicine, where he was a professor in the Department of Biophysics and Biophysical Chemistry and received six teaching awards. A leader in RNA biology, Lorsch studies the initiation of translation, a major step in controlling how genes are expressed. He has one patent and one patent application related to his translation research. Lorsch is as passionate about education as he is about research. While at Hopkins, he worked to reform the curricula for graduate and medical education, spearheaded the development of the Center for Innovation in Graduate Biomedical Education, launched a program offering summer research experiences to local high school students, and advised dozens of undergraduate and graduate students and postdoctoral fellows. Lorsch holds a bachelor's degree in chemistry from Swarthmore College and a doctorate in biochemistry from Harvard University. He conducted postdoctoral research at Stanford University. Lorsch is the author of more than 60 peer-reviewed research articles, book chapters and other papers. He is past editor of *Methods in Enzymology* and a reviewer for numerous scientific journals. Lorsch's other activities include membership on the American Society for Biochemistry and Molecular Biology's mentoring committee, the RNA Society's board of directors and NIH review committees.

Richard McGee, Ph.D.,

Richard McGee is Associate Dean for Faculty Recruitment and Professional Development and Associate Professor of Medical Education at Northwestern University, Feinberg School of Medicine. Prior to joining Northwestern University in 2007, he held faculty and administrative leadership positions associated with the development of Ph.D., M.D./Ph.D., and M.D. scientists at Georgetown University, the Medical College of Ohio, the Mayo Clinic College of Medicine, and National Institutes of Health. At Mayo, McGee initiated the first postbaccalaureate research training model funded by National Institutes of Health. He was also one of several advisors to NIGMS during its creation of the Postbaccalaureate Research Education Program. McGee has led several National-Institutes-of-Health-funded studies of student development and has a special interest in helping students grow through the purposeful use of a period of time between college and graduate school. McGee's goal is to stimulate thinking, experimentation, and research into student learning and professional development.

Sharon L. Milgram, Ph.D.

Sharon Milgram received a doctorate in cell biology and anatomy from Emory University in 1991 and completed postdoctoral work at the Johns Hopkins University before joining the faculty at the University of North Carolina at Chapel Hill. She is currently the director of the Graduate Partnerships Program and the Office of Intramural Training and Education at the National Institutes of Health (NIH), where she also runs an active research lab in the NIH Intramural Program. Milgram teaches and advises young scientists and has served on the admissions committees for several Ph.D. and M.D./Ph.D. programs.

Sharon L. Milgram, Ph.D.

Sharon Milgram received a bachelor's degree in physical therapy from Temple University and a doctorate in cell biology from Emory University. She completed a postdoctoral fellowship at the Johns Hopkins University before joining the faculty at the University of North Carolina at Chapel Hill (UNC) in 1994. At UNC, Milgram rose to the rank of full professor with tenure in the Department of Cell and Developmental Biology. Her research focuses on cell signaling and protein trafficking in polarized cells and has been published in several journals, including the *Journal of Cell Biology*, the *Journal of Clinical Investigation*, the *Proceedings of the National Academy of Sciences*, and the *Journal of Biological Chemistry*. Her research was supported by grants from the NIH, the Cystic Fibrosis Foundation, and the American Heart Association. Milgram held a number of administrative positions at UNC, including associate director of the Medical Scientist Training Program, director of the Interdisciplinary Biomedical Sciences Graduate Program, and the

director of the Summer Undergraduate Research Experience. She founded and advised the UNC Office of Postdoctoral Services and served on the advisory committee of the Sigma Xi National Postdoc Survey. Milgram has served as principal investigator on a number of nationally funded training grants, including an NSF-funded program for undergraduate students, NIH grants to support predoctoral students in cell and molecular biology, and an Initiative to Maximize Student Diversity grant spanning the Schools of Medicine and Public Health at UNC. In 2007 Milgram joined the NIH Office of the Director as the director of the Office of Intramural Training and Education. She is also senior scientist in the NIH National Heart, Lung and Blood Institute.

Patricia Minor

Patricia Minor is a certified professional etiquette trainer. A graduate of the Emily Post Etiquette Institute, Minor is the founder and executive director of the Etiquette School of Maryland, LLC, located in Howard County, Maryland. She has been a teacher for more than 20 years and enjoys working with children and adults. As a director of sales with America's best-selling brand of skin care and beauty products, she traveled throughout the country training, educating, motivating, and inspiring hundreds of women to build their own successful businesses. Minor later became president and CEO of her own corporate gift marketing corporation where she supervised, trained and presented corporate seminars on multicultural client etiquette. She has studied and practiced etiquette and protocol internationally.

Beronda Montgomery, Ph.D.

Beronda Montgomery is an associate professor in the MSU-DOE Plant Research Lab and the Department of Biochemistry and Molecular Biology at Michigan State University. She received a doctorate in plant biology in 2001 from the University of California–Davis. Montgomery was awarded a National Science Foundation (NSF) Postdoctoral Fellowship for her postdoctoral studies at Indiana University and was awarded an NSF CAREER Award in 2007. Her long-term research interest is understanding the dynamic molecular processes used by photosynthetic organisms, including cyanobacteria and plants, to adapt to changes in their photoenvironment. Montgomery's lab investigates the regulation of pigmentation and cellular morphology and elongation in responses to changes in the available wavelengths and changes in intensity of light.

Andrea Morris, Ph.D.

Andrea Morris is an assistant professor of biology (and class of '91 graduate) at Haverford College. Under the auspices of the National Institute for Neurological Diseases and Stroke, Morris received an National Institutes of Health Career Development Award for junior faculty members. The five-year grant, totaling over $600,000—the first of its kind awarded to a faculty member at a small liberal arts college—supports Morris' exploration into the molecular mechanisms of visual system development, focusing on a particular gene called, yes, "sonic hedgehog" and its role in retinal axon guidance (the process of connecting the eye to the appropriate parts of the brain that allow for visual perception). She completed her bachelor's degree at Haverford College and her master's and doctoral degrees from Princeton University.

Sandra Murray, Ph.D.

Sandra Murray is a professor of cell biology and physiology at the University of Pittsburgh School of Medicine. In 1999, Murray became the first African-American woman to be named a full professor at the school, following her becoming the school's first tenured African-American professor in 1987. Murray studies cell-to-cell communication, which occurs through "pores" or "channels" composed of a membrane protein called connexins. Through communication, cell populations can control the rate at which they grow and how they respond to the environment. When she demonstrated that cells from one tissue could control the cells from another tissue as a result of direct movement of molecules between the two cell types, Murray was one of the first scientists to demonstrate functional communication between cells.

Kathy Nagel, M.S.

Kathy Nagel is a research analyst and project managing assistant with the Georgia Tech Research Institute Simple BoS interdisciplinary group. She is a graduate student and former lab technician with several years' research experience in aquatic chemical ecology and animal behavior. Her specialties include research, project management, interdisciplinary teams, renewable energy, solar photovoltaics, data analysis, aquatic chemical ecology, scientific papers, experimental design and analysis.

Kenneth Olden, Ph.D., Sc.D., L.H.D.

Kenneth Olden is the third director of the National Institute of Environmental Health Sciences (NIEHS) and the second director of the National Toxicology Program. Olden is a cell biologist and biochemist by training and has been active in cancer research for almost three decades. He was director of the Howard University Cancer Center and professor and chair of the Department of Oncology at Howard University Medical School (1985–1991) in Washington, D.C., before coming to the NIEHS. Olden has served on the editorial boards of cancer and cell biology journals, is a member of a number of professional societies, and was named by President George H.W. Bush to the National Cancer Advisory Board in 1991. He has participated widely as an invited speaker at scientific symposia and seminars and as a reviewer for programs in his field, and has authored and co-authored more than 200 publications. Because of Olden's outstanding contributions to his field, he was elected to membership in the prestigious Institute of Medicine of the National Academy of Sciences in 1994 and is the recipient of numerous additional honors and awards. Olden continued his laboratory research at NIEHS as the principal investigator in the Metastasis Group of the Laboratory of Molecular Carcinogenesis through September 2008, at which time he left the institute to become the founding dean of the CUNY (City University of New York) School of Public Health at Hunter College.

Continued on next page

Joel Oppenheim, Ph.D.

Joel Oppenheim holds a bachelor's degree in zoology and genetics from the University of Wisconsin and master's and doctoral degrees in medical microbiology from Loyola University School of Medicine. He was an National Institutes of Health postdoctoral fellow at the New York University (NYU) School of Medicine in the Department of Microbiology. Oppenheim first served on the NYU School of Medicine faculty as an assistant professor and then as an associate professor of microbiology for more than 20 years. In 1994, he was appointed associate dean for graduate studies and director of NYU's Sackler Institute of Graduate Biomedical Sciences. Recently he was promoted to senior associate dean of the medical school. Oppenheim serves on the NYU School of Medicine's M.D. and M.D./Ph.D. admissions committees, and he chairs the Ph.D. admissions committee. He founded and directs the NYU Summer Undergraduate Research Program. Oppenheim is an active member of the American Society for Microbiology (ASM) and has served on various ASM committees. He is active in the Leadership Alliance and serves on the steering committee of the Graduate Research, Education, and Training (GREAT) Group of the Association of American Medical Colleges.

Saundra Herndon Oyewole, Ph.D.

Saundra Owyewole is a professor of biology at Trinity Washington University and the former dean of the college of arts and sciences and dean of the faculty at Trinity. She has had the distinction of holding a Clara Boothe Luce Professorship in Microbiology. Oyewold has had a long association with the Association of American Medical Colleges, representing the National Association of Advisors for the Health Professions (NAAHP) in several capacities. She also served on the 2000 MCAT Program Review Committee. Oyewole has held a number of leadership positions in professional organizations, including terms as secretary and president of NAAHP, chair of the NAAHP Committee on Minority Affairs, chair of the American Society for Microbiology Committee on Minority Education, and vice-chair of the Aspen Institute Wye Faculty Seminar Governing Board. She has had the honor of testifying before the U.S. Congress on the status of women in science (representing the Association of Women in Science). Oyewole earned her bachelor's degree in zoology from Howard University, master's degree in microbiology from the University of Chicago, and doctorate in microbiology from the University of Massachusetts–Amherst. She is a member of Phi Beta Kappa and Beta Kappa Chi. Oyewole has been chair of Trinity's Health Professions Advisory Committee for 28 years and was the founding director of the Post-Baccalaureate Premedical Certificate Program. She spent two years at the National Science Foundation as a program director in the Division of Undergraduate Education.

Michael L. Penn, Jr., M.D., Ph.D.

Michael L. Penn, Jr., is vice president for strategy at the Gladstone Institutes and chief executive officer of the Gladstone Foundation. Penn oversees the communications department and the core laboratories and provides leadership for the conception, analysis, and implementation of Gladstone's strategic initiatives—including enhancing Gladstone's ability to attract the most talented individuals of diverse backgrounds to the Gladstone team. Prior to joining Gladstone, Penn held marketing and business development roles at Genentech Inc. He helped advance innovations in drug development and served in product management for Herceptin®—a groundbreaking and personalized treatment for women with an aggressive form of breast cancer. In 2002, Penn was appointed to the San Francisco Health Commission, the policy-making board for the city's Department of Public Health. He served as the board's Commissioner from 2002 to 2004. In 2001, Penn co-founded Building Diversity in Science, a nonprofit dedicated to using science as a platform to empower underrepresented minority students. As a medical student at the University of California–San Francisco (UCSF), Penn was awarded the Chancellor's Martin Luther King, Jr. Award in recognition of his contributions to the campus community. From 1996 to 2000, he was a graduate student at the Gladstone Institute for Virology and Immunology. Penn earned a bachelor's degree in biology from Morehouse College (summa cum laude) and medical and doctoral degrees in biomedical sciences from UCSF.

Gary Pestano, Ph.D.

Gary Pestano developed his career in industry by focusing on the development and commercialization of molecular diagnostic tests. Pestano has held several positions in R&D and has developed a number of tests and technologies for use with therapeutics in oncology. Currently, Pestano is the head of product development and commercial laboratory operation at Biodesix, Inc. He is also the New York State laboratory director for the Biodesix CLIA (Clinical Laboratory Improvement Amendments)-certified laboratory. Previously Pestano was employed at Roche, Northwest Biotherapeutics, and Physiome Sciences. He has also developed key academic collaborations as an active part of developing products. Pestano received his doctorate in cell and molecular biology from the Graduate Center of the City University of New York. He conducted his postdoctoral training in immunology with Harvey Cantor, M.D., at the Dana Farber Cancer Institute.

Roberta Pokphanh, Ph.D.

Roberta Pokphanh is program coordinator for graduate student professional development in the Office of Graduate Studies at the University of Kansas (KU). She works with university departments and graduate student organizations to develop professional development training suited to the diversity of disciplines at KU, and with faculty applying for federally funded training grants. Pokphanh received her doctorate from the University of Kansas in 2009.

Clifton A. Poodry, Ph.D.

Clifton Poodry is director of the Minority Opportunities in Research Division at the National Institute of General Medical Sciences (NIGMS), National Institutes of Health (NIH). Poodry is responsible for developing and implementing NIGMS policies and plans for minority research training programs. He also serves as a liaison between NIGMS and NIH, other federal agencies, and the scientific community. Before assuming this position in April 1994, Poodry was a professor of biology at the University of California–Santa Cruz, and the principal investigator on a $1 million Howard Hughes Medical Institute grant for undergraduate biological

sciences. He serves on several advisory boards (including those for the Headlands Indian Health Careers Program of the University of Oklahoma, the American Indian Science and Engineering Society, and the Society for the Advancement of Chicanos and Native Americans in Science [SACNAS]) and the advisory committee on Minority Science Education of the American Association for the Advancement of Science. Poodry is also a founding member of Open Mind, an association for the achievement of cultural diversity in higher education. He is a native of the Tonawanda Seneca Indian Reservation. Poodry earned both bachelor's and master's degrees in biology at the State University of New York at Buffalo and holds a doctorate in biology from Case Western Reserve University. He received the Ely S. Parker Award from the American Indian Science and Engineering Society in 1995 and the Distinguished Professional Mentor Award from SACNAS in 2004.

Ainissa Ramirez, Ph.D.

Ainissa Ramirez is a science evangelist who is passionate about getting the public excited about science. She was an associate professor of mechanical engineering and materials science at Yale University. The magazine of the Massachusetts Institute of Technology (MIT) named her as one of the world's "100 Top Young Innovators" for her contributions to transforming technology. She has been profiled by the *New York Times*, *Discover*, *Fortune*, CNN, ESPN, the *Hartford Courant*, and numerous scientific magazines. Ramirez received her training in materials science and engineering from Brown University (Sc.B.) and Stanford University (Ph.D.). Prior to working at Yale, she was a research scientist at Bell Laboratories, Lucent Technologies, in Murray Hill, New Jersey, where she did award-winning research. She has authored more than 50 technical papers, holds six patents, and has presented her work worldwide. She founded a company called Adhera Technologies to commercialize one of her inventions. She has lectured at Caltech, Columbia, Cornell, Harvard, MIT, Northwestern, Princeton, and Stanford. A staunch advocate for improving public understanding of science, her talk at TED on the importance of science, technology, engineering, and math (STEM) education generated widespread enthusiasm. At Yale, she was the director of the award-winning science lecture series for children called Science Saturdays and hosts two popular-science video series called *Material Marvels* and *Science Xplained*.

Jayne S. Reuben, PhD

Jayne Stewart Reuben is clinical associate professor in the Department of Biomedical Sciences at the University of South Carolina School of Medicine in Greenville (USCSOM). Prior to joining USCSOM in 2011, she was assistant professor in the Department of Biomedical Sciences at Baylor College of Dentistry. Reuben is the third-year medical pharmacology course director in addition to lecturing in graduate pharmacology and in the summer predental program. Reuben is a member of the FASEB/MARC Advisory Board and the Diversity Committee for the National Postdoctoral Association (NPA). She was elected to the NPA Executive Board during her postdoctoral training at the University of Michigan in the Department of Pathology. Reuben earned her doctorate in Pharmaceutical Sciences with a specialization in Pharmacology and Toxicology from Florida Agricultural and Mechanical University (FAMU). She is the recipient of awards and fellowships from many organizations including UNCF-MERCK, the American Foundation of Pharmaceutical Education, the Delores A. Auzenne Foundation, and the FAMU Faculty Development Program.

William Reznikoff, Ph.D.

William Reznikoff is a molecular biologist by training. His primary responsibility is directing the Marine Biological Laboratory's education program. Previously he was a senior research scientist in the JBPC (Josephine Bay Paul Center) continuing studies program that he started during 37 years as a professor of biochemistry at the University of Wisconsin. Reznikoff's graduate research studied bacterial viral DNA structure, and as a postdoctoral fellow, he studied the genomic elements controlling the lactose operon expression. Upon establishing his own lab at the University of Wisconsin, he continued his studies initiated as a postdoctoral fellow, which culminated in the first DNA sequence analysis of a bacterial gene system regulatory elements and in studies of how DNA sequence modulated recognition by RNA polymerase. Reznikoff then became interested in studying the structure of genes that encoded antibiotic resistances and, finally, in the molecular mechanisms leading to DNA transposition. The DNA transposition studies led to the first reported structural analysis of a protein, the DNA transposition complex – and to the determination of how this complex functions to excise and insert transposon DNA. His lab's work relied heavily on microbial genetic and biochemical approaches. Reznikoff also used DNA sequencing and, through collaboration, X-ray crystallography. The work on transposition led to several patents as well as a commercially available product used worldwide in next generation DNA sequencing.

Mary Sanchez Lanier, Ph.D.

Mary Sanchez Lanier is associate dean in the College of Sciences and a professor of microbiology at Washington State University (WSU). Lanier did her postdoctoral training at the Centers for Disease Control. Following that, she accepted a faculty position at WSU. Lanier's research focuses on the pathogenesis of viruses in their interactions with humans; she has studied the role of influenza virus in Reye's syndrome and the immunosuppressive effects of measles virus. Lanier chairs the American Society for Microbiology (ASM) Committee on Minority Education and is past chair of the review committees for the ASM Robert D. Watkins Graduate Research Fellowship and the ASM Microbiology Undergraduate Research Fellowship. She is also a reviewer for the Barry M. Goldwater Scholarship and Excellence in Education.

Nancy Schwartz, Ph.D.

Nancy Schwartz is director of the Kennedy Mental Retardation Research Center at the University of Chicago, where she is also a professor in the Departments of Pediatrics and Biochemistry and Molecular Biophysics. Schwartz is active on the university's developmental biology and molecular medicine committees, as well as in numerous institutional, governmental, and national boards and organizations. These include the National Institutes of Heatlh, the Association of American Medical Colleges, and the National

Continued on next page

Postdoctoral Association. She is the recipient of an Arthritis Foundation Fellowship and an American Heart Association Investigatorship, along with NIH Merit, Research Career Development, and Mentor of Excellence Awards. Schwartz holds bachelor's degrees in chemistry and master's and doctoral degrees in biochemistry from the University of Pittsburgh.

Grace Silva, B.S.

Grace Silva earned a bachelor's degree in bioinformatics and computational biology from the University of Maryland–Baltimore County, where as a Meyerhoff Scholar she was first introduced to biological and biomedical research opportunities. During her time as an undergraduate, she attended the Research Experience for Undergraduates at Princeton University and the Stanford Summer Research Program, where she developed an interest in cancer research. Currently, she is a bioinformatics and computational biology graduate student at the University of North Carolina–Chapel Hill. Her thesis work involves profiling copy number alterations in breast cancer using human tumors and mouse models.

Stacey Simon, Ph.D.

Stacey Simon is an American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellow at the National Science Foundation (NSF). She received her doctorate in plant pathology from Virginia Polytechnic and State University. Simon supports the NSF Directorate for Biological Sciences, Division of Molecular and Cellular Biosciences. Her interests focus on supporting research in emerging fields in biology, broadening participation in the biological sciences, science policy, government relations, science communication, and outreach.

Gayle Slaughter, Ph.D.

Gayle Slaughter is the senior associate dean of graduate sciences at Baylor College of Medicine (BCM). She received a bachelor's degree in chemistry from Northwestern State University and a doctorate in biochemistry from Iowa State University. Her postdoctoral fellowship at BCM was supported by an NIH National Research Service Award. She then received an NIH New Investigator Award. As an assistant professor at BCM, Slaughter continued NIH-funded studies of gene expression during spermatogenesis. She has been awarded 23 grants from NIH, NSF, and the Department of Defense to support her research and education projects, valued at more than $25 million. She has been an invited speaker at more than 30 national meetings and presented more than 400 seminars and workshops at regional, local, and college meetings. She has served as a reviewer for a number of journals, the Texas Heart Association, and both science and educational NIH and NSF grant study sections. Slaughter's emphasis is on training young scientists, especially those from disadvantaged and underrepresented populations, and more than 2,100 college students from across the nation have participated in the unique SMART Program she developed. Slaughter has directed numerous spinoff activities from the program. She served on and chaired the steering committee of the GREAT (Graduate Research, Education, and Training) Group and has also served on the program committee for the Society for Advancement of Chicanos and Native Americans in Science, the conference organizing committee for ABRCMS, and the Advisory Board for the National Human Genome Research Institute's Minority Action Plans. She is the first faculty member without an active research lab to be promoted to full professor in a basic science department at BCM. Slaughter is the recipient of numerous honors and awards, including the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring.

Keivan Stassun, Ph.D.

After earning bachelor's degrees in physics and in astronomy from the University of California–Berkeley in 1994, Stassun earned a doctorate in astronomy from the University of Wisconsin–Madison in 2000 and was a NASA Hubble Space Telescope postdoctoral research fellow before joining the faculty at Vanderbilt University in 2003. Now a professor of physics and astronomy at Vanderbilt, Stassun is also adjunct professor of physics at Fisk University and codirector of the Fisk-Vanderbilt Masters-to-PhD Bridge Program. A recipient of a CAREER award from NSF and a Cottrell Scholar Award from the Research Corporation, Stassun's research on the birth of stars and planetary systems has appeared in *Nature*, NPR's *Earth & Sky*, and more than 100 peer-reviewed journal articles. In 2007, the Vanderbilt Initiative in Data-Intensive Astrophysics was launched with Stassun as its first director. He serves on the executive committees of the Sloan Digital Sky Survey and the Large Synoptic Survey Telescope and served on the National Research Council's Decadal Survey of Astronomy and Astrophysics. In 2012, Stassun was named a fellow of the American Association for the Advancement of Science.

Alfredo Torres, Ph.D.

Alfredo Torres is a professor at the University of Texas Medical Branch. He has extensive experience in topics related to microbial pathogenesis, food safety, therapeutics, and vaccine development. His major research interests includes the elucidation of the mechanisms used by pathogenic ***Escherichia coli*** to adhere and colonize the intestinal epithelia and the characterization of the pathogenic mechanisms of ***Burkholderia mallei*** and ***Burkholderia pseudomallei***, with the goal of developing suitable vaccines and therapeutics. He is a member of the ASM Committee on Graduate and Postdoctoral Education, an associate editor for Frontiers, and an editorial board member of ***Infection and Immunity***.

Yolanda Vasquez, Ph.D.

Yolanda Vasquez is an assistant professor at Oklahoma State University. She received her doctorate in inorganic chemistry from Texas A&M University and completed her postdoctoral fellowship at the Harvard School of Engineering and Applied Sciences.

Marcelo Vinces, Ph.D.

Marcelo Vinces is the director for the Center for Learning, Education and Research in the Sciences at Oberlin College in Oberlin, Ohio. He joined the college in 2013 after serving as an American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellow at the National Science Foundation (NSF). While at NSF, Vinces worked at the intersection of scientific research and government policy within the Division of Molecular and Cellular Biosciences, supporting initiatives to advance emerging fields in biology and undergraduate biology education. Vince's research training is in molecular biology, having investigated the biological function of highly mutable repetitive "junk" DNA sequences during his postdoctoral fellowship. He received his doctorate in molecular microbiology at Tufts University, writing a thesis on transcription factors that regulate the shape-changing abilities of the pathogenic yeast *Candida albicans*.

Eberhard Voit, Ph.D.

Biomedical engineering professor Eberhard Voit is an elected fellow of the American Institute of Medical and Biological Engineering (class of 2012). He was honored "for outstanding contributions to the development of computational systems biology and the use of model-based problem-solving in biomedical engineering." Voit holds the David D. Flanagan Chair in Biological Systems in the Wallace H. Coulter Department of Biomedical Engineering at Georgia Tech and Emory University. He is a Georgia Research Alliance Eminent Scholar and Associate Director of the Integrative BioSystems Institute.

Alison Williams, Ph.D.

Alison Williams the director of the Multicultural Resource Center and the associate dean for Academic Diversity at Oberlin College. She taught chemistry for 25 years at Swarthmore College, Wesleyan University, Princeton University (where she also served as a director of studies and an associate director for diversity and graduate recruiting) and Barnard College of Columbia University. She is a biophysical chemist who employed spectroscopic and thermodynamic techniques to probe physical properties of nucleic acids, especially as influenced by ions. Williams has presented her research internationally and has been nationally recognized for her work to improve access to higher education and help faculty and administrations make academia inclusive of all people regardless of background. Williams is also a mother of two, a semiprofessional oboist and an avid sports fan.

Jeannette Yen, Ph.D.

Jeannette Yen is a professor in the School of Biology and the director of Center for Biologically Inspired Design at the Georgia Institute of Technology. The center's goal is to facilitate, develop infrastructure for, and promote interdisciplinary research and education. Science and technology are increasingly hitting the limits of approaches based on traditional disciplines, and biology may serve as an untapped resource for design methodology, with concept testing having occurred over millions of years of evolution. Experiencing the benefits of nature as a source of innovative and inspiring principles encourages us to preserve and protect the natural world rather than simply to harvest its products. Yen holds a doctorate in biological oceanography, where she studies how fluid mechanical and chemical cues transported at low Re flow serve as communication channels for aquatic organisms, primarily plankton — the base of aquatic food webs.

Ambassador Andrew Young

Noted civil rights activist Andrew Young is the former mayor of Atlanta, Georgia, and was the U.S. ambassador to the United Nations in the Jimmy Carter administration. After one year at New Orleans' Dillard University, Young went to Howard University in Washington, D.C., where he received his Bachelor of Science and pre-med degree in 1951. He had planned to follow his father's career of dentistry, but after he felt a religious calling, he entered the ministry and received a Bachelor of Divinity degree from Hartford Theological Seminary in 1955. Young then served as pastor of a church in Marion, Alabama, and became interested in Gandhi's concept of nonviolent resistance as a stategy for social change. He encouraged African Americans to register to vote in Alabama, sometimes facing death threats while doing so. He became a friend and ally of Dr. Martin Luther King, Jr., at this time. Young became one of Dr. King's principle lieutenants, and was with him in Memphis, Tennessee, when King was shot in 1968. Young helped draft the Civil Rights Act of 1964 and the Voting Rights Act of 1965. In 1972 he became Georgia's first African American congressman since Reconstruction. In 1976, President Jimmy Carter appointed Young the U.S. Ambassador to the United Nations, a post he held until 1979. Young was elected mayor of Atlanta in 1981 and re-elected in 1985. He co-chaired the committee that brought the 1996 Summer Olympics to Atlanta. Today Young continues his activism in favor of human rights and is co-chair of Good Works International.

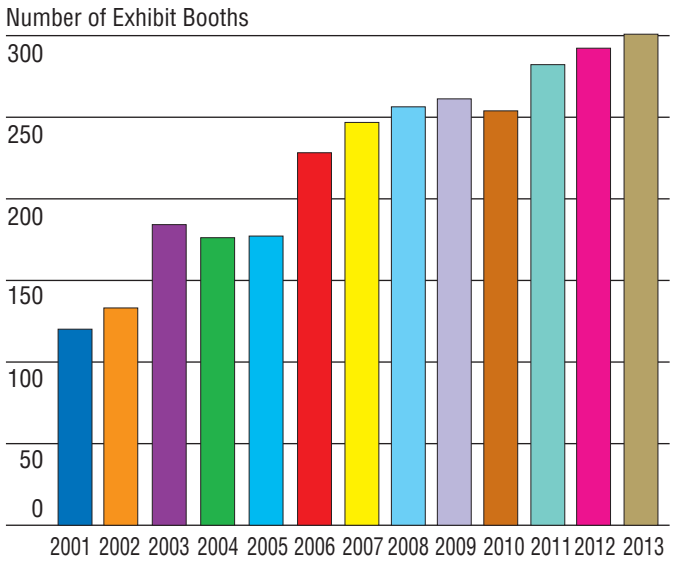
ABRCMS Statistics

Registration

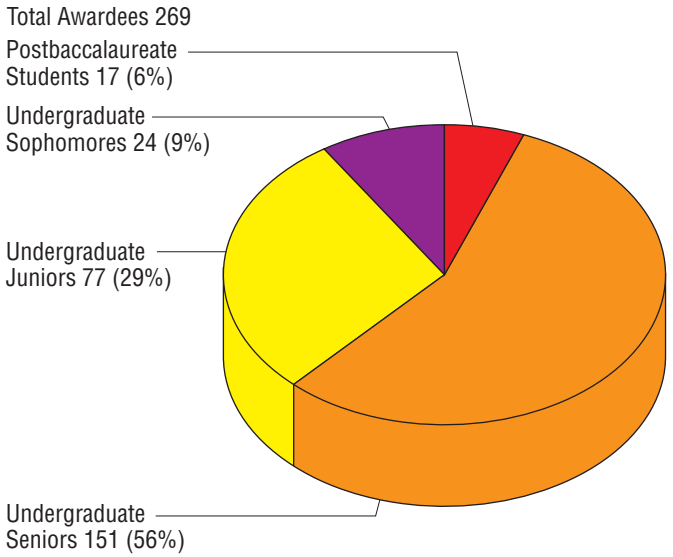
Type of Attendee	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013*
Students	1,157	1,646	1,694	1,580	1,667	1,633	1,525	1,788	1,755	2,008	2,097	2,147	2,021
Undergrad Students/Postbacs	863	1,395	1,383	1,264	1,296	1,233	1,290	1,494	1,462	1,713	1,788	1,825	1,645
Grad Students/Postdocs	161	251	311	316	371	400	235	294	293	295	309	322	376
Exhibitors	230	237	283	305	323	418	426	442	458	504	501	535	502
Program Directors & Faculty	304	471	464	409	423	421	503	501	445	587	588	552	437
Admin/Others	164	235	129	141	131	96	10	109	99	139	170	249	133
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	3,093

*As of November 5, 2013

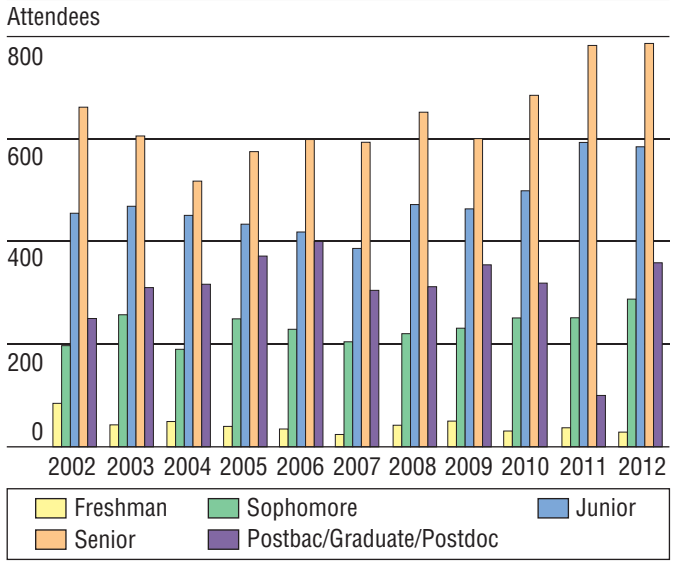
Exhibits



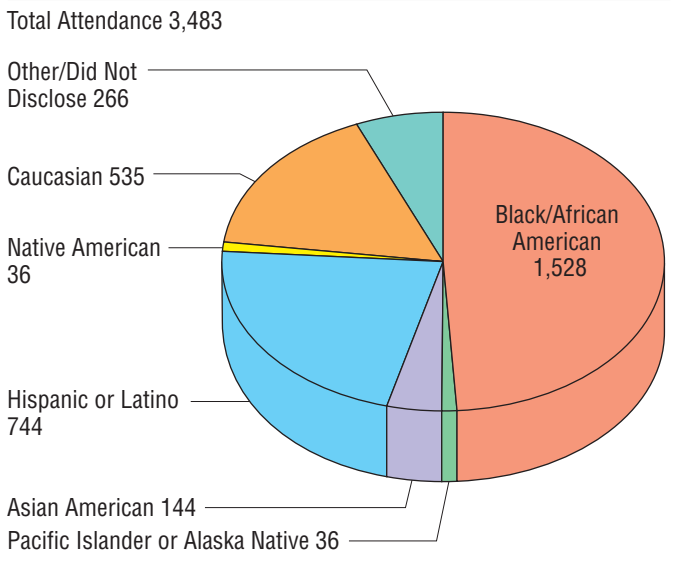
ABRCMS Travel Awards (2013 Awardees)



ABRCMS Student Education Levels



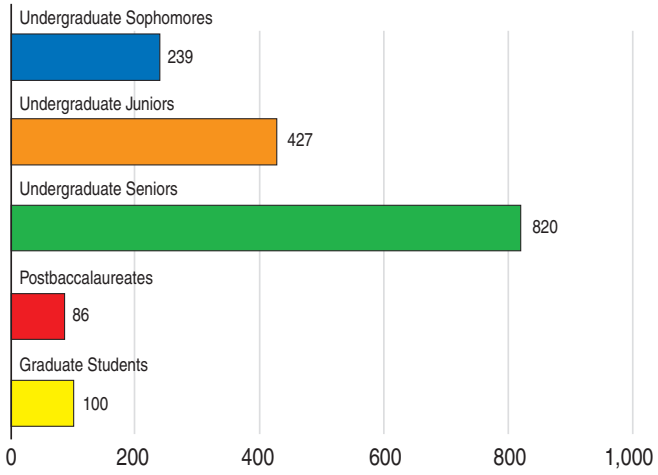
2012 ABRCMS Attendee Ethnicity



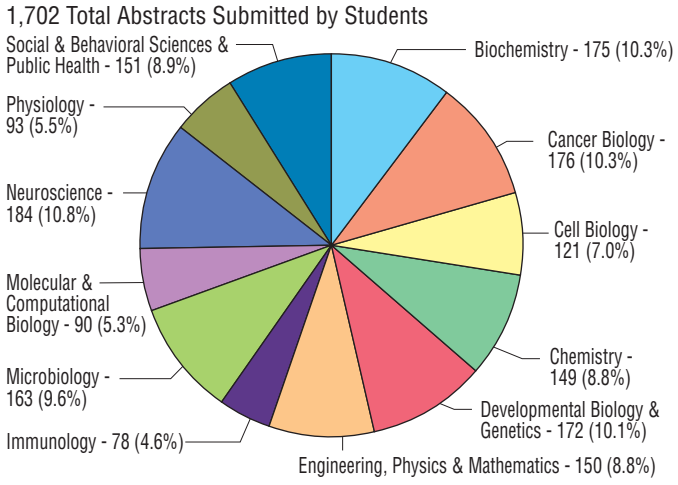
Abstracts Submitted

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

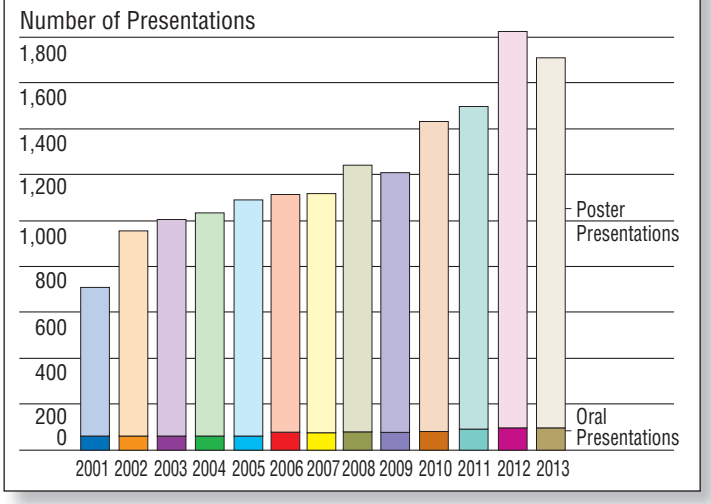
2013 ABRCMS Abstracts Submitted by Educational Level



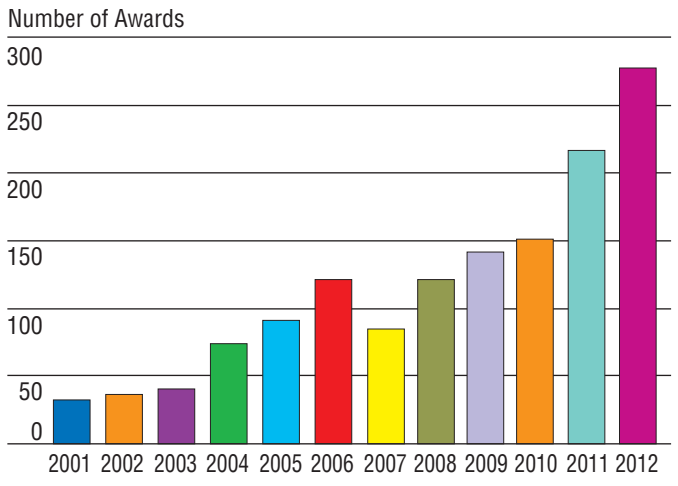
2013 Distribution of Scientific Disciplines



Total Number of Student Presentations



Student Presentation Awards



Student Presentation Information

Table of Contents

Presentation Schedule.....56

Presentation Chairpersons & Review Committees.....57

Judging Rubric.....58

Author Index.....60

Abstract Information

Poster Presentation Schedule – Ryman Exhibit Hall C

Poster Session 1 (A):
Thursday, November 14, 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 14, 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 15, 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 15, 3:45 p.m. – 5:00 p.m.
Set-up time: 3:30 p.m. – 3:45 p.m.
Take down time: 6:30 p.m. – 6:45 p.m.

Poster Session 5 (E):
Friday, November 15, 5:15 p.m. – 6:30 p.m.
Set-up time: 3:30 p.m. – 3:45 p.m.
Take down time: 6:30 p.m. – 6:45 p.m.

Poster Session 6 (F):
Saturday, November 16, 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 16, 11:00 a.m. – 12:15 p.m.
Set-up time: 9:30 a.m. – 9:45 a.m.
Take down time: 12:15 p.m. – 12:30 p.m.

Oral Presentation Schedule – Locations are listed starting on pages 22-25 and 32-35

Oral Sessions 1 – 12:
Thursday, November 14, 5:30 p.m. – 6:30 p.m.

Oral Sessions 13 – 24:
Saturday, November 16, 8:30 a.m. – 9:30 a.m.

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

	Session 1 (A) Thursday 2:30 – 3:45 pm	Session 2 (B) Thursday 4:00 – 5:15 pm	Session 3 (C) Friday 11:00 am – 12:15 pm	Session 4 (D) Friday 3:45 – 5:00 pm	Session 5 (E) Friday 5:15 – 6:30 pm	Session 6 (F) Saturday 9:45 – 11:00 am	Session 7 (G) Saturday 11:00 am – 12:15 pm
Biochemistry	A001 – A024	B001 – B024	C001 – C016	D001 – D016	E001 – E016	F001 – F024	G001 – G024
Cancer Biology	A025 – A048	B025 – B048	C017 – C032	D017 – D032	E017 – E032	F025 – F048	G025 – G048
Cell Biology	A049 – A063	B049 – B063	C033 – C042	D033 – D042	E033 – E042	F049 – F063	G049 – G063
Chemistry	A064 – A083	B064 – B083	C043 – C055	D043 – D055	E043 – E055	F064 – F083	G064 – G083
Developmental Biology and Genetics	A084 – A106	B084 – B106	C056 – C070	D056 – D070	E056 – E070	F084 – F106	G084 – G106
Engineering, Physics and Mathematics	A107 – A127	B107 – B127	C071 – C084	D071 – D084	E071 – E084	F107 – F127	G107 – G127
Immunology	A128 – A137	B128 – B137	C085– C090	D085– D090	E085 – E090	F128 – F137	G128 – G137
Microbiology	A138 – A157	B138 – B157	C091 – C103	D091 – D103	E091 – E103	F138 – F157	G138 – G157
Molecular and Computational Biology	A158 – A169	B158 – B169	C104 – C110	D104 – D110	E104 – E110	F158 – F169	G158 – G169
Graduate Students & Previous ABRCMS Presentation Awardees	A170 – A197	B170 – B197	C111 – C128	D111 – D128	E111 – E128	F170 – F197	G170 – G197
Neuroscience	A198 – A223	B198 – B223	C129 – C145	D129 – D145	E129 – E145	F198 – F223	G198 – G223
Physiology	A224 – A236	B224 – B236	C146 – C153	D146 – D153	E146 – E153	F224 – F236	G224 – G236
Social and Behavioral Sciences & Public Health	A237 – A256	B237 – B256	C154 – C165	D154 – D165	E154 – E165	F237 – F256	G237 – G256

ABRCMS Student Presentation Chairpersons

Biochemistry
Mario Garcis-Rios, Ph.D., *Mount Ida College, Newton, MA*
Michael Summers, Ph.D., *University of Maryland, Baltimore County, Baltimore, MD*

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

Cell Biology
Brent Berwin, Ph.D., *Dartmouth Medical Center, Lebanon, NH*
Harper Singh, Ph.D., *Savannah State University, Savannah, GA*

Chemistry
Kenneth Sajwan, Ph.D., *Savannah State University, Savannah, GA*
Alison Williams, Ph.D., *Oberlin College, Oberlin, OH*

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

Engineering, Physics & Mathematics
Chirs Bassey, Ph.D., *Azusa Pacific University, Azusa, CA*
Mauricio Cabrera-Rios, Ph.D., *University of Puerto Rico at Mayaguez, PR*

Immunology
David Sanchez, Ph.D., *Western University of Health Sciences, Pomona, CA*

Microbiology
Patricia Baynham, Ph.D., *St. Edward's University, Austin, TX*
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*
Jeaneette Papp, Ph.D., *University of California, Los Angeles, CA*

Neuroscience
Stephanie Bingham, Ph.D., *Barry University, Miami Shores, FL*
Richard King, M.D., Ph.D., *University of Utah, Salt Lake City, UT*

Physiology
Christine Beeton, Ph.D., *Baylor College of Medicine, Houston, TX*
Basil Ibe, Ph.D., *LA Biomed at Harbor-UCLA Medical Center, Torrance, CA*

Social and Behavioral Sciences & Public Health
Cherrie B. Boyer, Ph.D., *University of California, San Francisco, CA*
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*
- 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*

ABRCMS Student Travel Award Review Committee

- Sherrice Allen, Ph.D., *Fayetteville, NC*
- John Augusto, Ph.D., *The University of Kansas, Lawrence, KS*
- C. Gita Bosch, Ph.D., *C. Gita Bosch & Associates,Philadelphia, PA*
- C. Ainsley Davis, Ph.D., *Bethune-Cookman University, Daytona Beach, FL*
- Louise Hainline, Ph.D., *Brooklyn College of CUNY, Brooklyn, NY*
- Olivia Harriott, Ph.D., *Fairfield University, Fairfield, CT*
- Alvin Holder, Ph.D., *Old Dominion University, Norfolk, VA*
- Clifford Houston, Ph.D., *University of Texas Medical Branch, Galveston, TX*
- DiAnna L. Hynds, Ph.D., *Texas Woman's University, Denton, TX*
- Joeli Marrero, Ph.D., *Tampa, FL*
- Peter O'Day, Ph.D., *University of Oregon, Eugene, OR*
- Phillip Ortiz, Ph.D., *Empire State College, Saratoga Springs, NY*
- Saundra Oyewole, Ph.D., *Trinity Washington University, Washington, DC*
- Laurel Southard, Ph.D., *Cornell University, Ithaca, NY*
- Cynthia van Golen, Ph.D., *Delaware State University, Dover, DE*

ABRCMS Judging Rubric – Poster & Oral Presentations

SCORE	HYPOTHESIS, OBJECTIVE OR STATEMENT OF PROBLEM	METHODS AND CONTROLS/ COMPARISON	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	• Methods section missing • Serious lack of controls of discussion of controls	• 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 • Controls or comparative groups not adequately described; some appropriate controls or groups were missing	• 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 comment on why the methods were chosen and others not chosen • Adequate discussion of controls or comparative groups; some significant controls or comparative groups were lacking	• 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 choice of methods • Clear discussion of controls or comparative groups; most controls or comparative groups were included	• 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	• Thorough explanation of why particular methods were chosen • Clear discussion of controls or comparative groups; all appropriate controls or comparative groups were included	• 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.*

Author Index

O presentation denotes oral presentations

Aangdembe Subba, Barsha	**Engineering, Physics and Mathematics: Biophysics**	**O71**
Abron, Jessicca	Immunology: Immunology	B133
Acevedo, Yesenia M.	Neuroscience: Neurobiology	B208
Acevedo-Mariani, Frances M.	Chemistry: Pharmaceutical Chemistry	A71
Achonu, Justice	Physiology: Endocrinology	F227
Acosta, David	Biochemistry: Biochemistry	G11
Acosta-Hernández, María D.	Microbiology: Microbial Physiology	B155
Adams, Brandon P.	Engineering, Physics and Mathematics: Material Sciences	F113
Adams, Tangeria R.	Social and Behavioral Sciences and Public Health: Psychology	C157
Addae, Gifty	Cancer Biology: Cancer Biology	F35
Adedeji-Fajobi, Temidayo I.	**Physiology: Endocrinology**	**O91**
Adejumo, Hollie A.	Cell Biology: Cell Biology	G60
Adeleke, Ayobami	Engineering, Physics and Mathematics: Bioengineering	F120
Adeniyi, Desmond A.	Physiology: Anatomy	F235
Adeoye, Temitope F.	Social and Behavioral Sciences and Public Health: Psychology	F248
Adesanya, E. A. Omoluyi	Physiology: Endocrinology	C146
Adiga, Anil	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A240
Adlam, Chantal	Chemistry: Environmental Chemistry	D46
Adobaw, Brandford K.	Cell Biology: Cell Biology	F56
Afridi, Adil N.	Neuroscience: Neurobiology	B202
Agee, Joshua E., Sr.	Cell Biology: Cell Biology	F51
Aggarwal, Ayushi	Neuroscience: Neuroscience	G201
Agosto, Laura	Biochemistry: Biochemistry	E06
Agrawal, Rishi R.	Biochemistry: Biochemistry	A24
Aguirre, Alejandro	Immunology: Immunology	B131
Aguirre, Carlos A.	Neuroscience: Neurobiology	G222
Ahmed, Md Shakir U.	Cancer Biology: Cancer Biology	C112
Ahmed, Mohamed M., II	Chemistry: Organic Chemistry	E52
Ahmed, Shade A.	Chemistry: Organic Chemistry	F76
Ahmim, Abdelhakim	**Engineering, Physics and Mathematics: Bioengineering**	**O69**
Ahweyevu, Charles T., Jr.	Cancer Biology: Cancer Biology	B32
Ajibewa, Tiwaloluwa	Physiology: Physiology	A233
Ajumobi, Emily I.	Molecular and Computational Biology: Genomics	C104
Akaronu, Nnenna	Immunology: Immunology	C86
Akhuetie-Oni, Benjamin	Cancer Biology: Cancer Biology	E25
Alba-Rodriguez, Estefania J.	Cancer Biology: Cancer Biology	F36
Alborz, Mahsa	Biochemistry: Structural Biology	A14
Aldan, Johnny T., Jr.	Cell Biology: Molecular Imaging	B61
Alejandro, Xiomarie	**Engineering, Physics and Mathematics: Biophysics**	**O23**
Aleman, Jennifer	Cell Biology: Molecular Imaging	B59
Alers Velazquez, Roberto M.	Microbiology : Virology	C103
Alexander, Keisha L.	Microbiology: Mycology	C98
Alexis, Stephanie	Cancer Biology: Cancer Biology	A38
Alicea-Torres, Kevin M., Sr.	Cancer Biology: Cancer Biology	A25
Aligbe, Enimielen	**Neuroscience: Neuroscience**	**O37**
Allawala, Anusha B.	Neuroscience: Neurobiology	B219
Allen, Jasmine R.	Biochemistry: Biochemistry	A170
Almonte, Vanessa	Developmental Biology and Genetics: Developmental Biology	A94
Alston, Danice	**Immunology: Immunology**	**O27**
Alvarado, Melanie A.	Neuroscience: Neurobiology	B212
Alvarez, Sandy	Cell Biology: Cell Biology	C33
Alves, Jasmin M.	Biochemistry: Metabolism	A23
Amaro-Rivera, Kiara Y.	Physiology: Toxicology	C149
Ameri, Abigail	Molecular and Computational Biology: Bioinformatics	F160
Amiri, Shabana	Neuroscience:Neuroscience	E136
Amoako, Sheila	**Cell Biology: Cell Biology**	**O10**
Amouzougan, Eva A.	Cancer Biology: Cancer Biology	A30
Anderson, Christopher	Molecular and Computational Biology: Proteomics	F161

Anderson, Dwight D.	Molecular and Computational Biology: Computer Sciences	D107
Andoh, Afua A.	Neuroscience: Neurobiology	A203
Antunes, Lilian	Molecular and Computational Biology: Genomics	G188
Apolis, Liana Angeli N.	**Microbiology: Bacteriology**	**O80**
Aponte, Lucas J.	Developmental Biology and Genetics: Genetics	F98
Aranda, Ana S.	Cancer Biology: Cancer Biology	C32
Arellano, Jose	Molecular and Computational Biology: Bioinformatics	F158
Arnold, Victoria F.	Developmental Biology and Genetics: Developmental Biology	C56
Assatourian, Lillian	Microbiology: Bacteriology	F139
Atkins, Sterling	Neuroscience: Neurobiology	D131
Attia, John	Cancer Biology: Cancer Biology	E19
Austin, Allanah D.	Engineering, Physics and Mathematics: Nanotechnology	B125
Avalos-Cavero, Barbara J.	Immunology: Immunology	E90
Avila-Garibay, Fernando J.	Neuroscience: Neurobiology	G196
Aworanti, Ifemayowa A.	Engineering, Physics and Mathematics: Bioengineering	F114
Ayala Figueroa, Jesus Manuel	Developmental Biology and Genetics: Genetics	F171
Ayala Rivera, Marcos J., Jr.	Physiology: Endocrinology	D152
Ayala Salazar, Jesus A.	Developmental Biology and Genetics: Developmental Biology	D60
Ayorinde, Daniel	Microbiology: Virology	B149
Azani, Ari	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G248
Babiker, Leena	Cancer Biology: Cancer Biology	D31
Badwan, Osamah Z.	Developmental Biology and Genetics: Developmental Biology	F92
Baez-Cotto, Carlos M.	Engineering, Physics and Mathematics: Material Sciences	C75
Bailey, Jennifer A.	Microbiology: Environmental Microbiology	G145
Bajpai, Sagar	Cancer Biology: Cancer Biology	E23
Baker, Bianca	Immunology: Immunology	F184
Balde, Fatoumata F.	Neuroscience: Neurobiology	F200
Banada, Justin M.	Developmental Biology and Genetics: Developmental Biology	F94
Banda, Adam D.	Biochemistry: Metabolism	D13
Banh, Dalton V.	Microbiology : Virology	F154
Baradaran-Shoraka, Massoud	Neuroscience:Neuroscience	A215
Barkwell, Fabeain D.	Social and Behavioral Sciences and Public Health: Psychology	A255
Barmore, Mayghen S.	Social and Behavioral Sciences and Public Health: Psychology	F242
Barragan, Jose A.	Neuroscience: Neurobiology	G203
Barrera, Adelaeda	Microbiology: Mycology	B139
Barrett, Quinn	Microbiology: Environmental Microbiology	G143
Barrie, Umaru	**Physiology: Nutrition**	**O41**
Barrientos, Alicia C.	Neuroscience: Neurobiology	E131
Barrios, Richard	Biochemistry: Biochemistry	B08
Barrow, Moriah	Molecular and Computational Biology: Computational Biology	F168
Bartholomew, Ryan	**Neuroscience: Neuroscience**	**O85**
Barton, Wiley	Developmental Biology and Genetics: Genetics	A100
Baruti, Omari	Biochemistry: Biochemistry	A176
Bascombe, Kristen M.	Developmental Biology and Genetics: Developmental Biology	E60
Bashay, Laurian	Cell Biology: Plant Biology	C41
Bassey, Mary	Engineering, Physics and Mathematics: Biophysics	B127
Batarni, Samir S.	Engineering, Physics and Mathematics: Bioengineering	A118
Battle, Shawna	Biochemistry: Biochemistry	A178
Bayala, Erick X.	Developmental Biology and Genetics: Evolution and Developmental Biology	C64
Beaubrun, Isaac	Physiology: Toxicology	A235
Beaucejour, Rossiny	Engineering, Physics and Mathematics: Nanotechnology	C73
Becerril, Courtney L.	Cancer Biology: Cancer Biology	C23
Beckford, Colleen A.	Immunology: Immunology	B137
Beckford, John	Developmental Biology and Genetics: Genetics	E63
Belgrave, Nicole	Immunology: Immunology	F128
Bell, Akeadra E.	Chemistry: Analytical Chemistry	C47
Bell, Breanna	Biochemistry: Biomolecules	E12
Bell, John	Molecular and Computational Biology: Computer Sciences	F169

Belle, Patricia	Biochemistry: Biochemistry	D11
Bendiks, Zachary A.	Cell Biology: Plant Biology	A63
Benitez, Marimar	Cell Biology: Cell Biology	F55
Benitez Arzate, Carlos V.	Molecular and Computational Biology: Informatics	E104
Benjamin, Denniqua K.	Cell Biology: Cell Biology	D34
Benn-Hirsch, Elizabeth	Molecular and Computational Biology: Genomics	D105
Bennett, Asha R.	Microbiology: Bacteriology	D96
Benson, Christopher L., II	Developmental Biology and Genetics: Genetics	E57
Benson, Dominique	Microbiology: Bacteriology	F150
Benson, Timothy M.	Molecular and Computational Biology: Genomics	B164
Berger, Courtney	Neuroscience: Neurobiology	G204
Bermudez, Jose A.	Immunology: Immunology	B132
Bernard, Evan P.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B238
Beyene, Joseph	Cell Biology: Cell Biology	D111
Binion, Apiffani L.	Microbiology: Virology	A152
Blade, Reena E.	**Physiology: Toxicology**	**O90**
Blake, Dayna	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	D164
Blakey, Landon D.	Molecular and Computational Biology: Computational Biology	F167
Blanco, Nicole	Engineering, Physics and Mathematics: Material Sciences	D76
Blount, LaCheyla	Microbiology: Bacteriology	F146
Blue, Levi B.	Microbiology: Microbial Physiology	E93
Boateng, Kingsley	Cancer Biology: Cancer Biology	E32
Bobb-Semple, Dara	Engineering, Physics and Mathematics: Nanotechnology	B116
Bolden, Chris	Microbiology : a. Bacteriology	D94
Bolden, Jonathan C.	Developmental Biology and Genetics: Genetics	G90
Bolden, Nicholas C.	Biochemistry: Biochemistry	G03
Boldon, Orion J.	Chemistry: Analytical Chemistry	B70
Bolotaulo, Duer	Biochemistry: Structural Biology	A10
Bolton, Clement J., II	Cancer Biology: Cancer Biology	C117
Bonilla, Alfonso	Neuroscience: Neuroscience	E132
Booker, Jordan A.	Social and Behavioral Sciences and Public Health: Psychology	B183
Booth, Symone A.	Physiology: Physiology	B228
Bori, Fatimah L.	Cancer Biology: Cancer Biology	C21
Borland, Jamar	Biochemistry: Biochemistry	F01
Bosque, Gabriela	Neuroscience: Neurobiology	F206
Bost, Darius M.	**Molecular and Computational Biology: Computational Biology**	**O36**
Boston, Ava	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A253
Bowman, Shakema	Chemistry: Pharmaceutical Chemistry	G75
Boyd, Caila C.	**Cancer Biology: Cancer Biology**	**O07**
Boza, Alfonso L., Jr.	Molecular and Computational Biology: Computational Biology	A162
Braddy, Maurcia D.	Social and Behavioral Sciences and Public Health: Psychology	G243
Bradford, L. Latey	Microbiology: Bacteriology	A191
Bradley, Janae	Engineering, Physics and Mathematics: Bioengineering	B121
Bradley, Tai-Danae	Engineering, Physics and Mathematics: Mathematics	F178
Bradner, Shane	Physiology: Systems Biology	C148
Braier, Ilana C.	Molecular and Computational Biology: Bioinformatics	G167
Brannon, Kaitland A.	Neuroscience: Neuroscience	B216
Bretous, Alain	Biochemistry: Biomolecules	G02
Brewster, Shanice	Chemistry: Physical Chemistry	C52
Brice, Robin L.	Cell Biology: Plant Biology	G49
Bright, Hilary	Biochemistry: Structural Biology	G04
Brooks, Lavida	**Molecular and Computational Biology: Bioinformatics**	**O81**
Brown, Arielle M.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A243
Brown, Danielle	Social and Behavioral Sciences and Public Health: Sociology	C158
Brown, Darius D.	Cancer Biology: Cancer Biology	A37
Brown, Jazmine C.	Cell Biology: Cell Biology	B51
Brown, Jodian A.	Biochemistry: Biomolecules	A179
Brown, Kristen D.	Chemistry: Organic Chemistry	F74

Brown, Kristopher	Biochemistry: Biomolecules	F02
Brown, LaToya S.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B245
Brown, Romona L.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F240
Brown, Sterling R.	Cell Biology: Plant Biology	B60
Brown, Tiara	Chemistry: Pharmaceutical Chemistry	G78
Brown, Timothy	Biochemistry: Structural Biology	C10
Brown, Zhane	Microbiology: Environmental Microbiology	G153
Bryant, Courtney M.	Social and Behavioral Sciences and Public Health: Psychology	C155
Bryant, Jamal M.	Biochemistry: Biochemistry	C07
Bryant, Precious-Irene	Molecular and Computational Biology: Genomics	E109
Buchanan, Reniece M.	Microbiology: Parasitology	G148
Buclkey, Terrisha K.	Cancer Biology: Cancer Biology	E31
Bueno, Patricio E.	Microbiology: Bacteriology	G139
Bullock, David A., Jr.	Developmental Biology and Genetics: Genetics	D66
Burns, Jamaris	Engineering, Physics and Mathematics: Mathematics	F108
Burton, Nicole	Developmental Biology and Genetics: Developmental Biology	E58
Burton, Tyler	Molecular and Computational Biology: Bioinformatics	G191
butera, Vicent K.	Developmental Biology and Genetics: Developmental Biology	C57
Butler, Anissa C.	Neuroscience: Neuroscience	D141
Cabalaungan, Shadd N.	Cancer Biology: Cancer Biology	G26
Caballero, Jessica P.	Neuroscience: Psychobiology	B207
Caballero, Ninoshka M.	Developmental Biology and Genetics: Genetics	F91
Caban-Vazquez, Isamar	**Microbiology: Bacteriology**	**O30**
Cable, Katrina L.	Developmental Biology and Genetics: Developmental Biology	F104
Cabral, Marleny A.	Social and Behavioral Sciences and Public Health: Psychology	E161
Cada, Abraham K.	Chemistry: Environmental Chemistry	C50
Cainion, Ashley B.	Cancer Biology: Cancer Biology	D29
Calderon, Alexander C.	Developmental Biology and Genetics: Developmental Biology	G91
Calderon, Gloria	Developmental Biology and Genetics: Evolution and Developmental Biology	D61
Caldwell, Shanice P.	Molecular and Computational Biology: Computer Sciences	F163
Camacho, Beatriz	**Cell Biology: Cell Biology**	**O59**
Campbell, Jordan A.	Engineering, Physics and Mathematics: Nanotechnology	B114
Campbell, Kasey L.	Engineering, Physics and Mathematics: Material Sciences	B124
Campos, Celia	**Immunology: Immunology**	**O74**
Canady, Damian	Biochemistry: Biochemistry	F10
Candido, Francisco, Jr.	**Engineering, Physics and Mathematics: Material Sciences**	**O72**
Cannonier, Shareena	Chemistry: Environmental Chemistry	B79
Cardinal-Ce Casas, Adrianna R.	Engineering, Physics and Mathematics: Biostatistics	B123
Carlson, Amanda E.	Social and Behavioral Sciences and Public Health: Sociology	G255
Carlson, Karen	Microbiology: Environmental Microbiology	D103
Caro Monroig, Angeliz M.	Cancer Biology: Cancer Biology	B34
Carr, William D.	Neuroscience: Neuroscience	F221
Carr-Reynolds, Melissa D.	Neuroscience: Neuroscience	A221
Carrillo, David A. R.	Cancer Biology: Cancer Biology	D20
Carter, Amanda	Cell Biology: Cell Biology	A49
Carter, Denise	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A244
Carter, Dylan K.	Cell Biology: Cell Biology	D42
Carter, NaTasha M.	Chemistry: Analytical Chemistry	B74
Carthen, Jasmin	Social and Behavioral Sciences and Public Health: Psychology	E159
Cartwright, Patricia M.	Social and Behavioral Sciences and Public Health: Psychology	B247
Casin, Kevin M.	Immunology: Immunology	B134
Castanon, Amaris	Immunology: Immunology	C85
Castillo, Arlene	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O93**
Castillo Rivera, Nelson G.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	D159
Castillo-Marquez, Hiram D.	Chemistry: Organic Chemistry	G76
Castro, Gabriel A.	Biochemistry: Biomolecules	B17
Castro-Rojas, Cyd M.	Immunology: Immunology	F188
Cayton, John Christopher C.	Developmental Biology and Genetics: Developmental Biology	B103

Ceberio, Monique M.	Microbiology: Mycology	G152
Cedeño-Alicea, Julio A.	Chemistry: Inorganic Chemistry	E44
Cedeño-Cedeño, Yessenia	**Microbiology: Virology**	**O29**
Cedeno-Rosario, Luis A.	**Developmental Biology and Genetics: Genetics**	**O67**
Ceesay, Fatoumatta L.	Neuroscience: Neurobiology	A202
Cervantes, Antonio P.	Microbiology: Bacteriology	A156
Cezaire, Sherline	Cancer Biology: Cancer Biology	G39
Chacon, Martin C.	Biochemistry: Structural Biology	C13
Chandler, Krystal	Developmental Biology and Genetics: Genetics	A104
Chang, Dennis	Cancer Biology: Cancer Biology	C126
Charles, Murchtricia K. T.	Molecular and Computational Biology: Computational Biology	E106
Charles, Stacy G.	Neuroscience: Psychobiology	G214
Chavez, Monique	Cancer Biology: Cancer Biology	B29
Chavez Santos, Erica	Engineering, Physics and Mathematics: Bioengineering	G119
Chen, WeiTing	Biochemistry: Biochemistry	D07
Cherfrere, Cherna	Neuroscience: Psychobiology	D145
Cherry, David	Engineering, Physics and Mathematics: Mathematics	A112
Chidyausiku, Tamuka M.	Biochemistry: Structural Biology	A185
Chong, Megan K.	Neuroscience: Neuroscience	F217
Chowdhury, Sayeeda	**Developmental Biology and Genetics: Genetics**	**O20**
Christian, Courtney L.	Cell Biology: Cell Biology	F54
Christopher, Lauren	Social and Behavioral Sciences and Public Health: Anthropology	G256
Chu, Duong	Physiology: Physiology	F233
Chua, Christian Anthony O.	Engineering, Physics and Mathematics: Biophysics	C83
Chukwuneke, Jeffrey	Cancer Biology: Cancer Biology	B45
Chun, Eugene	Neuroscience: Neuroscience	A192
Cintron, Isatis M.	Chemistry: Environmental Chemistry	B71
Clark, Lars E.	Microbiology: Parasitology	G175
Clarke-Lambert, Shellyann	Chemistry: Environmental Chemistry	G80
Class, Elvin G.	Social and Behavioral Sciences and Public Health: Psychology	E165
Claudio, Marie A.	Chemistry: Organic Chemistry	F79
Clement, Travis, Sr.	Chemistry: Environmental Chemistry	B64
Cobbs-Hart, Jeremy	Neuroscience: Neuroscience	E137
Coca, Kenneth	Engineering, Physics and Mathematics: Material Sciences	F179
Coe, Kevin M.	Cell Biology: Plant Biology	E35
Coger, Matthew	Cell Biology: Plant Biology	B56
Coggins, Si'Ana A.	Cancer Biology: Cancer Biology	F26
Coke, Christopher J.	Cancer Biology: Cancer Biology	B196
Colbert, Candace	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A246
Collazo-Román, Marielys	Biochemistry: Metabolism	B06
Collier, Alexis S.	**Developmental Biology and Genetics: Genetics**	**O68**
Collins, Arianna M.	Molecular and Computational Biology: Genomics	F162
Collins, Christropher	Cell Biology: Cell Biology	A60
Collins, Clifford, Jr.	Cell Biology: Cell Biology	B49
Colom, Sara M.	Cell Biology: Plant Biology	C38
Colón, Nicole M.	Cell Biology: Plant Biology	F60
Colon-Maldonado, Dashari	Microbiology: Environmental Microbiology	A153
Colvin, Jasmeka	Cancer Biology: Cancer Biology	F47
Conie, Yanique	Cancer Biology: Cancer Biology	A48
Contreras, Jo G.	Neuroscience: Neurobiology	A208
Contreras Ramirez, Violeta	Neuroscience: Neurobiology	B211
Coombs, Gavin M.	Microbiology: Virology	G184
Cooper, Dominique N.	Molecular and Computational Biology: Genomics	G187
Coradin, Mariel	**Biochemistry: Biochemistry**	**O51**
Cordero Badillo, Zuania I.	Developmental Biology and Genetics: Genetics	E62
Corey, Tiera	**Chemistry: Analytical Chemistry**	**O14**
Corneille, Tasha	Microbiology: Environmental Microbiology	G173
Corona, Armando L.	Biochemistry: Structural Biology	A09

Coronel, Andreina	Developmental Biology and Genetics: Developmental Biology	C63
Corpuz, Maia L.	Cancer Biology: Cancer Biology	B43
Cosden, Kasey	Physiology: Systems Biology	F226
Coste Sánchez, Carla	Chemistry: Inorganic Chemistry	E114
Cotman, Carlos A.	Developmental Biology and Genetics: Evolution and Developmental Biology	C58
County, Michael M., Jr.	Chemistry: Pharmaceutical Chemistry	G72
Coursey, Tami	Microbiology: Virology	G181
Cowell, Sammy	Engineering, Physics and Mathematics: Biophysics	B112
Cowins, Janet V.	Engineering, Physics and Mathematics: Nanotechnology	F183
Cravens, Elena N.	Molecular and Computational Biology: Genomics	E110
Crawford, Lindsey A.	Developmental Biology and Genetics: Developmental Biology	F86
Credo, Jonathan	Chemistry: Analytical Chemistry	B67
Creer, Marylyn H.	Developmental Biology and Genetics: Evolution and Developmental Biology	F99
Crews, DeMarcus K.	Chemistry: Organic Chemistry	A80
Cross, Rebecca D.	Neuroscience: Neuroscience	D134
Crowder, Mark K.	Immunology: Immunology	F131
Cruet, Clara M.	Cell Biology: Plant Biology	F50
Cruz-Lebron, Angelica I.	Microbiology: Parasitology	C95
Cruz-Torres, Rosa N.	**Microbiology: Virology**	**O78**
Cuebas-Irizarry, Mara F.	Developmental Biology and Genetics: Evolution and Developmental Biology	B98
Culpepper, Courtney D.	Cancer Biology: Cancer Biology	C28
Cunningham, Courtney A.	Neuroscience: Neurobiology	C137
Cunningham, Kendra M.	Biochemistry: Structural Biology	A03
Curry, Martin	Chemistry: Analytical Chemistry	D54
Cusimano, Phil	Microbiology: Parasitology	G149
Daly, Alexandre Z.	Developmental Biology and Genetics: Genetics	D62
Daniels, Racheal	Neuroscience: Neuroscience	C134
Dankwa, Dorender A.	Neuroscience: Neurobiology	C133
Dantas, Raissa	Microbiology: Mycology	E101
Dantiste, Olivier A.	Engineering, Physics and Mathematics: Biophysics	F174
Darkwa, Ama P.	Physiology: Physiology	G230
Datiri, Yeipyeng	Cancer Biology: Cancer Biology	C119
Davalos, Anibal R.	**Chemistry: Organic Chemistry**	**O64**
Davatolhagh, Mariexcel F.	Neuroscience: Neuroscience	E140
Davies, Brooke	Engineering, Physics and Mathematics: Material Sciences	B119
Davila-Montero, Sylmarie	Engineering, Physics and Mathematics: Bioengineering	A111
Dávila-Vázquez, Yarely C.	Neuroscience: Neurobiology	B220
Davilla, Dustin	Chemistry: Organic Chemistry	F72
Davis, Brittny	Biochemistry: Biomolecules	A180
Davis, Contessa M.	Social and Behavioral Sciences and Public Health: Anthropology	B248
Davis, Donald Jr.	Biochemistry: Structural Biology	D16
Davis, Dwayne	Physiology: Systems Biology	B236
Davis, Myles A.	Cancer Biology: Cancer Biology	F28
Davis, Sydney	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B189
Davis, Xenia D.	Neuroscience: Neurobiology	G219
De Jesus, Kevin R.	Cell Biology: Cell Biology	F49
de Jesús, Tristan J.	Microbiology: Mycology	A145
De Jesus-Cortes, Hector	Neuroscience: Neurobiology	A187
De Jesus-Kim, Lorraine	Engineering, Physics and Mathematics: Bioengineering	E82
De La Cruz, Jacinto S.	Chemistry: Pharmaceutical Chemistry	B66
De La Cruz, Timothy	Developmental Biology and Genetics: Developmental Biology	E56
De La Rosa-Acosta, Melanie	Microbiology: Environmental Microbiology	E102
De Leon, Erica M.	Cancer Biology: Cancer Biology	D28
Dedicatoria, Kay	Biochemistry: Biochemistry	F22
Del Portillo, Maria L.	Social and Behavioral Sciences and Public Health: Psychology	A256
Del Toro Pagán, Nicole M.	Biochemistry: Biochemistry	B05
Dela Cruz, Philip T. H.	Biochemistry: Biochemistry	F03
Delgado, Loruhama M.	Chemistry: Organic Chemistry	B78

DeNies, Maxwell	**Molecular and Computational Biology: Proteomics**	**O35**
Deol, Kirandeep K.	**Chemistry: Inorganic Chemistry**	**O61**
Diamond, Hannah	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B252
Diaz, Aisleen	Microbiology: Environmental Microbiology	C93
Diaz, Emily	**Engineering, Physics and Mathematics: Bioengineering**	**O70**
Diaz Martinez, Angel Joel, Sr.	Cancer Biology: Cancer Biology	B40
Diaz Vazquez, Gladys	Molecular and Computational Biology: Computational Biology	A159
Dominah, Gifty A.	Neuroscience: Neuroscience	B199
Dominguez, Steven, Jr.	Chemistry: Pharmaceutical Chemistry	G82
Dones-Monroig, Jesus M.	Chemistry: Organic Chemistry	C53
Dorta, Aisha M.	Engineering, Physics and Mathematics: Mathematics	A114
Douglas, Jasmine R.	Engineering, Physics and Mathematics: Material Sciences	G122
Dudek, Maxine C.	Cancer Biology: Cancer Biology	A46
Dumbuya, Mohamed	**Developmental Biology and Genetics: Developmental Biology**	**O65**
Duncan, Ericka L.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A250
Duncan, Jened	Neuroscience: Neurobiology	G207
Dunigan, Brittany	Physiology: Systems Biology	B226
Dupuy, Keaira C.	Developmental Biology and Genetics: Genetics	E126
Dupzyk, Allison J.	Microbiology: Bacteriology	D100
Dushime, Rosine	Molecular and Computational Biology: Computational Biology	A169
Dyer, Samya K.	Cancer Biology: Cancer Biology	E29
Easthausen, Imaani	Chemistry: Organic Chemistry	E47
Ebanks, Shauna	**Immunology: Immunology**	**O76**
Echendu, Vivienne C.	Molecular and Computational Biology: Bioinformatics	B165
Echols, Kayla A.	Cell Biology: Cell Biology	D116
Eddins, Amani	Cell Biology: Cell Biology	A58
Edouard, Chantal N.	Microbiology: Parasitology	G147
Edwards, Lawrence H.	Microbiology: Bacteriology	D92
Edwards, Marcellus A., IV	Physiology: Physiology	E147
Edwards, Shanique K. E.	Cancer Biology: Cancer Biology	B197
Egolum, Adaeze C.	Cell Biology: Cell Biology	E33
Egwuatu, Adaeze C.	Neuroscience: Neuroscience	A204
Eisman, Geraldy	Social and Behavioral Sciences and Public Health: Psychology	F238
Elzein, Arijh	Physiology: Physiology	F176
Emami, Michael	Developmental Biology and Genetics: Evolution and Developmental Biology	G98
Emery, Felicia D.	Microbiology: Bacteriology	F194
Emmanuel, Shanan N.	Microbiology: Environmental Microbiology	E95
Emmanuelli, Alexander	Biochemistry: Structural Biology	B09
Enalls, Brandon C.	Microbiology: Environmental Microbiology	F148
Encarnación-Rosado, Joel	Cancer Biology: Cancer Biology	F29
Eni, Pearl	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O96**
Enriquez, Jesus A.	Physiology: Systems Biology	A236
Enya, Blessing	Engineering, Physics and Mathematics: Mathematics	G109
Epps, Ayunna K.	Chemistry: Physical Chemistry	B69
Erskine, Jalysa	Cancer Biology: Cancer Biology	C17
Escalera Rivera, Katherine	Neuroscience: Neuroscience	B206
Escobar, Yael-Natalie H.	Physiology: Physiology	D148
Espiritu, Daniella	Developmental Biology and Genetics: Developmental Biology	F87
Espitia, Leovi	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	E154
Estabridis, Horacio M.	Engineering, Physics and Mathematics: Biophysics	F177
Etcheverry, Adriana	Neuroscience: Neurobiology	E138
Etienne, Nichole	Molecular and Computational Biology: Computational Biology	E105
Etienne, Thamar	Microbiology: Virology	E99
Etinge, Felix M.	Engineering, Physics and Mathematics: Bioengineering	F111
Ezeagwu, Christian, Jr.	Engineering, Physics and Mathematics: Nanotechnology	B122
Ezeagwu, Dexter	Engineering, Physics and Mathematics: Nanotechnology	B118
Falero Perez, Juliana M.	Microbiology: Parasitology	A144
Fall, Amadou	Chemistry: Analytical Chemistry	D52

Famuyide, Orimadegun J.	Microbiology: Environmental Microbiology	G171
Farrell, Lynisha L.	Biochemistry: Metabolism	F16
Fashemi, Bisiayo	Immunology: Immunology	G135
Fatola, Omolayo	Immunology: Immunology	F135
Favela, Miriam G.	Neuroscience: Neuroscience	A216
Feinstein, Susannah G. S.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B251
Felder, Alexandria L.	Developmental Biology and Genetics: Developmental Biology	B99
Fennoy, Alexis	Cancer Biology: Cancer Biology	A40
Fernandez, Michele	Physiology: Physiology	A234
Fernandez Garcia, Emily	Neuroscience: Neuroscience	B170
Fernández García, Meilín M.	Biochemistry: Biochemistry	A173
Fitwi, Binyam M.	Cancer Biology: Cancer Biology	C20
Flores, Brian L.	Engineering, Physics and Mathematics: Material Sciences	A117
Flores, Rodolfo	Neuroscience: Psychobiology	C135
Flores, Sue A.	Microbiology: Bacteriology	B156
Flowers, Jasmin	Chemistry: Analytical Chemistry	E50
Flowers, Matthew D.	Developmental Biology and Genetics: Genetics	F89
Fong, Jenny	Biochemistry: Biochemistry	A08
Forbes, Anthonio	Cell Biology: Cell Biology	D38
Fortin, Elizabeth V.	Engineering, Physics and Mathematics: Bioengineering	C74
Foster, Antoinette Y.	Neuroscience: Neuroscience	A199
Fox Tree-McGrath, Cheyenne A.	Social and Behavioral Sciences and Public Health: Psychology	B255
Franco, Joy A.	Neuroscience: Neuroscience	B172
Francois, Ruthly	Cancer Biology: Cancer Biology	A34
Franklin, Jasmine	Neuroscience: Neuroscience	C136
Fraser, Jessica	Microbiology: Parasitology	E98
Freeman, Yvonne	Chemistry: Pharmaceutical Chemistry	E45
Fremin, Brayon	Developmental Biology and Genetics: Developmental Biology	A95
Friday, Kafi J.	Neuroscience: Neuroscience	A210
Fu, Chih-lung	**Microbiology: Bacteriology**	**A140**
Fuentes, Christina	**Neuroscience: Psychobiology**	**O40**
Fuseini, Hubaida	Immunology: Immunology	A131
Gachungi, Damaris W.	Cancer Biology: Cancer Biology	G35
Gaines, LauRen	Developmental Biology and Genetics: Genetics	C68
Gaitor, Danielle	Cancer Biology: Cancer Biology	F48
Gajeton, Jasmine J.	Cancer Biology: Cancer Biology	B39
Galdos, Francisco X.	**Developmental Biology and Genetics: Developmental Biology**	**O66**
Gales, Dominique N.	Cancer Biology: Cancer Biology	B193
Gallagher, Rigina Louise V.	Neuroscience: Neurobiology	G212
Gallegos, Alejandra E.	Cancer Biology: Cancer Biology	G34
Gamble, Dionna	Developmental Biology and Genetics: Genetics	D59
Gamedoagbao, Nunana A.	Neuroscience: Neuroscience	B200
Gancayco, Marc R.	Cell Biology: Cell Biology	C37
Gandia, Kristine M.	Physiology: Anatomy	G234
Garcia, Christian J.	Physiology: Endocrinology	C147
Garcia, David A.	Physiology: Physiology	G227
Garcia, Jose M.	Chemistry: Organic Chemistry	B80
Garcia, Roman M.	Immunology: Immunology	A128
Garcia, Sandra	Biochemistry: Biochemistry	F23
Garcia-Garcia, Carolina J.	Cancer Biology: Cancer Biology	C22
Garcia-Torres, Desiree	Biochemistry: Biochemistry	C11
Gates, Sylvester J., III	Cancer Biology: Cancer Biology	D32
Gee, Cherrelle TS	Cell Biology: Cell Biology	D115
Gee, Sherry	**Physiology: Pharmacology**	**O43**
Gentles, Lauren E.	Microbiology: Virology	E91
Georges, Jemima	Social and Behavioral Sciences and Public Health: Anthropology	D160
Ghadiri, Farsheed	Microbiology: Environmental Microbiology	B146
Ghosh, Sanchari	Immunology: Immunology	E87

Gibbs, Carla	Cancer Biology: Cancer Biology	F33
Gidey, Bdho	Cancer Biology: Cancer Biology	A29
Girald, Sofia A.	Cancer Biology: Cancer Biology	F37
Gnawali, Nisha	Cancer Biology: Cancer Biology	A31
Godbolt, LaDara	Neuroscience: Psychobiology	D137
Goldman, Stephanie L.	Microbiology: Virology	A150
Gomez, Marie	Developmental Biology and Genetics: Genetics	E68
Gomez, Rachel	Biochemistry: Biochemistry	D06
Gómez Padilla, Paola	Cell Biology: Cell Biology	G55
Gomez-Rivera, Francisco	Engineering, Physics and Mathematics: Bioengineering	F121
Gondim, Moema C.	Neuroscience: Psychobiology	D139
Gonzalez, Emmanuel D.	Microbiology: Virology	E96
Gonzalez, Giselle M.	Immunology: Immunology	F134
Gonzalez, Sandra	Developmental Biology and Genetics: Developmental Biology	B91
Gonzalez Ortiz, Mariangeline I.	Neuroscience: Neuroscience	A212
Gonzalez-Delgado, Jessica M.	Chemistry: Inorganic Chemistry	C51
Gonzalez-Robles, Tania J.	Biochemistry: Biochemistry	C06
Gordon, Clayton	Molecular and Computational Biology: Computer Sciences	D104
Gordon, Darren M.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B246
Graham, Jacobi	Cell Biology: Cell Biology	F53
Graham, Teri R.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B186
Granado, Nizida E.	Cell Biology: Molecular Imaging	G58
Green, Fatima	**Engineering, Physics and Mathematics: Nanotechnology**	**O21**
Greene, Kayla	Social and Behavioral Sciences and Public Health: Psychology	F237
Gribble, Carlton B.	Neuroscience: Neurobiology	F205
Griffin, Audra	**Social and Behavioral Sciences and Public Health: Psychology**	**O94**
Grinnage, Deaetta	Cancer Biology: Cancer Biology	G36
Grogan, Depresia M.	Molecular and Computational Biology: Bioinformatics	C107
Guardia, Talia	Cancer Biology: Cancer Biology	B38
Guerrero, Edgar	Biochemistry: Biomolecules	C04
Guerrero, Gabriel G.	Neuroscience: Neurobiology	A198
Guerrier, Catherine	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B256
Guest, James E., IV	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A248
Guevara, Alejandra	**Engineering, Physics and Mathematics: Material Sciences**	**O24**
Guevara-Zuluaga, Sebastian	Chemistry: Organic Chemistry	B73
Guhathakurta, Apala	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B250
Guo, Jean	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A239
Gupton, Unique L.	Developmental Biology and Genetics: Developmental Biology	B90
Gutierrez, Brenda	Developmental Biology and Genetics: Genetics	G95
Gutierrez, Eden S.	Neuroscience: Neurobiology	F193
Gutierrez, Erika	Physiology: Physiology	G225
Gutierrez, Jesus V.	Chemistry: Environmental Chemistry	G71
Gutierrez, Lucas K.	Immunology: Immunology	D87
Gutierrez, Natasha	Cell Biology: Cell Biology	D117
Gutierrez, Rafael	Developmental Biology and Genetics: Developmental Biology	G102
Gutierrez Garay, Bayardo I.	Developmental Biology and Genetics: Developmental Biology	E66
Guzman, Yoana L.	Microbiology: Environmental Microbiology	C96
Haferbier, Jordan E.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A241
Hairston, Jenaqua J.	Biochemistry: Biochemistry	A06
Hairston, Simone J.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B243
Haley, Kalah L.	Engineering, Physics and Mathematics: Bioengineering	F125
Hall, Chaundra	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	D162
Hall, L'eCelia	Biochemistry: Biochemistry	G19
Hall, Mia	Chemistry: Analytical Chemistry	E43
Hall, Steven	Chemistry: Organic Chemistry	D44
Hamilton, Jasmine	Microbiology: Parasitology	B157
Hamilton-Johnson, Ashley F.	Social and Behavioral Sciences and Public Health: Psychology	D158
Hanna, Peter	Neuroscience: Neuroscience	F211

Haque, Noshin M.	**Cell Biology: Molecular Imaging**	**O58**
Haque, Tamara T.	Immunology: Immunology	E89
Harbajan, Sasha	Cell Biology: Cell Biology	B62
Harbour, Marvin	Immunology: Immunology	A133
Hardee, Angelica M.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B185
Harden, Ariel J.	Developmental Biology and Genetics: Genetics	B86
Hare, Tamika	Developmental Biology and Genetics: Genetics	A98
Harrell, Cardell D.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	C161
Harris, Bianca J.	Developmental Biology and Genetics: Genetics	E67
Harris, Dorathy-Ann	Cell Biology: Molecular Imaging	F59
Harris, Kisa	Biochemistry: Metabolism	E01
Harris, Maurita T.	Social and Behavioral Sciences and Public Health: Psychology	C156
Harrison, Anthony	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	E164
Harrison, Ashley R.	Cancer Biology: Cancer Biology	F38
Harrison, Faith	Chemistry: Organic Chemistry	D53
Harrison, Jarreau	Neuroscience: Neurobiology	F204
Harrison, Krystal	Developmental Biology and Genetics: Genetics	B95
Hassan, Iraj	**Cell Biology: Cell Biology**	**O09**
Hawayek, José A.	Engineering, Physics and Mathematics: Bioengineering	A122
Hawes, Armani M.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G239
Hayes, Byron W.	Microbiology: Bacteriology	B138
Hayes, Dolphurs	Chemistry: Analytical Chemistry	G65
Hayes, Evan	Biochemistry: Biomolecules	A18
Haynes, Ashley N.	Engineering, Physics and Mathematics: Biostatistics	G116
Haynes, Joshua A.	Engineering, Physics and Mathematics: Bioengineering	E74
Haynes, Michael G.	Developmental Biology and Genetics: Evolution and Developmental Biology	D64
Heller, Gregory J.	Neuroscience: Neurobiology	C132
Hemphill, Aaron H., II	Biochemistry: Structural Biology	E14
Henderson, Alexander G.	Developmental Biology and Genetics: Developmental Biology	E64
Henderson, Ayana L.	Cancer Biology: Cancer Biology	G37
Henderson, Michelle B.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F252
Heredia, George, Jr.	Physiology: Physiology	F228
Hernandez, Christopher	Neuroscience: Neurobiology	A201
Hernandez, Emily A.	Developmental Biology and Genetics: Developmental Biology	G106
Hernandez, Jennifer	Biochemistry: Biochemistry	D12
Hernandez, Liz M.	Cell Biology: Molecular Imaging	D39
Hernandez, Matthew, III	Microbiology: Environmental Microbiology	F149
Hernandez, Nicholas	Neuroscience: Neurobiology	F201
Hernandez, Nicole S.	Cell Biology: Cell Biology	D119
Hernandez, Norma A.	Physiology: Pharmacology	F231
Hernandez, Roy V.	Biochemistry: Biochemistry	A172
Hernandez, Yazmin M.	Cancer Biology: Cancer Biology	C31
Hernández Figueroa, Amneris	Cancer Biology: Cancer Biology	B27
Hernandez-Encarnacion, Luisa	Cancer Biology: Cancer Biology	D22
Herrera, Gabriella	Neuroscience: Neurobiology	B215
Herrera, Nicole A.	Cell Biology: Plant Biology	C128
Hicks, Tiffany	Molecular and Computational Biology: Computational Biology	G158
Hill, Cedric, II	Developmental Biology and Genetics: Developmental Biology	B97
Hill, Stephanie A.	Immunology: Immunology	F192
Hill, Torrie	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G250
Ho, Vida	Microbiology: Mycology	C100
Hobbs, Cassie	Cancer Biology: Cancer Biology	E30
Hobson, Ronald K., II	Engineering, Physics and Mathematics: Nanotechnology	F110
Hodges, Wesley T.	Biochemistry: Metabolism	B04
Holder Viera, Mileyshmi	Cancer Biology: Cancer Biology	B36
Holloman, Brittany A.	Neuroscience: Neurobiology	C142
Holloway, Chelsee	Physiology: Endocrinology	C153
Hollowell-Moore, Chanel	Social and Behavioral Sciences and Public Health: Psychology	E160

Holt, Brittany M.	Cancer Biology: Cancer Biology	B35
Honaker, Linda A.	Biochemistry: Structural Biology	B23
Hong, Hieu D.	Developmental Biology and Genetics: Genetics	D63
Hong, Seong Im	**Molecular and Computational Biology: Genomics**	**O34**
Hooks, Curtis N.	Social and Behavioral Sciences and Public Health: Psychology	F241
Hopkins, Rebecca	Developmental Biology and Genetics: Developmental Biology	A91
Hossaini, Roya P.	Developmental Biology and Genetics: Genetics	C60
Hosseini, Nedasadat	Developmental Biology and Genetics: Genetics	A190
Hotard, Megan	Chemistry: Organic Chemistry	A65
How, Javier J.	Neuroscience: Neuroscience	E133
Howard, Canisha S.	Molecular and Computational Biology: Genomics	B161
Howell, Eunique	Neuroscience: Neurobiology	A217
Hubbard, Caleb	Cell Biology: Cell Biology	B50
Hudson, Melvin	Biochemistry: Biochemistry	F07
Huerta, Erick	Biochemistry: Biomolecules	G06
Huff, Saira	Immunology: Immunology	F132
Huffman, Diamond	Cancer Biology: Cancer Biology	A35
Huggenberger, Susanna J.	**Immunology: Immunology**	**O73**
Hughes, Kevin J.	Microbiology: Bacteriology	A146
Hughley, Tevin	Neuroscience: Neuroscience	D135
Hunt, Aisha S.	Cancer Biology: Cancer Biology	C118
Hunt, Yolanda	Social and Behavioral Sciences and Public Health: Psychology	E155
Hunter, Joseph W. Jr.	Microbiology: Parasitology	G144
Hussaini, Hamid	Developmental Biology and Genetics: Genetics	B88
Hussein, Abdiasis	Biochemistry: Metabolism	B20
Hutson, Jere` L.	**Molecular and Computational Biology: Proteomics**	**O83**
Huynh, Vincent D.	**Biochemistry: Biochemistry**	**O52**
Ibe, Nnejiuwa U.	Cell Biology: Molecular Imaging	A61
Ibeawuchi, Stella-Rita	Physiology: Pharmacology	B177
Ible, Chantel A.	Engineering, Physics and Mathematics: Mathematics	F119
Ibrahim, Lena F.	Chemistry: Organic Chemistry	B83
Ibrahim, Sara	Molecular and Computational Biology: Bioinformatics	G193
Ifeanyi, Kingsley	Microbiology: Environmental Microbiology	G170
Ihenatu, Lauretta A.	Cell Biology: Plant Biology	F58
Imam, Sara	Social and Behavioral Sciences and Public Health: Sociology	G240
Inderbitzin, Sonya J.	**Immunology: Immunology**	**O25**
Ingram, Eva	Biochemistry: Biochemistry	B10
Inyang, Edidiong	Microbiology: Parasitology	A148
Iradukunda, Emma Carine	Cancer Biology: Cancer Biology	F25
Irey, Emily A.	Developmental Biology and Genetics: Developmental Biology	A93
Irizarry, Juan I.	Cancer Biology: Cancer Biology	D18
Irizarry, Karen M.	Cell Biology: Cell Biology	E34
Irizarry-Caro, Jorge A.	Developmental Biology and Genetics: Genetics	C62
Irizarry-Caro, Ricardo A.	Developmental Biology and Genetics: Genetics	F96
Irving, Olivia R.	Chemistry: Physical Chemistry	D47
Isaad, Noel J.	Neuroscience: Neuroscience	B171
Islam, Mohameed N.	**Immunology: Immunology**	**O75**
Islas, Carla G.	Cancer Biology: Cancer Biology	B30
Ivy, Kendra	Cancer Biology: Cancer Biology	E20
Jackson, Ariella J.	Developmental Biology and Genetics: Developmental Biology	A99
Jackson, Ryan	Cancer Biology: Cancer Biology	G31
Jackson, Tynesha	Biochemistry: Biochemistry	D10
Jacob, Devin N.	Cancer Biology: Cancer Biology	E22
Jacques, Torey D.	Cell Biology: Cell Biology	G51
James, Amanishakhete	Social and Behavioral Sciences and Public Health: Sociology	F247
James, Elisa S. S.	Biochemistry: Biochemistry	F12
Janneh, Alhaji H.	Engineering, Physics and Mathematics: Bioengineering	C81
Jaramillo, Chelsy	Cancer Biology: Cancer Biology	A32

Jarrett, RaJeanna	Physiology: Physiology	D151
Jarvis, Tia S.	Chemistry: Organic Chemistry	A68
Jeffers, Gejae	Chemistry: Environmental Chemistry	G70
Jenkins, Brittany	Microbiology: Bacteriology	F197
Jimenez, Valerimari	Physiology: Physiology	A231
Jimenez, Vanessa	Neuroscience: Neurobiology	D136
Jinfessa, Jote Y.	Engineering, Physics and Mathematics: Nanotechnology	B111
Johnson, Blair A.	Developmental Biology and Genetics: Genetics	D67
Johnson, Brittany N.	Engineering, Physics and Mathematics: Material Sciences	A125
Johnson, Catrina A.	Cell Biology: Cell Biology	G61
Johnson, Dwiesha L.	Cancer Biology: Cancer Biology	B31
Johnson, Keara L.	Cancer Biology: Cancer Biology	G28
Johnson, Marion D.	Chemistry: Organic Chemistry	A81
Johnson, Michelle	Neuroscience: Neuroscience	E141
Johnson, Ryan A.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B191
Johnson, Shawn F.	Cancer Biology: Cancer Biology	A33
Johnson, William	Cancer Biology: Cancer Biology	C113
Jois, Bhavna	Biochemistry: Structural Biology	G16
Jones, Bobby L., II	Developmental Biology and Genetics: Developmental Biology	E120
Jones, Christina	Cell Biology: Cell Biology	G63
Jones, Dymund J.	Engineering, Physics and Mathematics: Bioengineering	D83
Jones, Kelvin M., Jr.	Microbiology: Virology	G186
Jones, Kia J.	Cancer Biology: Cancer Biology	B194
Jones, Lashaka S.	Neuroscience: Neuroscience	B210
Jones, Regina	Molecular and Computational Biology: Computational Biology	B167
Jones, Shaketa E.	Molecular and Computational Biology: Computational Biology	C106
Jones, Stephanie I.	Chemistry: Organic Chemistry	D51
Jones, Travis M.	Microbiology: Mycology	F140
Jones, Victoria M.	**Cancer Biology: Cancer Biology**	**O05**
Jones-Butts, Shannon	Chemistry: Environmental Chemistry	F78
Jordan, Symone V.	**Developmental Biology and Genetics: Genetics**	**O19**
Joseph, Gemel A.	Developmental Biology and Genetics: Developmental Biology	B89
Joseph, Lorne S.	Chemistry: Environmental Chemistry	G64
Joseph, Odelmo D.	Engineering, Physics and Mathematics: Mathematics	D84
Joseph, Tisha S.	Biochemistry: Biochemistry	G07
Juliely, Niyogushima	Chemistry: Environmental Chemistry	B75
Junker, Anthony	Developmental Biology and Genetics: Developmental Biology	E124
Jusino-Cotto, Shirley	Microbiology: Virology	E97
Justiniano, Natalie	Physiology: Physiology	D153
Kaiga, Julie	Cancer Biology: Cancer Biology	A45
Kaiser, Maima M.	Chemistry: Analytical Chemistry	D50
Kalle, Fanta	Cell Biology: Cell Biology	C40
Kamara, Jennifer V.	Cell Biology: Cell Biology	D121
Kanga, konan J.	Cell Biology: Cell Biology	D113
Kapoor, Roche	**Microbiology: Bacteriology**	**O32**
Kaur, Jaskirandeep	Microbiology: Virology	F138
Kaus, Gabriela	Microbiology: Bacteriology	D102
Kayode, Sarah	Developmental Biology and Genetics: Developmental Biology	F101
Kearney-Ramos, Tonisha	Neuroscience: Psychobiology	B173
Keita, Hamidou	Physiology: Physiology	E150
Keller, Yesenia	Cell Biology: Cell Biology	E42
Kelly, Tasheda J.	Biochemistry: Biochemistry	A11
Kelmansky, Michelle	Developmental Biology and Genetics: Evolution and Developmental Biology	G87
Kelow, Simon P.	Molecular and Computational Biology: Bioinformatics	A161
Kennedy, Kendall J.	Molecular and Computational Biology: Bioinformatics	F159
Kennewick, Kelly	Developmental Biology and Genetics: Developmental Biology	F103
Kent, Rosalyn	**Chemistry: Organic Chemistry**	**O63**
Keophaphone, Jason K.	Developmental Biology and Genetics: Evolution and Developmental Biology	B92

Keyes, Ty'Quish	Engineering, Physics and Mathematics: Bioengineering	E72
Khalifa, Muhammad M.	**Chemistry: Pharmaceutical Chemistry**	**O15**
Khallouki, Amal	Cancer Biology: Cancer Biology	C116
Khoury, Rammiz J.	**Cancer Biology: Cancer Biology**	**O06**
Kibui, Julie	Biochemistry: Biochemistry	D03
Kibuye, Faith	Engineering, Physics and Mathematics: Material Sciences	F112
Kiflezghi, Michael	Molecular and Computational Biology: Bioinformatics	D110
Kim, Sara	Biochemistry: Structural Biology	A16
King, Azel R.	Chemistry: Environmental Chemistry	F77
King, Roderick., Jr.	Neuroscience: Neurobiology	A189
King, Tiffany R.	Developmental Biology and Genetics: Developmental Biology	E121
Kingston, Shanika	Molecular and Computational Biology: Genomics	E108
Kochanowsky, Joshua A.	Microbiology: Bacteriology	F144
Koehler, Robert J.	Cancer Biology: Cancer Biology	A28
Kofman, Sigal	Biochemistry: Structural Biology	F11
Kogan, Diane	**Cancer Biology: Cancer Biology**	**O53**
Kohn, Chris	Molecular and Computational Biology: Computer Sciences	B162
Komla, Essie	Neuroscience: Neurobiology	A206
Krongold, Melanie	Immunology: Immunology	D86
Kuklina, Anna S.	Cancer Biology: Cancer Biology	E28
Kuo, Iris	Cancer Biology: Cancer Biology	G45
Kushwaha, Shree S.	Biochemistry: Biochemistry	E08
Kwarteng-Siaw, Miriam A.	Microbiology: Bacteriology	D91
La Cunza, Nilsa	Engineering, Physics and Mathematics: Bioengineering	C77
La' Pelusa, Andrew J.	Physiology: Systems Biology	E152
Lacy, Gabrielle	Cell Biology: Cell Biology	F61
Lagunas, Maritza	Chemistry: Analytical Chemistry	F82
Lake, Thalia C.	Molecular and Computational Biology: Bioinformatics	B160
LaMarche, Nelson M.	**Immunology: Immunology**	**O28**
Lamb, Robert W.	Chemistry: Organic Chemistry	D48
Lambebo, Ashenafi T.	Engineering, Physics and Mathematics: Bioengineering	B110
Lanauze, Claudia B.	Cancer Biology: Cancer Biology	A27
Landa, Isidro, Jr.	Social and Behavioral Sciences and Public Health: Psychology	C165
Landau, Goldy	Developmental Biology and Genetics: Evolution and Developmental Biology	G96
Lane, Alecia L.	Social and Behavioral Sciences and Public Health: Psychology	C162
Lantigua, Laura A.	Molecular and Computational Biology: Bioinformatics	G162
Lawrence, Antoneal	Biochemistry: Biochemistry	F06
Lawson, Leondra S.	Chemistry: Environmental Chemistry	D127
Le, Thao	**Physiology: Systems Biology**	**O44**
Lee, Becky	Microbiology: Environmental Microbiology	C99
Lee, Christian	Microbiology: Environmental Microbiology	B147
Lee, Erica	**Social and Behavioral Sciences and Public Health: Sociology**	**O95**
Lee, Kanghee	Engineering, Physics and Mathematics: Bioengineering	F123
Lee, Shernita	Molecular and Computational Biology: Computational Biology	G194
Lee, Tekeydra	Cancer Biology: Cancer Biology	E26
Lee Barrios, Erica P.	Developmental Biology and Genetics: Genetics	F170
LeGall, Alvin A.	Chemistry: Organic Chemistry	F80
Lehman, Ingrid	Chemistry: Organic Chemistry	B68
Lema, Franklin	Cell Biology: Cell Biology	D123
Lenoir, Jessica J.	**Cell Biology: Cell Biology**	**O12**
Leon, Frank	Neuroscience: Neuroscience	D129
Leon, Rosa M.	Neuroscience: Neuroscience	C143
León Rivera, Rosiris	**Microbiology: Virology**	**O31**
Leon-Ricardo, Brian X.	Molecular and Computational Biology: Genomics	G189
Lerma, Natzidielly	Cancer Biology: Cancer Biology	D17
Leung, Melissa K.	Cancer Biology: Cancer Biology	G43
Lewis, Anissa G.	Immunology: Immunology	G128
Lewis, Lauchon I.	Chemistry: Inorganic Chemistry	A69

Lewis, Markeil O.	Neuroscience: Neurobiology	E130
Lewis, Sharmori A.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B237
Lewter, Lakeisha	Neuroscience: Neuroscience	A219
Li, Junbao	Molecular and Computational Biology: Bioinformatics	D106
Li, Weiwu	Cell Biology: Cell Biology	G56
Liang, Jingsai	Neuroscience: Neuroscience	A193
Lin, Mengjia	Biochemistry: Biochemistry	C09
Linder, Keenan P.	Chemistry: Physical Chemistry	F68
Litchmore, Tiphany	Biochemistry: Biochemistry	E05
Loccoh, Emefah C.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A245
Lodoza, Gabriel A.	Neuroscience: Neuroscience	G221
Logan, Charles E., Jr.	Molecular and Computational Biology: Bioinformatics	A164
Loney-Walsh, Kurt	Physiology: Toxicology	G224
Lopez, Andrea G.	Physiology: Physiology	B233
Lopez, Andrew	Molecular and Computational Biology: Genomics	C110
Lopez, Ashley B.	Neuroscience: Neuroscience	B218
Lopez, Christina	Chemistry: Organic Chemistry	C49
López, Darryl J.	Engineering, Physics and Mathematics: Material Sciences	B126
López, Gabriel R.	Engineering, Physics and Mathematics: Nanotechnology	F115
Lopez, Isabel M.	Cell Biology: Cell Biology	A52
López, Mairyn	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	C159
Lopez, Nancy	Developmental Biology and Genetics: Genetics	D68
Lopez, Sabrina	Developmental Biology and Genetics: Genetics	F88
López-Alfonzo, Erika M.	Biochemistry: Structural Biology	F04
López-Astacio, Robert A.	Immunology: Immunology	A137
López-Yglesias, Américo H.	Immunology: Immunology	F186
Lorquet, Jovans	Cell Biology: Cell Biology	E41
Lott, Lewis Q.	Chemistry: Pharmaceutical Chemistry	C43
Lott, Rhonda B.	Neuroscience: Neuroscience	A195
Louis, Addy J.	Physiology: Physiology	F232
Lowery, Adam, Sr.	Chemistry: Organic Chemistry	A76
Lowery, Ashley D.	Social and Behavioral Sciences and Public Health: Psychology	B184
Loyd, Quentin J.	Cell Biology: Cell Biology	B63
Lozada, Valery V.	Cancer Biology: Cancer Biology	C125
Lucas, Tawaun	Neuroscience: Neuroscience	B221
Luery, Jeffrey	Neuroscience: Neurobiology	B203
Lugo, Ghiara A.	**Cancer Biology: Cancer Biology**	**O55**
Lung, Betty	Physiology: Pharmacology	G228
Lusk, Niageria	Microbiology: Microbial Physiology	B154
Luthria, Gaurav	Molecular and Computational Biology: Computational Biology	G161
Luu, Richard	Cancer Biology: Cancer Biology	C25
Lynch, Briana	Cell Biology: Cell Biology	F62
Lynch, Solomon C.	Cancer Biology: Cancer Biology	C29
Mack, Jacob E.	Physiology: Physiology	D150
Mackley, Vanessa	Engineering, Physics and Mathematics: Bioengineering	F109
Macklin, Bria L.	Engineering, Physics and Mathematics: Bioengineering	E84
Madadi, Krittika	Neuroscience: Neuroscience	F216
Madrona, Liezl D.	Developmental Biology and Genetics: Genetics	A103
Maestas, Brienna E.	Neuroscience: Neuroscience	D138
Magale, Hussein I.	Microbiology: Bacteriology	D95
Magallanes, Maximiliano	Biochemistry: Biomolecules	E02
Magallon, Jesus	Microbiology: Environmental Microbiology	C92
Maglalang, Erick	Chemistry: Organic Chemistry	E53
Magno, Patrick S.	Immunology: Immunology	A132
Mahon, Vondel	Microbiology: Environmental Microbiology	F157
Maina, Ian E.	Biochemistry: Biomolecules	D14
Makarevich, Oleg	Biochemistry: Biochemistry	E16
Maldonado, Lizette A.	Neuroscience: Neuroscience	E139

Maldonado Roman, Marixa	Chemistry: Environmental Chemistry	E111
Malik, Malika A.	Engineering, Physics and Mathematics: Bioengineering	G112
Malone, Erin T.	Cancer Biology: Cancer Biology	F34
Mamur, Aziz	Chemistry: Pharmaceutical Chemistry	A82
Manmiller, Sarah M.	Cancer Biology: Cancer Biology	C19
Manoharan, Michael A.	Cell Biology: Cell Biology	D120
Mapps, Aurelia	Developmental Biology and Genetics: Developmental Biology	B101
Marable, Carmen A.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G237
Marcel, Shelsa S.	Engineering, Physics and Mathematics: Nanotechnology	F107
Maria, Vanessa	Developmental Biology and Genetics: Developmental Biology	G88
Marquez, Maribel P.	Cell Biology: Cell Biology	D118
Marrero-Ortiz, William O.	Chemistry: Organic Chemistry	E117
Martell-Martinez, Ruth M.	Microbiology: Bacteriology	F143
Martin, Brittany	Physiology: Anatomy	G226
Martin, Renata	Cell Biology: Molecular Imaging	C35
Martin, Shenee' C.	Physiology: Physiology	B181
Martin, Sherise	Neuroscience: Neurobiology	F218
Martinez, Alexandra G.	Engineering, Physics and Mathematics: Bioengineering	C78
Martinez, Allison	Cell Biology: Plant Biology	A50
Martinez, Brittany A.	Developmental Biology and Genetics: Developmental Biology	E59
Martinez, Danielle Y.	Immunology: Immunology	B129
Martinez, Eileen M.	Immunology: Immunology	C89
Martinez, Guadalupe G.	Neuroscience: Neurobiology	F222
Martinez, Jorge L., Jr.	Chemistry: Inorganic Chemistry	A72
Martinez, Jose	Chemistry: Inorganic Chemistry	A73
Martinez, Maria C.	Social and Behavioral Sciences and Public Health: Psychology	D165
Martinez, Ramon E., Sr.	Developmental Biology and Genetics: Developmental Biology	F105
Martinez, Ramon, III	Biochemistry: Structural Biology	B24
Martinez Chacin, Raquel C.	Molecular and Computational Biology: Bioinformatics	B163
Martinez Juarez, Cindy	Social and Behavioral Sciences and Public Health: Psychology	F244
Martinez-Cassmeyer, Victor S.	Cell Biology: Plant Biology	C127
Martínez-López, Agleé	Microbiology: Environmental Microbiology	B140
Massey, Rachel	Neuroscience: Neuroscience	G209
Matamoros, Megan S.	Developmental Biology and Genetics: Developmental Biology	E123
Mathew, Lincy E.	Physiology: Toxicology	A229
Matthews, Brandon M.	Chemistry: Physical Chemistry	B82
Matthews, Kiera	Biochemistry: Biochemistry	D04
Maun, Jenny Anne	Engineering, Physics and Mathematics: Bioengineering	D74
Maxwell, Brian A.	Biochemistry: Biomolecules	A182
May, Kamari	Chemistry: Organic Chemistry	F64
Mayers, Derrick J.	Cancer Biology: Cancer Biology	A47
Mayfield, Christian	Neuroscience: Neuroscience	F198
Mayweather, Brittany A.	Neuroscience: Neuroscience	C141
Mazile, Isaac	Developmental Biology and Genetics: Evolution and Developmental Biology	G105
Mbadozie, Uchenna P.	Engineering, Physics and Mathematics: Mathematics	D78
McAllister, Donee	Physiology: Toxicology	B182
McBride, Terri D.	Cancer Biology: Cancer Biology	C124
McCants, Tanika	Biochemistry: Biochemistry	B19
McCauley, DeCoria	Social and Behavioral Sciences and Public Health: Sociology	G241
McCowin, Sayo E.	**Biochemistry: Structural Biology**	**O49**
McCoy, Armeshia S.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G249
McCumsey, Stephanie	Neuroscience: Neurobiology	G211
McDonald, Kaetlyn	Neuroscience: Psychobiology	E129
McDonald, Kori	Chemistry: Physical Chemistry	G77
McHoney, Kacey	Physiology: Physiology	B229
McKay, Mark A., Jr.	Cell Biology: Cell Biology	G52
McKeithen, Danielle N.	Immunology: Immunology	F190
McKetney, Justin	Microbiology: Environmental Microbiology	A157

McKoy, Jenine N.	Engineering, Physics and Mathematics: Bioengineering	C82
McLeary, Monique S.	Developmental Biology and Genetics: Genetics	D56
McMichael, Ashley B.	Molecular and Computational Biology: Proteomics	B158
McQueen, Adonis	Chemistry: Pharmaceutical Chemistry	E118
Medina- Ortiz, Ilza H.	Physiology: Physiology	E148
Medrano, Michael R.	Social and Behavioral Sciences and Public Health: Psychology	B249
Mekki, Pakinam	Cell Biology: Cell Biology	B57
Mekonnen, Jennifer L.	Cancer Biology: Cancer Biology	G40
Meléndez, Jeishla L.	Chemistry: Organic Chemistry	B72
Melvin, Angelica	Social and Behavioral Sciences and Public Health: Psychology	A238
Mendoza, Karla	Cell Biology: Cell Biology	G54
Menocal, Laura	Cancer Biology: Cancer Biology	D19
Mensah, Lydia M.	Engineering, Physics and Mathematics: Nanotechnology	D81
Mesa, Lazaro	Cancer Biology: Cancer Biology	E24
Messina, Marco S.	**Chemistry: Organic Chemistry**	**O62**
Mestre, Luis M.	Molecular and Computational Biology: Bioinformatics	F166
Mezalon, Cassandra	Developmental Biology and Genetics: Developmental Biology	G93
Miles, Chanell	Chemistry: Analytical Chemistry	B77
Millan, Nicole M.	**Developmental Biology and Genetics: Genetics**	**O18**
Millán-Barea, Luis R.	Microbiology: Bacteriology	F147
Miller, Kiara L.	Neuroscience: Neurobiology	A188
Miller, Lazarius	Social and Behavioral Sciences and Public Health: Sociology	G252
Millet, Nolan J., III	Molecular and Computational Biology: Bioinformatics	B168
Milord, Luckele T. C.	Developmental Biology and Genetics: Developmental Biology	C61
Mina, Jessica	Cell Biology: Cell Biology	G50
Miranda, Alannah, Sr.	Biochemistry: Metabolism	C08
Miranda, Diana	Chemistry: Inorganic Chemistry	G81
Miranda, Matilde	Developmental Biology and Genetics: Developmental Biology	B102
Miranda, Miguel A.	Molecular and Computational Biology: Bioinformatics	C108
Miranda, Yoliem S.	Chemistry: Organic Chemistry	A83
Mirza, Qurat-ul-Ann	Engineering, Physics and Mathematics: Biophysics	E71
Missoum, Bouchra	Microbiology: Virology	G179
Mitchell, Martina D.	Neuroscience: Psychobiology	A214
Mitchell, Taylor Y.	**Immunology: Immunology**	**O26**
Moarefian, Mostafa	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G245
Mohammed Nur, Sara	Microbiology: Bacteriology	B148
Mohan, Roshini	Cancer Biology: Cancer Biology	F32
Mojibola, Adeolu	Chemistry: Pharmaceutical Chemistry	E49
Monahan, Ernest	Neuroscience: Neurobiology	F209
Montalvo, Abelardo D.	Cell Biology: Cell Biology	G57
Montalvo, Sebastian	**Biochemistry: Biochemistry**	**O04**
Montalvo, Steven K.	Chemistry: Inorganic Chemistry	A74
Montano, Alexandra N.	Microbiology: Virology	G183
Montes, Jessica	Neuroscience: Neuroscience	G217
Moody, Torez	Cancer Biology: Cancer Biology	C114
Moon, Brianna F.	Cancer Biology: Cancer Biology	E21
Moon, Christina	Developmental Biology and Genetics: Developmental Biology	A96
Moore, Jonathan B.	Developmental Biology and Genetics: Genetics	F106
Moore, Sade	Microbiology: Parasitology	B151
Moore, Sidni	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O47**
Mora, Anthony	Developmental Biology and Genetics: Developmental Biology	G97
Morales, Bryan	Neuroscience: Neuroscience	A196
Morales Silva, Roberto J.	Neuroscience: Neurobiology	G200
Morgan, Isabel A.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	D156
Morris, Alexis	Engineering, Physics and Mathematics: Material Sciences	A127
Morris, Jaleesa	Immunology: Immunology	F129
Morris, Lindsey L.	Biochemistry: Biochemistry	A171
Morris, Marisha L.	Cancer Biology: Cancer Biology	D24

Morris-Hunter, Po'Teea C.	Immunology: Immunology	C90
Morton, Arianna B.	Social and Behavioral Sciences and Public Health: Sociology	B242
Moscoso, Dagmara	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	D163
Mota, Daniel J.	Cancer Biology: Cancer Biology	D30
Moten, Jade	Biochemistry: Biochemistry	G12
Mouhamed, Aminatou Mouhari	Chemistry: Inorganic Chemistry	E48
Mouketou, Chancia	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B240
Moya, Jackelyn J.	Biochemistry: Biochemistry	C02
Moya-Rodríguez, Andrés	Molecular and Computational Biology: Proteomics	F164
Mulet, Carmen T.	Physiology: Endocrinology	C150
Muniz, Javier O.	Neuroscience: Neurobiology	G198
Muniz, Jonathan A.	Chemistry: Inorganic Chemistry	D49
Muñoz, Kevin N.	Physiology: Pharmacology	E153
Murga, Marcela	Cancer Biology: Cancer Biology	C24
Muriel-Mundo, Jorge L., Jr.	Cell Biology: Plant Biology	E40
Muritala, Muhammed-Rilwan	Physiology: Physiology	E151
Murphy-Moore, Lauren	Neuroscience: Neuroscience	F202
Mware, Noelle A.	Engineering, Physics and Mathematics: Material Sciences	G117
Myers, Kimberly	Cancer Biology: Cancer Biology	B41
Myers, Robert	Cancer Biology: Cancer Biology	B46
Myles, DeBorah T.	**Chemistry: Organic Chemistry**	**O13**
Naidu, Monish	Biochemistry: Structural Biology	G10
Naiki, Anna	Cancer Biology: Cancer Biology	E27
Najera, Maria A.	Engineering, Physics and Mathematics: Nanotechnology	A119
Nance, Sierra A.	Developmental Biology and Genetics: Genetics	F84
Navarreto Lugo, Monica	Chemistry: Analytical Chemistry	B81
Navarro, Andre C.	Microbiology: Virology	G177
Nazon, Yves F., II	Engineering, Physics and Mathematics: Bioengineering	F117
Ndiaye, Alimatou	Engineering, Physics and Mathematics: Material Sciences	A107
Neal, Aaron J.	Neuroscience: Psychobiology	C130
Nebeolisa, Uchenna	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A252
Neblett, Tamra I.	Cancer Biology: Cancer Biology	D25
Nehisi, Ashaki N.	Cancer Biology: Cancer Biology	B33
Nelson, Pascale	Biochemistry: Biochemistry	D01
Nesbary, Alicia L.	Physiology: Pharmacology	A227
Newton, Brandon	Immunology: Immunology	B136
Newton, Chelsea	Chemistry: Analytical Chemistry	C45
Newton, Shanna	Developmental Biology and Genetics: Evolution and Developmental Biology	B105
Ng, Victoria	Microbiology: Microbial Physiology	A142
Nguyen, Anthony	Immunology: Immunology	G137
Nguyen, Dan T.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G246
Nguyen, Gina	**Cancer Biology: Cancer Biology**	**O08**
Nguyen, Jacqueline V.	Physiology: Pharmacology	F234
Nguyen, Nhi-Kieu	Cancer Biology: Cancer Biology	C115
Nguyen, ThienThanh	Physiology: Physiology	A230
Nhliziyo, Manelisi V.	Immunology: Immunology	D90
Nicholson, David	Molecular and Computational Biology: Bioinformatics	E107
Nieves, Desiree J.	Neuroscience: Psychobiology	F208
Nieves, Hector A.	Developmental Biology and Genetics: Genetics	E125
Nieves Villanueva, Kiomaris M.	Physiology: Pharmacology	B224
Nimmons, Darshan	Microbiology: Bacteriology	G142
Nisbeth, Kyle S.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G238
Nissly, Christopher M.	Molecular and Computational Biology: Genomics	G166
Nnah, Israel C.	Cell Biology: Cell Biology	D114
Noble, Kenyaria	**Cell Biology: Cell Biology**	**O11**
Nolen, Shayla L.	Engineering, Physics and Mathematics: Mathematics	D75
Norman, Kristyn	Chemistry: Analytical Chemistry	F73
Norton, Melanie	Social and Behavioral Sciences and Public Health: Psychology	F239

Novak, Alexander J.	Biochemistry: Biochemistry	B03
Novoa, Daniel A.	Biochemistry: Biochemistry	A175
Ntaganda, Liliane	Engineering, Physics and Mathematics: Mathematics	E76
Nuhar, Ahmed	Physiology: Toxicology	B232
Nunez, Francisco, Jr.	Engineering, Physics and Mathematics: Mathematics	B115
Nwaneri, Chisom	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	G254
Nwaopara, Amanda	**Physiology: Endocrinology**	**O92**
Nwarueze, Nina C.	Cancer Biology: Cancer Biology	A41
Nwokoye, Diana	Developmental Biology and Genetics: Genetics	C67
Nyambura, Grace	Chemistry: Organic Chemistry	B76
Nzuki, Isaac M.	Social and Behavioral Sciences and Public Health: Psychology	A237
O'Bott, Jacob	Engineering, Physics and Mathematics: Biostatistics	G113
Oakes, Mariah K.	Microbiology: Virology	D99
Ochoa, Edgar	Engineering, Physics and Mathematics: Bioengineering	D80
Odowa, Nima I.	Developmental Biology and Genetics: Developmental Biology	E65
Odukale, Olumayokun O.	Physiology: Toxicology	F224
Ofori, Edna	Cancer Biology: Cancer Biology	B44
Ogbo, Stephanie A.	**Cell Biology: Cell Biology**	**O60**
Ogundolie, Taiwo O.	Chemistry: Physical Chemistry	C54
Ohaeto, Kelechi	Cancer Biology: Cancer Biology	G38
Ojelade, Shamsideen A.	Neuroscience: Neurobiology	A186
Okonkwo, Christopher	Engineering, Physics and Mathematics: Material Sciences	E75
Okoronkwo, Michael	Neuroscience: Neurobiology	E144
Okpara, Chidiebere D.	Developmental Biology and Genetics: Genetics	D69
Okunlola, Winifred O.	Cancer Biology: Cancer Biology	F41
Oladeru, Oladoyin	Engineering, Physics and Mathematics: Material Sciences	F180
Olmos, Jose L., Jr.	Biochemistry: Biochemistry	B07
Omer, Salma	**Biochemistry: Metabolism**	**O50**
Omotoso, Morenikeji	Social and Behavioral Sciences and Public Health: Psychology	E158
Ongele, Michael O.	Physiology: Physiology	B231
Orench-Rivera, Nichole	Engineering, Physics and Mathematics: Biophysics	A123
Orozco, Jose A.	Immunology: Immunology	A135
Orpilla, Estella	Cell Biology: Plant Biology	F52
Ortiz, Cassandra	Physiology: Systems Biology	B227
Ortiz, Elelbin A.	Engineering, Physics and Mathematics: Bioengineering	F118
Ortiz, Veronica	Cancer Biology: Cancer Biology	G46
Ortiz Pimentel, Sindy M.	**Social and Behavioral Sciences and Public Health: Sociology**	**O45**
Ortiz Rodriguez, Angel L.	Neuroscience: Neurobiology	E135
Ortiz-Carpena, Jorge F.	Neuroscience: Psychobiology	C139
Ortiz-Hernández, Greisha L.	Immunology: Immunology	C88
Osuna, Suzanna	Social and Behavioral Sciences and Public Health: Psychology	D154
Osunsade, Adewola	Biochemistry: Biochemistry	G14
Otaño Rivera, Victor E.	Cancer Biology: Cancer Biology	E18
Ott, Nadia	**Engineering, Physics and Mathematics: Mathematics**	**O22**
Owens, Bianca	Cancer Biology: Cancer Biology	G29
Owens, Darlisha L.	Neuroscience: Neuroscience	D143
Owens, Harold, III	Engineering, Physics and Mathematics: Material Sciences	F116
Pacheco del Rio, Zuania	Engineering, Physics and Mathematics: Bioengineering	F172
Padilla, Omar	Engineering, Physics and Mathematics: Bioengineering	C76
Padilla, Roberto	Chemistry: Inorganic Chemistry	E112
Pagan, Kimberly A.	Cancer Biology: Cancer Biology	C27
Pagan Mercado, Sharinelle M.	Neuroscience: Neuroscience	F207
Pagela, Michael	Molecular and Computational Biology: Computer Sciences	G164
Palacios, Joshua I.	Engineering, Physics and Mathematics: Bioengineering	D73
Paniagua, Steven	Cell Biology: Cell Biology	E38
Paniagua Morales, Oscar	Cancer Biology: Cancer Biology	C18
Paramo, Moises S.	Developmental Biology and Genetics: Evolution and Developmental Biology	F93
Paredes Mesa, Stephany	Engineering, Physics and Mathematics: Nanotechnology	E78

Parks, Eric Maurice	Chemistry: Analytical Chemistry	D125
Pascual, Clarence	Cell Biology: Cell Biology	E37
Pass, Kenneth M.	**Social and Behavioral Sciences and Public Health: Public Health and Epidemiology**	**O48**
Patel, Dipen	Neuroscience: Neuroscience	F210
Patiño, Maribel	Neuroscience: Neurobiology	A220
Patino-Guzman, Karina	Immunology: Immunology	C87
Patray, Sharon N.	Biochemistry: Biochemistry	F05
Patterson, Carvey	Cancer Biology: Cancer Biology	B195
Paziraei, Atefeh	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A254
Pearson, Aterica B.	Immunology: Immunology	F133
Peggins, Aparecio D.	Neuroscience: Psychobiology	B201
Pegues, J'undra N.	Neuroscience: Neuroscience	E134
Pena, Antonio	Biochemistry: Biochemistry	A15
Pena, Jennifer M.	Microbiology: Parasitology	A147
Penner, Elizabeth	Microbiology: Environmental Microbiology	G138
Perez, Alejandra M.	Cancer Biology: Cancer Biology	F42
Perez, Brian S.	Developmental Biology and Genetics: Developmental Biology	A88
Perez, Catherine	Cell Biology: Cell Biology	D37
Perez, Eliezer O., Jr.	Immunology: Immunology	D85
Perez, Ismael	Engineering, Physics and Mathematics: Mathematics	F126
Perez, Joseph, II	Microbiology: Virology	C101
Perez, Paola K.	Cancer Biology: Cancer Biology	F39
Perez, Pedro E.	Molecular and Computational Biology: Computational Biology	G195
Perez, Rafael E.	Neuroscience: Neuroscience	B222
Pérez, Rafael E.	Developmental Biology and Genetics: Developmental Biology	F90
Perez Medina, Krizia M.	Microbiology: Bacteriology	E94
Peritore, Franklin C.	Biochemistry: Biochemistry	E07
Perkins, Clarice	Social and Behavioral Sciences and Public Health: Psychology	G251
Perkins, Keith A., Jr.	Microbiology: Environmental Microbiology	G150
Perlaza, Karina	Biochemistry: Biochemistry	B16
Perry, Danielle R.	Physiology: Toxicology	A228
Perryman, Danielle C.	Developmental Biology and Genetics: Developmental Biology	A102
Persaud, Ashley	Immunology: Immunology	G134
Persaud, Mirjana M.	Cancer Biology: Cancer Biology	B37
Perwez, Neda	Cancer Biology: Cancer Biology	F43
Peters, Garvin M.	Chemistry: Organic Chemistry	C44
Peterson, Andrew C.	Engineering, Physics and Mathematics: Material Sciences	B113
Peterson, Brendon D.	Cell Biology: Cell Biology	G59
Pham, An	Developmental Biology and Genetics: Developmental Biology	B84
Phan, Andy T.	Chemistry: Physical Chemistry	C55
Phan, Yen H.	Molecular and Computational Biology: Bioinformatics	G160
Pherribo, Gordon J.	Developmental Biology and Genetics: Genetics	E61
Phillips, Nefaterria	Physiology: Nutrition	D147
Phillips, Tori	Cancer Biology: Cancer Biology	F27
Pickard, Benjamin	Engineering, Physics and Mathematics: Bioengineering	A110
Piercy, Marc A.	Neuroscience: Neurobiology	F219
Pierre, Bechir-Auguste	Immunology: Immunology	F130
Pilcher, Lauren N.	Molecular and Computational Biology: Proteomics	A166
Pineda, Christopher M.	Developmental Biology and Genetics: Developmental Biology	B96
Pineda, Dallas	Biochemistry: Biochemistry	E13
Pinto, Miguel N.	Chemistry: Organic Chemistry	E116
Pinto-Pacheco, Brismar	Chemistry: Analytical Chemistry	B65
Pires, Elena	Developmental Biology and Genetics: Genetics	A86
Placeres, Angel L.	Chemistry: Pharmaceutical Chemistry	D45
Plair, Jennifer	Cell Biology: Cell Biology	D41
Planell-Méndez, Ivette M.	Cell Biology: Molecular Imaging	A62
Platero, Alexander	**Molecular and Computational Biology: Proteomics**	**O33**
Platt, Derek J.	Developmental Biology and Genetics: Genetics	F85

Polanco García, Jessie J.	Neuroscience: Neurobiology	O88
Pollard, Mariah	Neuroscience: Neuroscience	C131
Pollard, Marquese	Engineering, Physics and Mathematics: Material Sciences	B108
Polston, Christopher C.	Cancer Biology: Cancer Biology	F46
Ponton, Robert R. F.	Developmental Biology and Genetics: Developmental Biology	G100
Pope, Zavier A.	Immunology: Immunology	G136
Porch, Tichelle C.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F255
Portorreal, Yasiri	**Cell Biology: Molecular Imaging**	**O57**
Portugal Leon, Aranza	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	E162
Poventud-Fuentes, Isomary	Cell Biology: Cell Biology	F57
Prado, Adriana M.	Physiology: Toxicology	B230
Prioleau, Brittany S.	Developmental Biology and Genetics: Developmental Biology	A97
Pruss, Kali M.	Biochemistry: Biomolecules	B02
Puentes, Carlos A., II	Social and Behavioral Sciences and Public Health: Psychology	B241
Pulliam, Jamon P.	Social and Behavioral Sciences and Public Health: Psychology	F245
Puplampu-Dove, Yvonne	Immunology: Immunology	F187
Pyle, Jacqueline	Neuroscience: Neurobiology	D133
Quasie-Woode, Devona Z. I.	Biochemistry: Biochemistry	G18
Quijano Cardé, Eva M.	Microbiology: Virology	G185
Quijano-Cardé, Natalia A.	Physiology: Pharmacology	C151
Quinones, Linda S.	Biochemistry: Biochemistry	C16
Quinones, Victoria E.	**Social and Behavioral Sciences and Public Health: Psychology**	**O46**
Quintana, Gwendolyn A.	Physiology: Physiology	A225
Quintanilla, Carlo G.	Neuroscience: Neurobiology	C129
Qureshi, Mariam	Immunology: Immunology	B130
Rabby, Quyymun S.	Social and Behavioral Sciences and Public Health: Psychology	D155
Radcliffe, Amethyst	Molecular and Computational Biology: Computational Biology	A165
Radden, Taylor M.	Physiology: Anatomy	G233
Rajendran, Kaarthik	Biochemistry: Biochemistry	E15
Rale, Michael J.	Cell Biology: Cell Biology	B52
Ramirez, Alyson	Cancer Biology: Cancer Biology	C122
Ramirez, Edgardo	Social and Behavioral Sciences and Public Health: Psychology	F251
Ramirez, Kasandra L.	Engineering, Physics and Mathematics: Bioengineering	A126
Ramirez, Susan N.	Cell Biology: Cell Biology	A53
Ramkhelawan, Joel B.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	C164
Ramos, Dagoberto B.	Biochemistry: Biochemistry	A13
Ramos, Erika K.	Microbiology: Bacteriology	C91
Ramos, Paola A.	Cancer Biology: Cancer Biology	D26
Ramos, Sashary	Chemistry: Physical Chemistry	E51
Ramos Medina, Liorimar	Neuroscience: Neuroscience	E145
Ramos-Camacho, Elisa	Biochemistry: Biochemistry	A19
Ramos-Diaz, Sylvette	Cancer Biology: Cancer Biology	G32
Ramos-Ortiz, Gibram A.	Developmental Biology and Genetics: Genetics	B100
Ramsundar, Ariane S.	Engineering, Physics and Mathematics: Biophysics	D82
Randolph, Anita C.	Neuroscience: Neurobiology	A200
Rangel, Margarita V.	Microbiology: Environmental Microbiology	B144
Rao, Divya	Engineering, Physics and Mathematics: Nanotechnology	E79
Ravichandran, Vani S.	Physiology: Physiology	G232
Rayford, Margie A.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F256
Reader, Matthew S.	Engineering, Physics and Mathematics: Nanotechnology	A113
Readus, Jade M.	Biochemistry: Biochemistry	C15
Redhage, Keely	Microbiology: Bacteriology	D97
Reed, Theo L.	Microbiology: Bacteriology	C102
Reid, Michelle S.	Biochemistry: Structural Biology	E03
Reimer, Armando	**Biochemistry: Biomolecules**	**O01**
Remmel, Michael T.	Neuroscience: Neurobiology	G220
Retana, Perla A.	Microbiology: Virology	A141
Rey, David	Biochemistry: Structural Biology	A04

Reyes, Dalilah	Biochemistry: Biochemistry	E04
Reyes, Efren A., Jr.	Microbiology: Bacteriology	A149
Reyes, Raisa A.	Developmental Biology and Genetics: Developmental Biology	E70
Reyes Ruiz, Valeria M.	Microbiology: Environmental Microbiology	A154
Rezaei, Samira	Engineering, Physics and Mathematics: Bioengineering	A108
Rhodes, Sade	Biochemistry: Biochemistry	A174
Ribado, Jessica	Molecular and Computational Biology: Informatics	A160
Richard, Tequila	Microbiology: Environmental Microbiology	G140
Richardson, Leeá P.	Neuroscience: Psychobiology	B176
Richburg, Aquia	Engineering, Physics and Mathematics: Mathematics	F127
Richmond, Sasha N.	Microbiology: Bacteriology	B153
Rico, Karen M.	Biochemistry: Metabolism	A21
Ridenbaugh, Brittny L.	Chemistry: Environmental Chemistry	D43
Rigaud, Jean-Herbert G.	Chemistry: Pharmaceutical Chemistry	E55
Rios, Mayra A.	Biochemistry: Biochemistry	G01
Rivas, Monica	Chemistry: Organic Chemistry	C46
Rivera, Ashley M.	Microbiology: Bacteriology	F153
Rivera, Ashley A.	Microbiology: Mycology	E92
Rivera, Iris V.	**Biochemistry: Biochemistry**	**O03**
Rivera, Kevin	Engineering, Physics and Mathematics: Bioengineering	F173
Rivera, Marimer C.	Biochemistry: Biochemistry	A22
Rivera, Osvaldo D.	Biochemistry: Biochemistry	G15
Rivera, Rene	Developmental Biology and Genetics: Evolution and Developmental Biology	F97
Rivera, Sherry	Biochemistry: Biochemistry	A12
Rivera Rodriguez, Juan P.	Biochemistry: Metabolism	D05
Rivera-Lugo, Rafael J.	Developmental Biology and Genetics: Developmental Biology	F100
Rivera-Pérez, Luis M.	Neuroscience: Neuroscience	G215
Rivera-Pintado, Christopher A.	Cancer Biology: Cancer Biology	G41
Rivera-Reyes, Adrian	Cancer Biology: Cancer Biology	C121
Rivera-Soto, Ricardo	Physiology: Toxicology	A232
Rivers, Derien	Neuroscience: Neuroscience	B198
Robinson, Cree T.	**Neuroscience: Neuroscience**	**O86**
Roby, Julian D.	Neuroscience: Neuroscience	G210
Roby, Kerry C., Jr.	Immunology: Immunology	A130
Rodriguez, Diviana D.	Cell Biology: Cell Biology	D36
Rodriguez, Eduardo D.	Neuroscience: Psychobiology	A205
Rodriguez, Gaddiel, Jr.	Biochemistry: Biochemistry	B15
Rodriguez, Henoc	Microbiology: Bacteriology	F195
Rodriguez, Jose Mario	Cancer Biology: Cancer Biology	D27
Rodriguez, Kelsie M.	Biochemistry: Biochemistry	F15
Rodriguez, Mario	Developmental Biology and Genetics: Genetics	G103
Rodriguez, Tomas	Developmental Biology and Genetics: Genetics	F102
Rodriguez, Yasaira I.	Immunology: Immunology	A136
Rodriguez Corrales, Jose A.	Chemistry: Inorganic Chemistry	E113
Rodriguez Nieves, Jennifer	Immunology: Immunology	F191
Rodriguez-Alvarado, Melanie	Neuroscience: Neuroscience	A222
Rodríguez-Ayala, William D.	Microbiology: Environmental Microbiology	C94
Rogers, Diamond	Chemistry: Analytical Chemistry	G79
Rogers, Nicholas M. K.	Microbiology: Mycology	F155
Rogers, Recaldo	Chemistry: Analytical Chemistry	F70
Rojas, Jennifer A.	Neuroscience: Neuroscience	A211
Rolle, Tiffany	Biochemistry: Biochemistry	A01
Roman, Alfredo	Cancer Biology: Cancer Biology	F44
Roman, Chrisitna A.	**Biochemistry: Structural Biology**	**O02**
Román, Irán R.	Cancer Biology: Cancer Biology	G25
Roman, Natalia I.	Chemistry: Inorganic Chemistry	E46
Roman-Rodriguez, Franklin	Microbiology: Environmental Microbiology	C97
Romero, Barbara	Microbiology: Microbial Physiology	B143

Romero, Dino C.	Immunology: Immunology	A129
Romero Ramos, Antonio	Engineering, Physics and Mathematics: Material Sciences	D72
Rosado, Edwin A.	Cell Biology: Molecular Imaging	B58
Rosado, Karolyna	Biochemistry: Biochemistry	C14
Rosado-Alicea, Jamie A., Sr.	Engineering, Physics and Mathematics: Biophysics	E73
Rosado-Franco, Jose J.	Engineering, Physics and Mathematics: Nanotechnology	C84
Rosario-Sepulveda, Joshua I.	Molecular and Computational Biology: Proteomics	C109
Rosas, Carlos E.	Social and Behavioral Sciences and Public Health: Psychology	G242
Rosas, Emmanuel	Neuroscience: Neurobiology	D144
Rosenberg, Haley I.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F254
Roundtree, Michael A., Jr.	Chemistry: Physical Chemistry	F75
Rowles, Joe L., III	Developmental Biology and Genetics: Genetics	E128
Ruiz, Fiona	Cell Biology: Cell Biology	A59
Ruiz, Karen	Biochemistry: Structural Biology	B11
Ruiz, Nicole M.	Molecular and Computational Biology: Bioinformatics	G192
Ruiz, Sarah	Neuroscience: Neurobiology	F215
Ruiz, Vanessa	Chemistry: Pharmaceutical Chemistry	A79
Ruiz-Esteves, Karina N.	Neuroscience: Neurobiology	D140
Rush, Leah	Developmental Biology and Genetics: Genetics	G89
Rush, Scott	Biochemistry: Structural Biology	D09
Russell, Celeste	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B188
Rutagarama, Ornella	Cancer Biology: Cancer Biology	F45
Ruvalcaba, Arturo B., Jr.	Microbiology: Environmental Microbiology	G151
Ryans, Khamia	Immunology: Immunology	F185
Saavedra, Rocio D.	Cancer Biology: Cancer Biology	D23
Saborit, Claudia	Neuroscience: Neuroscience	F220
Sadagopan, Supriya	Biochemistry: Structural Biology	E10
Sadeghi, Rochelle	Cell Biology: Cell Biology	D40
Sagarnaga, Manuel A.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F249
Sahraoui, Rebecca J.	Molecular and Computational Biology: Genomics	A167
Salazar, Alex N.	Molecular and Computational Biology: Genomics	A168
Salazar, Justin Ryan	Microbiology: Virology	E103
Salazar, Vincent	Social and Behavioral Sciences and Public Health: Sociology	F253
Salcedo, Eugenia C.	Cancer Biology: Cancer Biology	D21
Saldana, David	Biochemistry: Biochemistry	G05
Salgado, Fernando, Jr.	Microbiology: Parasitology	G155
Salvador, Allion A.	Neuroscience: Neurobiology	A223
Sampson, Kevon	Immunology: Immunology	D89
Sánchez, Ashley A.	Biochemistry: Biochemistry	G08
Sanchez, Erica L.	Microbiology: Virology	G182
Sanchez, Isabella	Developmental Biology and Genetics: Developmental Biology	B106
Sanchez, Jeremy	Biochemistry: Biomolecules	C01
Sanchez, Julio C.	Microbiology: Virology	B150
Sanchez, Kathryn E.	Physiology: Systems Biology	E149
Sanchez, Sebastian	Biochemistry: Biochemistry	B22
Sandoval, Korina E.	Biochemistry: Biochemistry	F17
Sands, Kendall T.	Microbiology: Bacteriology	E100
Sankoh, Mariam	Molecular and Computational Biology: Bioinformatics	D109
Santana-Rodriguez, Zuleirys	Neuroscience: Neuroscience	E143
Santiago, Annyoceli	Chemistry: Pharmaceutical Chemistry	A64
Santiago, Ismael D.	Neuroscience: Psychobiology	B175
Santiago-López, Angel J.	Engineering, Physics and Mathematics: Bioengineering	D79
Santoyo, Juan F.	**Neuroscience: Psychobiology**	**O87**
Sargent-Johnson, Nicholas C.	Chemistry: Organic Chemistry	F69
Sass, Julian A.	Engineering, Physics and Mathematics: Mathematics	G111
Saucedo, Abel G.	Biochemistry: Biochemistry	A07
Saunders, A.C. Everard	Neuroscience: Neurobiology	G206
Saunders, Allen D.	Chemistry: Environmental Chemistry	F83

Schanzle, Jennifer C.	Physiology: Physiology	B235
Schekman, Jacob M.	Chemistry: Inorganic Chemistry	A75
Schneider, Emily C.	Microbiology: Bacteriology	F151
Schneiderman, Stuart M.	Social and Behavioral Sciences and Public Health: Sociology	B239
Scott, Ashley J.	Engineering, Physics and Mathematics: Bioengineering	G114
Scott, Ninecia	Microbiology: Bacteriology	A139
Scruse, Anthony	Chemistry: Organic Chemistry	A77
Scurrah, Cherie' R.	Neuroscience: Neurobiology	G223
Seaberry, Michael J.	Cell Biology: Cell Biology	C34
Seabrooks, Shavonda	Engineering, Physics and Mathematics: Mathematics	G108
Seale, Nailah M.	Engineering, Physics and Mathematics: Bioengineering	C71
Segura, Laura	Neuroscience: Neurobiology	D132
Selvam, Vani P.	**Neuroscience: Neurobiology**	**O38**
Senegal, Sarena L.	Cancer Biology: Cancer Biology	A26
Serrano, Genesis	Molecular and Computational Biology: Bioinformatics	C105
Servin, Victoria	**Neuroscience: Neuroscience**	**O39**
Sesay, Alphius A. K.	Cancer Biology: Cancer Biology	B47
Setzu, Nicole R.	Immunology: Immunology	E86
Seu, Michelle	Biochemistry: Structural Biology	F21
Shaffer, Amber S.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B244
Shagarabi, Shezza	Neuroscience: Neuroscience	C145
Shah, Apurva	Chemistry: Environmental Chemistry	G67
Shah, Ruchi	Cancer Biology: Cancer Biology	G44
Sharpe, Imani N.	**Molecular and Computational Biology: Genomics**	**O82**
Shaver, Tara M.	Social and Behavioral Sciences and Public Health: Psychology	E156
Shelton, Debresha A.	**Microbiology: Mycology**	**O79**
Shenoi, Nancy C.	Physiology: Anatomy	F230
Sherman, Cleve, Jr.	Cell Biology: Cell Biology	G53
Shirley, Matthew A.	Chemistry: Organic Chemistry	G69
Sicalo, Jacqueline	Microbiology: Virology	G176
Sierra-Pagán, Javier E.	Developmental Biology and Genetics: Developmental Biology	D70
Sigala, Alexander J.	Developmental Biology and Genetics: Evolution and Developmental Biology	A101
Silva, Rebecca	Engineering, Physics and Mathematics: Nanotechnology	A116
Silva-Del Toro, Stephanie L.	Microbiology: Environmental Microbiology	G172
Simmons, Alysha	Cancer Biology: Cancer Biology	A43
Simpson, Precious	Microbiology: Environmental Microbiology	B141
Sims, Emmanuel J.	Neuroscience: Psychobiology	G202
Singh, Amisha	Cell Biology: Cell Biology	B53
Siraliev-Perez, Edhriz	Biochemistry: Biochemistry	A05
Slade, Tyler D.	Molecular and Computational Biology: Genomics	F165
Slaybaugh, Kate	Physiology: Pharmacology	B225
Slobod, Elina	Cell Biology: Molecular Imaging	A56
Smink, Jordan A.	Molecular and Computational Biology: Proteomics	B159
Smith, Alana J.	Immunology: Immunology	G133
Smith, Ariana J.	Neuroscience: Neurobiology	D142
Smith, Jesse D.	Engineering, Physics and Mathematics: Biostatistics	G121
Smith, Jessica R.	Microbiology: Environmental Microbiology	D93
Smith, Leekira	Cancer Biology: Cancer Biology	A36
Smith, Marsalis T.	Physiology: Physiology	C152
Smith, Melvin L., Jr.	Social and Behavioral Sciences and Public Health: Anthropology	C160
Smith, Michael	Immunology: Immunology	B128
Smith, Renee F.	Developmental Biology and Genetics: Evolution and Developmental Biology	A92
Smith, Ronald T., II	Microbiology: Parasitology	G154
Smith, Taylor	Chemistry: Analytical Chemistry	F66
Smith-Washington, Akili N.	Engineering, Physics and Mathematics: Biophysics	G120
Soares, Jana	Microbiology: Bacteriology	F145
Soler, Joel E.	Neuroscience: Psychobiology	C140
Soliman, Mary	Cell Biology: Molecular Imaging	E36

Solomon, Olivia D.	Engineering, Physics and Mathematics: Bioengineering	G107
Sonko, Momodou L.	**Physiology: Endocrinology**	**O42**
Soo-Hoo, Sarah	**Cancer Biology: Cancer Biology**	**O54**
Sosa-Rivera, Jesus M.	Immunology: Immunology	G130
Soto, Katherina	Neuroscience: Neuroscience	F212
Soto, Paola A.	Physiology: Toxicology	E146
Soto, Yarelys	Cancer Biology: Cancer Biology	A39
Soto-Soto, Emilio E., Jr.	Neuroscience: Neuroscience	A197
Spann, Mousetta	Chemistry: Environmental Chemistry	A78
Spence, Daron R.	Engineering, Physics and Mathematics: Material Sciences	F181
Spires, Denisha R.	Physiology: Pharmacology	D149
Spooney, John D., III	Chemistry: Physical Chemistry	C48
Sridhar, Varshini	Molecular and Computational Biology: Proteomics	G190
Stafford, Khalifa	Social and Behavioral Sciences and Public Health: Anthropology	G253
Stanford, Cassandra	Engineering, Physics and Mathematics: Bioengineering	G123
Stanford, Lindsay	Microbiology: Bacteriology	F141
Steenrod, Natalie	Chemistry: Organic Chemistry	G74
Stephens, Kierra	Immunology: Immunology	G131
Stephens, Phillip C.	Neuroscience: Neuroscience	G213
Stern, Alan	Engineering, Physics and Mathematics: Biophysics	C79
Stevens-Sostre, Whitney A.	Cell Biology: Molecular Imaging	F63
Steward, Margaret	Neuroscience: Neurobiology	G218
Stewart, LaJoy A.	Cell Biology: Cell Biology	B54
Stinson, Asia M.	Cell Biology: Cell Biology	C39
Stoeckmann, Jillian	Developmental Biology and Genetics: Developmental Biology	C59
Stokes, James A., III	Cancer Biology: Cancer Biology	C111
Stops, Marvin W., Jr.	Engineering, Physics and Mathematics: Bioengineering	A115
Stringfield, Margie	Cell Biology: Plant Biology	A54
Stroman, Jamila	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A249
Suarez, Luisa	Developmental Biology and Genetics: Genetics	C69
Sudler, Sydney R.	Cancer Biology: Cancer Biology	B25
Summers, Brittini	**Physiology: Pharmacology**	**O89**
Sumner, Bezawit	Engineering, Physics and Mathematics: Biophysics	F175
Sweeney, Mitzi	Neuroscience: Psychobiology	B174
Sweeting, Josiah	Social and Behavioral Sciences and Public Health: Psychology	F243
Sykes, Jamaica N.	Immunology: Immunology	F136
Tabet, Ezekiel C.	Microbiology: Virology	D101
Tackie-Yarboi, Ethel N.	Developmental Biology and Genetics: Genetics	A90
Tagle Rodriguez, Marlen S.	Cancer Biology: Cancer Biology	F30
Tapia, Jazma	Immunology: Immunology	B135
Taveras, Sharina	Chemistry: Physical Chemistry	F81
Taylor, Amal	**Chemistry: Organic Chemistry**	**O16**
Taylor, Chantia	Biochemistry: Structural Biology	F14
Taylor, Devin A.	**Molecular and Computational Biology: Proteomics**	**O84**
Tchio, Cynthia M.	Chemistry: Analytical Chemistry	A66
Tejeda, Alexander O.	Molecular and Computational Biology: Proteomics	A158
Temeche, Eleni G.	Biochemistry: Structural Biology	F24
Temple, Brandi K.	Cancer Biology: Cancer Biology	G33
Tennell, Gwendolyn Y.	Molecular and Computational Biology: Computer Sciences	G165
Theard, Patricia L.	Biochemistry: Biochemistry	B12
Thomas, Gwenaelle	Molecular and Computational Biology: Bioinformatics	G163
Thomas, Krystal R.	Social and Behavioral Sciences and Public Health: Psychology	C163
Thomas, Nakeya S.	Microbiology: Environmental Microbiology	A155
Thomas, Phaedra J.	Microbiology: Parasitology	G174
Thomas, Phillip	Physiology: Pharmacology	B178
Thomas, Shanell C.	Physiology: Pharmacology	D146
Thomas, Stacey	Cancer Biology: Cancer Biology	F40
Thompson, Aaron	Immunology: Immunology	A134

Thompson, Destinie L.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B254
Thompson, Jared M. J.	Neuroscience: Neurobiology	E142
Thompson, Marc	Engineering, Physics and Mathematics: Material Sciences	D71
Thompson, Taylor V.	Developmental Biology and Genetics: Genetics	C70
Thompson, Terrence	Engineering, Physics and Mathematics: Material Sciences	C80
Thorne, Gabriell	Physiology: Pharmacology	B234
Thornton, Keaira	Microbiology: Environmental Microbiology	G146
Tierney, Savanna M.	Neuroscience: Neurobiology	B223
Tikhomirova, Dasha	Biochemistry: Biochemistry	B01
Timmons, Syvonne	Engineering, Physics and Mathematics: Bioengineering	A120
Tippie, Altramiese	Chemistry: Analytical Chemistry	G68
Tipping, Bethany	Molecular and Computational Biology: Computational Biology	G159
Tisnado, Jerrell R., Sr.	Cell Biology: Cell Biology	D33
Toledo Fernandez, Yaima	Developmental Biology and Genetics: Genetics	G94
Toledo Torres, Karen N.	Developmental Biology and Genetics: Developmental Biology	D65
Tomorrow Perryman, Shaunteri	Cell Biology: Molecular Imaging	B55
Torre, Gianna	**Cancer Biology: Cancer Biology**	**O56**
Torres, Milton E.	Developmental Biology and Genetics: Genetics	G92
Torres, Vivianna	Biochemistry: Biochemistry	G09
Torres Claudio, Elizabeth	Social and Behavioral Sciences and Public Health: Psychology	G247
Torres-Luquis, Odalys J.	Cell Biology: Plant Biology	C36
Tovar, Dorothy	Chemistry: Pharmaceutical Chemistry	E54
Tovar, Ramiro, III	Cancer Biology: Cancer Biology	B26
Tovar, Roberto C.	Chemistry: Inorganic Chemistry	F67
Tran, My	Chemistry: Organic Chemistry	G73
Trevino, Viviana	Developmental Biology and Genetics: Evolution and Developmental Biology	B94
Trezza, Christopher J.	Cell Biology: Cell Biology	A55
Tross, Erica M.	Developmental Biology and Genetics: Developmental Biology	E122
Tsui, C.Y. Kimberly	Neuroscience: Neurobiology	B209
Tu, Vincent	Molecular and Computational Biology: Genomics	A163
Tucker, Nyka J.	Immunology: Immunology	D88
Turpin, Courtney P.	Cell Biology: Cell Biology	D112
Tuyen, Kenney	Immunology: Immunology	F137
Tyler, Yseulte	Physiology: Pharmacology	A224
Tyson, Danielle P.	Neuroscience: Neurobiology	G199
Udoeyo, Uduak F.	Microbiology: Bacteriology	A143
Udoh, Inimfon	Microbiology: Virology	G180
Udokop, Rebecca	Immunology: Immunology	E85
Umejiego, Ezigbobiara N.	Neuroscience: Neurobiology	B214
Uribe, Kevin	Neuroscience: Neuroscience	A218
Urtecho, Guillaume	Developmental Biology and Genetics: Genetics	E127
Usher, Jasmine C.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A247
Valdes-Sanchez, Chavely	Developmental Biology and Genetics: Developmental Biology	A105
Valdez, Jose M.	Engineering, Physics and Mathematics: Bioengineering	B109
Valdez, Lourdes A.	Developmental Biology and Genetics: Genetics	G84
Valdez, Reyna, Sr.	Cell Biology: Cell Biology	D35
Valdiviez, Michelle	Cell Biology: Cell Biology	A57
Valencia, Evelyn	Biochemistry: Biochemistry	B14
Valle Oseguera, Cendy A.	Microbiology: Virology	G178
Valmyr, Yamilee	Microbiology: Bacteriology	A151
Van Leeuwen, Christopher J.	Chemistry: Physical Chemistry	D55
Varela Agront, Astrid J.	Engineering, Physics and Mathematics: Mathematics	B107
Vargas, Benni S.	Microbiology: Bacteriology	F152
Vargas, Christopher	Developmental Biology and Genetics: Evolution and Developmental Biology	B93
Vazquez Rosario, Gabriella	Biochemistry: Metabolism	A20
Vega, Osvaldo J. R., Sr.	Cancer Biology: Cancer Biology	F31
Velazquez, Juan M., Sr.	Cancer Biology: Cancer Biology	B42
Vélez, Ashley	Developmental Biology and Genetics: Genetics	A87

Vélez, Lorraine N.	Microbiology: Microbial Physiology	B142
Vélez, Natasha L.	Engineering, Physics and Mathematics: Material Sciences	D77
Velez, Tatiana	Engineering, Physics and Mathematics: Material Sciences	E77
Venegas, Bridget	Chemistry: Inorganic Chemistry	A67
Vereen, Rhyan	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B190
Vermudez, Sheryl Anne D.	Developmental Biology and Genetics: Developmental Biology	G104
Vicente, Laura C.	Developmental Biology and Genetics: Genetics	B104
Vicknair, Adolph	Chemistry: Environmental Chemistry	A70
Victoria, Michelle	Developmental Biology and Genetics: Developmental Biology	G86
Viera-Ortiz, Ashley	Biochemistry: Biochemistry	E11
Vilfranc, Chrystelle L.	Biochemistry: Biochemistry	A02
Villanueva, Daniel	Engineering, Physics and Mathematics: Mathematics	F122
Villarreal, Kaycee G.	Biochemistry: Biochemistry	F09
Villette, Aaron	Engineering, Physics and Mathematics: Bioengineering	A121
Vizcarra, Edward A.	Cancer Biology: Cancer Biology	C26
Von Behr, Johan A.	Engineering, Physics and Mathematics: Material Sciences	F182
Vuong, Hoang Q.	Microbiology: Bacteriology	D98
Wages, Kara N.	Biochemistry: Biochemistry	F19
Walden, Fatima	Neuroscience: Neurobiology	G208
Walker, Phillip V., II	Neuroscience: Neuroscience	F199
Wallace, Sahim X.	Cancer Biology: Cancer Biology	G27
Wallin, Ashley N.	Microbiology: Environmental Microbiology	G141
Wani, Mashhood	Physiology: Physiology	G229
Ward, Aaron D.	Biochemistry: Biochemistry	C05
Ward, Joyce P.	**Microbiology: Environmental Microbiology**	**O77**
Washington, Amber R.	Immunology: Immunology	E88
Weatherly, Aliesa M.	Engineering, Physics and Mathematics: Mathematics	E80
Webb, Jeremy N.	Chemistry: Physical Chemistry	G83
Webster, Shanice S.	Microbiology: Environmental Microbiology	F142
Weerasuriya, Nisala	Biochemistry: Biochemistry	B21
Welch, Christina	Chemistry: Analytical Chemistry	D126
Welch, Rebecca L.	Neuroscience: Neuroscience	F213
Wells, Tre D.	Engineering, Physics and Mathematics: Mathematics	B117
Werth, Sarah Rose	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	A242
Westmoreland, Jessica	Biochemistry: Biochemistry	E09
Wheeler, Jsanai	Cancer Biology: Cancer Biology	B28
Wheeler, Sagirah S.	Social and Behavioral Sciences and Public Health: Sociology	D157
White, Alexis	Developmental Biology and Genetics: Genetics	C65
White, Jackie X.	Developmental Biology and Genetics: Developmental Biology	B87
White, Pandora	Microbiology: Environmental Microbiology	B152
White, Paul	Developmental Biology and Genetics: Developmental Biology	G99
White, Theresa L.	Immunology: Immunology	G132
White, Zachary B., II	Immunology: Immunology	G129
White, Zollie, III	Biochemistry: Biochemistry	A177
Whyte, Sana-Kay	Neuroscience: Neurobiology	C138
Wildgoose, Année Gabrielle Marcia	Biochemistry: Biomolecules	F20
Wilkerson, Breanna D.	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F246
Williams, Alexis	Social and Behavioral Sciences and Public Health: Psychology	G244
Williams, Byron P.	Engineering, Physics and Mathematics: Mathematics	G118
Williams, Cedric W.	Chemistry: Physical Chemistry	F71
Williams, Charmonix B.	Cell Biology: Molecular Imaging	E39
Williams, Derrick V., Jr.	Molecular and Computational Biology: Proteomics	B166
Williams, Dyamond	Engineering, Physics and Mathematics: Biophysics	G110
Williams, Gerald D.	Biochemistry: Biochemistry	A17
Williams, Guy A., II	Developmental Biology and Genetics: Genetics	F95
Williams, Iesha	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	E157
Williams, Janeen M.	Neuroscience: Neuroscience	B205
Williams, Shericka	Biochemistry: Biomolecules	F08

Williams, Sparkle D.	Physiology: Physiology	B179
Williams, Wynette	Social and Behavioral Sciences and Public Health: Psychology	B253
Williams, Xavier L.	Cancer Biology: Cancer Biology	G30
Williamson, Aunsha	Physiology: Nutrition	A226
Wills, Christopher A.	Chemistry: Inorganic Chemistry	E115
Wilson, Jeremiah F.	Engineering, Physics and Mathematics: Nanotechnology	C72
Wilson, Neco, Sr.	Cancer Biology: Cancer Biology	B48
Wilson, Sean	Chemistry: Environmental Chemistry	F65
Wilson, Simeon	Engineering, Physics and Mathematics: Nanotechnology	B120
Wimberly, Keon D.	Developmental Biology and Genetics: Genetics	A84
Wiscovitch, Alexandra	Developmental Biology and Genetics: Genetics	B85
Wolf, Sonya	Microbiology: Virology	A138
Wood, Annechael E.	Cell Biology: Cell Biology	C42
Woodard, Charity	Biochemistry: Biomolecules	A181
Woods, Dorothy E.	Engineering, Physics and Mathematics: Mathematics	E81
Woods, Kimishia C.	Microbiology: Bacteriology	B145
Wu, Qianni	Biochemistry: Structural Biology	G17
Xu, Ang	Biochemistry: Structural Biology	B18
Xu, Pauline	Molecular and Computational Biology: Proteomics	D108
Yang, Xin	Neuroscience: Neuroscience	A194
Yates, Craig O.	Engineering, Physics and Mathematics: Bioengineering	A109
Yee Mon, Kristel J.	Neuroscience: Neuroscience	A209
Yi, Chang Hwan	Biochemistry: Biomolecules	C03
Yim, Kendrick	Cell Biology: Cell Biology	A51
Young, Brandon A.	Developmental Biology and Genetics: Developmental Biology	G101
Young, Shaquanna	Cancer Biology: Cancer Biology	E17
Young, Yves-Yvette	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	B192
Youngblood, Laura	Developmental Biology and Genetics: Developmental Biology	E69
Yusuf, Ramsey	Biochemistry: Biochemistry	F18
Zamora, Diana	Physiology: Physiology	F229
Zamora, Martha P.	Immunology: Immunology	F189
Zapertov, Nikolai O.	Neuroscience: Neurobiology	F223
Zumpano, Danielle L.	Cancer Biology: Cancer Biology	C123
Zuniga, Marisol	Social and Behavioral Sciences and Public Health: Public Health and Epidemiology	F250

Exhibitor Guide

Table of Contents

Exhibitor List (Booth Number Order) 88

Exhibitor List (Alphabetical Order) 94

Exhibitor List (Category Type) 101

Exhibitor Attendee List 108
(Primary Contact Only)

Exhibitor List (Booth Number Order)

100, 102	Procter & Gamble
104	University of New Mexico Health Sciences Center, Biomedical Sciences Graduate Program
108	North Carolina State University, The Graduate School
110	Monsanto, Talent Acquisition/Breeding
112	Wright State University, Boonshoft School of Medicine, Department of Community Health
114	The Ohio State University College of Pharmacy, Doctor of Pharmacy
116	SMART Scholarship for Service Program
118	University of North Texas Health Science Center, Graduate School of Biomedical Science
120	American Association for Cancer Research (AACR)
122	University of Massachusetts Amherst, STEM Diversity Institute, Initiative for Maximizing Student Development (IMSD)
126	City of Hope, Irell and Manella Graduate School of Biological Sciences
128	Broad Institute of MIT and Harvard, Diversity Initiative
130	AAVMC (Association of American Veterinary Medical Colleges)
132	Yale University, Molecular Biophysics and Biochemistry Department & Biophysics Program
134, 136	Yale University, Biological and Biomedical Sciences Program
140	University of Texas Health Science Center at San Antonio, Graduate School of Biomedical Sciences, MD/PhD Program
142	Boston University, Division of Graduate Medical Sciences
144	Boston University, Bioinformatics Graduate Program
146	Rensselaer Polytechnic Institute, Office of Graduate Admissions
148	Morehouse School of Medicine, Graduate Education in Biomedical Sciences
200, 201, 202, 203, 204, 205	FASEB MARC Program
208	American Society for Biochemistry and Molecular Biology
209	FASEB MARC Program, Peer Mentoring Program
210	The Histochemical Society (HCS)
211	FASEB MARC Program, Peer Mentoring Program
212	Genetics Society of America (GSA)
213	American Association of Anatomists
214	International Society for Computational Biology
215	Biomedical Engineering Society (BMES)
216	Association of Biomolecular Resource Facilities (ABRF)
217	Society for Developmental Biology (SDB)
218	The Protein Society
219	American Society for Nutrition
220	American Society for Pharmacology and Experimental Therapeutics (ASPET)
221	American Society for Investigative Pathology (ASIP)
222	The Endocrine Society
223	American Physiological Society (APS)
226	University of Pittsburgh, Biomedical Graduate Programs
227	Penn State College of Medicine, Biomedical Sciences Graduate Program
228	University of Pittsburgh, Medical Scientist Training Program
229	Van Andel Institute, Graduate School
230	University of Pittsburgh, Health Sciences Diversity
231	Global Health Fellows Program II/Public Health Institute
232	George Washington University, School of Medicine & Health Sciences and School of Public Health & Health Services
233	Southern Methodist University, Graduate Studies
234	University of Wisconsin-Madison, Endocrinology/Reproductive Physiology
235	Princeton University, Department of Molecular Biology and the Lewis-Sigler Institute for Integrative Genomics
236	University of Utah, Molecular Biology/Biological Chemistry
237	Massachusetts Institute of Technology, Biology Department
240	University at Buffalo, State University of New York
241	University of Rochester, Md/PhD Program & Graduate Education and Postdoctoral Affairs
242	Institute of International Education, Fulbright U.S. Student Program, Gilman International Scholarship Program, and Whitaker International Program
243	Brigham and Women's Hospital, Office for Multicultural Faculty Careers
244	University of Oregon, Biology
245	University of Toledo, College of Medicine and Life Sciences

246	Delaware State University, College of Mathematics, Natural Sciences and Technology
247	University of Tennessee Health Science Center, Health Career Programs/Graduate Health Sciences
248	University of Colorado Denver, Anschutz Medical Campus
249	Mount Sinai Icahn School of Medicine, Graduate School of Biomedical Sciences
300	Novartis Institutes for BioMedical Research, Program Office
301	Stanford University, Office of Graduate Education, Programs and Diversity
302	University of California, San Francisco, Graduate Division
303	Stanford University, School of Earth Sciences and Office of Postdoctoral Affairs
304	University of California, San Francisco, MSTP (MD-PHD) and Biomedical Sciences
305	University of California, Berkeley, Division of Biological Sciences/Molecular and Cell Biology
308, 310	Emory University, Graduate Division of Biological and Biomedical Sciences
309	Emory University School of Medicine, Office of Postdoctoral Education/FIRST
311	Emory University, Chemistry Program
312	Emory University School of Medicine, MD/PHD Program
313	Emory University, Laney Graduate School
314	Georgia Institute of Technology and Emory University, Biomedical Engineering
315	Emory University, Rollins School of Public Health
316	University of California, Merced, Graduate Division
317	University of California, San Diego, Office of Graduate Studies
318	University of California, Santa Barbara, Graduate Division
319	University of Californria, San Diego, Biological Sciences and Bioengineering
320	University of California, Santa Cruz, Physical and Biological Sciences
321	University of California, Riverside, Graduate Division
322	University of California, Davis, Graduate Studies
323	University of California, Irvine, Graduate Division
326	University of Minnesota, Biomedical Science Graduate Programs
327	University of California, Los Angeles, Graduate Division
328	University of Minnesota, Medical Scientist Training Program (MD/PhD)
329	University of Miami, Programs in Biomedical Sciences
330	George Washington University, School of Engineering and Applied Sciences, Electrical and Computer Engineering Department
331, 333	University of Califonia, Los Angeles, ACCESS/BSP
332	Johns Hopkins University, School of Arts and Sciences: Cellular, Molecular, Developmental Biology & Biophysics
334	Johns Hopkins Bloomberg School of Public Health, Admissions Services
335	Washington University in St. Louis, Brown School, Master of Public Health Program
336	Johns Hopkins University, School of Medicine
337	Washington University in St. Louis, Biology and Biomedical Sciences
340	Eastern Virginia Medical School, School of Health Professions
341	Indiana University-Purdue University Indianapolis Graduate Programs and Indiana University School of Medicine Graduate Programs
342	University of Illinois at Chicago, Graduate College
343	Florida International University, Graduate School
344	Council on Undergraduate Research
345	American Association of Colleges of Osteopathic Medicine (AACOM)
346	University of Connecticut, Graduate School
347	New Mexico State University, University Admissions
348	University of Pittsburgh, Kenneth P. Dietrich Graduate School of Arts and Sciences
349	Massachusetts Institute of Technology, Department of Biological Engineering
400, 402	Meharry Medical College, School of Graduate Studies and Research
401	Vanderbilt University School of Medicine, Office for Diversity in Medical Education
403	Vanderbilt University, Office of Biomedical Research Education and Training
404	Vanderbilt University, Graduate School
405	Vanderbilt University Medical Scientist Training Program, Office of Biomedical Research Education and Training

Exhibitor List (Booth Number Order) (continued)

408	American Heart Association/American Stroke Association, Health Equity
409	American Association for the Advancement of Science (AAAS), Education and Human Resources Department
410	Fred Hutchinson Cancer Research Center
411	Gulf Coast Consortia
412	University of Washington, School of Public Health
413	Baylor College of Medicine, Graduate School of Biomedical Sciences
414	University of Washington, Department of Biochemistry & Biological Physics, Structure and Design Program/ Center for Equity, Diversity & Inclusion
415	Society of Toxicology
416	University of Washington, Pharmacological Sciences Training Program/Post-Baccalaureate Research Education Program (PREP)
417	University of Texas Medical Branch, Graduate School of Biomedical Sciences
418	University of Washington, MSTP (MD/PhD)
419	The University of Texas Graduate School of Biomedical Sciences at Houston, Admissions
420	University of Washington, Medicine Pathology Molecular Medicine and Mechanisms of Disease PhD Program (M3D)
421	Rice University, Biochemistry & Cell Biology, Office of Diversity, and Institute of Biosciences & Bioengineering
422	University of Washington, Molecular and Cellular Biology
423	American Chemical Society, Department of Diversity Programs
426	Harvard University, Harvard Integrated Life Sciences (HILS)
427, 429	University of Michigan, Program in Biomedical Sciences (PIBS)
428	Harvard University, Program in Molecules, Cells and Organisms
430	Harvard University, Graduate School of Arts and Science (GSAS)
431	University of Michigan, School of Public Health, Office of Academic Affairs
432	Harvard School of Public Health, Admissions Office
433	Georgetown University, Biomedical Graduate Education
434	Harvard University, Division of Medical Sciences & M.D.-Ph.D Program
435	Colorado State University, The Graduate School
436	Cold Spring Harbor Laboratory, Watson School of Biological Sciences
437	University of Texas Southwestern Medical Center, Graduate School of Biomedical Sciences & Medical Scientist Training Program
440	University of Virginia, Biomedical Sciences
441	Indiana University Bloomington, Department of Biology
442	University of Southern California, Keck School of Medicine
443	Keck Graduate Institute, Office of Admissions
444	University of South Carolina, Biological Sciences
445	Rutgers University-Newark Campus, MBRS Program
446, 448	University of Pennsylvania School of Medicine, Biomedical Graduate Studies
447	Cleveland Clinic Lerner College of Medicine of Case Western Reserve University and Molecular Medicine PhD Program
449	Cincinnati Children's Research Foundation and University of Cincinnati College of Medicine
500, 502	New York University School of Medicine, Sackler Institute
501	Columbia University Medical Center, Coordinated Doctoral Program in Biomedical Sciences
503, 505	Albert Einstein College of Medicine, Graduate Division of Biomedical Sciences
504	UNCF/Merck Science Initiative
508	National Institutes of Health, National Institute of General Medical Sciences (NIGMS)
509	National Institutes of Health, National Institute of Biomedical Imaging and Bioengineering (NIBIB), Division of Interdisciplinary Training
510	University of Maryland, Graduate School
511	National Institutes of Health, Office of Intramural Training & Education
512	National Institutes of Health, National Cancer Institute (NCI)/Introduction to Cancer Research Careers
513	National Institutes of Health, National Cancer Institute (NCI), Center to Reduce Cancer Health Disparities
514	Lawrence Berkeley National Laboratory
515	National Institutes of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

516	National Institutes of Health, National Institute of Dental and Craniofacial Research (NIDCR)
517	National Institutes of Health, National Institute of Neurological Disorders and Strokes (NINDS) and National Institute of Mental Health (NIMH)
518	National Institutes of Health, National Heart, Lung and Blood Institute (NHLBI)
519	National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID)
520	Northeastern University, Minority Graduate/Postdoc Training in STEM Fields
521	ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program
522	American Society for Microbiology, Membership Department
523	American Society for Microbiology, Education Department
526	University of Alabama at Birmingham, Graduate Biomedical Sciences
527	Memorial Sloan-Kettering Cancer Center, Louis V. Gerstner, Jr. Graduate School of Biomedical Sciences
528	University of Alabama at Birmingham, Medical Scientist Training Program (MD/PhD Program)
529	The Rockefeller University, Office of Graduate Studies
530	University of Alabama at Birmingham, School of Public Health
531	Weill Cornell/Rockefeller/Sloan Kettering, Tri-Institutional MD-PhD Program
532	Biophysical Society, Minority Affairs Committee
533	Cornell/Rockefeller/Sloan-Kettering Tri-Institutional PhD Programs in Chemical Biology, Computational Biology, and Medicine
534	Medical University of South Carolina, College of Graduate Studies
535	Cornell University, Graduate School
536	Drexel University College of Medicine, Biomedical Graduate Studies
537	Weill Cornell Graduate School of Medical Sciences
540	Texas Tech University Health Sciences Center, Graduate School of Biomedical Sciences
541	University of Arkansas for Medical Sciences, Graduate School
542	Kansas City University of Medicine & Biosciences, Office of Admissions
543	Des Moines University, Colleges of Osteopathic Medicine, Pediatric Medicine & Surgery, and Health Sciences
544	Philadelphia College of Osteopathic Medicine
545	National Research Council of the National Academies, Fellowship Programs
546	West Virginia School of Osteopathic Medicine, Admissions
547	Higher Education Recruitment Consortium
548	University of Massachusetts Medical School, Graduate School of Biomedical Sciences
549	Rutgers University, Graduate School-New Brunswick and Graduate School of Biomedical Sciences
601	Keystone Symposia on Molecular and Cellular Biology, Diversity in Life Science Programs
603	University of Chicago, Division of Biological Sciences
605	University of Chicago, Pritzker School of Medicine Medical Scientist Training Program
608	Purdue University, Graduate School
609	University of Iowa, Graduate College
610	University of Nebraska-Lincoln, Office of Graduate Studies
611	The Ohio State University, Biomedical Sciences Graduate Program & Medical Scientist Training Program
612	University of Nebraska Medical Center, MD/PhD Scholars Program
613	Northwestern University, The Graduate School
614	University of Michigan, Rackham Graduate School
615	Penn State University, Graduate School
616	Illinois Institute of Technology, Graduate Recruitment
617	University of Illinois at Urbana-Champaign, Graduate College
618	Ross University
619	Michigan State University, Graduate School
620	American University of the Caribbean
621	University of Wisconsin-Madison, Cellular & Molecular Biology Graduate Program
622	Dartmouth College, Graduate Programs
623	University of Wisconsin-Madison, Bioscience Graduate Programs
626	Brown University, Graduate School/Leadership Alliance
627	Virginia Tech-Wake Forest University School of Biomedical Engineering & Sciences

Exhibitor List (Booth Number Order) (continued)

628	Wayne State University, Physiology
629	Virginia Tech Carilion Research Institute
630	Virginia Tech, Multicultural Academic Opportunities Program
631	Virginia Tech PREP Program and the Bioinformatics Institute
632	Virginia Tech, Northern Virginia Campus, The Graduate School-Northern Virginia Center
633	Virginia Tech, Molecular Life Sciences and Bioinformatics
634	Boise State University, Biomolecular Sciences Ph.D. Program
635	Medical College of Wisconsin, Graduate School of Biomedical Sciences and Medical Scientist Training Program
636	University of South Florida, Biomedical Engineering, Chemistry, Integrated Biomedical Sciences, Cell Biology, Microbiology, Molecular Biology, Physics
637	Mayo Clinic, College of Medicine Office for Diversity
640	Roswell Park Cancer Institute
641	University at Buffalo, State University of New York, Ph.D. Program in Biomedical Sciences (PPBS)
642	University of Kansas, Graduate Studies
643	Thomas Jefferson University, Jefferson Graduate School of Biomedical Sciences
644	The Scripps Research Institute, Doctoral Program in Biological and Chemical Sciences
645	University of Arizona, Graduate College
646	The Ohio State University, College of Arts & Sciences, Recruitment and Diversity Services
647	Marian University College of Osteopathic Medicine, Office of Enrollment Management
648	Arizona State University, Graduate Education-Graduate Student Programs
649	Hunter College, Center for Study of Gene Structure and Function
709	Duke University, Office of Biomedical Graduate Diversity
710	University of Colorado Boulder, Colorado Diversity Initiative
711	Duke University, The Graduate School
712	Virginia Commonwealth University, School of Medicine/ Graduate Education Program
713	Duke University, School of Nursing
714	Howard University, Graduate School, Office of the Dean
715	RCSB Protein Data Bank, Rutgers Center for Integrative Proteomics Research
716	Albany College of Pharmacy and Health Sciences, Office of Graduate Studies
717	Texas Chiropractic College, Admissions
718	University of Louisville, Integrated Programs in Biomedical Sciences
719	National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
720, 722	University of North Carolina at Chapel Hill, Biomedical Graduate Education, MD-PhD, School of Public Health, Masters of Accounting, and The Graduate School
721	University of Pennsylvania, Chemistry
723	Loyola University Chicago, Health Sciences Division
726	University of Missouri, Graduate Life Sciences Programs
727	Stony Brook University, Center for Inclusive Education
728	University of Missouri, Division of Biological Sciences & PREP Scholars Program
729	Rowan University School of Osteopathic Medicine, Admissions Office
730	University of Maryland School of Medicine, Medical Scientist Training Program (MSTP) and Graduate Program in Life Sciences (GPILS)
731	Tufts University, Sackler School of Graduate Biomedical Sciences
732	University of Maryland, Baltimore County, Meyerhoff Graduate Fellows Program
733	Worcester Polytechnic Institute, Graduate Admissions
734	University of Kentucky, College of Medicine, MD/PhD Program/Integrated Biomedical Sciences
735	University of Texas at Austin, Cellular and Molecular Biology
736	Morehouse College, Public Health Sciences Institute
737	Saint Louis University, Pharmacological and Physiological Science
740	Marshall University School of Medicine, Biomedical Sciences, MS, PhD, MD/PhD
741	West Virginia University, Graduate Enrollment
742	University of New England College of Osteopathic Medicine, Office of Constituent Services
743	Extreme Science and Engineering Discovery Environment (XSEDE), Outreach

744	SUNY Downstate Medical Center, School of Graduate Studies
745	University of Delaware, Biological Sciences
746	Wake Forest University, Graduate School of Arts and Sciences
747	Florida A&M University, Graduate Studies and Research
748	The Jackson Laboratory, Educational Programs
749	Washington State University, Graduate School
810	California Institute of Technology (CALTECH), Center for Diversity
811	St. Jude Children's Research Hospital, Postdoctoral Recruitment Office
812	The Ohio State University, College of Medicine, Office for Diversity and Inclusion
813	Nova Southeastern University, College of Pharmacy
814	Harbor-UCLA Medical Center/LA BioMed, Pediatrics
815	Alabama College of Osteopathic Medicine, Student Services
816	University of Tennessee/Program for Excellence & Equity in Research, College of Arts and Sciences
817	National Science Foundation, Graduate Research Fellowship Program (ASEE)
818	Clark Atlanta University, Graduate Recruitment & Admissions
819	Scholars Information Services, Inc., Alumni Tracking
820	Tennessee State University, Master of Public Health
821	Texas A&M University, Office of Graduate and Professional Studies
822	University of Kentucky
823	Georgia Regents University, The Graduate School
827	American Society of Plant Biologists
829	Western University of Health Sciences, Office of University Recruitment/Strategic Enrollment Management
831	MIDAS (Models of Infectious Disease Agent Study)
833	Campbell University, College of Pharmacy and School of Osteopathic Medicine
835	Texas A&M University, Chemistry
837	Case Western Reserve University, Office of Graduate Education
841	University of North Carolina, Eshelman School of Pharmacy, Pharmaceutical Sciences
843	University of Medicine and Health Sciences, St. Kitts, Admissions
845	University of Notre Dame, Graduate School
847	Norfolk State University, Center for Materials Research

Exhibitor List (Alphabetical Order)

AAVMC (Association of American Veterinary Medical Association)	130
Alabama College of Osteopathic Medicine, Student Services	815
Albany College of Pharmacy and Health Sciences, Office of Graduate Studies	716
Albert Einstein College of Medicine, Graduate Division of Biomedical Sciences	503, 505
American Association for Cancer Research (AACR)	120
American Association for the Advancement of Science (AAAS), Education and Human Resources Department	409
American Association of Anatomists	213
American Association of Colleges of Osteopathic Medicine (AACOM)	345
American Chemical Society, Department of Diversity Programs	423
American Heart Association/American Stroke Association, Health Equity	408
American Physiological Society (APS)	223
American Society for Biochemistry and Molecular Biology	208
American Society for Investigative Pathology (ASIP)	221
American Society for Microbiology, Education Department	523
American Society for Microbiology, Membership Department	522
American Society for Nutrition	219
American Society for Pharmacology and Experimental Therapeutics (ASPET)	220
American Society of Plant Biologists	827
American University of the Caribbean	620
Arizona State University, Graduate Education-Graduate Student Programs	648
ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program	521
Association of Biomolecular Resource Facilities (ABRF)	216
Baylor College of Medicine, Graduate School of Biomedical Sciences	413
Biomedical Engineering Society (BMES)	215
Biophysical Society, Minority Affairs Committee	532
Boise State University, Biomolecular Sciences Ph.D. Program	634
Boston University, Bioinformatics Graduate Program	144
Boston University, Division of Graduate Medical Sciences	142
Brigham and Women's Hospital, Office for Multicultural Faculty Careers	243
Broad Institute of MIT and Harvard, Diversity Initiative	128
Brown University, Graduate School/Leadership Alliance	626
California Institute of Technology (CALTECH), Center for Diversity	810
Campbell University, College of Pharmacy and School of Osteopathic Medicine	833
Case Western Reserve University, Office of Graduate Education	837
Cincinnati Children's Research Foundation and University of Cincinnati College of Medicine	449
City of Hope, Irell and Manella Graduate School of Biological Sciences	126
Clark Atlanta University, Graduate Recruitment and Admissions	818
Cleveland Clinic Lerner College of Medicine of Case Western Reserve University & Molecular Medicine PhD Program	447
Cold Spring Harbor Laboratory, Watson School of Biological Sciences	436
Colorado State University, The Graduate School	435
Columbia University Medical Center, Coordinated Doctoral Program in Biomedical Sciences	501
Cornell/Rockefeller/Sloan-Kettering Tri-Institutional PhD Programs in Chemical Biology, Computational Biology, and Medicine	533
Cornell University, Graduate School	535

Council on Undergraduate Research	344
Dartmouth College, Graduate Programs	622
Delaware State University, College of Mathematics, Natural Sciences and Technology	246
Des Moines University, Colleges of Osteopathic Medicine, Pediatric Medicine & Surgery, and Health Sciences	543
Drexel University College of Medicine, Biomedical Graduate Studies	536
Duke University, Office of Biomedical Graduate Diversity	709
Duke University, School of Nursing	713
Duke University, The Graduate School	711
Eastern Virginia Medical School, School of Health Professions	340
Emory University, Chemistry Program	311
Emory University, Graduate Division of Biological and Biomedical Sciences	308, 310
Emory University, Laney Graduate School	313
Emory University, Rollins School of Public Health	315
Emory University School of Medicine, MD/PHD Program	312
Emory University School of Medicine, Office of Postdoctoral Education/FIRST	309
Endocrine Society, The	222
Extreme Science and Engineering Discovery Environment (XSEDE), Outreach	743
FASEB MARC Program	200, 201, 202, 203, 204, 205
FASEB MARC Program, Peer Mentoring Program	209, 211
Florida A&M University, Graduate Studies and Research	747
Florida International University, Graduate School	343
Fred Hutchinson Cancer Research Center	410
Genetics Society of America (GSA)	212
George Washington University, School of Engineering and Applied Sciences, Electrical and Computer Engineering Department	330
George Washington University, School of Medicine & Health Sciences and School of Public Health & Health Services	232
Georgetown University, Biomedical Graduate Education	433
Georgia Institute of Technology and Emory University, Biomedical Engineering	314
Georgia Regents University, The Graduate School	823
Global Health Fellows Program II/Public Health Institute	231
Gulf Coast Consortia	411
Harbor-UCLA Medical Center/LA BioMed, Pediatrics	814
Harvard School of Public Health, Admissions Office	432
Harvard University, Division of Medical Sciences and M.D.-Ph.D Program	434
Harvard University, Graduate School of Arts and Science (GSAS)	430
Harvard University, Harvard Integrated Life Sciences (HILS)	426
Harvard University, Program in Molecules, Cells and Organisms	428
Higher Education Recruitment Consortium	547
Histochemical Society, The (HCS)	210
Howard University, Graduate School, Office of the Dean	714
Hunter College, Center for Study of Gene Structure and Function	649
Illinois Institute of Technology, Graduate Recruitment	616
Indiana University Bloomington, Department of Biology	441
Indiana University-Purdue University Indianapolis Graduate Programs and Indiana University School of Medicine Graduate Programs	341

Exhibitor List (Alphabetical Order) (continued)

Institute of International Education, Fulbright U.S. Student Program, Gilman International Scholarship Program, and Whitaker International Program	242
International Society for Computational Biology	214
Jackson Laboratory, Educational Programs	748
Johns Hopkins Bloomberg School of Public Health, Admissions Services	334
Johns Hopkins University, School of Arts and Sciences: Cellular, Molecular, Developmental Biology and Biophysics	332
Johns Hopkins University, School of Medicine	336
Kansas City University of Medicine and Biosciences, Office of Admissions	542
Keck Graduate Institute, Office of Admissions	443
Keystone Symposia on Molecular and Cellular Biology, Diversity in Life Science Programs	601
Lawrence Berkeley National Laboratory	514
Loyola University Chicago, Health Sciences Division	723
Marian University College of Osteopathic Medicine, Office of Enrollment Management	647
Marshall University School of Medicine, Biomedical Sciences, MS, PhD, MD/PhD	740
Massachusetts Institute of Technology, Biology Department	237
Massachusetts Institute of Technology, Department of Biological Engineering	349
Mayo Clinic, College of Medicine Office for Diversity	637
Medical College of Wisconsin, Graduate School of Biomedical Sciences and Medical Scientist Training Program	635
Medical University of South Carolina, College of Graduate Studies	534
Meharry Medical College, School of Graduate Studies and Research	400, 402
Memorial Sloan-Kettering Cancer Center, Louis V. Gerstner, Jr. Graduate School of Biomedical Sciences	527
Michigan State University, Graduate School	619
MIDAS (Models of Infectious Disease Agent Study)	831
Monsanto, Talent Acquisition/Breeding	110
Morehouse College, Public Health Sciences Institute	736
Morehouse School of Medicine, Graduate Education in Biomedical Sciences	148
Mount Sinai Icahn School of Medicine, Graduate School of Biomedical Sciences	249
National Institutes of Health, National Cancer Institute (NCI), Center to Reduce Cancer Health Disparities	513
National Institutes of Health, National Cancer Institute (NCI)/Introduction to Cancer Research Careers	512
National Institutes of Health, National Heart, Lung and Blood Institute (NHLBI)	518
National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID)	519
National Institutes of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)	515
National Institutes of Health, National Institute of Biomedical Imaging and Bioengineering (NIBIB), Division of Interdisciplinary Training	509
National Institutes of Health, National Institute of Dental and Craniofacial Research (NIDCR)	516
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)	719
National Institutes of Health, National Institute of General Medical Sciences (NIGMS)	508
National Institutes of Health, National Institute of Neurological Disorders and Strokes (NINDS) and National Institute of Mental Health (NIMH)	517
National Institutes of Health, Office of Intramural Training & Education	511
National Research Council of the National Academies, Fellowship Programs	545
National Science Foundation, Graduate Research Fellowship Program (ASEE)	817
New Mexico State University, University Admissions	347
New York University School of Medicine, Sackler Institute	500, 502

Norfolk State University, Center for Materials Research	847
North Carolina State University, The Graduate School	108
Northeastern University, Minority Graduate/Postdoc Training in STEM Fields	520
Northwestern University, The Graduate School	613
Nova Southeastern University, College of Pharmacy	813
Novartis Institutes for BioMedical Research, Program Office	300
Ohio State University, The, Biomedical Sciences Graduate Program and Medical Scientist Training Program	611
Ohio State University, The, College of Arts and Sciences, Recruitment and Diversity Services	646
Ohio State University, The, College of Medicine, Office for Diversity and Inclusion	812
Ohio State University, The, College of Pharmacy, Doctor of Pharmacy	114
Penn State College of Medicine, Biomedical Sciences Graduate Program	227
Penn State University, Graduate School	615
Philadelphia College of Osteopathic Medicine	544
Princeton University, Department of Molecular Biology and the Lewis-Sigler Institute for Integrative Genomics	235
Procter & Gamble	100, 102
Protein Society, The	218
Purdue University, Graduate School	608
RCSB Protein Data Bank, Rutgers Center for Integrative Proteomics Research	715
Rensselaer Polytechnic Institute, Office of Graduate Admissions	146
Rice University, Biochemistry & Cell Biology, Office of Diversity, and Institute of Biosciences & Bioengineering	421
Rockefeller University, The, Office of Graduate Studies	529
Ross University	618
Roswell Park Cancer Institute	640
Rowan University School of Osteopathic Medicine, Admissions Office	729
Rutgers University, Graduate School-New Brunswick and Graduate School of Biomedical Sciences	549
Rutgers University-Newark Campus, MBRS Program	445
Saint Louis University, Pharmacological and Physiological Science	737
Scholars Information Services, Inc., Alumni Tracking	819
Scripps Research Institute, Doctoral Program in Biological and Chemical Sciences	644
SMART Scholarship for Service Program	116
Society for Developmental Biology (SDB)	217
Society of Toxicology	415
Southern Methodist University, Graduate Studies	233
St. Jude Children's Research Hospital, Postdoctoral Recruitment Office	811
Stanford University, Office of Graduate Education, Programs and Diversity	301
Stanford University, School of Earth Sciences and Office of Postdoctoral Affairs	303
Stony Brook University, Center for Inclusive Education	727
SUNY Downstate Medical Center, School of Graduate Studies	744
Tennessee State University, Master of Public Health	820
Texas A&M University, Chemistry	835
Texas A&M University, Office of Graduate and Professional Studies	821
Texas Chiropractic College, Admissions	717
Texas Tech University Health Sciences Center, Graduate School of Biomedical Sciences	540

Exhibitor List (Alphabetical Order) (continued)

Thomas Jefferson University, Jefferson Graduate School of Biomedical Sciences	643
Tufts University, Sackler School of Graduate Biomedical Sciences	731
UNCF/Merck Science Initiative	504
University at Buffalo, State University of New York	240
University at Buffalo, State University of New York, Ph.D. Program in Biomedical Sciences (PPBS)	641
University of Alabama at Birmingham, Graduate Biomedical Sciences	526
University of Alabama at Birmingham, Medical Scientist Training Program (MD/PhD Program)	528
University of Alabama at Birmingham, School of Public Health	530
University of Arizona, Graduate College	645
University of Arkansas for Medical Sciences, Graduate School	541
University of California, Berkeley, Division of Biological Sciences/Molecular and Cell Biology	305
University of California, Davis, Graduate Studies	322
University of California, Irvine, Graduate Division	323
University of California, Los Angeles, ACCESS/BSP	331, 333
University of California, Los Angeles, Graduate Division	327
University of California, Merced, Graduate Division	316
University of California, Riverside, Graduate Division	321
University of California, San Diego, Biological Sciences and Bioengineering	319
University of California, San Diego, Office of Graduate Studies	317
University of California, San Francisco, Graduate Division	302
University of California, San Francisco, MSTP (MD-PHD) and Biomedical Sciences	304
University of California, Santa Barbara, Graduate Division	318
University of California, Santa Cruz, Physical and Biological Sciences	320
University of Chicago, Division of Biological Sciences	603
University of Chicago, Pritzker School of Medicine Medical Scientist Training Program	605
University of Colorado Boulder, Colorado Diversity Initiative	710
University of Colorado Denver, Anschutz Medical Campus	248
University of Connecticut, Graduate School	346
University of Delaware, Biological Sciences	745
University of Florida College of Medicine, Interdisciplinary Program in Biomedical Sciences	849
University of Illinois at Chicago, Graduate College	342
University of Illinois at Urbana-Champaign, Graduate College	617
University of Iowa, Graduate College	609
University of Kansas, Graduate Studies	642
University of Kentucky, College of Pharmacy, PhD Program in Pharmaceutical Sciences	822
University of Kentucky, College of Medicine, MD/PhD Program/Integrated Biomedical Sciences	734
University of Louisville, Integrated Programs in Biomedical Sciences	718
University of Maryland, Baltimore County, Meyerhoff Graduate Fellows Program	732
University of Maryland, Graduate School	510
University of Maryland School of Medicine, Medical Scientist Training Program (MSTP) and Graduate Program in Life Sciences (GPILS)	730
University of Massachusetts Amherst, STEM Diversity Institute, Initiative for Maximizing Student Development (IMSD)	122
University of Massachusetts Medical School, Graduate School of Biomedical Sciences	548
University of Medicine and Health Sciences, St. Kitts, Admissions	843

University of Miami, Programs in Biomedical Sciences	329
University of Michigan, Program in Biomedical Sciences (PIBS)	427, 429
University of Michigan, School of Public Health, Office of Academic Affairs	431
University of Michigan, Rackham Graduate School	614
University of Minnesota, Biomedical Science Graduate Programs	326
University of Minnesota, Medical Scientist Training Program (MD/PhD)	328
University of Missouri, Division of Biological Sciences and PREP Scholars Program	728
University of Missouri, Graduate Life Sciences Programs	726
University of Nebraska-Lincoln, Office of Graduate Studies	610
University of Nebraska Medical Center, MD/PhD Scholars Program	612
University of New England College of Osteopathic Medicine, Office of Constituent Services	742
University of New Mexico Health Sciences Center, Biomedical Sciences Graduate Program	104
University of North Carolina, Eshelman School of Pharmacy, Pharmaceutical Sciences	841
University of North Carolina at Chapel Hill, Biomedical Graduate Education, MD-PhD, School of Public Health, Masters of Accounting, and The Graduate School	720, 722
University of North Texas Health Science Center, Graduate School of Biomedical Science	118
University of Notre Dame, Graduate School	845
University of Oregon, Biology	244
University of Pennsylvania, Chemistry	721
University of Pennsylvania School of Medicine, Biomedical Graduate Studies	446, 448
University of Pittsburgh, Biomedical Graduate Programs	226
University of Pittsburgh, Health Sciences Diversity	230
University of Pittsburgh, Kenneth P. Dietrich Graduate School of Arts and Sciences	348
University of Pittsburgh, Medical Scientist Training Program	228
University of Rochester, Md/PhD Program and Graduate Education and Postdoctoral Affairs	241
University of South Carolina, Biological Sciences	444
University of South Florida, Biomedical Engineering, Chemistry, Integrated Biomedical Sciences, Cell Biology, Microbiology, Molecular Biology, Physics	636
University of Southern California, Keck School of Medicine	442
University of Tennessee Health Science Center, Health Career Programs/Graduate Health Sciences	247
University of Tennessee/Program for Excellence & Equity in Research, College of Arts and Sciences	816
University of Texas, Graduate School of Biomedical Sciences at Houston, Admissions	419
University of Texas at Austin, Cellular and Molecular Biology	735
University of Texas Health Science Center at San Antonio, Graduate School of Biomedical Sciences, MD/PhD Program	140
University of Texas Medical Branch, Graduate School of Biomedical Sciences	417
University of Texas Southwestern Medical Center, Graduate School of Biomedical Sciences and Medical Scientist Training Program	437
University of Toledo, College of Medicine and Life Sciences	245
University of Utah, Molecular Biology/Biological Chemistry	236
University of Virginia, Biomedical Sciences	440
University of Washington, Department of Biochemistry & Biological Physics, Structure and Design Program/Center for Equity, Diversity & Inclusion	414
University of Washington, Medicine Pathology Molecular Medicine and Mechanisms of Disease PhD Program (M3D)	420
University of Washington, Molecular and Cellular Biology	422
University of Washington, MSTP (MD/PhD)	418

Exhibitor List (Alphabetical Order) (continued)

University of Washington, Pharmacological Sciences Training Program/Post-Baccalaureate Research Education Program (PREP)	416
University of Washington, School of Public Health	412
University of Wisconsin-Madison, Bioscience Graduate Programs	623
University of Wisconsin-Madison, Cellular and Molecular Biology Graduate Program	621
University of Wisconsin-Madison, Endocrinology/Reproductive Physiology	234
Van Andel Institute, Graduate School	229
Vanderbilt University, Graduate School	404
Vanderbilt University Medical Scientist Training Program, Office of Biomedical Research Education and Training	405
Vanderbilt University, Office of Biomedical Research Education and Training	403
Vanderbilt University School of Medicine, Office for Diversity in Medical Education	401
Virginia Commonwealth University, School of Medicine/Graduate Education Program	712
Virginia Tech Carilion Research Institute	629
Virginia Tech, Molecular Life Sciences and Bioinformatics	633
Virginia Tech, Multicultural Academic Opportunities Program	630
Virginia Tech, Northern Virginia Campus, The Graduate School-Northern Virginia Center	632
Virginia Tech PREP Program and the Bioinformatics Institute	631
Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences	627
Wake Forest University, Graduate School of Arts and Sciences	746
Washington State University, Graduate School	749
Washington University in St. Louis, Biology and Biomedical Sciences	337
Washington University in St. Louis, Brown School-Master of Public Health Program	335
Wayne State University, Physiology	628
Weill Cornell Graduate School of Medical Sciences	537
Weill Cornell/Rockefeller/Sloan Kettering, Tri-Institutional MD-PhD Program	531
West Virginia School of Osteopathic Medicine, Admissions	546
West Virginia University, Graduate Enrollment	741
Western University of Health Sciences, Office of University Recruitment/Strategic Enrollment Management	829
Worcester Polytechnic Institute, Graduate Admissions	733
Wright State University, Boonshoft School of Medicine, Department of Community Health	112
Yale University, Biological and Biomedical Sciences Program	134, 136
Yale University, Molecular Biophysics and Biochemistry Department & Biophysics Program	132

Exhibitor List (Category Type)

**Association/Nonprofit

American Association for Cancer Research (AACR)	120
American Association for the Advancement of Science (AAAS), Education and Human Resources Department	409
American Association of Anatomists	213
American Chemical Society, Department of Diversity Programs	423
American Heart Association/American Stroke Association, Health Equity	408
American Physiological Society (APS)	223
American Society for Biochemistry and Molecular Biology	208
American Society for Investigative Pathology (ASIP)	221
American Society for Microbiology, Education Department	523
American Society for Microbiology, Membership Department	522
American Society for Nutrition	219
American Society for Pharmacology and Experimental Therapeutics (ASPET)	220
American Society of Plant Biologists	827
ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program	521
Association of American Veterinary Medical Colleges (AAVMC)	
Association of Biomolecular Resource Facilities (ABRF)	216
Biomedical Engineering Society (BMES)	215
Biophysical Society, Minority Affairs Committee	532
Broad Institute of MIT and Harvard, Diversity Initiative	128
City of Hope, Irell and Manella Graduate School of Biological Sciences	126
Council on Undergraduate Research	344
Endocrine Society, The	222
FASEB MARC Program	200, 201, 202, 203, 204, 205
FASEB MARC Program, Peer Mentoring Program	209, 2011
Genetics Society of America (GSA)	212
Global Health Fellows Program II/Public Health Institute	231
Gulf Coast Consortia	411
Higher Education Recruitment Consortium	547
Histochemical Society, The (HCS)	210
Institute of International Education, Fulbright U.S. Student Program, Gilman International Scholarship Program and Whitaker International Program	242
International Society for Computational Biology	214
Jackson Laboratory Educational Programs	748
Keystone Symposia on Molecular and Cellular Biology, Diversity in Life Science Programs	601
MIDAS (Models of Infectious Disease Agent Study)	831
National Research Council of the National Academies, Fellowship Programs	545
Protein Society, The	218
Scripps Research Institute, Doctoral Program in Biological and Chemical Sciences	644
Society for Developmental Biology (SDB)	217
Society of Toxicology	415
UNCF/Merck Science Initiative	504

**Educational Institution

Alabama College of Osteopathic Medicine, Student Services	815
Albany College of Pharmacy and Health Sciences, Office of Graduate Studies	716
Albert Einstein College of Medicine, Graduate Division of Biomedical Sciences	503, 505
American Association of Colleges of Osteopathic Medicine (AACOM)	345
American University of the Caribbean	620
Arizona State University, Graduate Education-Graduate Student Programs	648
Baylor College of Medicine, Graduate School of Biomedical Sciences	413
Boise State University, Biomolecular Sciences Ph.D. Program	634
Boston University, Bioinformatics Graduate Program	144
Boston University, Division of Graduate Medical Sciences	142
Brown University, Graduate School/Leadership Alliance	626
California Institute of Technology (CALTECH), Center for Diversity	810
Campbell University, College of Pharmacy and School of Osteopathic Medicine	833
Case Western Reserve University, Office of Graduate Education	837
Cincinnati Children's Research Foundation and University of Cincinnati College of Medicine	449
Clark Atlanta University, Graduate Recruitment and Admissions	818
Cleveland Clinic Lerner College of Medicine of Case Western Reserve University & Molecular Medicine PhD Program	447
Cold Spring Harbor Laboratory, Watson School of Biological Sciences	436
Colorado State University, The Graduate School	435
Columbia University Medical Center, Coordinated Doctoral Program in Biomedical Sciences	501
Cornell/Rockefeller/Sloan-Kettering Tri-Institutional PhD Programs in Chemical Biology, Computational Biology, and Medicine	533
Cornell University, Graduate School	535
Dartmouth College, Graduate Programs	622
Delaware State University, College of Mathematics, Natural Sciences and Technology	246
Des Moines University, Colleges of Osteopathic Medicine, Pediatric Medicine & Surgery, and Health Sciences	543
Drexel University College of Medicine, Biomedical Graduate Studies	536
Duke University, Office of Biomedical Graduate Diversity	709
Duke University, School of Nursing	713
Duke University, The Graduate School	711
Eastern Virginia Medical School, School of Health Professions	340
Emory University, Chemistry Program	311
Emory University, Graduate Division of Biological and Biomedical Sciences	308, 310
Emory University, Laney Graduate School	313
Emory University, Rollins School of Public Health	315
Emory University School of Medicine, MD/PHD Program	312
Emory University School of Medicine, Office of Postdoctoral Education/FIRST	309
Extreme Science and Engineering Discovery Environment (XSEDE), Outreach	743
Florida A&M University, Graduate Studies and Research	747
Florida International University, Graduate School	343
George Washington University, School of Engineering and Applied Sciences, Electrical and Computer Engineering Department	330
George Washington University, School of Medicine & Health Sciences and School of Public Health & Health Services	232
Georgetown University, Biomedical Graduate Education	433

Georgia Institute of Technology and Emory University, Biomedical Engineering	314
Georgia Regents University, The Graduate School	823
Harbor-UCLA Medical Center/LA BioMed, Pediatrics	814
Harvard School of Public Health, Admissions Office	432
Harvard University, Division of Medical Sciences & M.D.-Ph.D Program	434
Harvard University, Graduate School of Arts and Science (GSAS)	430
Harvard University, Harvard Integrated Life Sciences (HILS)	426
Harvard University, Program in Molecules, Cells and Organisms	428
Howard University, Graduate School, Office of the Dean	714
Hunter College, Center for Study of Gene Structure and Function	649
Illinois Institute of Technology, Graduate Recruitment	616
Indiana University Bloomington, Department of Biology	441
Indiana University-Purdue University Indianapolis Graduate Programs and Indiana University School of Medicine Graduate Programs	341
Johns Hopkins Bloomberg School of Public Health, Admissions Services	334
Johns Hopkins University, School of Arts and Sciences: Cellular, Molecular, Developmental Biology and Biophysics	332
Johns Hopkins University, School of Medicine	336
Kansas City University of Medicine and Biosciences, Office of Admissions	542
Keck Graduate Institute, Office of Admissions	443
Loyola University Chicago, Health Sciences Division	723
Marian University College of Osteopathic Medicine, Office of Enrollment Management	647
Marshall University School of Medicine, Biomedical Sciences, MS, PhD, MD/PhD	740
Massachusetts Institute of Technology, Biology Department	237
Massachusetts Institute of Technology, Department of Biological Engineering	349
Mayo Clinic, College of Medicine Office for Diversity	637
Medical College of Wisconsin, Graduate School of Biomedical Sciences & Medical Scientist Training Program	635
Medical University of South Carolina, College of Graduate Studies	534
Meharry Medical College, School of Graduate Studies and Research	400, 402
Memorial Sloan-Kettering Cancer Center, Louis V. Gerstner, Jr. Graduate School of Biomedical Sciences	527
Michigan State University, Graduate School	619
Morehouse College, Public Health Sciences Institute	736
Morehouse School of Medicine, Graduate Education in Biomedical Sciences	148
Mount Sinai Icahn School of Medicine, Graduate School of Biomedical Sciences	249
New Mexico State University, University Admissions	347
New York University School of Medicine, Sackler Institute	500, 502
Norfolk State University, Center for Materials Research	847
North Carolina State University, The Graduate School	108
Northeastern University, Minority Graduate/Postdoc Training in STEM Fields	520
Northwestern University, The Graduate School	613
Nova Southeastern University, College of Pharmacy	813
Ohio State University, The, Biomedical Sciences Graduate Program & Medical Scientist Training Program	611
Ohio State University, The, College of Arts and Sciences, Recruitment and Diversity Services	646
Ohio State University, The, College of Medicine, Office for Diversity and Inclusion	812
Ohio State University, The, College of Pharmacy, Doctor of Pharmacy	114

Exhibitor List (Category Type) (continued)

Penn State College of Medicine, Biomedical Sciences Graduate Program	227
Penn State University, Graduate School	615
Philadelphia College of Osteopathic Medicine	544
Princeton University, Department of Molecular Biology and the Lewis-Sigler Institute for Integrative Genomics	235
Purdue University, Graduate School	608
RCSB Protein Data Bank, Rutgers Center for Integrative Proteomics Research	715
Rensselaer Polytechnic Institute, Office of Graduate Admissions	146
Rice University, Biochemistry & Cell Biology, Office of Diversity, and Institute of Biosciences & Bioengineering	421
Rockefeller University, The, Office of Graduate Studies	529
Ross University	618
Roswell Park Cancer Institute	640
Rowan University School of Osteopathic Medicine, Admissions Office	729
Rutgers University, Graduate School-New Brunswick and Graduate School of Biomedical Sciences	549
Rutgers University-Newark Campus, MBRS Program	445
Saint Louis University, Pharmacological and Physiological Science	737
SMART Scholarship for Service Program	116
Southern Methodist University, Graduate Studies	233
Stanford University, Office of Graduate Education, Programs and Diversity	301
Stanford University, School of Earth Sciences and Office of Postdoctoral Affairs	303
Stony Brook University, Center for Inclusive Education	727
SUNY Downstate Medical Center, School of Graduate Studies	744
Tennessee State University, Master of Public Health	820
Texas A&M University, Chemistry	835
Texas A&M University, Office of Graduate and Professional Studies	821
Texas Chiropractic College, Admissions	717
Texas Tech University Health Sciences Center, Graduate School of Biomedical Sciences	540
Thomas Jefferson University, Jefferson Graduate School of Biomedical Sciences	643
Tufts University, Sackler School of Graduate Biomedical Sciences	731
University at Buffalo, State University of New York	240
University at Buffalo, State University of New York, Ph.D. Program in Biomedical Sciences (PPBS)	641
University of Alabama at Birmingham, Graduate Biomedical Sciences	526
University of Alabama at Birmingham, Medical Scientist Training Program (MD/PhD Program)	528
University of Alabama at Birmingham, School of Public Health	530
University of Arizona, Graduate College	645
University of Arkansas for Medical Sciences, Graduate School	541
University of California, Berkeley, Division of Biological Sciences/Molecular and Cell Biology	305
University of California, Davis, Graduate Studies	322
University of California, Irvine, Graduate Division	323
University of California, Los Angeles, ACCESS/BSP	331, 333
University of California, Los Angeles, Graduate Division	327
University of California, Merced, Graduate Division	316
University of California, Riverside, Graduate Division	321
University of California, San Diego, Biological Sciences and Bioengineering	319
University of California, San Diego, Office of Graduate Studies	317

University of California, San Francisco, Graduate Division	302
University of California, San Francisco, MSTP (MD-PHD) and Biomedical Sciences	304
University of California, Santa Barbara, Graduate Division	318
University of California, Santa Cruz, Physical and Biological Sciences	320
University of Chicago, Division of Biological Sciences	603
University of Chicago, Pritzker School of Medicine Medical Scientist Training Program	605
University of Colorado Boulder, Colorado Diversity Initiative	710
University of Colorado Denver, Anschutz Medical Campus	248
University of Connecticut, Graduate School	346
University of Delaware, Biological Sciences	745
University of Florida College of Medicine, Interdisciplinary Program in Biomedical Sciences	849
University of Illinois at Chicago, Graduate College	342
University of Illinois at Urbana-Champaign, Graduate College	617
University of Iowa, Graduate College	609
University of Kansas, Graduate Studies	642
University of Kentucky College of Pharmacy, PhD Program in Pharmaceutical Sciences	822
University of Kentucky College of Medicine, MD/PhD Program/Integrated Biomedical Sciences	734
University of Louisville, Integrated Programs in Biomedical Sciences	718
University of Maryland, Baltimore County, Meyerhoff Graduate Fellows Program	732
University of Maryland, Graduate School	510
University of Maryland School of Medicine, Medical Scientist Training Program (MSTP) and Graduate Program in Life Sciences (GPILS)	730
University of Massachusetts Amherst, STEM Diversity Institute, Initiative for Maximizing Student Development (IMSD)	122
University of Massachusetts Medical School, Graduate School of Biomedical Sciences	548
University of Medicine and Health Sciences, St. Kitts, Admissions	843
University of Miami, Programs in Biomedical Sciences	329
University of Michigan, Program in Biomedical Sciences (PIBS)	427, 429
University of Michigan, Rackham Graduate School	614
University of Michigan, School of Public Health, Office of Academic Affairs	431
University of Minnesota, Biomedical Science Graduate Programs	326
University of Minnesota, Medical Scientist Training Program (MD/PhD)	328
University of Missouri, Division of Biological Sciences & PREP Scholars Program	728
University of Missouri, Graduate Life Sciences Programs	726
University of Nebraska-Lincoln, Office of Graduate Studies	610
University of Nebraska Medical Center, MD/PhD Scholars Program	612
University of New England College of Osteopathic Medicine, Office of Constituent Services	742
University of New Mexico Health Sciences Center, Biomedical Sciences Graduate Program	104
University of North Carolina at Chapel Hill, Biomedical Graduate Education, MD-PhD, School of Public Health, Masters of Accounting, and The Graduate School	720, 722
University of North Carolina, Eshelman School of Pharmacy, Pharmaceutical Sciences	841
University of North Texas Health Science Center, Graduate School of Biomedical Science	118
University of Notre Dame, Graduate School	845
University of Oregon, Biology	244
University of Pennsylvania, Chemistry	721

Exhibitor List (Category Type) (continued)

University of Pennsylvania School of Medicine, Biomedical Graduate Studies	446, 448
University of Pittsburgh, Biomedical Graduate Programs	226
University of Pittsburgh, Health Sciences Diversity	230
University of Pittsburgh, Kenneth P. Dietrich Graduate School of Arts and Sciences	348
University of Pittsburgh, Medical Scientist Training Program	228
University of Rochester, Md/PhD Program & Graduate Education and Postdoctoral Affairs	241
University of South Carolina, Biological Sciences	444
University of South Florida, Biomedical Engineering, Chemistry, Integrated Biomedical Sciences, Cell Biology, Microbiology, Molecular Biology, Physics	636
University of Southern California, Keck School of Medicine	442
University of Tennessee Health Science Center, Health Career Programs/Graduate Health Sciences	247
University of Tennessee/Program for Excellence & Equity in Research, College of Arts and Sciences	816
University of Texas, Graduate School of Biomedical Sciences at Houston, Admissions	419
University of Texas at Austin, Cellular and Molecular Biology	735
University of Texas Health Science Center at San Antonio, Graduate School of Biomedical Sciences, MD/PhD Program	140
University of Texas Medical Branch, Graduate School of Biomedical Sciences	417
University of Texas Southwestern Medical Center, Graduate School of Biomedical Sciences & Medical Scientist Training Program	437
University of Toledo, College of Medicine and Life Sciences	245
University of Utah, Molecular Biology/Biological Chemistry	236
University of Virginia, Biomedical Sciences	440
University of Washington, Department of Biochemistry & Biological Physics, Structure and Design Program/Center for Equity, Diversity & Inclusion	414
University of Washington, Medicine Pathology Molecular Medicine and Mechanisms of Disease PhD Program (M3D)	420
University of Washington, Molecular and Cellular Biology	422
University of Washington, MSTP (MD/PhD)	418
University of Washington, Pharmacological Sciences Training Program/Post-Baccalaureate Research Education Program (PREP)	416
University of Washington, School of Public Health	412
University of Wisconsin-Madison, Bioscience Graduate Programs	623
University of Wisconsin-Madison, Cellular and Molecular Biology Graduate Program	621
University of Wisconsin-Madison, Endocrinology/Reproductive Physiology	234
Van Andel Institute, Graduate School	229
Vanderbilt University, Graduate School	404
Vanderbilt University Medical Scientist Training Program, Office of Biomedical Research Education and Training	405
Vanderbilt University, Office of Biomedical Research Education and Training	403
Vanderbilt University School of Medicine, Office for Diversity in Medical Education	401
Virginia Commonwealth University, School of Medicine/Graduate Education Program	712
Virginia Tech Carilion Research Institute	629
Virginia Tech, Molecular Life Sciences and Bioinformatics	633
Virginia Tech, Multicultural Academic Opportunities Program	630
Virginia Tech, Northern Virginia Campus, The Graduate School-Northern Virginia Center	632
Virginia Tech PREP Program and the Bioinformatics Institute	631
Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences	627
Wake Forest University, Graduate School of Arts and Sciences	746
Washington State University, Graduate School	749

Washington University in St. Louis, Biology and Biomedical Sciences	337
Washington University in St. Louis, Brown School-Master of Public Health Program	335
Wayne State University, Physiology	628
Weill Cornell Graduate School of Medical Sciences	537
Weill Cornell/Rockefeller/Sloan Kettering, Tri-Institutional MD-PhD Program	531
West Virginia School of Osteopathic Medicine, Admissions	546
West Virginia University, Graduate Enrollment	741
Western University of Health Sciences, Office of University Recruitment/Strategic Enrollment Management	829
Worcester Polytechnic Institute, Graduate Admissions	733
Wright State University, Boonshoft School of Medicine, Department of Community Health	112
Yale University, Biological and Biomedical Sciences Program	134, 136
Yale University, Molecular Biophysics and Biochemistry Department & Biophysics Program	132

**Federal/Government Agency

Lawrence Berkeley National Laboratory	514
National Institutes of Health, National Cancer Institute (NCI), Center to Reduce Cancer Health Disparities	513
National Institutes of Health, National Cancer Institute (NCI)/Introduction to Cancer Research Careers	512
National Institutes of Health, National Heart, Lung and Blood Institute (NHLBI)	518
National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID)	519
National Institutes of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)	515
National Institutes of Health, National Institute of Biomedical Imaging and Bioengineering, (NIBIB), Division of Interdisciplinary Training	509
National Institutes of Health, National Institute of Dental and Craniofacial Research (NIDCR)	516
National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)	719
National Institutes of Health, National Institute of General Medical Sciences (NIGMS)	508
National Institutes of Health, National Institute of Neurological Disorders and Strokes (NINDS)and National Institute of Mental Health (NIMH)	517
National Institutes of Health, Office of Intramural Training & Education	511
National Science Foundation, Graduate Research Fellowship Program (ASEE)	817

** Foundation/Research Facility

Brigham and Women's Hospital, Office for Multicultural Faculty Careers	243
Fred Hutchinson Cancer Research Center	410
St. Jude Children's Research Hospital, Postdoctoral Recruitment Office	811

**Industry

Monsanto, Talent Acquisition/Breeding	110
Novartis Institutes for BioMedical Research, Program Office	300
Procter & Gamble	100, 102

**Additional Exhibitors

Scholars Information Services, Inc., Alumni Tracking	819

Exhibitor Attendee List

Primary Contacts Only

(as of October 1, 2013)

Linda Goodson *(Booth: 815)*
Alabama College of Osteopathic Medicine, Student Services
445 Health Sciences Boulevard
Dothan, AL 36303
Phone: 334-699-2266
Email: ambawcum@acomedu.org
URL: http://www.acomedu.org

Martha Hass *(Booth: 716)*
Albany College of Pharmacy and Health Sciences, Office of Graduate Studies
106 New Scotland Avenue
Albany, NY 12208
Phone: 518-694-7238
Email: martha.hass@acphs.edu
URL: http://www.acphs.edu

Victoria Freedman *(Booths: 503, 505)*
Albert Einstein College of Medicine, Graduate Division of Biomedical Sciences
1300 Morris Park Avenue
Bronx, NY 10461
Phone: 718-430-2872
Email: victoria.freedman@einstein.yu.edu
URL: http://www.einstein.yu.edu/phd

Robin E. Felder *(Booth: 120)*
American Association for Cancer Research (AACR)
615 Chestnut Street
17th Floor
Philadelphia, PA 19106
Phone: 215-440-9300
Email: robin.felder@aacr.org
URL: http://www.aacr.org

Gerard Boulin *(Booth: 409)*
American Association for the Advancement of Science (AAAS), Education and Human Resources Department
1200 New York Avenue, NW
Washington, DC 20005
Phone: 202-326-6767
Email: gboulin@aaas.org
URL: http://www.aaas.org/programs/education

Liz Phares *(Booth: 213)*
American Association of Anatomists
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7919
Email: lphares@anatomy.org
URL: http://www.anatomy.org

Gina M. Moses *(Booth: 345)*
American Association of Colleges of Osteopathic Medicine (AACOM)
5550 Friendship Boulevard
Suite 310
Chevy Chase, MD 20815
Phone: 301-968-4184
Email: gmoses@aacom.org
URL: http://www.aacom.org

Joy Titus-Young *(Booth: 423)*
American Chemical Society, Department of Diversity Programs
1155 Sixteenth Street, NW
Washington, DC 20036
Phone: 202-872-4600
Email: j_titus-young@acs.org
URL: http://www.acs.org/diversity

Monique Wilson *(Booth: 408)*
American Heart Association/American Stroke Association, Health Equity
9154 Eastchase Parkway #366
Montgomery, AL 36117
Phone: 205-510-1533
Email: monique.wilson@heart.org
URL: http://www.heart.org

Brooke Bruthers *(Booth: 223)*
American Physiological Society (APS)
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7226
Email: bbruthers@the-aps.org
URL: http://www.the-aps.org

Weiyi Zhao *(Booth: 208)*
American Society for Biochemistry and Molecular Biology
11200 Rockville Pike
Suite 302
Rockville, MD 20852
Phone: 240-283-6600
Email: wzhao@asbmb.org
URL: http://www.asbmb.org

Lisa McFadden *(Booth: 221)*
American Society for Investigative Pathology (ASIP)
9650 Rockville Pike
Suite E-133
Bethesda, MD 20814
Phone: 301-634-7440
Email: lmcfadden@asip.org
URL: http://www.asip.org

Tiffani Fonseca *(Booth: 523)*
American Society for Microbiology, Education Department
1752 N Street NW
Washington, DC 20036
Phone: 202-737-3600
Email: fellowships@asmusa.org
URL: http://www.asm.org/students

John Meyers *(Booth: 522)*
American Society for Microbiology, Membership Department
1752 N Street NW
Washington, DC 20036
Phone: 202-942-9253
Email: jmeyers@asmusa.org
URL: http://www.asm.org/advance

Paula Eichenbrenner *(Booth: 219)*
American Society for Nutrition
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7299
Email: peichenbrenner@nutrition.org
URL: http://www.nutrition.org

Christie Carrico *(Booth: 220)*
American Society for Pharmacology and Experimental Therapeutics (ASPET)
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7060
Email: ccarrico@aspet.org
URL: http://www.aspet.org

Sylvia Lee *(Booth: 827)*
American Society of Plant Biologists
15501 Monona Drive
Rockville, MD 20855
Phone: 301-251-0560
Email: slee@aspb.org
URL: http://my.aspb.org

Cheryl Schumacher *(Booth: 620)*
American University of the Caribbean
901 Ponce de Leon Boulevard
Suite 700
Coral Gables, FL 33134
Phone: 305-446-0600
Email: cschuamacher@aucmed.edu
URL: http://www.aucmed.edu

Jennifer Cason *(Booth: 648)*
Arizona State University, Graduate Education-Graduate Student Programs
PO Box 871003
Tempe, AZ 85287
Phone: 480-965-9347
Email: jennifer.cason@asu.edu
URL: http://www.graduate.asu.edu

Stacey Simon *(Booth: 521)*
ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) Program
4201 Wilson Boulevard
Arlington, VA 22230
Phone: 703-292-8295
Email: ssimon@nsf.gov
URL: www.asmlink.org

Lisa Greenhill *(Booth: 130)*
Association of American Veterinary Medical Colleges (AAVMC)
1101 Vermont Avenue NW
Suite 301
Washington, DC 20005
Phone: 202-371-9195
Email: lgreenhill@aavmc.org
URL: http://www.aavmc.org

Tim Hunter *(Booth: 216)*
Association of Biomolecular Resource Facilities (ABRF)
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7306
Email: timothy.hunter@uvm.edu
URL: http://www.abrf.org

Lourdes A. Fernandez *(Booth: 413)*
Baylor College of Medicine, Graduate School of Biomedical Sciences
One Baylor Plaza
BCM215
Houston, TX 77030
Phone: 713-798-4028
Email: lourdesf@bcm.edu
URL: http://www.bcm.edu/gradschool

Terry Young *(Booth: 215)*
Biomedical Engineering Society (BMES)
8201 Corporate Drive
Suite 1125
Landover, MD 20785
Phone: 301-459-1999
Email: terry@bmes.org
URL: http://www.bmes.org

Ellen Weiss *(Booth: 532)*
Biophysical Society, Minority Affairs Committee
11400 Rockville Pike
Suite 800
Rockville, MD 20852
Phone: 240-290-5600
Email: eweiss@biophysical.org
URL: http://www.biophysics.org

Beth Gee *(Booth: 634)*
Boise State University, Biomolecular Sciences Ph.D. Program
1910 University Drive
Boise, ID 83725-1512
Phone: 208-426-2844
Email: bgee2@boisestate.edu
URL: http://www.biomolecularphd.boisestate.edu

Caroline Lyman *(Booth: 144)*
Boston University, Bioinformatics Graduate Program
44 Cummington Mall
Boston, MA 02215
Phone: 617-358-0752
Email: clyman@bu.edu
URL: http://www.bu.edu/bioinformatics

Linda Zimmerman *(Booth: 142)*
Boston University, Division of Graduate Medical Sciences
72 East Concord Street L-317
Boston, MA 02118
Phone: 617-638-5138
Email: lzimmerm@bu.edu
URL: http://www.bumc.bu.edu/gms/

Kimberlie Paul *(Booth: 243)*
Brigham and Women's Hospital, Office for Multicultural Faculty Careers
1620 Tremont Street
Boston, MA 02120
Phone: 617-525-8356
Email: kpaul2@partners.org
URL: http://www.brighamandwomens.org/cfdd/omc

Eboney Smith *(Booth: 128)*
Broad Institute of MIT and Harvard, Diversity Initiative
7 Cambridge Center
Room 7022
Cambridge, MA 02142
Phone: 617-714-7916
Email: esmith@broadinstitute.org
URL: http://www.broadinstitute.org/diversity

Jabbar Bennett *(Booth: 626)*
Brown University, Graduate School/ Leadership Alliance
47 George Street
Providence, RI 02912
Phone: 401-863-1007
Email: jabbar_bennett@brown.edu
URL: http://www.brown.edu/academics/gradschool/

Eva Graham *(Booth: 810)*
California Institute of Technology (CALTECH), Center for Diversity
1200 E. California Boulevard
Pasadena, CA 91125
Phone: 626-395-8103
Email: egraham@caltech.edu

Kim Dunn *(Booth: 833)*
Campbell University, College of Pharmacy and School of Osteopathic Medicine
PO Box 1090
Buies Creek, NC 27546
Phone: 910-893-1690
Email: dunnk@campbell.edu
URL: http://www.campbell.edu/cphs

Malana Bey *(Booth: 837)*
Case Western Reserve University, Office of Graduate Education
10900 Euclid Avenue
Cleveland, OH 44106
Phone: 216-368-5655
Email: mcb19@case.edu
URL: casemed.case.edu/gradprog

Edith Markoff *(Booth: 449)*
Cincinnati Children's Research Foundation and University of Cincinnati College of Medicine
3333 Burnet Avenue
Cincinnati, OH 45229
Phone: 513-636-7459
Email: edith.markoff@cchmc.org
URL: http://www.cincinnatichildrens.org

Kate M. Sleeth *(Booth: 126)*
City of Hope, Irell and Manella Graduate School of Biological Sciences
1500 East Duarte Road
Duarte, CA 91010
Phone: 626-471-3667
Email: ksleeth@coh.org
URL: http://www.cityofhope.org/grad-school

Curtis Byrd *(Booth: 818)*
Clark Atlanta University, Graduate Recruitment and Admissions
223 James P. Brawley Drive SW
Atlanta, GA 30314
Phone: 404-880-6036
Email: cbyrd@cau.edu
URL: http://www.cau.edu

Elizabeth Myers *(Booth: 447)*
Cleveland Clinic Lerner College of Medicine of Case Western Reserve University and Molecular Medicine PhD Program
The Cleveland Clinic
9500 Euclid Avenue - NA21
Cleveland, OH 44195
Phone: 216-445-7429
Email: myerse@ccf.org
URL: http://www.clevelandclinic.org/cclcm/

Kimberly Creteur *(Booth: 436)*
Cold Spring Harbor Laboratory, Watson School of Biological Sciences
1 Bungtown Road
Cold Spring Harbor, NY 11724
Phone: 516-367-6890
Email: kcreteur@cshl.edu
URL: http://www.cshl.edu/gradschool

Jodie Hanzlik *(Booth: 435)*
Colorado State University, The Graduate School
200 West Lake, 1005 CD
Fort Collins, CO 80523
Phone: 970-491-6817
Email: jodie.hanzlik@colostate.edu
URL: http://graduateschool.colostate.edu/

Fred Loweff *(Booth: 501)*
Columbia University Medical Center, Coordinated Doctoral Program in Biomedical Sciences
630 West 168th Street
P&S 3-435
New York, NY 10032
Phone: 212-305-8058
Email: fl12@columbia.edu
URL: http://www.gsas.cumc.columbia.edu

Kathleen E. Pickering *(Booth: 533)*
Cornell/Rockefeller/Sloan-Kettering Tri-Institutional PhD Programs in Chemical Biology, Computational Biology and Medicine
1300 York Avenue
Box 194
New York, NY 10065
Phone: 212-746-6037
Email: kap2013@med.cornell.edu
URL: http://www.triiprograms.org

Anita McCarthy *(Booth: 535)*
Cornell University, Graduate School
325 Caldwell Hall
Ithaca, NY 14853
Phone: 607-255-5820
Email: amb78@cornell.edu
URL: http://www.gradschool.cornell.edu/

Robin Howard *(Booth: 344)*
Council on Undergraduate Research
734 15th Street NW
Suite 550
Washington, DC 20005
Phone: 202-783-4810-203
Email: robin@cur.org
URL: http://www.cur.org

Jane Seibel *(Booth: 622)*
Dartmouth College, Graduate Programs
6062 Wentworth Hall
Hanover, NH 03755
Phone: 603-646-6578
Email: jane.b.seibel@dartmouth.edu
URL: graduate.dartmouth.edu

Leonard Davis *(Booth: 246)*
Delaware State University, College of Mathematics, Natural Sciences and Technology
1200 N. DuPont Hwy
Dover, DE 19901
Phone: 302-857-6510
Email: ledavis@desu.edu
URL: www.desu.edu/cmnst

Gina Smith *(Booth: 543)*
Des Moines University, Colleges of Osteopathic Medicine, Pediatric Medicine & Surgery, and Health Sciences
3200 Grand Avenue
Des Moines, IA 50312
Phone: 515-271-7497
Email: gina.smith@dmu.edu
URL: http://www.dmu.edu

Kate Pelusi *(Booth: 536)*
Drexel University College of Medicine, Biomedical Graduate Studies
2900 Queen Lane
Suite G24
Philadelphia, PA 19119
Phone: 215-991-8156
Email: kpelusi@drexelmed.edu
URL: http://www.drexelmed.edu/biograd

Sherilynn Black *(Booth: 709)*
Duke University,
Office of Biomedical Graduate Diversity
DUMC 103865
Durham, NC 27710
Phone: 919-668-0454
Email: sherilynn.black@duke.edu
URL: http://www.medschool.duke.edu/phd-programs/diversity

J. Alan Kendrick *(Booth: 711)*
Duke University
The Graduate School
2127 Campus Drive
Durham, NC 27708
Phone: 919-681-3257
Email: alan.kendrick@duke.edu
URL: http://gradschool.duke.edu

Ernie Rushing *(Booths: 713)*
Duke University
School of Nursing
307 Trent Drive
Durham, NC 27710
Phone: 877-415-3853
Email: ernie.rushing@duke.edu
URL: http://nursing.duke.edu

Ernie Rushing *(Booth: 816)*
Duke University School of Nursing, Admissions Office
307 Trent Drive
Durham, NC 27710
Phone: 877-415-3853
Email: ernie.rushing@duke.edu
URL: http://nursing.duke.edu

Claretta J. Sullivan *(Booth: 340)*
Eastern Virginia Medical School, School of Health Professions
700 W. Olney Road
Norfolk, VA 23507-1607
Phone: 757-446-5167
Email: sullivcj@evms.edu
URL: http://www.evms.edu/education/

Ann Dasher *(Booth: 311)*
Emory University, Chemistry Program
1515 Dickey Drive
Atlanta, GA 30322
Phone: 404-727-6585
Email: adasher@emory.edu
URL: http://www.gs.emory.edu/academics/index.php

Eddie Morgan *(Booth: 310)*
Emory University, Graduate Division of Biological and Biomedical Sciences
1510 Clifton Road
5119 Rollins Research Center
Atlanta, GA 30322
Phone: 404-727-5986
Email: etmorga@emory.edu
URL: http://www.biomed.emory.edu

Kathy Smith *(Booth: 308)*
Emory University, Graduate Division of Biological and Biomedical Sciences
1462 Clifton Road
Suite 314
Atlanta, GA 30322
Phone: 404-727-2547
Email: kathy.smith@emory.edu
URL: http://www.biomed.emory.edu

Cora E. MacBeth *(Booth: 313)*
Emory University, Laney Graduate School
201 Dowman Drive
Atlanta, GA 30322
Phone: 404-727-6028
Email: cmacbet@emory.edu
URL: http://www.graduateschool.emory.edu

Prudence Goss *(Booth: 315)*
Emory University, Rollins School of Public Health
1518 Clifton Road
Suite 164
Atlanta, GA 30322
Phone: 404-727-3956
Email: pgoss@emory.edu
URL: http://www.sph.emory.edu

Maxine Wright-Thompson *(Booth: 312)*
Emory University School of Medicine, MD/PHD Program
100 Woodruff Circle
Atlanta, GA 30322
Phone: 404-712-8593
Email: mwthomp@emory.edu
URL: http://www.med.emory.edu/mdphd

Mary Delong *(Booth: 309)*
Emory University School of Medicine, Office of Postdoctoral Education/FIRST
1648 Pierce Drive
Suite 307
Atlanta, GA 30322
Phone: 404-727-3302
Email: medmd@emory.edu
URL: http://www.med.emory.edu/postdoc

Robin Scibek *(Booth: 743)*
Extreme Science and Engineering Discovery Environment (XSEDE), Outreach
300 S. Craig Street
Pittsburgh, PA 15213
Phone: 412-216-0029
Email: flaus@psc.edu
URL: http://www.xsede.org

Jacquie Roberts *(Booths: 200, 201, 202, 203, 204, 205)*
FASEB MARC Program
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7022
Email: jroberts@faseb.org
URL: http://www.faseb.org/marc

Janice Reuben *(Booths: 209, 211)*
FASEB MARC Program, Peer Mentoring Program
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7022
Email: PeerMentor@faseb.org
URL: http://www.faseb.org/marc

Verian Thomas *(Booth: 747)*
Florida A&M University, Graduate Studies and Research
515 Orr Drive
Tucker Hall, Suite 469
Tallahassee, FL 32352
Phone: 850-599-3505
Email: vanessa.shaw@famu.edu
URL: http://www.famu.edu/index.cfm?graduatestudies&Aboutus

Sonja Montas Hunter *(Booth: 343)*
Florida International University, Graduate School
11200 S.W. 8th Street
PC 230
Miami, FL 33199
Phone: 305-348-2455
Email: smontash@fiu.edu
URL: http://www.gradschool.fiu.edu

Ieva Gaurys *(Booth: 410)*
Fred Hutchinson Cancer Research Center
823 Yale Avenue North
Yale Building, J1-105
Seattle, WA 98109
Phone: 206-667-7720
Email: igaurys@fhcrc.org

Elizabeth Ruedi *(Booth: 212)*
Genetics Society of America (GSA)
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7300
Email: eruedi@genetics-gsa.org
URL: http://www.genetics-gsa.org

Exhibitor Attendee List (continued)

Diane G. Hoover *(Booth: 330)*
George Washington University, School of Engineering and Applied Sciences, Electrical and Computer Engineering Department
801 22nd Street NW
Room 608
Washington, DC 20052
Phone: 202-994-5934
Email: dghoover@gwu.edu
URL: http://www.ece.seas.gwu.edu

Mary Slone *(Booth: 232)*
George Washington University, School of Medicine & Health Sciences and School of Public Health & Health Services
Office of Admissions
2300 I Street NW, Suite 106
Washington, DC 20052
Phone: 202-994-3013
Email: mcslone@gwu.edu
URL: http://smhs.gwu.edu

Renee Barton *(Booth: 433)*
Georgetown University, Biomedical Graduate Education
3900 Reservoir Road NW
NE 303 Medical-Dental Building
Washington, DC 20057
Phone: 202-687-3690
Email: ab2856@georgetown.edu
URL: http://biomedicalprograms.georgetown.edu

Shannon Sullivan *(Booth: 314)*
Georgia Institute of Technology and Emory University, Biomedical Engineering
313 Ferst Drive
Atlanta, GA 30332
Phone: 404-385-0482
Email: shannon.sullivan@bme.gatech.edu
URL: http://www.bme.gatech.edu

Emily Crider *(Booth: 823)*
Georgia Regents University, The Graduate School
1120 15th Street
CJ 2201
Augusta, GA 30912
Phone: 706-721-3279
Email: ecrider@gru.edu
URL: http://www.gru.edu/gradstudies/

Robert Leone *(Booth: 231)*
Global Health Fellows Program II/Public Health Institute
555 12th Street, Suite 1050
Oakland, CA 94607
Phone: 510-285-5674
Email: rleone@ghfp.net
URL: http://www.ghfp.net

Amy Jackson *(Booth: 411)*
Gulf Coast Consortia
6100 Main, MS 41
Houston, TX 77005
Phone: 713-348-4752
Email: amyjackson@rice.edu
URL: http://www.gulfcoastconsortia.org

Carol Brown *(Booth: 814)*
Harbor-UCLA Medical Center/LA BioMed, Pediatrics
1124 West Carson Street
Torrance, CA 90502
Phone: 310-270-7747
Email: cbrown@labiomed.org
URL: http://www.harbor-ucla.org

Kerri Noonan *(Booth: 432)*
Harvard School of Public Health, Admissions Office
158 Longwood Avenue
Boston, MA 02115-5810
Phone: 617-432-4175
Email: knoonan@hsph.harvard.edu
URL: http://www.hsph.harvard.edu

Amy Cohen *(Booth: 434)*
Harvard University, Division of Medical Sciences and M.D.-Ph.D Program
TMEC 168
260 Longwood Avenue
Boston, MA 02115
Phone: 617-432-0724
Email: amy@hms.harvard.edu
URL: http://hms.harvard.edu/

James M. Hogle *(Booth: 430)*
Harvard University, Graduate School of Arts and Science (GSAS)
HMS Campus, 240 Longwood Avenue
Building C, Room 122
Boston, MA 02115
Phone: 617-432-3918
Email: james_hogle@hms.harvard.edu
URL: http://www.fas.harvard.edu/~biophys/

John M. McNally *(Booth: 426)*
Harvard University, Harvard Integrated Life Sciences (HILS)
Holyoke Center 350
1350 Massachusetts Avenue
Cambridge, MA 02138
Phone: 617-495-0616
Email: jmcnally@fas.harvard.edu
URL: http://www.gsas.harvard.edu/hils

Michael Lawrence *(Booth: 428)*
Harvard University, Program in Molecules, Cells and Organisms
52 Oxford Street
Room 195.02
Cambridge, MA 02138
Phone: 617-495-3293
Email: mlawrence@mcb.harvard.edu
URL: http://www.mcb.harvard.edu

Nancy Aebersold *(Booth: 547)*
Higher Education Recruitment Consortium
175 Stephens Lane
Ben Lomond, CA 95005
Phone: 831-335-4406
Email: nancy@nationalherc.org
URL: http://www.hercjobs.org

Linda G. Jones *(Booth: 714)*
Howard University, Graduate School, Office of the Dean
4th & College Avenue NW
Annex IIII
Washington, DC 20059
Phone: 202-806-7597
Email: lgjones@howard.edu
URL: http://www.howard.edu

Denise Charles *(Booth: 649)*
Hunter College, Center for Study of Gene Structure and Function
695 Park Avenue
Room 315HN
New York, NY 10065
Phone: 212-772-4204
Email: charles@genectr.hunter.cuny.edu
URL: genecenter.hunter.cuny.edu

Deborah Young *(Booth: 616)*
Illinois Institute of Technology, Graduate Recruitment
10 W. 33rd Street
Chicago, IL 60616
Phone: 312-567-3779
Email: dyoung6@iit.edu
URL: http://www.iit.edu

Tracey Stohr *(Booth: 441)*
Indiana University Bloomington, Department of Biology
915 E Third Street
Bloomington, IN 47401
Phone: 812-856-6303
Email: tstohr@indiana.edu
URL: http://www.bio.indiana.edu

Tara Hobson-Prater *(Booth: 341)*
Indiana University-Purdue University Indianapolis Graduate Programs and Indiana University School of Medicine Graduate Programs
635 N. Barnhill Drive
Room 207
Indianapolis, IN 46202
Phone: 317-274-3441
Email: tlhobson@iupui.edu
URL: http://grad.medicine.iu.edu

Lee Rivers *(Booth: 242)*
Institute of International Education, Fulbright U.S. Student Program, Gilman International Scholarship Program, and Whitaker International Program
809 United Nations Plaza
New York, NY 10017
Phone: 832-369-3488
Email: lrivers@iie.org
URL: http://www.iie.org/students

Diane Kovats *(Booth: 214)*
International Society for Computational Biology
9500 Gilman Drive
La Jolla, CA 92093
Phone: 858-822-0852
Email: dkovats@iscb.org
URL: http://www.iscb.org

Sharon Warner *(Booth: 334)*
Johns Hopkins Bloomberg School of Public Health, Admissions Services
615 N. Wolfe Street
Suite E1002
Baltimore, MD 21205
Phone: 410-955-3543
Email: lvink@jhsph.edu
URL: http://www.jhsph.edu

Joan Miller *(Booth: 332)*
Johns Hopkins University, School of Arts and Sciences: Cellular, Molecular, Developmental Biology and Biophysics
3400 N. Charles Street
Baltimore, MD 21218
Phone: 410-516-5502
Email: joan@jhu.edu
URL: cmdb.jhu.edu

Catherine L. Will *(Booth: 336)*
Johns Hopkins University, School of Medicine
1830 E. Monument Street
Suite 2-107
Baltimore, MD 21205
Phone: 410-614-3385
Email: cwill2@jhmi.edu
URL: http://www.hopkinsmedicine.org/graduateprograms

Brooke Birdsong *(Booth: 542)*
Kansas City University of Medicine & Biosciences, Office of Admissions
1750 Independence Avenue
Kansas City, MO 64106
Phone: 816-654-7163
Email: bbirdsong@kcumb.edu
URL: http://www.kcumb.edu

Anel Rivera-Villa *(Booth: 443)*
Keck Graduate Institute, Office of Admissions
535 Watson Drive
Claremont, CA 91711
Phone: 909-607-0173
Email: arivera@kgi.edu
URL: http://www.kgi.edu

Laina King *(Booth: 601)*
Keystone Symposia on Molecular and Cellular Biology, Diversity in Life Science Programs
PO Box 1630
Silverthorne, CO 80498
Phone: 970-262-2692
Email: bridgets@keystonesymposia.org
URL: http://www.keystonesymposia.org

Colette Flood *(Booth: 514)*
Lawrence Berkeley National Laboratory
One Cyclotron Road
MS: 7R0222
Berkeley, CA 94720
Phone: 510-495-2648
Email: clflood@lbl.gov
URL: education.lbl.gov

Leanne Cribbs *(Booth: 723)*
Loyola University Chicago, Health Sciences Division
2160 S. 1st Avenue
Maywood, IL 60153
Phone: 708-327-2817
Email: lcribbs@luc.edu
URL: http://www.luc.edu/biomed

Dan Kallenberger *(Booth: 647)*
Marian University College of Osteopathic Medicine, Office of Enrollment Management
3200 Cold Spring Road
Indianapolis, IN 46222
Phone: 317-955-6762
Email: dlkallenberger@marian.edu
URL: http://www.marian.edu/medicalschool

Diana R. Maue *(Booth: 740)*
Marshall University School of Medicine, Biomedical Sciences, MS, PhD, MD/PhD
Byrd Biotechnology Science Center 301-F
One John Marshall Drive
Huntington, WV 25755
Phone: 304-696-3365
Email: maue1@marshall.edu
URL: http://www.marshall.edu/bms

Mandana Sassanfar *(Booth: 237)*
Massachusetts Institute of Technology, Biology Department
77 Massachusetts Avenue
Building 68, Room 270A
Cambridge, MA 02139
Phone: 617-452-4371
Email: mandana@mit.edu
URL: https://biology.mit.edu/graduate

Daniel J. Darling *(Booth: 349)*
Massachusetts Institute of Technology, Department of Biological Engineering
16-429, 77 Massachusetts Avenue
Cambridge, MA 02139
Phone: 617-452-2464
Email: ddarling@mit.edu
URL: http://www.web.mit.edu/be

Dennis Mays *(Booth: 637)*
Mayo Clinic, College of Medicine Office for Diversity
200 First Street SW
Rochester, MN 55905
Phone: 507-266-2912
Email: dennis.mays@mayo.edu
URL: http://www.mayo.edu/diversity

Guy R. Berst *(Booth: 635)*
Medical College of Wisconsin, Graduate School of Biomedical Sciences and Medical Scientist Training Program
8701 Watertown Plank Road
Milwaukee, WI 53226
Phone: 414-955-4402
Email: gradschoolrecruit@mcw.edu
URL: http://www.mcw.edu/gradschool

Cynthia Wright *(Booth: 534)*
Medical University of South Carolina, College of Graduate Studies
68 President Street
BE 101
Charleston, SC 29425
Phone: 843-876-2403
Email: wrightcf@musc.edu
URL: http://academicdepartments.musc.edu/grad

Malynda Gaines *(Booths: 400, 402)*
Meharry Medical College, School of Graduate Studies and Research
1005 Dr. D. B. Todd Jr. Boulevard
Suite M121, West Basic Sciences Center
Nashville, TN 37208
Phone: 615-327-6533
Email: mgaines@mmc.edu
URL: http://www.mmc.edu/education/sogsr/

Maria Torres *(Booth: 527)*
Memorial Sloan-Kettering Cancer Center, Louis V. Gerstner, Jr. Graduate School of Biomedical Sciences
1275 York Avenue
New York, NY 10065
Phone: 646-888-6639
Email: mtorres@sloankettering.edu
URL: http://www.sloankettering.edu

Steven D. Thomas *(Booth: 619)*
Michigan State University, Graduate School
479 W. Circle Drive
110 Linton
East Lansing, MI 48824
Phone: 517-353-3220
Email: deshawn@grd.msu.edu
URL: http://www.grad.msu.edu

Jennifer Alexander *(Booth: 831)*
MIDAS (Models of Infectious Disease Agent Study)
RTI 800 Park Offices Drive, 4E02
Research Triangle Park, NC 27709
Phone: 301-770-8219
Email: jalexander@rti.org
URL: http://www.epimodels.org

Keithen Stallings *(Booth: 110)*
Monsanto, Talent Acquisition/Breeding
800 N. Lindbergh Boulevard
G3315E
St. Louis, MO 63167
Phone: 314-694-5449
Email: keithen.stallings@monsanto.com
URL: http://www.monsanto.com

Jamel Slaughter *(Booth: 736)*
Morehouse College, Public Health Sciences Institute
830 Westview Drive SW
Hope Hall 105
Atlanta, GA 30314
Phone: 404-215-2733
Email: jslaughter@morehouse.edu
URL: http://www.morehouse.edu/centers/phsi

Jamillah A. McDaniel *(Booth: 148)*
Morehouse School of Medicine, Graduate Education in Biomedical Sciences
720 Westview Drive SW
Hugh Gloster Building, Room 209
Atlanta, GA 30310
Phone: 404-752-1773
Email: jmcdaniel@msm.edu
URL: http://www.msm.edu/educationtraining/degreeprograms/GEBS.aspx

Basil Hanss *(Booth: 249)*
Mount Sinai Icahn School of Medicine, Graduate School of Biomedical Sciences
1 Gustare L. Levy Place
New York, NY 10029
Phone: 212-241-2793
Email: basil.hanss@mssm.edu
URL: http://www.mssm.edu

Jane Dell'Amore *(Booth: 545)*
National Research Council of the National Academies, Fellowship Programs
500 Fifth Street NW
Washington, DC 20001
Phone: 202-334-2760
Email: jdellamo@nas.edu
URL: http://www.nationalacademies.org/fellowships

Christopher Carr *(Booth: 817)*
National Science Foundation, Graduate Research Fellowship Program (ASEE)
1818 N Street NW
#600
Washington, DC 20036
Phone: 202-649-3837
Email: c.carr@asee.org
URL: http://www.nsfgrfp.org

Norma Palomino *(Booth: 347)*
New Mexico State University, University Admissions
PO Box 30001
MSC 3G
Las Cruces, NM 88003
Phone: 575-646-2736
Email: norpal@nmsu.edu
URL: prospective.nmsu.edu/graduate

Joel Oppenheim *(Booths: 500, 502)*
New York University School of Medicine, Sackler Institute
550 First Avenue
New York, NY 10016
Phone: 212-263-8001
Email: joel.oppenheim@nyumc.org
URL: http://sackler.med.nyu.edu

John Ojeifo *(Booth: 513)*
NIH National Cancer Institute (NCI), Center to Reduce Cancer Health Disparities
9609 Medical Center Drive
Room 6W256, MSC 9746
Rockville, MD 20852
Phone: 240-276-6186
Email: john.ojeifo@nih.gov
URL: crchd.cancer.gov

Isabel Valencia *(Booth: 512)*
NIH National Cancer Institute (NCI)/ Introduction to Cancer Research Careers
11400 Rockville Pike, Room 761
Bethesda, MD 20892-9161
Phone: 301-480-5033
Email: valenci@mail.nih.gov
URL: https://icrc.nci.nih.gov

Lauren Stone *(Booth: 518)*
NIH National Heart, Lung and Blood Institute (NHLBI)
Building 31, Room A52
31 Center Drive
Bethesda, MD 20824
Phone: 301-592-8573
Email: nhlbiinfo@nhlbi.nih.gov
URL: www.nhlbi.nih.gov

Diane Adger-Johnson *(Booth: 519)*
NIH National Institute of Allergy and Infectious Diseases (NIAID)
6700B Rockledge Drive
Bethesda, MD 20892
Phone: 301-402-8969
Email: dadger@niaid.nih.gov
URL: http://www.niaid.nih.gov

Rebecca Willingham *(Booth: 515)*
NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
1 AMS Circle
Bethesda, MD 20892
Phone: 877-226-4267
Email: niams.exhibits@iqsolutions.com
URL: http://www.niams.nih.gov

Shirley Coney-Johnson *(Booth: 509)*
NIH National Institute of Biomedical Imaging and Bioengineering (NIBIB), Division of Interdisciplinary Training
31 Center Drive
Bethesda, MD 20906
Phone: 301-496-9208
Email: coneyjohnsons@mail.nih.gov
URL: http://www.nibib.nih.gov

Lauren Stone *(Booth: 516)*
NIH National Institute of Dental and Craniofacial Research (NIDCR)
Building 31, Room SB-55
Bethesda, MD 20892
Phone: 301-496-4261
Email: nidcrinfo@mail.nih.gov
URL: http://www.nidcr.nih.gov

Winnie Martinez *(Booth: 719)*
NIH National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
6707 Democracy Boulevard
Room 906
Bethesda, MD 20892
Phone: 301-435-2988
Email: winnie.martinez@nih.gov

Jilliene Drayton *(Booth: 508)*
NIH National Institute of General Medical Sciences (NIGMS)
45 Center Drive
MSC 6200, Room 3AN, 32
Bethesda, MD 20892
Phone: 301-496-7301
Email: draytonj@nigms.nih.gov
URL: http://www.nigms.nih.gov

Michelle Jones-London *(Booth: 517)*
NIH National Institute of Neurological Disorders and Strokes (NINDS) and National Institute of Mental Health (NIMH)
31 Center Drive
Room 8A07, MSC 2540
Bethesda, MD 20892
Phone: 301-496-5751
Email: braininfo@ninds.nih.gov
URL: http://www.ninds.nih.gov

Shirley C. Forehand *(Booth: 511)*
NIH Office of Intramural Training & Education
2 Center Drive
Building 2, Room 2E04
Bethesda, MD 20892
Phone: 301-402-2174
Email: forehans@mail.nih.gov
URL: https://www.training.nih.gov

Frances Williams *(Booth: 847)*
Norfolk State University, Center for Materials Research
700 Park Avenue
Norfolk, VA 23504
Phone: 757-823-0046
Email: fwilliams@nsu.edu
URL: http://www.nsu.edu/cset/csetgraduate/cmr/index

David Shafer *(Booth: 108)*
North Carolina State University, The Graduate School
PO Box 7102 NCSU
Raleigh, NC 22769-7102
Phone: 919-515-7052
Email: david_shafer@ncsu.edu
URL: http://www.ncsu.edu/grad

Denise Jackson *(Booth: 520)*
Northeastern University, Minority Graduate/Postdoc Training in STEM Fields
360 Huntington Avenue (125 NI)
Boston, MA 02115
Phone: 617-373-3860
Email: d.jackson@neu.edu
URL: http://www.neu.edu

Exhibitor Attendee List (continued)

Mario Craigen *(Booth: 613)*
Northwestern University, The Graduate School
633 Clark Street
Room 1-502
Evanston, IL 60208
Phone: 847-491-5995
Email: m-craigen@northwestern.edu
URL: http://www.tgs.northwestern.edu

Hugh McLean *(Booth: 813)*
Nova Southeastern University, College of Pharmacy
3200 South University Drive
Ft. Lauderdale, FL 33027
Phone: 954-262-1713
Email: hm334@nova.edu
URL: pharmacy.nova.edu

Anastacia Berzat *(Booth: 300)*
Novartis Institutes for BioMedical Research, Program Office
200 Technology Square
Cambridge, MA 02139
Phone: 617-460-9010
Email: anastacia.berzat@novartis.com
URL: http://www.nibr.com

Kristin Smith *(Booth: 227)*
Penn State College of Medicine, Biomedical Sciences Graduate Program
500 University Drive
H133
Hershey, PA 17033
Phone: 717-531-0003-285864
Email: kec17@psu.edu
URL: http://med.psu.edu/bms

Stephanie Preston *(Booth: 615)*
Penn State University, Graduate School
111-N Kern Building
University Park, PA 16802
Phone: 814-863-1663
Email: sdp163@psu.edu
URL: http://www.gradschool.psu.edu/

Deborah Benvenger *(Booth: 544)*
Philadelphia College of Osteopathic Medicine
Office of Admissions
4170 City Avenue
Philadelphia, PA 19131
Phone: 215-871-6711
Email: deborahbe@pcom.edu
URL: http://www.pcom.edu

Alison Gammie *(Booth: 235)*
Princeton University, Department of Molecular Biology and the Lewis-Sigler Institute for Integrative Genomics
334 Lewis Thomas Lab
Princeton, NJ 08544
Phone: 609-258-6380
Email: agammie@princeton.edu
URL: http://molbio.princeton.edu/graduate/diversity

Marvin Abrinica *(Booths: 100, 102)*
Procter & Gamble
2 P&G Plaza
Cincinnati, OH 45202
Phone: 513-626-7617
Email: abrinica.mj@pg.com
URL: http://www.experiencepg.com

Dwight E. Lewis *(Booth: 608)*
Purdue University, Graduate School
155 S. Grant Street
Young Hall, Room 170
West Lafayette, IN 47907-2114
Phone: 765-494-3232
Email: delewis@purdue.edu
URL: http://www.gradschool.purdue.edu

Christine Zardecki *(Booth: 715)*
RCSB Protein Data Bank, Rutgers Center for Integrative Proteomics Research
174 Frelinghuysen Road
Piscataway, NJ 08854
Phone: 848-445-0103
Email: info@rcsb.org
URL: http://www.rcsb.org

Tracy Morizio *(Booth: 146)*
Rensselaer Polytechnic Institute, Office of Graduate Admissions
110 8th Street
Troy, NY 12180
Phone: 518-276-6216
Email: morizt@rpi.edu
URL: http://www.rpi.edu

Susan Cates *(Booth: 421)*
Rice University, Biochemistry & Cell Biology, Office of Diversity, and Institute of Biosciences & Bioengineering
6100 Main Street
MS-140
Houston, TX 77005
Phone: 713-348-5777
Email: mscates@rice.edu
URL: http://www.rice.edu

Cheryl Schumacher *(Booth: 618)*
Ross University
630 US Hwy 1
Administrative Office Located North
Brunswick, NJ 08902
Phone: 732-509-4600
Email: cschuamacher@RossU.edu
URL: http://www.rossu.edu

Norman Karin, PhD *(Booth: 640)*
Roswell Park Cancer Institute
Elm & Carlton Streets
Buffalo, NY 14263
Phone: 716-845-2339
Email: norman.karin@roswellpark.org
URL: http://www.roswellpark.edu/education

Paula Watkins *(Booth: 729)*
Rowan University School of Osteopathic Medicine, Admissions Office
One Medical Center Drive
Academic Center, Suite 210
Stratford, NJ 08084
Phone: 856-566-7050
Email: fennerpa@umdnj.edu
URL: http://www.som.umdnj.edu

Evelyn S. Erenrich *(Booth: 549)*
Rutgers University, Graduate School-New Brunswick and Graduate School of Biomedical Sciences
25 Bishop Place
New Brunswick, NJ 08901
Phone: 848-932-9286
Email: erenrich@rutgers.edu
URL: http://gsnb.rutgers.edu

Barry Komisaruk *(Booth: 445)*
Rutgers University-Newark Campus, MBRS Program
175 University Avenue
Conklin Hall 241
Newark, NJ 07102
Phone: 973-353-5772
Email: brk@psychology.rutgers.edu
URL: http://mbrs.newark.rutgers.edu

Thomas C. Westfall *(Booth: 737)*
Saint Louis University, Pharmacological and Physiological Science
1402 S. Grand Boulevard
St. Louis, MO 63104
Phone: 314-977-6400
Email: westfatc@slu.edu
URL: http://medschool.slu.edu/pharmphys/

Kathleen Barnes *(Booth: 819)*
Scholars Information Services, Inc., Alumni Tracking
101 Parkshore Drive
Folsom, CA 95630
Phone: 916-990-9910
Email: kbarnes@sbcglobal.net
URL: http://www.locateyourscholars.com

Erin Steigerwalt *(Booth: 116)*
SMART Scholarship for Service Program
1818 N Street NW
Suite 600
Washington, DC 20036
Phone: 202-331-3544
Email: smart@asee.org
URL: smart.asee.org

Marsha E. Lucas *(Booth: 217)*
Society for Developmental Biology (SDB)
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7344
Email: mlucas@sdbonline.org
URL: http://www.sdbonline.org

Susan Simmons *(Booth: 415)*
Society of Toxicology
1821 Michael Faraday Drive
Suite 300
Reston, VA 20190
Phone: 703-438-3115 Ext. 1602
Email: susan@toxicology.org
URL: http://www.toxicology.org

Alicia Watkins *(Booth: 233)*
Southern Methodist University, Graduate Studies
6425 Boaz Lane
Suite 101
Dallas, TX 75275
Phone: 214-768-4345
Email: smugrad@smu.edu
URL: http://www.smu.edu/graduate

Heather Dillon *(Booth: 811)*
St. Jude Children's Research Hospital, Postdoctoral Recruitment Office
262 Danny Thomas Place
MS 276
Memphis, TN 38105
Phone: 901-595-2750
Email: heather.dillion@stjude.org
URL: http://www.stjude.org/research

Samar Fahmy *(Booth: 301)*
Stanford University, Office of Graduate Education, Programs and Diversity
1265 Welch Road
MSOB X2C28
Stanford, CA 94305
Phone: 650-725-7423
Email: samarf@stanford.edu

Jennie Visitacion *(Booth: 303)*
Stanford University, School of Earth Sciences and Office of Postdoctoral Affairs
397 Panama Mall
Mitchell Building 139
Stanford, CA 94305-2210
Phone: 650-725-2234
Email: jenniev@stanford.edu
URL: https://pangea.stanford.edu

Toni Sperzel *(Booth: 727)*
Stony Brook University, Center for Inclusive Education
Computer Science Building Suite 2401
SUNY 4422
Stony Brook, NY 11794-4422
Phone: 631-632-9560
Email: toni.sperzel@stonybrook.edu
URL: http://www.stonybrook.edu/cie

Ellen Telesca *(Booth: 744)*
SUNY Downstate Medical Center, School of Graduate Studies
450 Clarkson Avenue
Box 41
Brooklyn, NY 11203-2098
Phone: 718-270-1155
Email: ellen.telesca@downstate.edu
URL: http://www.downstate.edu/grad

Jessica Pryor *(Booth: 820)*
Tennessee State University, Master of Public Health
330 10 Avenue North
Suite D
Nashville, TN 37013
Phone: 615-963-7217
Email: jpryor5@tnstate.edu
URL: http://www.tnstate.edu/phas/public_health.aspx

Christian B. Hilty *(Booth: 835)*
Texas A&M University, Chemistry
Department of Chemistry
3355 TAMU
College Station, TX 77843
Phone: 979-862-3099
Email: chilty@chem.tamu.edu
URL: http://www.chem.tamu.edu/academics/graduate/

Shaine Marsden *(Booth: 821)*
Texas A&M University, Office of Graduate and Professional Studies
001 Commons Building
1113 TAMU
College Station Texas, TX 77843
Phone: 979-845-3631
Email: smarsden@tamu.edu
URL: ogs.tamu.edu

Kelly Ibarra *(Booth 717)*
Texas Chiropractic College, Admissions
5912 Spencer Highway
Pasadena, TX 77505
Phone: 281-998-5764
Email: Kibarra@txchiro.edu
URL: www.txchiro.edu

Jackie Chavez *(Booth: 540)*
Texas Tech University Health Sciences Center, Graduate School of Biomedical Sciences
3601 4th Street
MS 6206
Lubbock, TX 79413
Phone: 806-743-2556
Email: jackie.chavez@ttuhsc.edu
URL: http://www.ttuhsc.edu/gsbs

Krista Suggs *(Booth: 222)*
The Endocrine Society
8401 Connecticut Avenue
Suite 900
Chevy Chase, MD 20815
Phone: 301-941-0244
Email: ksuggs@endo-society.org
URL: http://www.endocrine.org

Meg McGough *(Booth: 210)*
The Histochemical Society (HCS)
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7026
Email: mgm5@uw.edu
URL: http://www.histochemicalsociety.org

Lisa John *(Booth: 748)*
The Jackson Laboratory, Educational Programs
600 Main Street
Bar Harbor, ME 04609
Phone: 207-288-6924
Email: lisa.john@jax.org
URL: http://education.jax.org/index.html

Amy Luhmers *(Booth: 611)*
The Ohio State University, Biomedical Sciences Graduate Program & Medical Scientist Training Program
1190 Graves Hall
333 West 10th Avenue
Columbus, OH 43210
Phone: 614-292-7790
Email: amy.lahmers@osumc.edu
URL: http://medicine.osu.edu/mstp

Julia Marcela Hernandez *(Booth: 646)*
The Ohio State University, College of Arts & Sciences, Recruitment and Diversity Services
164 West 17th Avenue
Columbus, OH 43021
Phone: 614-292-2642
Email: hernandez.16@osu.edu
URL: http://www.lsn.osu.edu

Valerie Blackwell-Truitt *(Booth: 812)*
The Ohio State University, College of Medicine, Office for Diversity and Inclusion
370 W. 9th Avenue
Columbus, OH 43210
Phone: 614-688-8489
Email: valerie.blackwell-truitt@osumc.edu
URL: http://medicine.osu.edu/students/diversity/

Annie Schuster *(Booth: 114)*
The Ohio State University, College of Pharmacy, Doctor of Pharmacy
500 West 12th Avenue
Columbus, OH 43210
Phone: 614-292-1662
Email: schuster.112@osu.edu
URL: http://www.pharmacy.osu.edu

Jody McGinness *(Booth: 218)*
The Protein Society
1450 S. Rolling Rd., Suite 3.007
Baltimore, MD 21227
Phone: 443-543-5450
Email: jmcginness@proteinsociety.org
URL: http://www.proteinsociety.org

Marta Delgado *(Booth: 529)*
The Rockefeller University, Office of Graduate Studies
1230 York Avenue
New York, NY 10065
Phone: 212-327-8086
Email: delgadm@rockefeller.edu
URL: http://www.rockefeller.edu

Dawn Eastmond *(Booth: 644)*
The Scripps Research Institute, Doctoral Program in Biological and Chemical Sciences
10550 North Torrey Pines Road
TPC-19
La Jolla, CA 92037
Phone: 858-784-8469
Email: eduprgm@scripps.edu
URL: education.scripps.edu

Marc Stearns *(Booth: 643)*
Thomas Jefferson University, Jefferson Graduate School of Biomedical Sciences
1020 Locust Street
Room M-60
Philadelphia, PA 19107
Phone: 215-503-4400
Email: marc.stearns@jefferson.edu
URL: http://www.tju.edu/biomedical_sciences/

Kellie Melchin *(Booth: 731)*
Tufts University, Sackler School of Graduate Biomedical Sciences
136 Harrison Avenue
Boston, MA 02111
Phone: 617-636-6767
Email: kellie.melchin@tufts.edu
URL: sackler.tufts.edu

Carita Marrow *(Booth: 504)*
UNCF/Merck Science Initiative
1807 7th Street NW
Washington, DC 20001
Phone: 202-810-0331
Email: carita.marrow@uncf.org
URL: umsi.uncf.org

Graham Pumphrey *(Booth: 240)*
University at Buffalo, State University of New York
3435 Main Street
35 Biomedical Education Building
Buffalo, NY 14214
Phone: 716-829-4717
Email: grahampu@buffalo.edu
URL: http://www.buffalo.edu

Elizabeth White *(Booth: 641)*
University at Buffalo, State University of New York, Ph.D. Program in Biomedical Sciences (PPBS)
128 Biomedical Education Building
3435 Main Street
Buffalo, NY 14214
Phone: 716-829-3398
Email: bethw@buffalo.edu
URL: http://medicine.buffalo.edu/phdprogram

Scott Austin *(Booth: 526)*
University of Alabama at Birmingham, Graduate Biomedical Sciences
1825 University Boulevard
SHEL 120
Birmingham, AL 35294
Phone: 205-934-7810
Email: gbs@uab.edu
URL: http://www.gbs.uab.edu

Randy L. Seay *(Booth: 528)*
University of Alabama at Birmingham, Medical Scientist Training Program (MD/PhD Program)
1825 University Boulevard
SHEL 121
Birmingham, AL 35294
Phone: 205-934-4092
Email: mstp@uab.edu
URL: http://www.mstp.uab.edu

Richard W. Bennett *(Booth: 530)*
University of Alabama at Birmingham, School of Public Health
1665 University Boulevard
Suite 130
Birmingham, AL 35294-0022
Phone: 205-934-4993
Email: rbennett@uab.edu
URL: http://www.uab.edu/publichealth

Stephanie Adamson *(Booth: 645)*
University of Arizona, Graduate College
PO Box 210006
Tucson, AZ 85737
Phone: 520-626-0095
Email: adamsons@email.arizona.edu
URL: http://www.grad.arizona.edu

Kristen Sterba *(Booth: 541)*
University of Arkansas for Medical Sciences, Graduate School
4301 W. Markham Slot 601B
Little Rock, AR 72205
Phone: 501-526-7396
Email: kmsterba@uams.edu
URL: http://gradschool.uams.edu/

Audrey Knowlton *(Booth: 305)*
University of California, Berkeley, Division of Biological Sciences/Molecular and Cell Biology
158 Barrows Hall
MC #2990
Berkeley, CA 94720-2990
Phone: 510-642-5113
Email: knowlton@berkeley.edu
URL: http://www.berkeley.edu

Lynne Arcangel *(Booth: 322)*
University of California, Davis, Graduate Studies
One Shields Avenue
250 MRAK Hall
Davis, CA 95616
Phone: 530-752-0604
Email: laarcangel@ucdavis.edu
URL: http://www.gradstudies.ucdavis.edu

Daniel Fabrega *(Booth: 323)*
University of California, Irvine, Graduate Division
120 Aldrich Hall
Irvine, CA 92697
Phone: 949-824-8730
Email: dfabrega@uci.edu
URL: http://www.grad.uci.edu

Jody Spillane *(Booths: 331, 333)*
University of California, Los Angeles, ACCESS/BSP
172 Boyer Hall
UCLA
Los Angeles, CA 90095
Phone: 310-206-1845
Email: jspillane@mednet.ucla.edu
URL: http://www.uclaaccess.ucla.edu

Anne Dela Cruz *(Booth: 327)*
University of California, Los Angeles, Graduate Division
1252 Murphy Hall
MC 141901
Los Angeles, CA 90095
Phone: 310-825-3829
Email: adelacruz@grad.ucla.edu
URL: http://www.grad.ucla.edu

Tony Jimenez *(Booth: 316)*
University of California, Merced, Graduate Division
5200 North Lake Road
Merced, CA 95343
Phone: 209-228-4723
Email: ojimenez3@ucmerced.edu
URL: graduatedivision.ucmerced.edu

Maria Franco-Aguilar *(Booth: 321)*
University of California, Riverside, Graduate Division
University Office Building, #127
900 University Avenue
Riverside, CA 92507
Phone: 951-827-3680
Email: maria.franco@ucr.edu

Cathy Pugh *(Booth: 319)*
University of California, San Diego, Biological Sciences and Bioengineering
9500 Gilman Drive
La Jolla, CA 92093-0348
Phone: 858-534-0181
Email: cpugh@ucsd.edu
URL: http://www.biology.ucsd.edu/

Veronica Henson-Phillips *(Booth: 317)*
University of California, San Diego, Office of Graduate Studies
9500 Gilman Drive #0003
La Jolla, CA 92093
Phone: 858-822-3536
Email: vhensonphillips@ucsd.edu
URL: http://www.ucsd.edu

Julia Clark *(Booth: 302)*
University of California, San Francisco, Graduate Division
1675 Owens Street
Room 310
San Francisco, CA 94143-0523
Phone: 415-514-3510
Email: julia.clark@ucsf.edu
URL: http://graduate.ucsf.edu

Jana Marie Toutolmin *(Booth: 304)*
University of California, San Francisco, MSTP (MD-PHD) & Biomedical Sciences
533 Parnassus Avenue
Room U-583, Box 0662
San Francisco, CA 94143
Phone: 415-476-4423
Email: jana@medicine.ucsf.edu
URL: http://www.medschool.ucsf.edu/mstp

Walter Boggan *(Booth: 318)*
University of California, Santa Barbara, Graduate Division
3117 Cheadle Hall
Santa Barbara, CA 93101
Phone: 805-893-2277
Email: walter.boggan@graddiv.ucsb.edu
URL: http://www.graddiv.ucsb.edu

Yulianna Ortega *(Booth: 320)*
University of California, Santa Cruz, Physical and Biological Sciences
MCD Biology
1156 High Street
Santa Cruz, CA 95062
Phone: 831-459-4770
Email: yuli@ucsc.edu
URL: http://www.ucsc.edu

Exhibitor Attendee List (continued)

Nancy Schwartz *(Booth: 603)*
University of Chicago, Division of Biological Sciences
924 E. 57th Street
Chicago, IL 60637
Phone: 773-702-6426
Email: n-schwartz@uchicago.edu
URL: http://gradprograms.bsd.uchicago.edu/

Shay McAllister *(Booth: 605)*
University of Chicago, Pritzker School of Medicine Medical Scientist Training Program
5041 S. Maryland Avenue
MC 2121
Chicago, IL 60647
Phone: 773-702-9755
Email: smcallis@bsd.uchicago.edu
URL: pritzker.uchicago.edu/jointdegrees/mstp

Kristin Lopez *(Booth: 710)*
University of Colorado Boulder, Colorado Diversity Initiative
347 UCB
Boulder, CO 80309
Phone: 303-735-1706
Email: kristin.lopez@colorado.edu
URL: http://www.colorado.edu/graduateschool/DiversityInitiative/

Cammie N Kennedy *(Booth: 248)*
University of Colorado Denver, Anschutz Medical Campus
13001 E. 17th Place
Aurora, CO 80045
Phone: 303-724-5000
Email: cammie.kennedy@ucdenver.edu
URL: http://www.ucdenver.edu/academics/colleges/Pages/SchoolsColleges.aspx

Charmane Thurmand *(Booth: 346)*
University of Connecticut, Graduate School
438 Whetten Graduate Center, Ext. 1152
Storrs, CT 06269
Phone: 860-486-3949
Email: charmane.thurmand@uconn.edu
URL: http://www.grad.uconn.edu

Melinda Duncan *(Booth: 745)*
University of Delaware, Biological Sciences
105 The Green
118 Wolf Hall
Newark, DE 19716
Phone: 302-831-1841
Email: duncanm@udel.edu
URL: http://www.bio.udel.edu

Paul Gulig *(Booth: 849)*
University of Florida College of Medicine, Interdisciplinary Program in Biomedical Sciences
PO Box 100229
Gainesville, FL 32610-0229
Phone: 352-273-8603
Email: gulig@ufl.edu
URL: http://idp.med.ufl.edu

Francisco Pina *(Booth: 342)*
University of Illinois at Chicago, Graduate College
601 S. Morgan Street
603 UH
Chicago, IL 60607
Phone: 312-413-9729
Email: fpina@uic.edu
URL: http://www.grad.uic.edu/cms

Daniel Wong *(Booth: 617)*
University of Illinois at Urbana-Champaign, Graduate College
801 S. Wright Street
Champaign, IL 61820
Phone: 217-300-7747
Email: dswong@illinois.edu
URL: http://www.grad.illinois.edu

Minnetta V. Gardinier *(Booth: 609)*
University of Iowa, Graduate College
205 Gilmore Hall
Iowa City, IA 52242
Phone: 319-335-2147
Email: m-gardinier@uiowa.edu
URL: http://www.grad.uiowa.edu

Roberta Pokphanh *(Booth: 642)*
University of Kansas, Graduate Studies
1450 Jayhawk Boulevard
Room 213
Lawrence, KS 66045
Phone: 785-864-8040
Email: pokphanh@ku.edu
URL: http://www.graduate.ku.edu

Therese Stearns *(Booth: 734)*
University of Kentucky College of Medicine, MD/PhD Program/Integrated Biomedical Sciences
741 S. Limestone Street
BBSRB Room 252
Lexington, KY 40536
Phone: 859-323-2274
Email: tmstea2@uky.edu

Jim Pauly *(Booth: 822)*
University of Kentucky College of Pharmacy, Ph.D. Program in Pharmaceutical Sciences
789 S. Limestone Street
Lexington, KY 40536
Phone: 859-257-1998
Email: jim.pauly@uky.edu
URL: http://www.uky.edu/

Judy Hollkamp *(Booth: 718)*
University of Louisville, Integrated Programs in Biomedical Sciences
319 Abraham Flexner Way
Louisville, KY 40205
Phone: 502-852-3850
Email: jcholl01@louisville.edu
URL: http://www.louisville.edu/hsc/ipibs

Justine Johnson *(Booth: 732)*
University of Maryland, Baltimore County, Meyerhoff Graduate Fellows Program
1000 Hilltop Circle
Chemistry 110
Baltimore, MD 21250
Phone: 410-455-3124
Email: j.johnson@umbc.edu
URL: http://www.umbc.edu/meyerhoff/graduate

Arthur N. Popper *(Booth 510)*
University of Maryland, Graduate School
Lee Building
College Park, MD 20742
Phone: 301-405-4732
Email: apopper@umd.edu
URL: www.gradschool.umd.edu

Jane Bacon *(Booth: 730)*
University of Maryland School of Medicine, Medical Scientist Training Program (MSTP) and Graduate Program in Life Sciences (GPILS)
20 Penn Street
Room S012
Baltimore, MD 21201
Phone: 410-706-3990
Email: jbacon@som.umaryland.edu
URL: http://mdphd.umaryland.edu

Heyda M. Martinez *(Booth: 122)*
University of Massachusetts Amherst, STEM Diversity Institute, Initiative for Maximizing Student Development (IMSD)
524 Goodell Building
140 Hicks Way
Amherst, MA 01003
Phone: 413-577-1735
Email: hmmartin@admin.umass.edu
URL: http://www.umass.edu/imsd

Virginia Behn *(Booth: 548)*
University of Massachusetts Medical School, Graduate School of Biomedical Sciences
55 Lake Avenue North
Worcester, MA 1655
Phone: 508-856-4135
Email: virginia.behn@umassmed.edu
URL: http://www.umassmed.edu/gsbs

Sean Powers *(Booth: 843)*
University of Medicine and Health Sciences, St. Kitts, Admissions
460 West 34th Street
4th Floor
New York, NY 10001
Phone: 212-868-0855
Email: spowers@umhs-sk.net
URL: http://www.umhs.org

Carlen Duncombe *(Booth: 329)*
University of Miami, Programs in Biomedical Sciences
1120 NW 14th Street
Miami, FL 33136
Phone: 305-243-6278
Email: cduncombe@med.miami.edu
URL: http://www.biomed.miami.edu

Tiffany Porties *(Booths: 427, 429)*
University of Michigan, Program in Biomedical Sciences (PIBS)
1150 W. Medical Center Drive
2960 Taubman Health Sciences Library
Ann Arbor, MI 48109
Phone: 734-647-7005
Email: stonestr@umich.edu
URL: http://www.med.umich.edu/pibs

Gisselle Velez Ruiz *(Booth: 614)*
University of Michigan, Rackham Graduate School
915 E. Washington Street
Ann Arbor, MI 48109
Phone: 734-615-4474
Email: gvruiz@umich.edu
URL: http://www.rackham.umich.edu

Mary Carroll *(Booth: 431)*
University of Michigan, School of Public Health, Office of Academic Affairs
1415 Washington Heights
Ann Arbor, MI 48103
Phone: 734-764-9554
Email: maryeli@umich.edu

Jon Gottesman *(Booth: 326)*
University of Minnesota, Biomedical Science Graduate Programs
G-254 Mayo MMC 293
420 Delaware Street SE
Minneapolis, MN 55455
Phone: 612-624-1181
Email: orbs@umn.edu
URL: http://www.orbs.umn.edu

Nick Berg *(Booth: 328)*
University of Minnesota, Medical Scientist Training Program (MD/PhD)
MMC 293 B681 Mayo
420 Delaware Street SE
Minneapolis, MN 55455
Phone: 612-625-3680
Email: nick@umn.edu
URL: http://www.med.umn.edu/mdphd

Michael Garcia *(Booth: 728)*
University of Missouri, Division of Biological Sciences & PREP Scholars Program
340C Bond Life Sciences
1201 Rollins Street
Columbia, MO 65211
Phone: 573-882-9712
Email: garciaml@missouri.edu
URL: http://www.biology.missouri.edu/graduate-studies

Debbie Allen *(Booth: 726)*
University of Missouri, Graduate Life Sciences Programs
150c Bond Life Sciences Center
1201 Rollins Street
Columbia, MO 65211
Phone: 573-882-2816
Email: allendebra@missouri.edu
URL: http://missouri.edu

Becky Eby *(Booth: 610)*
University of Nebraska-Lincoln, Office of Graduate Studies
1100 Seaton Hall
PO Box 880619
Lincoln, NE 68588-0619
Phone: 402-472-0073
Email: reby2@unl.edu
URL: http://www.unl.edu/gradstudies

Sonja Cox *(Booth: 612)*
University of Nebraska Medical Center, MD/PhD Scholars Program
985520 Nebraska Medical Center
Omaha, NE 68198-5520
Phone: 402-559-8242
Email: sacox@unmc.edu
URL: http://www.unmc.edu/mdphd

Laurilee Hurley *(Booth: 742)*
University of New England College of Osteopathic Medicine, Office of Constituent Services
11 Hills Beach Road
Biddeford, ME 04005
Phone: 207-602-2604
Email: lhurley2@une.edu
URL: http://www.une.edu/com/admissions

Mary Fenton *(Booth: 104)*
University of New Mexico Health Sciences Center, Biomedical Sciences Graduate Program
MSC08 4560, 1 University of New Mexico
Albuquerque, NM 87131
Phone: 505-272-1887
Email: mfenton@salud.unm.edu
URL: http://hsc.unm.edu/research/brep/bsgpwelcome.shtm

Ashalla Freeman *(Booths: 720, 722)*
University of North Carolina at Chapel Hill, Biomedical Graduate Education, MD-PhD, School of Public Health, Masters of Accounting, and The Graduate School
CB7108, 130 Mason Farm Road
1105A Bioinformatics Building
Chapel Hill, NC 27599-7108
Phone: 919-843-8291
Email: ashalla@unc.edu
URL: http://gradschool.unc.edu/academics/degreeprograms/

Onyi Okolie *(Booth: 841)*
University of North Carolina, Eshelman School of Pharmacy, Pharmaceutical Sciences
Campus Box 7566
301 Pharmacy Lane, Room 109J
Chapel Hill, NC 27599-7566
Phone: 206-730-9484
Email: onyi@email.unc.edu
URL: http://www.pharmacy.unc.edu/programs/the-phd

Jessica Brewer *(Booth: 118)*
University of North Texas Health Science Center, Graduate School of Biomedical Science
3500 Camp Bowie Boulevard
Fort Worth, TX 76107
Phone: 817-735-2789
Email: jessica.brewer@unthsc.edu
URL: http://www.hsc.unt.edu/education/gsbs/

Linda Chism *(Booth: 845)*
University of Notre Dame, Graduate School
502 Main Building
Notre Dame, IN 46556
Phone: 574-631-4694
Email: lchism@nd.edu
URL: http://graduateschool.nd.edu

Jana Prikryl *(Booth: 244)*
University of Oregon, Biology
1210 University of Oregon
Eugene, OR 97403
Phone: 541-346-3288
Email: jprikryl@uoregon.edu
URL: http://biology.uoregon.edu

Christopher Jeffrey *(Booth: 721)*
University of Pennsylvania, Chemistry
231 S. 34th Street
Philadelphia, PA 19104-6323
Phone: 215-898-9722
Email: cjeffrey@sas.upenn.edu
URL: http://www.chem.upenn.edu

Arnaldo Diaz *(Booths: 446, 448)*
University of Pennsylvania School of Medicine, Biomedical Graduate Studies
421 Curie Boulevard
Philadelphia, PA 19104
Phone: 215-898-2794
Email: diaza@mail.med.upenn.edu
URL: http://www.med.upenn.edu/bgs/

Carol Williams *(Booth: 226)*
University of Pittsburgh, Biomedical Graduate Programs
524 Scaife Hall
3550 Terrace Street
Pittsburgh, PA 15261
Phone: 412-648-8957
Email: cawillia@pitt.edu
URL: http://www.somgrad.pitt.edu

Paula Davis *(Booth: 230)*
University of Pittsburgh, Health Sciences Diversity
M216E Scaife Hall
3550 Terrace Street
Pittsburgh, PA 15261
Phone: 412-648-2066
Email: pdk100@pitt.edu
URL: http://www.healthdiversity.pitt.edu

Philippa K. Carter *(Booth: 348)*
University of Pittsburgh, Kenneth P. Dietrich Graduate School of Arts and Sciences
210 South Bouquet Street
5141 Sennott Square
Pittsburgh, PA 15260
Phone: 412-624-6096
Email: pkcarter@gmail.com
URL: http://www.asgraduate.pitt.edu

Manjit K. Singh *(Booth: 228)*
University of Pittsburgh, Medical Scientist Training Program
3550 Terrace Street
Pittsburgh, PA 15261
Phone: 412-648-2324
Email: manjit@pitt.edu
URL: http://www.mdphd.pitt.edu

Brigid Waterhouse *(Booth: 241)*
University of Rochester, Md/PhD Program and Graduate Education and Postdoctoral Affairs
601 Elmwood Avenue
Rochester, NY 14642
Phone: 585-275-9777
Email: brigid_waterhouse@urmc.rochester.edu
URL: http://www.urmc.rochester.edu/education

Bert Ely *(Booth: 444)*
University of South Carolina, Biological Sciences
901 Sumter Street
Columbia, SC 29208
Phone: 803-777-2768
Email: ely@sc.edu
URL: http://www.gradschool.sc.edu

Bernard Batson *(Booth: 636)*
University of South Florida, Biomedical Engineering, Chemistry, Integrated Biomedical Sciences, Cell Biology, Microbiology, Molecular Biology, Physics
4202 E. Fowler Avenue
ENB 118
Tampa, FL 33620
Phone: 813-396-9309
Email: bbatson@usf.edu
URL: http://www.usf.edu

Dawn Burke *(Booth: 442)*
University of Southern California, Keck School of Medicine
1975 Zonal Avenue
Los Angeles, CA 90089
Phone: 323-442-1609
Email: pibbs@usc.edu
URL: pibbs.usc.edu

Constance Tucker *(Booth: 247)*
University of Tennessee Health Science Center, Health Career Programs/Graduate Health Sciences
8 South Dunlap, BB9
Memphis, TN 38163
Phone: 901-448-8772
Email: hcp@uthsc.edu
URL: http://www.uthsc.edu/hcp

Sekeenia Haynes *(Booth: 816)*
University of Tennessee/Program for Excellence & Equity in Research College of Arts and Sciences
1414 E. Cumberland Avenue
Knoxville, TN 37996
Phone: 865-974-4064
Email: shaynes6@utk.edu
URL: http://web.utk.edu/~peer

Heather Cook *(Booth: 735)*
University of Texas at Austin, Cellular and Molecular Biology
2500 Speedway
A4800
Austin, TX 78712
Phone: 512-471-0934
Email: hcook@austin.utexas.edu
URL: http://www.icmb.utexas.edu

Karen Weinberg *(Booth: 419)*
University of Texas Graduate School of Biomedical Sciences at Houston, Admissions
6767 Bertner Street
Houston, TX 77030
Phone: 713-500-9850
Email: karen.weinberg@uth.tmc.edu
URL: http://www.uthouston.edu/gsbs

Jose E. Cavazos *(Booth: 140)*
University of Texas Health Science Center at San Antonio, Graduate School of Biomedical Sciences, MD/PhD Program
7703 Floyd Curl Drive
MC 7819
San Antonio, TX 78229
Phone: 210-567-3746
Email: cavazosj@uthscsa.edu
URL: http://som.uthscsa.edu/mdphd

David W. Niesel *(Booth: 417)*
University of Texas Medical Branch, Graduate School of Biomedical Sciences
4.429 Levin Hall
Galveston, TX 77555-1050
Phone: 409-772-2665
Email: dniesel@utmb.edu
URL: http://www.gsbs.utmb.edu

Andrew R. Zinn *(Booth: 437)*
University of Texas Southwestern Medical Center, Graduate School of Biomedical Sciences & Medical Scientist Training Program
5323 Harry Hines Boulevard
Dallas, TX 75390
Phone: 214-633-0007
Email: andrew.zinn@utsouthwestern.edu
URL: http://www.utsouthwestern.edu/gradschool

Kris Peterson *(Booth: 245)*
University of Toledo, College of Medicine and Life Sciences
3000 Arlington Avenue
Toledo, OH 43614
Phone: 419-383-3438
Email: kristina.peterson@utoledo.edu
URL: http://www.utoledo.edu/

Jamie Lodermeier *(Booth: 236)*
University of Utah, Molecular Biology/ Biological Chemistry
15 North 2030 East, Building 533
Room 5100
Salt Lake City, UT 84112
Phone: 801-587-5677
Email: jlodermeier@genetics.utah.edu
URL: http://www.bioscience.utah.edu

Joel Hockensmith *(Booth: 440)*
University of Virginia, Biomedical Sciences
PO Box 800738
Charlottesville, VA 22901
Phone: 434-924-1230
Email: jwh6f@virginia.edu
URL: http://www.bims.virginia.edu

Erin Kirschner *(Booth: 414)*
University of Washington, Department of Biochemistry & Biological Physics, Structure and Design Program/Center for Equity, Diversity & Inclusion
1705 NE Pacific Street
Box 357350
Seattle, WA 98195
Phone: 206-543-1661
Email: kirsche@uw.edu
URL: http://www.washington.edu/

Steve Berard *(Booth: 420)*
University of Washington, Medicine Pathology Molecular Medicine and Mechanisms of Disease PhD Program (M3D)
1959 NE Pacific Street
Room C-516
Seattle, WA 98195
Phone: 206-685-0564
Email: sberard@uw.edu
URL: http://depts.washington.edu/molmed/index.html

MaryEllin Robinson *(Booth: 422)*
University of Washington, Molecular and Cellular Biology
1959 NE Pacific
T-466 HSC
Seattle, WA 98195
Phone: 206-685-3155
Email: maryell@uw.edu
URL: http://www.mcb-seattle.edu

Marcie Buckner *(Booth: 418)*
University of Washington, MSTP (MD/ PhD)
1959 NE Pacific Street
Box 357470
Seattle, WA 98195
Phone: 206-685-0762
Email: mbuckner@uw.edu
URL: http://www.mstp.washington.edu

Exhibitor Attendee List (continued)

Rheem Totah *(Booth: 416)*
University of Washington, Pharmacological Sciences Training Program/Post-Baccalaureate Research Education Program (PREP)
Box 357610
University of Washington
Seattle, WA 98195
Phone: 206-543-2224
Email: rtotah@uw.edu
URL: http://sop.washington.edu/medchem/pssdp/pssdp-home.html

Brit B. Exworthy *(Booth: 412)*
University of Washington, School of Public Health
1959 NE Pacific Street
Health Sciences Center F363D
Seattle, WA 98195
Phone: 206-543-0230
Email: britbele@uw.edu
URL: http://www.sph.washington.edu

Abbey Thompson *(Booth: 623)*
University of Wisconsin-Madison, Bioscience Graduate Programs
1550 Linden Drive
Madison, WI 53706
Phone: 608-890-2308
Email: akthomp1@wisc.edu
URL: http://www.cals.wisc.edu/gradstudies/gradscholars/

Michelle Holland *(Booth: 621)*
University of Wisconsin-Madison, Cellular & Molecular Biology Graduate Program
1525 Linden Drive
Room 413 Bock Labs
Madison, WI 53706
Phone: 608-262-3203
Email: cmb@bocklabs.wisc.edu
URL: http://www.cmb.wisc.edu

Theresa M. Duello *(Booth: 234)*
University of Wisconsin-Madison, Endocrinology/Reproductive Physiology
5240 MSC
1300 University Avenue
Madison, WI 53705
Phone: 608-347-1685
Email: tmduello@wisc.edu
URL: http://www.erp.wisc.edu

Carol G. Rappley *(Booth: 229)*
Van Andel Institute, Graduate School
333 Bostwick Avenue NE
Grand Rapids, MI 49503-2518
Phone: 616-234-5722
Email: carol.rappley@vai.org
URL: http://www.vai.org

Don C. Brunson *(Booth: 404)*
Vanderbilt University, Graduate School
2102 West End Avenue
Kirkland 411
Nashville, TN 37240
Phone: 615-322-3939
Email: don.c.brunson@vanderbilt.edu
URL: www.vanderbilt.edu/edge

Michelle Grundy *(Booth: 405)*
Vanderbilt University Medical Scientist Training Program, Office of Biomedical Research Education and Training
VUMC, 340 Light Hall
Nashville, TN 37232-0301
Phone: 615-343-2573
Email: michelle.grundy@vanderbilt.edu
URL: http://www.medschool.vanderbilt.edu/mstp

Roger Chalkley *(Booth: 403)*
Vanderbilt University, Office of Biomedical Research Education and Training
VUMC, 340 Light Hall
Nashville, TN 37232-0301
Phone: 615-343-7290
Email: roger.chalkley@vanderbilt.edu
URL: http://www.medschool.vanderbilt.edu/bret

Kimberly N. Vinson *(Booth: 401)*
Vanderbilt University School of Medicine, Office for Diversity in Medical Education
319 Light Hall
Nashville, TN 37232
Phone: 615-322-7498
Email: kimberly.n.vinson@vanderbilt.edu
URL: http://www.mc.vanderbilt.edu/medschool/diversity

Sandra Sorrell *(Booth: 712)*
Virginia Commonwealth University, School of Medicine/Graduate Education Program
1101 E. Marshall Street
PO Box 980565
Richmond, VA 23298-0565
Phone: 804-828-0673
Email: ssorrell@vcu.edu
URL: http://www.medschool.vcu.edu/graduate/phd

Audra Van Wart *(Booth: 629)*
Virginia Tech Carilion Research Institute
2 Riverside Circle
Roanoke, VA 24016
Phone: 540-526-2005
Email: avanwart@vtc.vt.edu
URL: http://research.vtc.vt.edu/

David Bevan *(Booth: 633)*
Virginia Tech, Molecular Life Sciences and Bioinformatics
201 Engel Hall
Department of Biochemistry
Blacksburg, VA 24061
Phone: 540-231-5040
Email: drbevan@vt.edu

Jody A. Thompson *(Booth: 630)*
Virginia Tech, Multicultural Academic Opportunities Program
110 Femoyer Hall
Blacksburg, VA 24061
Phone: 540-231-5023
Email: jodyt@vt.edu
URL: http://www.maop.vt.edu

Lise Visser *(Booth: 632)*
Virginia Tech, Northern Virginia Campus, The Graduate School-Northern Virginia Center
7054 Haycock Road
Room 410
Falls Church, VA 22043
Phone: 703-538-8310
Email: lisnvc07@vt.edu
URL: http://www.ncr.vt.edu

Kathy O'Hara *(Booth: 631)*
Virginia Tech PREP Program and the Bioinformatics Institute
1015 Life Sciences Boulevard
Blacksburg, VA 24061
Phone: 540-798-2252
Email: kohara1@vbi.vt.edu
URL: http://www.vbi.vt.edu/

Pam VandeVord *(Booth: 627)*
Virginia Tech-Wake Forest University School of Biomedical Engineering & Sciences
317 ICTAS on Stranger Street
Blacksburg, VA 24060
Phone: 540-231-1994
Email: pvord@vt.edu
URL: http://www.sbes.vt.edu/

Sarah Lafferty *(Booth: 746)*
Wake Forest University, Graduate School of Arts and Sciences
Wake Forest University PO Box 7487
Winston-Salem, NC 27109
Phone: 336-758-5512
Email: slaffert@wfu.edu
URL: http://graduate.wfu.edu/

Mary Sanchez-Lanier *(Booth: 749)*
Washington State University, Graduate School
PO Box 641030
Pullman, WA 99164
Phone: 509-335-6424
Email: sanchez@wsu.edu
URL: http://www.gradschool.wsu.edu

Jennifer Brown *(Booth: 337)*
Washington University in St. Louis, Biology and Biomedical Sciences
660 S. Euclid, CB 8226
St. Louis, MO 63110
Phone: 314-747-0947
Email: lawlerj@wustl.edu
URL: http://www.dbbs.wustl.edu

Krista Chalise *(Booth: 335)*
Washington University in St. Louis, Brown School, Master of Public Health Program
1 Brookings Drive
CB 1196
St. Louis, MO 63130
Phone: 314-935-6694
Email: kchalise@wustl.edu
URL: http://www.brownschool.wustl.edu

Rasheeda Zafar *(Booth: 628)*
Wayne State University, Physiology
4229 Scott Hall
540 E. Canfield
Detroit, MI 48201
Phone: 313-577-4199
Email: rzafar@med.wayne.edu
URL: http://www.home.med.wayne.edu

Randi B. Silver *(Booth: 537)*
Weill Cornell Graduate School of Medical Sciences
1300 York Avenue
Box 65
New York, NY 10065
Phone: 212-746-6565
Email: rbsilve@med.cornell.edu
URL: http://www.weill.cornell.edu/gradschool

Ruth Grotian *(Booth: 531)*
Weill Cornell/Rockefeller/Sloan Kettering, Tri-Institutional MD-PhD Program
1300 York Avenue
Room C-103
New York, NY 10065
Phone: 212-746-6023
Email: rgotian@med.cornell.edu
URL: http://www.med.cornell.edu/mdphd

Julian Arbaugh *(Booth: 546)*
West Virginia School of Osteopathic Medicine, Admissions
400 N. Lee Street
Lewisburg, WV 24901
Phone: 304-793-6827
Email: jarbaugh@osteo.wvsom.edu
URL: http://www.wvsom.edu

Katie Gallagher *(Booth: 741)*
West Virginia University, Graduate Enrollment
1505 University Avenue
PO Box 6090
Morgantown, WV 26506
Phone: 304-293-5980
Email: katie.gallagher@mail.wvu.edu
URL: grad.wvu.edu

Vanessa Riggins *(Booth: 829)*
Western University of Health Sciences, Office of University Recruitment/Strategic Enrollment Management
309 E. Second Street
Pomona, CA 91766
Phone: 909-469-5339
Email: vriggins@western.edu
URL: http://www.prospective.westernu.edu

Mary Spencer *(Booth: 733)*
Worcester Polytechnic Institute, Graduate Admissions
100 Institute Road
Worcester, MA 01609
Phone: 508-831-5301
Email: grad@wpi.edu
URL: http://www.grad.wpi.edu

Mary Key *(Booth: 112)*
Wright State University, Boonshoft School of Medicine, Department of Community Health
3171 Research Park
Suite 240
Dayton, OH 45420
Phone: 937-775-1304
Email: mary.key@wright.edu
URL: http://www.wright.edu/

Bonnie S. Ellis *(Booths: 134, 136)*
Yale University, Biological and Biomedical Sciences Program
333 Cedar Street
New Haven, CT 06520-8084
Phone: 203-785-5663
Email: bonnie.ellis@yale.edu
URL: http://www.bbs.yale.edu/index.aspx

Andrew Miranker *(Booth: 132)*
Yale University, Molecular Biophysics and Biochemistry Department & Biophysics Program
266 Whitney Avenue
New Haven, CT 06520
Phone: 203-432-8954
Email: andrew.miranker@yale.edu

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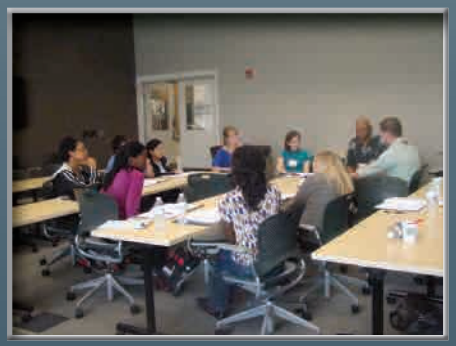

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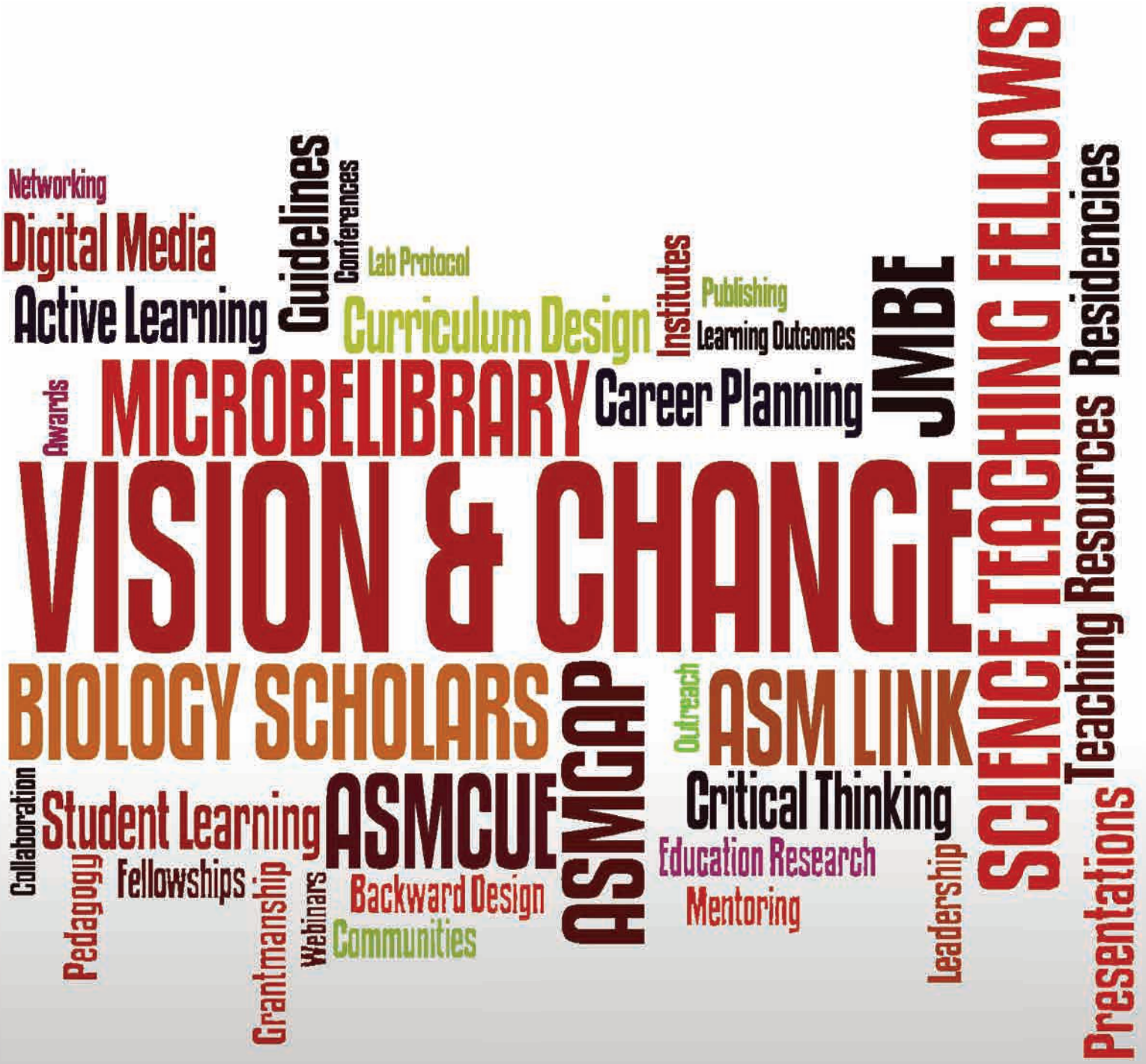

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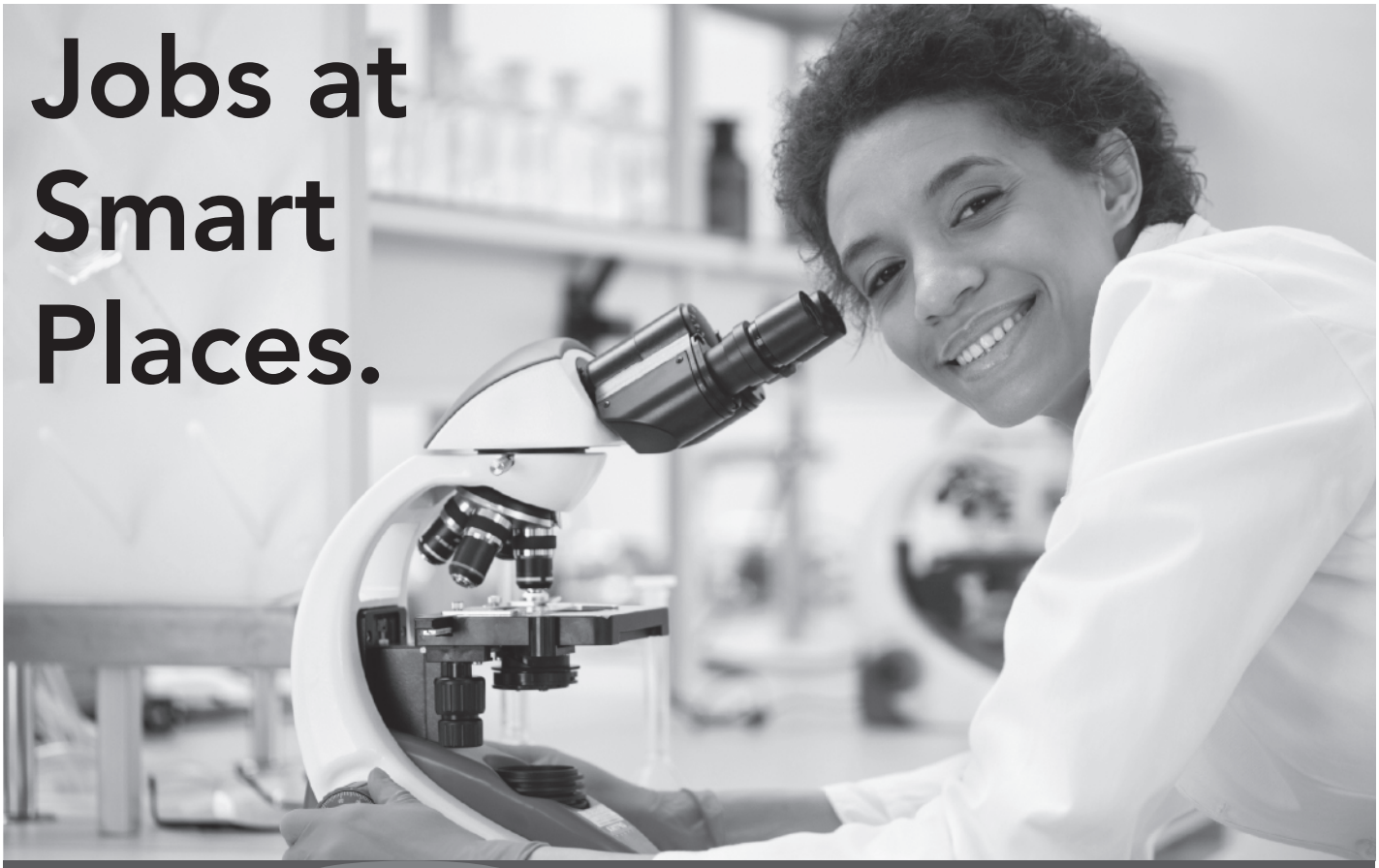

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Office of Graduate Inclusion

Minnetta Gardinier, Ph.D.
Associate Dean, Recruitment & Professional Development
m-gardinier@uiowa.edu

Diana Bryant
Diversity & Inclusion Coordinator
diana-bryant@uiowa.edu

Joseph Henry
Recruitment & Outreach
joseph-henry@uiowa.edu

Genetics
http://genetics.grad.uiowa.edu
grad-neuroscience@uiowa.edu

Human Toxicology
http://toxicology.grad.uiowa.edu
larry-robertson@uiowa.edu

Immunology
http://immuno.grad.uiowa.edu
immunology@uiowa.edu

Molecular & Cellular Biology
http://molcellbio.grad.uiowa.edu
molcell-biology@uiowa.edu

Interdisciplinary Graduate Programs
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The **New England Science Symposium**, established in 2002, provides a forum for postdoctoral fellows; medical, dental and graduate students; post-baccalaureates; college and community college students (particularly for African-American, Hispanic/Latino and American Indian/ Alaska Native individuals) to share their biomedical and health-related research activities through oral or poster presentations, to engage in discussions related to career development in the sciences, to exchange ideas and to expand their professional networks.

NORTHWESTERN
UNIVERSITY

Northwestern University is now accepting applications for the NIH-funded Transplant Surgery Scientist Training Program

Start date: July 1, 2014
Program length: 1 or 2 years
Applicants must be postdoctoral (MD or PhD)
Research can be performed in transplant outcomes or basic science
Program Director: Michael M. Abecassis, MD, MBA

The application package should contain:

- Cover page (including name, advisor's name, trainee's graduate program, project title)
- Research plan (1 page description of research as it relates to transplantation)
- Career goals summary (1 page max. of how the project relates to the trainee's career goals and to advancing the field of transplantation)
- Biosketch/CV of applicant including publications
- Two letters of recommendation (one from thesis advisor or fellowship/residency program director and one from another clinical or research mentor who is very familiar with the trainee)

Note: NIH policy restricts acceptance to US citizens or permanent residents

Please submit materials by January 15, 2014 to:
Alina Ibrahim, Fellowship & Education Coordinator
Northwestern University Comprehensive Transplant Center
676 North St. Clair Street, Suite 1900; Chicago, IL 60611
aibrahim@nmh.org

For more information: http://www.feinberg.northwestern.edu/transplant/fellowships/t32.html

Keystone Symposia:

Unparalleled Opportunities for Life Science Collaboration and Professional Development

visit us at Booth #601

Programs for Students and Early-Career Investigators from Underrepresented Backgrounds include:

- **Scholarships** – *$1,200 to attend Keystone Symposia research conferences. Keystone Symposia also sponsors the Keystone Symposia/ABRCMS Scholarship Awards.*
- **The Keystone Symposia Fellows Program** – *a non-residential, high-level, mentoring and positioning program for senior postdoctoral fellows, assistant professors and scientists from industry (no more than 4 years into appointment).*
- **Keystone Symposia** *conferences offer a full range of high-quality research meetings in life science areas including genetics/genomics, diabetes/metabolism, cardiovascular disease, HIV/AIDS, microRNAs, proteomics, nuclear receptors and plant biology.*

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Immunohistochemistry and Microscopy Course

HCS

Marine Biological Laboratory, Woods Hole, Massachusetts

Application Deadline January 15, 2014

Four days and evenings of lectures and laboratory sessions with experts in the field of immunohistochemistry (IHC) and microscopy.

Includes laboratory demonstrations, exercises, discussion, and troubleshooting sessions.

Emphasis on hands-on laboratory time and small break out sessions with faculty and staff.

Registration is limited to 30 participants.

Registration includes tuition and accommodation fees.

Participants will be grouped by ability.

SUBJECT AREAS

Principles underlying protein fixation in tissues ~ Use of antigen retrieval to improve antigen detection ~ Developing skills with controls that support the specificity of IHC results ~ Strategies for detecting the presence of specific antigens in cells ~ Technologies that automate immunohistochemistry ~ choosing the correct imaging platform for IHC samples, learn the basic elements of imaging platforms ~ Troubleshooting problems with immunohistochemistry and images

FASEB MARC Travel Awards & The Histochemical Society Travel Awards Provide Support for Course Attendance
VISIT us at Booth 210 in the Exhibit Hall

http://hermes.mbl.edu/education/courses/special_topics/ihcm.html

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Medical Scientist Training Program (MSTP)
M.D./Ph.D. Program in Growth and Development
HHMI-Med into Grad Program

THE UNIVERSITY OF CHICAGO | Office of Graduate and Postdoctoral Affairs Division of Biological Sciences | 924 East 57th St., Suite 104 Chicago, IL 60637-5416 | Email: BSD.OGPA@lists.uchicago.edu | gradprograms.bsd.uchicago.

2013 ABRCMS

November 13-16

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Stanford University

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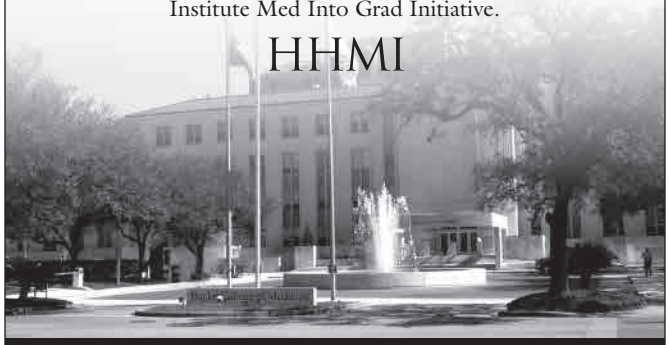
HHMI



For additional information, please visit Booth #413 or our website at **www.bcm.edu/tbmm**

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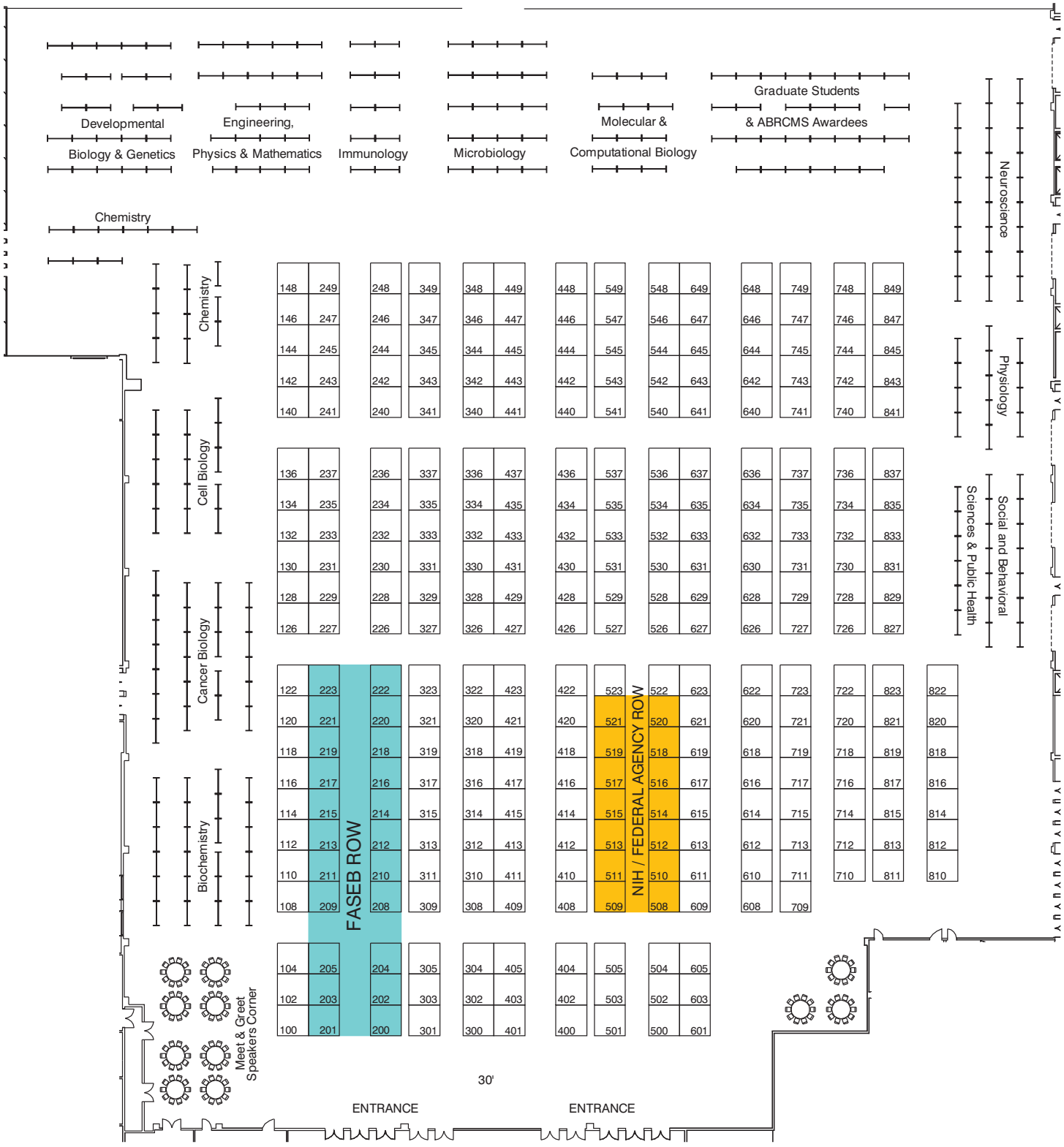
Exhibition Hall Floor Plan

Gaylord Opryland – Ryman Hall C



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 3,300 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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Steering Committee Members

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  Director, Education Department
- **Irene V. Hulede**
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- **Tiffani Fonseca**
  Coordinator, Student Fellowships
- **Leslie Robinson**
  Communications Specialist, Education Department
- **Allison Taylor**
  Program Assistant, Education Department

Staff Contact Information

Conference Program, Sponsorship & Affiliated Events
Irene Hulede
(202) 942-9295
ihulede@asmusa.org

Exhibits Program, Student Presentations & Student Travel Awards
Ronica Rodela
(202) 942-9228
rrodela@asmusa.org

Customer Service & Registration
Allison Taylor
(202) 942-9348
ataylor@asmusa.org

Media Contact
Leslie Robinson
(202) 942-9314
lrobinson@asmusa.org

ABRCMS
ASM Education Department
1752 N Street NW
Washington, DC 20036
abrcms@asmusa.org

See You Next Year!

San Antonio, Texas
November 12 – 14, 2014

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Visit www.abrcms.org for more information.