The Leadership Alliance is a multi-institutional academic consortium of leading research and teaching colleges and universities. The mission of the Alliance is to develop underrepresented students into outstanding leaders and role models in academia, public and private sectors.

EXECUTIVE OFFICE
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164 Angell Street
Providence, RI 02912
Telephone: (401) 863-1474
Fax: (401) 863-2244
www.theleadershipalliance.org
Taking the Next Step has been the symbolic theme for the Leadership Alliance National Symposium since 2003. This year, the theme is even more significant for me as I take the next step from the role of associate director to acting executive director. In this exciting, new capacity, it gives me great pleasure to welcome you to the 2010 Leadership Alliance National Symposium! The Leadership Alliance National Symposium is a unique conference that provides students, all along the academic pathway, a supportive community that stresses academic skills, mentoring, networking, making informed decisions, and navigating multi-pronged career paths. I know this to be true from experience as I participated in the first Leadership Alliance National Symposium as a graduate student in the not-too-distant past. Encouraged by a diverse group of scholars and researchers, I took advantage of presenting my research and networking with peers and future colleagues, who in sharing their experiences enlightened my career trajectory as well as introduced me to new opportunities. Most importantly, it afforded me the opportunity to give back and mentor the next generation. Participation in the national symposium was a valuable experience that helped to clarify my goals and empowered me to advance along the path I decided to take.

This is your moment to take advantage of all that the symposium has to offer— to explore career opportunities and decide which pathway is suitable for you. The theme, Taking the Next Step: Decision Making Strategies, is designed to provide resources and strategies to help sort through the abundance of choices you will encounter as you progress along your academic career path. I encourage you to participate in all of the scholarly research presentations, network with participants from various levels of the academic training pathway and engage in roundtable and panel discussions that clarify career opportunities and enhance professional development skills. Use these resources to shape your career path and take your next step to achieving your goals. You are the next generation of scholars, leaders and role models and the Leadership Alliance is committed to contributing to your success!

On behalf of the Symposium Committee, I am delighted to welcome you to the 2010 Leadership Alliance National Symposium. This year’s theme Taking the Next Step: Decision Making Strategies will no doubt suggest to you our goal for this year’s symposium—to provide you with the appropriate tools to assist you in successfully transitioning to the next level of your professional development. With this in mind, we have planned many opportunities for you to engage in critical conversations with academic leaders, faculty, postdoctoral fellows, graduate students and undergraduates who all share our commitment of fulfilling the mission of the Leadership Alliance Consortium to develop and nurture a more inclusive and diverse community of scholars.

We hope that you will proactively take advantage of the many occasions during this symposium to ask questions and gain insights about effective strategies for navigating your career path. Take the time to meet the many wonderful and knowledgeable individuals who are here to share not only their resources but also their unique experiences with you.

Now, more than ever, in this era of economic uncertainty and ever more complex global problems at every societal level, we need individuals like you to help solve the pressing problems of our time. Through your thoughtful scholarship and research, you will be able to provide the expertise needed to advance knowledge in the humanities, social sciences and sciences fields.

Best wishes for a productive and enjoyable weekend. Thank you for participating in the 2010 Leadership Alliance National Symposium.

LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM!

Taking the Next Step: Decision Making Strategies

WELCOME TO THE 2010 LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM!

Medeva Gheee Acting Executive Director

Chair, Leadership Alliance National Symposium Committee

SYMPOSIUM 2010 PLANNING COMMITTEE

Liza Cariaga-Lo (Chair) Assistant Provost for Faculty Development & Diversity Harvard University

Earnestine Baker Assistant to the Vice President, Institutional Advancement Executive Director, Meyerhoff Scholarship Program University of Maryland, Baltimore County

Jabbar Bennett Assistant Dean of Recruiting and Professional Development, Graduate School Brown University

Arnaldo Diaz Coordinator of Recruitment & Special Programs, Biomedical Graduate Studies University of Pennsylvania

Medeva Gheee Acting Executive Director Leadership Alliance Executive Office

Jerainne Johnson Guest Researcher National Institute of Standards and Technology (NIST)

Patricia Lee-Robinson Associate Professor of Biology Chaminade University of Honolulu

Marjorie Old Horn Director of AIRP Program Montana State University- Bozeman

David Redman Associate Dean for Academic Affairs Princeton University

LEADERSHIP ALLIANCE STAFF

Medeva Gheee Acting Executive Director

Barbara Kuhn Coordinator for Graduate and Undergraduate Programs

Maria DeVale Executive Assistant/Project Coordinator

Jessica Evora Project Assistant

The Leadership Alliance National Symposium is made possible through grant 2-T36 GM-063480-06A1 from the National Institutes of Health’s Minority Access to Research Career Program of the National Institute for General Medical Sciences.
The Leadership Alliance Symposium 2010

TAKING THE NEXT STEP: DECISION MAKING STRATEGIES

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PRESENTATION CATEGORIES KEY

AB  Applied Biosciences (Human Biology & Disease, Public Health, Biomedical Engineering)
BB  Basic Biosciences (Molecular Processes and Genetics, Biochemistry)
ES  Earth Sciences (Environment Sciences, Geosciences, Marine Sciences)
EN  Engineering (Mechanical, Electrical & Materials Engineering)
HU  Humanities (Literature, Language Arts, History, Media)
PS  Physical Sciences (Chemistry, Math, Physics, Computer Sciences, Computer Engineering)
PE  Policy & Ethics (Politics, Policy & Legislation, Ethics, Philosophy & Reasoning)
SS  Social Sciences (Sociology, Economics, Psychology, and Behavioral Sciences)
BALLROOM LEVEL

GRAND BALLROOM

EDISON

BRUNSWICK A

BRUNSWICK B

BRUNSWICK C

BOARDROOM II

PISCATAWAY

WOODBRIDGE

Elevators

Escalator

Escalator

A

B

C

D

E

BALLROOM LEVEL
# Leadership Alliance National Symposium

**July 30-August 1, 2010**

**At-A-Glance**

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<tr>
<th>Time</th>
<th>General Sessions</th>
<th>Undergraduate Sessions</th>
<th>Graduate Sessions</th>
<th>Coordinators, Faculty Mentors, Doctoral Scholars &amp; Guests</th>
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<tbody>
<tr>
<td><strong>Day 1 - Orientation, Networking &amp; Alumni Career Panel</strong></td>
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<tr>
<td>11:00 a.m. - 3:00 p.m.</td>
<td>Registration &amp; Professional Headshots</td>
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<tr>
<td>11:00 a.m. - 3:00 p.m.</td>
<td>PowerPoint Prep I</td>
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<td>2:30 p.m. - 5:15 p.m.</td>
<td>Orientation, Networking, and Funding Sessions by Discipline (Refreshments served 2:30 p.m.- 3:00 p.m.)</td>
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<td>Graduate Students: Moderators Training</td>
<td>Doctoral Scholars: Meet &amp; Greet with Program Officers</td>
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<tr>
<td>5:30 p.m. - 6:45 p.m.</td>
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<td>PowerPoint Prep II</td>
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<td>5:30 p.m. - 6:30 p.m.</td>
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<tr>
<td>7:00 p.m. - 9:15 p.m.</td>
<td>Dinner/Welcome/Alumni Research &amp; Career Panel Presentations</td>
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<td>9:30 p.m. - 10:30 p.m.</td>
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<td>PowerPoint Prep III</td>
<td>Reception for Doctoral Scholars, Faculty Mentors, Coordinators, Graduate Students &amp; Guests</td>
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<tr>
<td><strong>Day 2 - Student Presentations &amp; Panel Discussions</strong></td>
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<tr>
<td>7:30 a.m. - 8:45 a.m.</td>
<td>Poster Setup</td>
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<tr>
<td>7:30 a.m. - 8:30 a.m.</td>
<td>Networking Breakfasts</td>
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<td>Breakfast for Graduate Students and Doctoral Scholars: Grantsmanship 101</td>
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<td>8:45 a.m. - 9:45 a.m.</td>
<td>Student Poster Presentations Session I</td>
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<tr>
<td>9:45 a.m. - 10:45 a.m.</td>
<td>Student Poster Presentations Session II</td>
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<tr>
<td>11:15 a.m. - 12:45 p.m.</td>
<td>Student Oral Presentations Session I</td>
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<tr>
<td>1:00 p.m. - 2:30 p.m.</td>
<td>Lunch Panel: <em>The Graduate School Experience</em> (PhD Program)</td>
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<tr>
<td>1:00 p.m. - 2:30 p.m.</td>
<td>Lunch Panel: <em>The Graduate School Experience</em> (MD/PhD Program)</td>
<td>Lunch Panel: Life After Graduate School: The Postdoc Experience</td>
<td>Lunch &amp; Roundtable Discussion: Navigating Your Career</td>
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<td>2:45 p.m. - 4:15 p.m.</td>
<td>Student Oral Presentations Session II</td>
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<tr>
<td>4:20 p.m. - 4:30 p.m.</td>
<td>Break/ Snack/ Professional Headshots</td>
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<td>4:30 p.m. - 5:45 p.m.</td>
<td>Student Oral Presentations Session III</td>
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<tr>
<td>6:00 p.m. - 7:00 p.m.</td>
<td>Program Specific Cohort Photo Opportunity: Lilly Scholars and Leadership Alliance Mellon Initiative Cohorts/ Individual Professional Headshots/Free Time</td>
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<td>7:00 p.m. - 9:00 p.m.</td>
<td>Dinner &amp; Keynote Speaker</td>
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<td>Leadership Alliance Community Meeting: Leadership Alliance Overview Bok Center Players: Trouble in the Lab</td>
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<td>9:00 p.m. - 10:00 p.m.</td>
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<td>Dance Party</td>
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<td>9:00 p.m. - 12:00 a.m.</td>
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<td><strong>Day 3 - Recruiting Fair &amp; Next Steps</strong></td>
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<td>7:30 a.m. - 10:00 a.m.</td>
<td>Exhibitors Set-up for Recruiting Fair</td>
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<td>8:00 a.m. - 9:45 a.m.</td>
<td>Breakfast Panel: Biosciences</td>
<td>Graduate Student Breakfast: Achieving Balance and Self Knowledge</td>
<td>Doctoral Scholars Breakfast: Preparing for Success</td>
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<td>8:00 a.m. - 9:45 a.m.</td>
<td>Breakfast Panel: MD/PhD</td>
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<td>8:00 a.m. - 9:45 a.m.</td>
<td>Breakfast Panel: Social Sciences &amp; Humanities</td>
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<td>8:00 a.m. - 9:45 a.m.</td>
<td>Breakfast Panel: Engineering &amp; Physical Sciences</td>
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<td>10:00 a.m. - 12:00 p.m.</td>
<td>Recruiting Fair/Exhibitors</td>
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<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Fill out surveys/Closing Remarks/Adjournment</td>
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FRIDAY, JULY 30

Leadership Alliance Conference Registration ................................................................. 11:00am – 3:00pm
Grand Ballroom Pre-function area

PowerPoint Preparation I ............................................................................................... 11:00am – 3:00pm
Grand Ballroom E

Professional Headshots ................................................................................................. 1:00pm – 3:00pm
Grand Ballroom Pre-function Area

Orientation/Networking/Funding Sessions by Discipline ........................................... 2:30pm – 5:15pm
(Refreshments served 2:30 – 3:00pm. Session begins at 3:00pm)

Biosciences – Grand Ballroom A, B
Moderators: Joel Oppenheim, Senior Associate Dean for Biomedical Sciences, New York University School of Medicine; Jocelyn Spragg, Faculty Director, Diversity Programs, Harvard University Division of Medical Sciences
Funding Panel:
  • Emmitt R. Jolly, Jr., Assistant Professor of Biology, Case Western Reserve University, UNCF-Merck Science Initiative Fellow
  • Tiffani Fonseca, Fellowship Programs Coordinator, Education Department, American Society for Microbiology
  • Sharon Milgram, Director of the Office of Intramural Training and Education, National Institutes of Health

Social Sciences and Humanities – Brunswick A, B, C
Moderators: Kenneth Warren, Deputy Provost for Research and Minority Issues, University of Chicago; Karen Jackson-Weaver, Associate Dean of Academic Affairs and Diversity, Princeton University
Funding Panel:
  • Steven J. Breckler, Executive Director for Science, American Psychological Association
  • Margaret Petrochenkov, Program Officer, Fellowships Office, National Academy of Sciences
  • Cedric Williams, Program Director, Neural Systems, National Science Foundation, and Professor of Psychology and Neuroscience, University of Virginia

Engineering and Physical Sciences – Woodbridge and Piscataway
Moderator: Michelle Nearon, Assistant Dean and Director, Office for Diversity and Equal Opportunity, Yale University
Funding Panel:
  • Allyson Fauver, Policy Analyst, Media Specialist, Institute for Broadening Participation
  • Scott Keller, Adjunct Instructor, MDT/MSU Design Unit Supervisor, Department of Civil Engineering, Montana State University-Bozeman
  • Aileen Walter, Vice President, University Programs at the National Action Council for Minorities in Engineering

PowerPoint Preparation II ........................................................................................... 5:30pm – 6:45pm
Grand Ballroom E

Moderators Training ...................................................................................................... 5:30pm – 6:30pm
Trenton and Monroe
Moderators: Laurel Southard, Director of Undergraduate Research in Biology, Cornell University, and Jabbar Bennett, Assistant Dean for Recruiting and Professional Development, The Graduate School, Brown University
Doctoral Scholar Meet and Greet with Program Directors ............................................................. 5:30pm – 6:30pm

Carlyle

Moderator: Mark Hernandez, Professor, Department of Civil, Environmental, and Architectural Engineering, University of Colorado at Boulder

Discussants:
• Dean Evasius, Program Director, Division of Mathematical Sciences, National Science Foundation
• Dana Lehr, Associate Program Director in the Division of Astronomical Sciences, National Science Foundation
• Laina King, Director, Diversity in Life Science Programs, Keystone Symposia on Molecular and Cellular Biology
• Siovahn Walker, Program Officer, Social Science Research Council
• Cedric Williams, Program Director, Neural Systems, National Science Foundation, and Professor of Psychology and Neuroscience, University of Virginia

Dinner .................................................................................................................................................................. 7:00pm

Grand Ballroom C, D

Welcome and Opening Remarks ......................................................................................................................... 7:30pm

Grand Ballroom C, D

Medeva Ghee, Acting Executive Director, Leadership Alliance
Liza Cariaga-Lo, Chair Symposium Planning Committee, Assistant Provost for Faculty Development and Diversity, Harvard University

Alumni Research and Career Panel ................................................................................................................. 8:00pm – 9:30pm

Grand Ballroom C, D

Moderator: Meda Higa, Postdoctoral Fellow, University of Pennsylvania
• Travis Boyce, Assistant Professor of Africana Studies and Social Science, University of Northern Colorado
• Marcus Jones, Staff Scientist, J. Craig Venter Institute
• Sophia Suarez, Assistant Professor, Department of Physics, Brooklyn College

PowerPoint Preparation III .............................................................................................................................. 9:30pm – 10:30pm

Grand Ballroom E

Reception for PhDs, Faculty Mentors, Coordinators, Graduate Students and Guests ..................9:30pm – 10:30pm

Carlyle
SATURDAY, JULY 31

Professional Headshots ...................................................................................................................... 7:00am – 11:00am
   Grand Ballroom Pre-functional Area
Posters Set-up ....................................................................................................................................... 7:30am – 8:45am
   Grand Ballroom D,E
Networking Breakfasts ......................................................................................................................... 7:30am – 8:30am
   Biosciences – Grand Ballroom C
   Social Sciences and Humanities – Grand Ballroom A
   Engineering and Physical Sciences – Grand Ballroom B
Leadership Alliance Mellon Initiative Networking Breakfast – Woodbridge and Piscataway
Lilly Scholars Program Networking Breakfast – Boardroom II
Grantsmanship 101 .............................................................................................................................. 7:30am – 8:30am
   Carlyle
   Moderator: Earnestine Baker, Assistant to the Vice President of Institutional
   Advancement and Executive Director, Meyerhoff Scholars Program, University
   of Maryland, Baltimore County
   • Cedric Williams, Program Director, Neural Systems, National Science Foundation,
     and Professor of Psychology and Neuroscience, University of Virginia
Student Poster Presentations ............................................................................................................. 8:45am – 10:45am
   Grand Ballroom D,E
   Session I ........................................................................................................................................ 8:45am – 9:45am
   Session II ...................................................................................................................................... 9:45am – 10:45am
Student Oral Presentations Session I .............................................................................................. 11:15am – 12:45pm
Lunch and Panel Discussion for Undergraduates,
   Interested in the PhD: The Graduate School Experience .............................................................. 1:00pm – 2:30pm
   Grand Ballroom C
   Moderator: Pamela Scott-Johnson, Chair and Associate Professor, Department of Psychology, Morgan State
   University
   • Brenda Cadiz-Rivera, University of Rochester, Biochemistry
   • Charisma Edwards, Louisiana State University Baton Rouge, Electrical Engineering
   • Oscar Figueredo, Cornell University, Hispanic Literature
   • Andrew Hao, University of California, Berkeley, Socio-Cultural Anthropology
Lunch and Panel Discussion for Undergraduates,
   Interested in the MD/PhD: The Graduate School Experience ..................................................... 1:00pm – 2:30 pm
   Grand Ballroom A
   Moderator: Ruth Gotian, Administrative Director, Weill Cornell/Rockefeller/Sloan-Kettering,
   Tri-Institutional MD-PhD Program
   • Aliya Frederick, Vanderbilt University
   • Tiffany Link, Johns Hopkins University
   • Joseph Marlin, New York University School of Medicine
   • Jose Ricardo McFalone-Figueroa, Columbia University
Lunch and Panel Discussion for Graduate Students,

**Life after Graduate School: The Postdoc Experience** ................................................................. 1:00pm – 2:30pm

*Grand Ballroom B*

Moderator: David Redman, Associate Dean for Academic Affairs, Princeton University
- Million Arefayene, Postdoctoral Scientist, Eli Lilly and Company
- Charla Lambert, NIH IRACDA Postdoctoral Fellow, University of Pennsylvania
- Paulette McRae, Postdoctoral Fellow, Children’s Hospital of Philadelphia, Diversity Officer, NPA
- Marguerite Nguyen, Mellon Postdoctoral Fellow, Department of English, Tulane University
- Glenn Rowe, Postdoctoral Fellow, Biological Sciences, Harvard University

Lunch and Roundtable Discussion for Doctoral Scholars,

**Navigating Your Career** ............................................................................................................... 1:00pm – 2:30pm

*Carlyle*

Moderator: John Wilson, Co-Director, Dillard University Minority Health & Health Disparities Research Center and Professor of Biology, Dillard University

Discussants: Cedric Williams, National Science Foundation and University of Virginia; Medeva Ghee, Leadership Alliance

Topic: Government/Non-profit

Discussant: Willie Pearson, Georgia Institute of Technology; Dawn Brown, Eli Lilly and Company

Topic: Industry

Discussants: Liza Cariaga-Lo, Harvard University; Patti Lee-Robinson, Chaminade University of Honolulu

Topic: Academia

**Student Oral Presentations Session II** ......................................................................................... 2:45pm – 4:15pm

**Break** ............................................................................................................................................... 4:15pm – 4:30pm

**Student Oral Presentations Session III** ......................................................................................... 4:30pm – 5:45pm

**Professional Headshots** ................................................................................................................. 5:30pm – 7:00pm

*Grand Ballroom Pre-function Area*

**Program Specific Cohort Photo Opportunity** ............................................................................. 6:00pm – 7:00pm

*Hotel Lobby*

Lilly Scholars Program Participants
Leadership Alliance Mellon Initiative Participants

**Dinner and Keynote Speaker** ......................................................................................................... 7:00pm – 9:00pm

*Grand Ballroom C,D*

**Leadership Alliance Community Meeting** .................................................................................. 9:00pm – 10:00pm

Faculty Mentors, Coordinators, Doctoral Scholars, Administrators, Graduate Students and Guests

*Grand Ballroom A*

Moderators: Liza Cariaga-Lo, Chair Symposium Planning Committee, Assistant Provost for Faculty Development and Diversity, Harvard University and Medeva Ghee, Acting Executive Director, Leadership Alliance

**Dance** ............................................................................................................................................... 9:00pm – 12:00am

*Grand Ballroom E*
SUNDAY, AUGUST 1

Exhibitors Set-up for Recruiting Fair ................................................................................................ 7:30am – 10:00am
   Grand Ballroom D, E

Breakfast and Panels: The Graduate School Application Process ...................................................... 8:00am – 9:45am
   (Breakfast served 8:00 – 8:45am. Panels begin at 8:45am)

Biosciences — Grand Ballroom C
   Moderator: Joel Oppenheim, Senior Associate Dean for Biomedical Sciences, New York University School of Medicine
   • Anita Blanco, Director, Genetics and Genomics Diversity Program, Stanford University School of Medicine
   • Laurel Southard, Director of Undergraduate Research in Biology, Cornell University
   • Jocelyn Spragg, Faculty Director, Diversity Programs, Division of Medical Sciences

MD/PhD — Grand Ballroom A
   Moderator: Ruth Gotian, Administrative Director, Weill Cornell/Rockefeller/Sloan-Kettering, Tri-Institutional MD-PhD Program
   • Lawrence “Skip” Brass, Associate Dean and Director, University of Pennsylvania MD-PhD Program
   • Sharon Welling, Director of Finance and Operations, Johns Hopkins University MD-PhD Program

Social Sciences and Humanities — Grand Ballroom B
   Moderator: Louise Hainline, Dean, Research and Graduate Studies, Brooklyn College
   • Liza Cariaga-Lo, Assistant Provost for Faculty Development and Diversity, Harvard University
   • David Redman, Associate Dean of Academic Affairs, Princeton University
   • Kenneth Warren, Deputy Provost for Research and Minority Issues, University of Chicago

Engineering and Physical Sciences — Brunswick A,B
   Moderator: Mark Hernandez, Professor in the Department of Civil, Environmental and Architectural Engineering, University of Colorado at Boulder
   • Michelle Nearon, Assistant Dean and Director, Office for Diversity and Equal Opportunity, Yale University
   • Scott Keller, Adjunct Instructor, MDT/MSU Design Unit Supervisor, Department of Civil Engineering, Montana State University-Bozeman

Graduate Student Breakfast Seminar: Achieving Balance and Self Knowledge .................................. 8:00am – 9:45pm
   (Breakfast served 8:00-8:45am. Panels begin at 8:45am)
   Piscataway
   Moderator: Jabbar Bennett, Assistant Dean for Recruiting and Professional Development, The Graduate School, Brown University
   • Lynette Lopes, Imagine You lc

Doctoral Scholars Breakfast: Preparing for Success ........................................................................... 8:00am – 9:45am
   Carlyle
   Moderator: Cheryl Apprey, Director of Graduate Student Diversity Programs, University of Virginia
   • Keith Micoli, Manager Postdoctoral Programs, Sackler Institute of Graduate Biomedical Sciences, New York University School of Medicine

Recruiting Fair/Exhibitors .................................................................................................................. 10:00am – 12:00pm
   Grand Ballroom D, E

Fill out surveys — Grand Ballroom A, B, C ....................................................................................... 12:00pm – 12:30pm

Closing Remarks — Grand Ballroom A, B, C ...................................................................................... 12:30pm – 1:00pm
   Medeva Ghee, Acting Executive Director, Leadership Alliance

Adjourn & Departures — Grand Ballroom A, B, C ............................................................................ 1:00pm
Slyvester “Jim” Gates is the John S. Toll Professor of Physics at the University of Maryland at College Park, the first African American to hold an endowed chair in physics at a major research university in the United States. Dr. Gates has held appointments at MIT, Harvard, the California Institute of Technology and Howard University. He has served as a consultant to the National Science Foundation, the U.S. Department of Energy, the U.S. Department of Defense, the Educational Testing Service and Time-Life Books, and is a member of the Maryland State Board of Education. Gates was named in April 2009 by President Obama as a member of the President’s Council of Advisors on Science and Technology (PCAST). Dr. Gates has also been engaged in many issues of science and education policy at the international level.

Dr. Gates is a Fellow of the American Association for the Advancement of Science (AAAS), and was named by AAAS as the winner of its 2006 Public Understanding of Science and Technology Award. He is also a Fellow of the American Physical Society (APS), and the National Society of Black Physicists (NSBP), where he was a past president. Dr. Gates was the first recipient of the APS Bouchet Award. In 1983, he co-authored the book “Superspace: 1001 Lessons in Supersymmetry,” which more than two decades later remains a standard in the field. He has authored or co-authored over 200 research papers published in scientific journals, and contributed numerous articles in others. Dr. Gates has also appeared in four scientific documentaries on PBS.

Among his students, Dr. Gates is known as an inspiring teacher and role model. He has received many awards for his work as an educator. His awards include the MIT Martin Luther King, Jr. Leadership Award (1997), the College Science Teacher of the Year of the Washington Academy of Sciences (1999), and the Klopsteg Award of the American Association of Physics Teachers (2002). Gates delivered the annual Karplus Lecture to the National Science Teacher’s Association (2007), and received the Public Understanding of Science & Technology Award from the American Association for the Advancement of Science (2007). Dr. Gates has also received honorary Ph.D. degrees from Georgetown University (2001), and Loyola University - Chicago (2005).

Dr. Gates has a B.S. degree in both mathematics and physics, and a Ph.D. degree in elementary particle physics and quantum field theory, both from the Massachusetts Institute of Technology. His thesis was the first written at MIT on supersymmetry, an area closely related to string theory.
### 11:15 AM

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<tr>
<th>Time</th>
<th>Name</th>
<th>Title</th>
<th>Location</th>
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<tbody>
<tr>
<td>11:15 AM</td>
<td><strong>BB</strong> Amber Anders</td>
<td>&quot;Placental Serotonin Transporter Gene Expression: Interaction Effects Among Maternal Depression, Fetal Gender, and Serotonin Transporter Genotype&quot;</td>
<td>Brunswick A</td>
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<tr>
<td>11:15 AM</td>
<td><strong>AB</strong> Ashley Jordan</td>
<td>Gene Suicide Therapy: Induced Cell Death of Ovarian Cancer Cells via Toxic Transfection Agents</td>
<td>Piscataway</td>
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<tr>
<td>11:15 AM</td>
<td><strong>AB</strong> Caitlin Armijo</td>
<td>Transcriptional Regulation of the Cardiac Conduction System</td>
<td>Brunswick C</td>
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<tr>
<td>11:15 AM</td>
<td><strong>SS</strong> Calie Edmonds</td>
<td>Race, Class, and Perceptions of the Legal System</td>
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<td>11:15 AM</td>
<td><strong>BB</strong> Ciara Gimble</td>
<td>The role of aryl hydrocarbon receptor in the transcription of Th2 cytokine IL-13</td>
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<td>11:15 AM</td>
<td><strong>BB</strong> Devyani Ujla</td>
<td>The Role of Wnt1, Shh, and Fgβ in the Development of Midbrain Dopamine Neurons</td>
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<td><strong>BB</strong> Divya Krishnamoorthy</td>
<td>Analyzing Bone Phenotypes in Early B-Cell Factor 1-Deficient Mesenchymal Stem Cell’s</td>
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<td><strong>AB</strong> Fabiola Louis</td>
<td>Capture and Selective Elution of Microbial Cells in Clinical Fluids by Absorption of Chitosan Coated Silica Particles</td>
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<td><strong>EN</strong> Florencia Paredes</td>
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<td><strong>HU</strong> Veronica Morales</td>
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<td><strong>EN</strong> Victor Tumulak</td>
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<td><strong>BB</strong> Vignesh Palaniappan</td>
<td>Proteomic Analyses of Murine alpha-3 and alpha-7 Nicotinic Acetylcholine Receptors</td>
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<td><strong>AB</strong> Adena Hernandez</td>
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BB Ashley Powers  The Effects of GRIP1 Phosphorylation on Glucocorticoid-Dependent Gene Expression  Woodbridge

PE Amber Spry  Which Opinions Count? African Americans and Race Neutral Ballot Initiatives & Outcomes  Windsor

BB Anissa Alexander  Using the Connectivity Map and Gene Ontology to Find New Uses for Existing Drugs in Treating Cancer and Diabetes  Edison

BB Blair Alexander  The Role of H19 in the Imprinting Gene Network  Brunswick C

SS Jackson Way  Identity Prototypicality: Effects of group-based ideologies on intersectional identities  Princeton

BB Juan Torres  Development of a Luciferase Reporter for the Lck Gene  Brunswick C

PS Kenneth Barnes  Building a Simple Fluorescence Recovery After Photobleaching (FRAP) Instrument  Somerville

AB Kimberly Stratford  Bypassing Hepatic Insulin After Menopause  Piscataway

AB Meilín Fernández García  Characterization of Beta-spectrin Mutations in the Tetramerization Site Associated with Hereditary Hemolytic Anemia.  Brunswick B

BB Mytrang Do  Identifying Regulatory Elements for MicroRNA-9 Expression and Investigating the Function of MicroRNA-9 in Neural Development  Boardroom II

EN Natalia Vázquez  Comparison of Protein and Carbohydrate Associations with Fine Particulate Matter in Sub-Alpine Aerosols from Urban Environments in Boulder, Colorado  Hillsborough

AB Nicole Simon  Characterizing HIV-1 Matrix and PIP2 During Viral Assembly  Bridgewater

HU Tiara Moultrie  Peons Multiply Like Rabbits: Rhetoric, Power and the Adoption of Preventive Agencies in Mexico, 1920–1940  Trenton

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BB Alicia Schep  The ARE-binding protein AUFI regulates telomerase expression  Brunswick C

BB Asante Hatcher  Characterization of the 100N Zebrafish Mutant  Brunswick B

BB Christina Saak  The Role of the BTB ZF Domain Protein Chinmo in Patterning and Growth of the Drosophila Eye and Wing  Boardroom II

AB Devin Cooper  The Roles of the RUNX 1-56 and RUNX 388X Mutations in Acute Myelogenous Leukemia (AML)  Brunswick A

HU Gabrielle Horton  Decentralization or Absolute Chaos: The United Federation of Teachers and the 1968 Conflict at Ocean Hill-Brownsville  Monroe

AB Ivan de Kouchkovsky  Multiple Sclerosis and Sodium Magnetic Resonance Imaging at 7 Tesla  Piscataway


BB Kathryn West  Immunotherapy for Type 2 Diabetes  Woodbridge

EN Kirstan Walker  Low Altitude UAV Flight Control Using a Miniature Optical Flow Sensor  Hillsborough

BB Mohammad Usmani  Pharmacological Characterization of Cloned and Native Transient Receptor Potential Melanostatin – Subtype 8 (TRPM8) Channels  Bridgewater
SS Rosina Pradhananga  Binational Efforts In Promoting Sustainable Development Through Air Pollution Reduction In Mexican-Imperial Valley.  Windsor  

AB Stephanie Brown  Why Some Bacteria Make Us Sick: Using molecular biology tools to characterize potential disease causing genes in Salmonella serotypes  Edison  

SS Theodore Young  Black Perceptions of Chinese Labor in the Post Civil War South  Trenton  

PS Yashira Negrón- Abril  Novel Zn-Porphyrin Tweezer as a Circular Dichroism Sensitive Reporter of Amino Alcohol Chirality  Somerville  

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BB Alejandro Gonzalez  Testing the Relationship between Embryo and Organism Size: Implications for Primordial Dwarfism  Piscataway  

BB Andrea Lopez-Cepero  Investigation of Caspase-3 And Its Role In Reo-virus Induced Apoptosis and Mu1 Cleavage  Woodbridge  

HU Elizabeth Sawyer  As He Saw Himself: Historical Perceptions and the Importance of Jacksonian Self-Concept  Princeton  

BB Erica Ferreris  Chromatin regulatory factors involved in the response to Wnt signaling after the midblastula transition  Boardroom II  


PS Jennifer Overson  A Decision Tree to Aid the Implementation of Linear Algebra Operations  Somerville  

BB Jordan Dow  Visual Cycle Defects in Drosophila Lead To Retinal Degeneration  Edison  

SS Karina Medved  What You Say and How You Say It: Verbal and Non-Verbal Reactions to Discrimination Claims  Monrove  

BB Lana Zhang  Identification of Dopamine Neurons Using Viral-Mediated Gene Transfer  Brunswick B  

BB Meghan Francis  Genetic Analysis of the CpG Hypo-response in MOLF/Ei Mice  Brunswick C  

AB Michelle Haring  Genetic Variation at CD36 and its Role in Malaria Susceptibility and Resistance  Brunswick A  

HU Virgo Morrison  An Analysis of Drug Neighborhoods in Manhattan from 1946–1950  Trenton  

AB Yakov Yakubov  Role of Serotonin on Sensorimotor Gating of the Goldfish Startle Escape Response  Bridgewater  

EN Yolian Amaro-Rivera  Design and Implementation of an Analog Mixer for Meteor Radar Applications  Hillsborough  

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HU Ali Wright  Asylum Life and Experiences of Mental Illness in 19th-Century African-American Communities: The Falsification of the 1840 Census  Trenton  

BB Amanda Roque Atilano  Enabling Measurement of Calcium Signaling in Muscle Movement in the ER/SR Using GeneticallyEncoded Ca2+ Sensors  Brunswick B  

BB Deborah Ayeni  Using a biochemical screen to identify inhibitors of the Integrated Stress Response  Edison  

EN Gracey Morgan  Parameter Study of the Effect of Base Isolation on Building Response and Losses  Somerville  

PS Joanna Ciavarella  Analysis of Nucleotide Base Pairing Pattern in Wildtype and Mutated Tobacco Ech Rirus (TEV) mRNA Pseudoknot using Nuclear Magnetic Resonance Spectroscopy.  Hillsborough  

BB John Dankert  The Role of KLF4 in miR-182 Cluster Expression and Melanoma Progression.  Brunswick A  

BB Kenneth Skinner  Paralllelism Between Lysosome Related Organelles in Melanocytes and Platelets: Does Scl35d3 Localize to Melanosomes when Expressed in Melanocytes?  Piscataway  

SS Kelvon Barkley  An Analysis of the Fiscal Impacts of Natural Gas Drilling on Communities in the Marcellus Shale  Windsor
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<td>‘Jerkin’: The Viral Construction of Aesthetics, Identity, and Movement in an Emergent Youth Dance Form</td>
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|          | EN Antonella Albuja | Modeling and Analysis of Galaxy-15 and Relevant Geosynchronous Satellite Orbits for Potential Collision Identification | Hillsborough |
|          | SS Charles Manning | Social Network Diversity and Interracial Relationships                                          | Trenton        |
|          | SS Devon Wade | How does Socioeconomic Status Play a Factor in Student Teacher Connectedness and Participating in Extra-Curricular Activities among Adolescents who have been Detained and does this Vary by Ethnicity? | Princeton      |
|          | AB Fatimah Finney | Does Alternative Splicing of a Neuronal Calcium Channel Influence the Effect of Morphine Analgesia on Inflammatory Pain? | Brunswick B    |
|          | BB Joel Crespo | Effects on Chemokine Expression upon Stimulation of Cancer Cells by Pro-Inflammatory Cytokines | Piscataway     |
|          | BB Joshua Borgerding | Depressing Neighbors: Death Receptor Expression on LSECs Following Polymicrobial Septic Insult | Woodbridge     |
|          | BB Kadidia Adula | Gentamicin Damages Lateral Line Hair Cells and Changes the Expression of Brain Gap-43 Levels in Bullfrog Larvae | Brunswick A    |
|          | BB Luke Wandy | Extracellular Matrix Protease Expression of the Central Nervous System is Altered Following Induced Chemoconvulsive Seizure | Brunswick C    |
|          | SS Mae Caastillo | Activation of the Central Stress Circuit by Blockade of Alpha-1 adrenoceptors in the Lower Brainstem | Windsor        |
|          | BB Stephanie Chan | Comparative Biochemical Analysis of Amyloid Beta Fragments in Alzheimer’s Human and Transgenic Mice Brains | Edison         |

<p>| 3:00 PM  | PS Ashley Berryman | Student Achievement and the Challenges of Elementary Mathematics | Hillsborough |
|          | SS Carol Torres | Investigating Psychological Stress as a Factor That Can Lead to Activation of ERK | Windsor       |
|          | AB Christina Parker | A Comparison of Wound Healing in Aged and Pediatric Human Skin | Woodbridge    |
|          | BB Denisse Izquierdo | Identifying the Mechanism of Epidermal Growth Factor (EGF) Induced Increase in Survivin Expression in Rat Beta Cells | Edison        |
|          | BB Diana Carrillo | Inducible Motor Neuron Death in Mice as a Genetic Model of Early Motor Neuron Disease | Brunswick A    |
|          | SS Erick Paulino | Minority Social Influence in Intergroup Interactions | Trenton        |
|          | AB Ezinne Nwankwo | Effect of Naphthoquinone Derivatives on Trypanosoma cruzi | Boardroom II   |
|          | HU Kiara Drake | Practicability and Democracy in Antonin Scalia’s Originalism and Stephen Breyer’s Living Constitutionalism | Monroe        |</p>
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<td>AB Michael Clark ALDH7A1 in Superficial-Spreading and Nodular Melanoma. Piscataway</td>
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<td>HU Precious Boone Critical Pedagogy: Student-Centered Learning and the Importance of Technology in the High School Classroom Princeton</td>
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<td>BB Simone Williams The RF amide Neuropeptide FF activates human mast cells via the neuron-specific Mas-related gene-1(MrgX1) Brunswick B</td>
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<td>AB Eric Gibbs Investigating the Potential Anti-proliferative Effects of Rosiglitzone on a Human Endothelial Cell Model. Piscataway</td>
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<td>SS Jennifer Carcamo Paradigms of a New Consciousness: The Case of the Contemporary Salvadoran Student Movement in the U.S. and the Implications for Transnational Latino Communities Trenton</td>
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<td>AB Samantha Berkheimer Characterization of Novel Genes Associated with Mouse Mammary Tumor Virus Common Integration Sites Edison</td>
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<td>SS Yesenia Torres Absence of Relation of Perceived Stress to Cognitive Function in Older Adults Windsor</td>
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<td>Ranjan Mishra</td>
<td>5' Pyrophosphate Removal from RNA by RNA Pyrophosphohydrolase (RppH)</td>
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<td>BB</td>
<td>Zoila Fernandez</td>
<td>Uracil Derivative Induced cAMP Production in Red Cell Blood Stage of Plasmodium falciparum</td>
<td>Woodbridge</td>
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### 5:00 PM

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<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
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<tr>
<td>AB</td>
<td>Al Ray, III</td>
<td>Investigation of the effects of Cell Degradation on Laser Capture Microdissection of Mock Sexual Assualt Evidence</td>
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<td>BB</td>
<td>Ashley Schloss</td>
<td>Rationally Designed Cyclic Sulfopeptides for HIV-1 Entry Inhibition</td>
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<td>BB</td>
<td>Carla Lopez</td>
<td>Verapamil Block of Voltage Gated Sodium Channels</td>
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<tr>
<td>HU</td>
<td>CaVar Reid</td>
<td>Ain’t No Fathers In The Hood: A Socio-Historical Analysis of of Black Male Engagement With Economic Fatherhood</td>
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<td>BB</td>
<td>Christopher Rusnak</td>
<td>Phylogenetic Analysis of Viral IRF Proteins</td>
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<tr>
<td>SS</td>
<td>Dianeth Rodriguez</td>
<td>Convergent, Discriminant, and Criterion-Related Validity of the Mobility Inventory for Agoraphobia</td>
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</table>
BB Francisco Martinez  The Effect of the Interaction Between Aggrecan, Aggrecanase, and Aggrecanase Inhibitors on Hydroxyapatite Formation in a Gel System Brunswick A
BB Liz Hernandez  The role of membrane proximal FNIII domains in receptor tyrosine kinases Brunswick B
BB Malcolm Moise  The Roles of PALB2 and RPA Phosphorilation in the Cellular Response to Replication Stress Boardroom II
SS Sabah Ghulamali  Aiding Youth: Assessing the Impact of the AIDS Epidemic on Kenyan Adolescents Monroe
SS Whyntee Foreist  African Americans & Local Television News: A Content Analysis Princeton

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BB Adriana Manrique  Spatial Variation of Attack Rate Across Sites and Plant Density of Biological Control Agent Mecinus Janthinus on Linaria Dalmatica Woodbridge
SS Brit’ny Hawkins  Fear, Threat, and Willingness to Act in Response to the Swine Flu Monroe
AB Charles Hayes IV  Does Endothelial Cell Specific Adhesion Molecule (ESAM) regulate Rho activation in platelets? Brunswick A
SS Danielle Barton  The Parent-Adolescent Relationship and Obesity: Associations between Parents’ Decision Making and Adolescents’ Responsibility for Weight Related Behaviors Trenton
BB John Vu  The Role of Transcription Factor c-Myb in Regulating Activity of DBA/2 Promoter Boardroom II
BB José Vargas-Muñiz  Mechanism of Interaction Between YY1, YAF2 and Polycomb Recruitment Brunswick B
BB Josephine Garban  Regulation of Drosophila Feeding Rhythms by MicroRNA Dme-miR-278 Edison
SS Melissa Brown  Culture and Conception of Failure Windsor
BB Michelle Rybak  Generation of Induced Pluripotent Embryonic Stem Cells Piscataway
PE Parris Baker  Hip-Hop Politics and the 2008 Presidential Election Princeton
AB Seshat Mack  Synthesis of Structurally-Diverse SAM Analogues and Their Reactivity as Potential SAM Analogue Cofactors Brunswick C

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SS Brandon Crosby  The Psychological Determinants of Participation in the Political Process Monroe
BB Charles Farmer  Mutation in MEKK1 Gene Affects Male Development Pathway Piscataway
BB Diego Borralli  The Role of Nuclear Hormone Receptors Downstream of Steroid Hormone Signaling in Cell Migration in Drosophila melanogaster Migration Brunswick C
HU Enmanuel Martinez  Acá, Allá, and Back Again: An Analysis of repetition and Recurrence Within Junot Díaz’s "Drown" and "The Brief Wondrous Life of Oscar Wao" Princeton
PE Jessica Wielgus  Philanthropy: Private Action and the Public Good Windsor
BB Marie Feliciano  Mechanism of MDP Translocation to the Cytosol Boardroom II
BB Nicolas Cordero  Mechanism of p53-independent Apoptosis in Drosophila. Edison
AB Nicole Naiman  Enhancing the Antigenicity of Neutralizing Epitopes on HIV Envelope gp120 Immune Complex Brunswick A
HU Teresa Jimenez  Historical Revision and Cultural Critique in Toni Morrison’s Fiction Trenton
BB Tiffany Cummings  The Function of rps28 in Mediating Translational Accuracy in Yeast Brunswick B
BB Tyler Bradstreet  A Case-Control Study Addressing Human Endogenous Retrovirus-K (HML-2) Distribution among Individuals Diagnosed with Schizophrenia Woodbridge

5:45 PM
SS Javier Bustamante  Psychological Theories of Moral and Ethical Behavior Monroe
| Student Oral Presentations | By Room

**Woodbridge**
*Applied and Basic Biosciences*

**Angel Byrd, Brown University**

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<tr>
<td>Divya Krishnamoorthy</td>
<td>Analyzing Bone Phenotypes in Early B-Cell Factor 1-Deficient Mesenchymal Stem Cell's</td>
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<tr>
<td>Jose Llongueras</td>
<td>Dynamic Function of Ca2+-ATPase SPCA2 and TRP Ion Channels in Breast Cancer</td>
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<tr>
<td>Ashley Powers</td>
<td>The Effects of GRIP1 Phosphorylation on Glucocorticoid-Dependent Gene Expression</td>
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<tr>
<td>Kathryn West</td>
<td>Immunotherapy for Type 2 Diabetes</td>
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<td>Andrea Lopez-Cepero</td>
<td>Investigation of Caspase-3 And Its Role In Reo-virus Induced Apoptosis and Mu1 Cleavage</td>
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<tr>
<td>Oluwatobiloba Odunsi</td>
<td>Forensic Perspectives on Tissue Mosaicism in Transplant Patients: Case Studies</td>
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**Tricia Nardiello, New York University**

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<tr>
<td>Joshua Borgerdimg</td>
<td>Depressing Neighbors: Death Receptor Expression on LSECs Following Polymicrobial Septic Insult</td>
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<tr>
<td>Christina Parker</td>
<td>A Comparison of Wound Healing in Aged and Pediatric Human Skin</td>
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<td>Matthew Pimentel</td>
<td>The Role of T Cell Receptor Signal Strength in Regulatory T Cell Development</td>
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<td>Sonia Metangmo</td>
<td>The Presentation of Plasmodium Antigen by Splenic Dendritic Cells</td>
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<td>Lauren Acevedo Molina</td>
<td>The Rate of Somatic Mutations in Human Anti-V3 HIV-1 Monoclonal Antibodies</td>
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<tr>
<td>Jessica Douthit</td>
<td>Do Patient Antibodies in Anti-NMDA Receptor Encephalitis Bind Preferentially to the Hippocampus?</td>
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**Lashon Pringle, University of Pennsylvania**

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<td>Melanie Silvis</td>
<td>Characterizing the Role of CpsA in Mycobacterium tuberculosis Infection of Macrophages</td>
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**Piscataway**
*Applied and Basic Biosciences*

**Joseph Marlin, New York University**

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<tr>
<td>Ashley Jordan</td>
<td>Gene Suicide Therapy: Induced Cell Death of Ovarian Cancer Cells via Toxic Transfection Agents</td>
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<tr>
<td>Lauren Moyer</td>
<td>A Mechanistic Study of HPV Integration</td>
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<tr>
<td>Kimberly Stratford</td>
<td>Bypassing Hepatic Insulin After Menopause</td>
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<tr>
<td>Ivan de Kouchkovsky</td>
<td>Multiple Sclerosis and Sodium Magnetic Resonance Imaging at 7 Tesla</td>
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<td>Alejandro Gonzalez</td>
<td>Testing the Relationship between Embryo and Organism Size: Implications for Primordial Dwarfism</td>
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<td>Kenneth Skinner</td>
<td>Parallelsim Between Lysosome Related Organelles in Melanocytes and Platelets: Does Scl35d3 Localize to Melanosomes when Expressed in Melanocytes?</td>
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<tr>
<td>11:15 AM</td>
<td>Devyani Ujla</td>
<td>The Role of Wnt1, Shh, and Fgf8 in the Development of Midbrain Dopamine Neurons</td>
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<td>11:30 AM</td>
<td>Fei Mock</td>
<td>Exploring the Role of apl-1 Gene on Developmental Timing of C. elegans</td>
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<tr>
<td>11:45 AM</td>
<td>Mytrang Do</td>
<td>Identifying Regulatory Elements for Microrna-9 Expression and Investigating the Function of Microrna-9 in Neural Development</td>
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<tr>
<td>12:00 PM</td>
<td>Christina Saak</td>
<td>The role of the BTB ZF domain protein Chinmo in patterning and growth of the Drosophila eye and wing</td>
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<td>12:15 PM</td>
<td>Erica Ferreris</td>
<td>Chromatin regulatory factors involved in the response to Wnt signaling after the midblastula transition</td>
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<tr>
<td>12:30 PM</td>
<td>Leonard Jarzebowski</td>
<td>Beyond Guidance: Semaphorin-PlexinD1 Signaling Modulates Angiogenic Potential</td>
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**Shariya Terrell, Harvard University**

**Joel Crespo**
Effects on Chemokine Expression upon Stimulation of Cancer Cells by Pro-Inflammatory Cytokines
2:45 PM

**Michael Clark**
ALDH7A1 in Superficial-Spreading and Nodular Melanoma.
3:00 PM

**Eric Gibbs**
Investigating the Potential Anti-proliferative Effects of Rosiglitizone on a Human Endothelial Cell Model
3:15 PM

**Andrea Rolong**
Electrospun Nanofiber Scaffold Impregnated with Growth Factors For Small-Diameter Vascular Grafts
3:30 PM

**Angelique Mole**
Analysis of Hepcidin in Human Serum
3:45 PM

**Zebib Abraham**
Manipulating the Lola Gene in Drosophila Melanogaster- Effects on Immune Response
4:00 PM

**Jose McFaline Figueroa, Columbia University**

**Kevin Fidelin**
Mechanism of Misfolded Rhodopsin Degradation from the Endoplasmic Reticulum.
4:30 PM

**Erin Shoemaker**
Does Phosphatidic Acid Modulate the Effect of Protein Phosphatase 2A in Salt Stress Signaling?
4:45 PM

**Carla Lopez**
Verapamil Block of Voltage Gated Sodium Channels
5:00 PM

**Michelle Rybak**
Generation of Induced Pluripotent Embryonic Stem Cells
5:15 PM

**Charles Farmer**
Mutation in MEKK1 Gene Affects Male Development Pathway
5:30 PM

**Steven Tuyishime, University of Pennsylvania**

**Devyani Ujla**
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**Fei Mock**
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**Leonard Jarzebowski**
Beyond Guidance: Semaphorin-PlexinD1 Signaling Modulates Angiogenic Potential
12:30 PM

**Michea Caye, Antioch University**

**Abigail Boateng**
The Effect of Diet on the Growth and Infection of Candida albicans in Host Organisms
2:45 PM

**Ezinne Nwankwo**
Effect of Naphthoquinone Derivatives on Trypanosoma cruzi
3:00 PM

**Kenneth Disbrow**
The Interactions Between Streptococcus Pneumoniae and Corynebacterium
3:15 PM

**Husna Shaik**
Analysis of Secondary Structure Features of Wild-Type and Mutated Tobacco Etch Virus mRNA-Pseudoknots by Circular Dicroism
3:30 PM

**Stephanie Zimmerman**
Characterization of the Plasmodium Berghei HesB-like Gene
3:45 PM

**Eric Boyer**
E2F1 Knockdown in Lymphoblastiod Cell Lines
4:00 PM
### Student Oral Presentations by Room

**Aliya Frederick, Vanderbilt University**  
**4:30 – 5:45**

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<tr>
<td>Aloysus Lawong</td>
<td>Structural And Thermodynamic Characterization Of Fis1 Mutants Known To Disrupt Mitochondrial Fission</td>
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<tr>
<td>Mirna Martinez</td>
<td>Mpl Signaling Induced by Different Ligands in Various Thrombocytopenic Disorders</td>
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<td>Malcolm Moise</td>
<td>The Roles of PALB2 and RPA Phosphorilation in the Cellular Response to Replication Stress</td>
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<td>Marie Feliciano</td>
<td>Mechanism of MDP Translocation to the Cytosol</td>
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**Brunswick A  
Applied and Basic Biosciences**

### Geronda Montalvo, University of Pennsylvania  
**11:15 – 12:45**

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<tr>
<td>Amber Anders</td>
<td>Placental Serotonin Transporter Gene Expression: Interaction Effects Among Maternal Depression, Fetal Gender, and Serotonin Transporter Genotype</td>
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<tr>
<td>Alexandra Pinzaru</td>
<td>The Role of H3K9 Methylation in Gene Activation by Nuclear Hormone Receptors</td>
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<td>Juan Torres</td>
<td>Development of a Luciferase Reporter for the Lck Gene</td>
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<td>Devin Cooper</td>
<td>The roles of the RUNX 1-56 and RUNX 388X Mutations in Acute Myelogenous Leukemia (AML)</td>
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<tr>
<td>Michelle Haring</td>
<td>Genetic Variation at CD36 and its Role in Malaria Susceptibility and Resistance</td>
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<td>John Dankert</td>
<td>The Role of KLF4 in miR-182 Cluster Expression and Melanoma Progression.</td>
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### Jennifer Greene, University of Pennsylvania  
**2:45 – 4:15**

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<td>Kadidia Adula</td>
<td>Gentamicin Damages Lateral Line Hair Cells and Changes the Expression of Brain Gap-43 Levels in Bullfrog Larvae</td>
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<td>Diana Carrillo</td>
<td>Inducible Motor Neuron Death in Mice as a Genetic Model of Early Motor Neuron Disease</td>
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<td>Daniel Pique</td>
<td>Three-Dimensional Reconstruction of Excitatory Neuron Clones in the Postnatal Mouse Neocortex</td>
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<td>Jason Browne</td>
<td>Preovulatory Activation of GnRH Neurons in dNFGR Transgenic Mice</td>
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<td>Melissa Powell</td>
<td>Role of Highly Active Antiretroviral Therapy (HAART) in Astrocyte Dysfunction</td>
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<td>Jonathan Tran</td>
<td>Presynaptic versus Postsynaptic Na+ Channel Expression in Preparations of Rat Cortical Synaptic Membranes</td>
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### Said Saab, New York University  
**4:30 – 5:45**

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<tr>
<td>Torrey Salmon</td>
<td>The Role of Inositol Polyphosphate MultiKinase (IPMK) on LKB1 Localization and Activity</td>
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<td>Andrew Johnston</td>
<td>The Role of SCML2 in Cell Cycle Regulation</td>
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### Brunswick B  
**Applied and Basic Biosciences**

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<tr>
<td><strong>Rebecca Sweet, Yale University</strong></td>
<td>11:15 – 12:45</td>
<td>Ciara Gimblet</td>
<td>The Role of Aryl Hydrocarbon Receptor in the Transcription of Th2 cytokine IL-13</td>
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<td>Adena Hernandez</td>
<td>Epigenetic Shifts in Gene Expression Mediating Transformation to Hepatocellular Carcinoma in a Transgenic Mouse Model</td>
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<td>Meilín Fernández García</td>
<td>Characterization of Beta-spectrin Mutations in the Tetramerization Site Associated with Hereditary Hemolytic Anemia.</td>
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<td>Asante Hatcher</td>
<td>Characterization of the 100N Zebrafish Mutant</td>
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<td>Lana Zhang</td>
<td>Identification of Dopamine Neurons Using Viral-Mediated Gene Transfer</td>
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<td>Amanda Roque Atilano</td>
<td>Enabling Measurement of Calcium Signaling in Muscle Movement in the ER/SR Using Genetically Encoded Ca2+ Sensors</td>
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### Sarah McQuate, University of Colorado at Boulder  
2:45 – 4:15

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<td>Fatimah Finney</td>
<td>Does Alternative Splicing of a Neuronal Calcium Channel Influence the Effect of Morphine Analgesia on Inflammatory Pain?</td>
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<td>Simone Williams</td>
<td>The RF Amide Neuropeptide FF Activates Human Mast Cells via the Neuron-specific Mas-related Gene-1(MrgX1)</td>
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<td>Michele Gomez</td>
<td>Ubiquitin Carboxy-Terminal Hydrolase L1: Roles at the Synapse</td>
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<td>Victoria Okuneye</td>
<td>Protein Expression in Native Neuronal Cells vs. Differentiation-Guided Embryonic Stem Cells in Mouse Model</td>
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<td>Courtney Ensslin</td>
<td>Direct PCR of Laser Capture Microdissected Sperm Cells from Mock Sexual Assault Evidence</td>
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<td>Roxana Loperena</td>
<td>The Transcription Factor c-Myb Regulates Neuromedin U Expression in Primary Human CD34+ Cells Undergoing Erythroid Differentiation</td>
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### Tiffany Link, Johns Hopkins University  
4:30 – 5:45

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<td>Dalimaris Nieves-Mas</td>
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### Brunswick C  
**Applied and Basic Biosciences**

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<tr>
<td><strong>Tania Nevers, Brown University</strong></td>
<td>11:15 – 12:45</td>
<td>Caitlin Armijo</td>
<td>Transcriptional Regulation of the Cardiac Conduction System</td>
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<td></td>
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<td>Natalie Aarons-Cooke</td>
<td>Cloning of the Cardiac Myosin Heavy Chain Isoform Genes of the Burmese Python</td>
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<td>Blair Alexander</td>
<td>The Role of H19 in the Imprinting Gene Network</td>
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<td>Alicia Schep</td>
<td>The ARE-binding Protein AUF1 Regulates Telomerase Expression</td>
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<td>Meghan Francis</td>
<td>Genetic Analysis of the CpG Hypo-response in MOLF/Ei Mice</td>
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<tr>
<td></td>
<td></td>
<td>Olivia Mesoras</td>
<td>Cloning and Expressing Lymphotactin in B16 Melanoma</td>
</tr>
</tbody>
</table>
# Student Oral Presentations by Room

## Knatokie Ford, Harvard University  2:45-4:15

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luke Wandrey</td>
<td>Extracellular matrix protease expression of the central nervous system is altered following induced chemoconvulsive seizure</td>
<td>2:45 PM</td>
</tr>
<tr>
<td>Mathew Starner</td>
<td>Role of unc-11 in the Toxicity of Beta-Amyloid in an Invertebrate Model of Alzheimer’s Disease</td>
<td>3:00 PM</td>
</tr>
<tr>
<td>Janell Payano Sosa</td>
<td>The Role of the Vomeronasal Organ in Fear and Aggression in Mice</td>
<td>3:15 PM</td>
</tr>
<tr>
<td>Michelle Van Tieghem</td>
<td>Relationship between Functional Connectivity and Executive Function in ADHD: a Resting-state fMRI Study</td>
<td>3:30 PM</td>
</tr>
<tr>
<td>Andreas Mitchell</td>
<td>Affinity Labeling of the Mu Opioid Receptor with a Novel Radioligand: Structural Analysis</td>
<td>3:45 PM</td>
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<tr>
<td>Thomas Burke</td>
<td>Investigation of Potential Anti-aggregational Compounds for Treatment of Alzheimer’s Disease.</td>
<td>4:00 PM</td>
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</table>

## Angel Byrd, Brown University  4:30 – 5:45

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
<th>Time</th>
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<tbody>
<tr>
<td>Max Liu</td>
<td>Metalloproteases and Cell Signaling: a Novel Target for Cancer Therapy</td>
<td>4:30 PM</td>
</tr>
<tr>
<td>Katherine Toll</td>
<td>Interspecific Competition among Plant Populations in a Reconstructed Tallgrass Prairie</td>
<td>4:45 PM</td>
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<tr>
<td>Ashley Schloss</td>
<td>Rationally Designed Cyclic Sulfopeptides for HIV-1 Entry Inhibition</td>
<td>5:00 PM</td>
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<tr>
<td>Seshat Mack</td>
<td>Synthesis of Structurally-Diverse SAM Analogues and Their Reactivity as Potential SAM Analogue Cofactors</td>
<td>5:15 PM</td>
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<tr>
<td>Diego Borralli</td>
<td>The Role of Nuclear Hormone Receptors Downstream of Steroid Hormone Signaling in Cell Migration in Drosophila melanogaster</td>
<td>5:30 PM</td>
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</table>

## Edison  Applied and Basic Biosciences  11:15 – 12:45

<table>
<thead>
<tr>
<th>Presenter</th>
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<tbody>
<tr>
<td>Vignesh Palaniappan</td>
<td>Proteomic Analyses of Murine alpha-3 and alpha-7 Nicotinic Acetylcholine Receptors</td>
<td>11:15 AM</td>
</tr>
<tr>
<td>Jean Padilla-Aponte</td>
<td>Genetic Analysis of E. coli Mutants Resistant to Rho Overproduction</td>
<td>11:30 AM</td>
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<tr>
<td>Anissa Alexander</td>
<td>Using the Connectivity Map and Gene Ontology to Find New Uses for Existing Drugs in Treating Cancer and Diabetes</td>
<td>11:45 AM</td>
</tr>
<tr>
<td>Stephanie Brown</td>
<td>Why Some Bacteria Make Us Sick: Using molecular biology tools to characterize potential disease causing genes in Salmonella serotypes</td>
<td>12:00 PM</td>
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<tr>
<td>Jordan Dow</td>
<td>Visual Cycle Defects in Drosophila Lead To Retinal Degeneration</td>
<td>12:15 PM</td>
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<tr>
<td>Deborah Ayeni</td>
<td>Using a biochemical screen to identify inhibitors of the Integrated Stress Response</td>
<td>12:30 PM</td>
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## Justin Garyu, Yale University  2:45 – 4:15

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
<th>Time</th>
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<tbody>
<tr>
<td>Stephanie Chan</td>
<td>Comparative Biochemical Analysis of Amyloid Beta Fragments in Alzheimer’s Human and Transgenic Mice Brains</td>
<td>2:45 PM</td>
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<tr>
<td>Denisse Izquierdo</td>
<td>Identifying the Mechanism of Epidermal Growth Factor (EGF) Induced Increase in Survivin Expression in Rat Beta Cells</td>
<td>3:00 PM</td>
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<tr>
<td>Samantha Berkheimer</td>
<td>Characterization of Novel Genes Associated with Mouse Mammary Tumor Virus Common Integration Sites</td>
<td>3:15 PM</td>
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<tr>
<td>Jose Montoyo-Rosario</td>
<td>The Role of KDM5 Family of Demethylases in Heterochromatin Formation</td>
<td>3:30 PM</td>
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<tr>
<td>Coral Cabrera-Montalvo</td>
<td>Sequencing Nicotinic Acetylcholine Receptors CHRND and CHRNG</td>
<td>3:45 PM</td>
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<tr>
<td>Lourdes Ramirez</td>
<td>Regulation of Hepatic B Cells by Syndecan-1 proteoglycan</td>
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<td>4:30 – 5:45</td>
<td>ART-27: a Co-factor of the Androgen Receptor Whose Role As a Tumor Suppressor May Be Altered or Nonfunctional in Prostate Cancer Cells</td>
<td>Matthew DeMars</td>
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<td>Investigation of the effects of Cell Degradation on Laser Capture Microdissection of Mock Sexual Assualt Evidence</td>
<td>Al Ray, III</td>
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<td>Regulation of Drosophila Feeding Rhythms by microRNA Dme-miR-278</td>
<td>Josephine Garban</td>
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<td>Mechanism of p53-independent Apoptosis in Drosophila</td>
<td>Nicolas Cordero</td>
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<tr>
<td>11:15 – 12:30</td>
<td>Capture and Selective Elution of Microbial Cells in Clinical Fluids by Absorption of Chitosan Coated Silica Particles</td>
<td>Fabiola Louis</td>
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<td></td>
<td>Characterizing HIV-1 Matrix and PIP2 During Viral Assembly</td>
<td>Nicole Simon</td>
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<td>Pharmacological Characterization of Cloned and Native Transient Receptor Potential Melanostatin – Subtype 8 (TRPM8) Channels</td>
<td>Mohammad Usmani</td>
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<td>Role of Serotonin on Sensorimoter Gating of the Goldfish Startle Escape Response</td>
<td>Yakov Yakubov</td>
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<tr>
<td>11:15 – 12:45</td>
<td>Mexican-American Storytelling and Theater: The Shrunken Head of Pancho Villa's Influence on Political Movements</td>
<td>Veronica Morales</td>
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<td>Propaganda and the Popish Plot of 1678: The Case of Roger L'Estrange</td>
<td>Courtney Hobson</td>
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<td>Peons Multiply Like Rabbits: Rhetoric, Power and the Adoption of Preventive Agencies in Mexico, 1920–1940</td>
<td>Tiara Moultrie</td>
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<td>Black Perceptions of Chinese Labor in the Post Civil War South</td>
<td>Theodore Young</td>
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<td></td>
<td>An Analysis of Drug Neighborhoods in Manhattan from 1946–1950</td>
<td>Virgo Morrison</td>
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<td>Asylum Life and Experiences of Mental Illness in 19th-Century African-American Communities: The Falsification of the 1840 Census</td>
<td>Ali Wright</td>
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<tr>
<td>2:45 – 4:15</td>
<td>Social Network Diversity and Interracial Relationships</td>
<td>Charles Manning</td>
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</table>
Kristin Dukes, Tufts University Medford  
4:30 – 5:45

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Roman Liera</td>
<td>An Analysis of the Roles of Coping Beliefs and Person Factors in H1N1 Vaccination Decisions</td>
<td>4:30 PM</td>
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<tr>
<td>Ijeoma Eboh</td>
<td>Race, Psychology, and Sexual Activity at Harlem's Lafargue Clinic, 1945–1956</td>
<td>4:45 PM</td>
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<tr>
<td>Dianeth Rodriguez</td>
<td>Convergent, Discriminant, and Criterion-Related Validity of the Mobility Inventory for Agoraphobia</td>
<td>5:00 PM</td>
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<tr>
<td>Danielle Barton</td>
<td>The Parent-Adolescent Relationship and Obesity: Associations between Parents’ Decision Making and Adolescents’ Responsibility for Weight Related Behaviors</td>
<td>5:15 PM</td>
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<tr>
<td>Teresa Jimenez</td>
<td>Historical Revision and Cultural Critique in Toni Morrison’s Fiction</td>
<td>5:30 PM</td>
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Monroe  

Humanities, Social Sciences, Policy and Ethics  

11:15 – 12:45

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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Time</th>
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<tbody>
<tr>
<td>Calie Edmonds</td>
<td>Race, Class, and Perceptions of the Legal System</td>
<td>11:15 AM</td>
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<tr>
<td>Yaseen Eldik</td>
<td>Islamophobia: Is She a Terrorist?</td>
<td>11:30 AM</td>
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<tr>
<td>Adrienne Conant</td>
<td>The Illusion of Control</td>
<td>11:45 AM</td>
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<tr>
<td>Gabrielle Horton</td>
<td>Decentralization or Absolute Chaos: The United Federation of Teachers and the 1968 Conflict at Ocean Hill-Brownsville</td>
<td>12:00 PM</td>
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<tr>
<td>Karina Medved</td>
<td>What You Say and How You Say It: Verbal and Non-Verbal Reactions to Discrimination Claims</td>
<td>12:15 PM</td>
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<tr>
<td>Raphaela Romero</td>
<td>Eliza Haywood’s Amatory Fiction: Sexual Violence and Gender Constraints</td>
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Andrew Hao, University of California at Berkeley  

2:45 – 4:15

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Lorenzo Lorenzo-Luaces Valencia</td>
<td>The Working Alliance in Cognitive Therapy of Depression: Reliability, Validity, and Interrelations of Patient, Therapist, and Observer Ratings</td>
<td>2:45 PM</td>
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<tr>
<td>Kiara Drake</td>
<td>Practicability and Democracy in Antonin Scalia’s Originalism and Stephen Breyer’s Living Constitutionalism</td>
<td>3:00 PM</td>
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<tr>
<td>Gabrielle Arrington</td>
<td>Nativity, Family Resources, and Health: An Analysis of Nativity Differences in Youth Smoking</td>
<td>3:15 PM</td>
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<tr>
<td>Jasmine Smith</td>
<td>Access Denied: A Study of the Relationship between Socioeconomic Status, Built Environments, and Obesity Prevalence Among Children in Los Angeles</td>
<td>3:30 PM</td>
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<tr>
<td>Helena Taye</td>
<td>David and Goliath: Under Which Political Conditions is Poverty Alleviation Plausible in African States?</td>
<td>3:45 PM</td>
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<tr>
<td>Jenna Medaris</td>
<td>Does Feeling Good Release the Emotional Brake? Positive Mood’s Influence on Social Inhibition</td>
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Sarah Gaither, Tufts University Medford  

4:30 – 5:45

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Tiffany Gray</td>
<td>Understanding Habituation as it Relates to Stress</td>
<td>4:30 PM</td>
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<tr>
<td>Lisa Ryan</td>
<td>The Relationship Between Self Confidence and Risky Behaviors In Offenders.</td>
<td>4:45 PM</td>
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<tr>
<td>Sabah Ghulamali</td>
<td>Aiding Youth: Assessing the Impact of the AIDS Epidemic on Kenyan Adolescents</td>
<td>5:00 PM</td>
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<tr>
<td>Brit’ny Hawkins</td>
<td>Fear, Threat, and Willingness to Act in Response to the Swine Flu.</td>
<td>5:15 PM</td>
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<tr>
<td>Brandon Crosby</td>
<td>The Psychological Determinants of Participation in the Political Process</td>
<td>5:30 PM</td>
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<tr>
<td>Javier Bustamante</td>
<td>Psychological Theories of Moral and Ethical Behavior</td>
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### Princeton

**Humanities, Social Sciences, Policy and Ethics**

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td><strong>Marcia Walker, University of Chicago</strong></td>
<td>11:15 – 12:45</td>
<td></td>
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<tr>
<td>Lauren Lee-Houghton</td>
<td>Does Identity Function as a Mechanism of Group Solidarity?</td>
<td>11:15 AM</td>
</tr>
<tr>
<td>Mamie Davis</td>
<td>Perception of Social Groups: A Linguistic Comparison of Collegiate Greek Organizations</td>
<td>11:30 AM</td>
</tr>
<tr>
<td>Jackson Wray</td>
<td>Identity Prototypicality: Effects of Group-based Ideologies on Intersectional Identities</td>
<td>11:45 AM</td>
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<tr>
<td>Jacqueline Larios</td>
<td>Citizens or Subjects: Colonial Algeria and the Multiplicity of French Identity, 1918–1939</td>
<td>12:00 PM</td>
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<tr>
<td>Elizabeth Sawyer</td>
<td>As He Saw Himself: Historical Perceptions and the Importance of Jacksonian Self-Concept</td>
<td>12:15 PM</td>
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<tr>
<td>Shamell Bell</td>
<td>‘Jerkin’: The Viral Construction of Aesthetics, Identity, and Movement in an Emergent Youth Dance Form</td>
<td>12:30 PM</td>
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<thead>
<tr>
<th>Presenter</th>
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<tbody>
<tr>
<td><strong>Natalie Perry, University of Virginia</strong></td>
<td>2:45 – 4:15</td>
<td></td>
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<tr>
<td>Devon Wade</td>
<td>How does Socioeconomic Status Play a Factor in Student Teacher Connectedness and Participating in Extra-Curricular Activities among Adolescents who have been Detained and does this Vary by Ethnicity?</td>
<td>2:45 PM</td>
</tr>
<tr>
<td>Precious Boone</td>
<td>Critical Pedagogy: Student-Centered Learning and the Importance of Technology in the High School Classroom</td>
<td>3:00 PM</td>
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<tr>
<td>Eugene Smith</td>
<td>Cultural and Economic Differences in Learning and Academic Performance: A Comparative Study on European American and Chinese American Children</td>
<td>3:15 PM</td>
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<tr>
<td>Candace Okello</td>
<td>Matters of the Soul: Rhetoric of the Black Intellectual</td>
<td>3:30 PM</td>
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<tr>
<td>Jessica Leonard</td>
<td>Success or Failure? The Effects of No Child Left Behind on Mississippi Elementary Schools</td>
<td>3:45 PM</td>
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<tr>
<td>Judith Landeros</td>
<td>Latina/o Youth College Aspirations and Expectations: Analyzing Student-Teacher Relationships and School Attachment</td>
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<tbody>
<tr>
<td><strong>Nicholas Everage, Brown University</strong></td>
<td>4:30 – 5:45</td>
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<tr>
<td>Philana Payton</td>
<td>Unhappily Ever After: Representations of Race, Gender and Social Mobility in Hollywood Film</td>
<td>4:30 PM</td>
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<tr>
<td>John Aragon</td>
<td>Visionaire: Creating Space for People, Pop, and Fashion</td>
<td>4:45 PM</td>
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<tr>
<td>Whyntee Forrest</td>
<td>African Americans &amp; Local Television News: A Content Analysis</td>
<td>5:00 PM</td>
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<tr>
<td>Parris Baker</td>
<td>Hip-Hop Politics and the 2008 Presidential Election</td>
<td>5:15 PM</td>
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<tr>
<td>Enmanuel Martinez</td>
<td>Acá, Allá, and Back Again: An Analysis of Repetition and Recurrence Within Junot Diaz’s “Drown” and “The Brief Wondrous Life of Oscar Wao”</td>
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### Windsor

**Humanities, Social Sciences, Policy and Ethics**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>11:15 AM</td>
<td>Vanessa Mari, University of Virginia: The Spanish Harlem Life and the Political Influence of the Young Lords as Explored by Nuyorican Novelist Writers</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>Brandon Sward, University of Virginia: Thrasymachus’ Blush: Lying and the Lawgiver in The Republic and The Laws</td>
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<tr>
<td>11:45 AM</td>
<td>Amber Spry, University of Virginia: Which Opinions Count? African Americans and Race Neutral Ballot Initiatives &amp; Outcomes</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Rosina Pradhananga, University of Virginia: Binational Efforts In Promoting Sustainable Development Through Air Pollution Reduction In Mexicali-Imperial Valley</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>Kevon Barkley, University of Virginia: An Analysis of the Fiscal Impacts of Natural Gas Drilling on Communities in the Marcellus Shale</td>
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### Eliza Buhrer, Cornell University

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>2:45 PM</td>
<td>Mae Caastillo, Cornell University: Activation of the Central Stress Circuit by Blockade of Alpha-1 adrenoceptors in the Lower Brainstem</td>
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<tr>
<td>3:00 PM</td>
<td>Carol Torres, Cornell University: Investigating Psychological Stress as a Factor that can Lead to Activation of ERK</td>
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<tr>
<td>3:15 PM</td>
<td>Yesenia Torres, Cornell University: Absence of Relation of Perceived Stress to Cognitive Function in Older Adults</td>
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<td>3:30 PM</td>
<td>Travis Alvarez, Cornell University: The Effects of Spatial and Temporal Resolution on FMRI Reward-Related Activation</td>
</tr>
<tr>
<td>3:45 PM</td>
<td>Natalie Rodriguez, Cornell University: Maternal Depression and its Effects on Boys’ and Girls’ Emotion Processing</td>
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<tr>
<td>4:00 PM</td>
<td>Jon Harvey, Cornell University: Neural Systems Regulating Anxiety-States and Anxiety-Related Behavior: The Role of Serotonergic Systems in the Dorsal Raphe Nucleus</td>
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### Kedrick Perry, University of Virginia

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<tr>
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<tbody>
<tr>
<td>4:30 PM</td>
<td>Hafsa Mohamed, University of Virginia: Seeing the Water: Racial Associations in Everyday Life</td>
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<tr>
<td>4:45 PM</td>
<td>Alexander Lobert, University of Virginia: Resource Management Behavior of Fishing Cooperatives in Baja California Sur</td>
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<tr>
<td>5:00 PM</td>
<td>CaVar Reid, University of Virginia: Ain’t No Fathers In The Hood: A Socio-Historical Analysis of of Black Male Engagement With Economic Fatherhood</td>
</tr>
<tr>
<td>5:15 PM</td>
<td>Melissa Brown, University of Virginia: Culture and Conception of Failure</td>
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<tr>
<td>5:30 PM</td>
<td>Jessica Wielgus, University of Virginia: Philanthropy: Private Action and the Public Good</td>
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### Hillsborough

**Engineering, Physical Sciences and Earth Sciences**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:15 AM</td>
<td>Victor Tumulak, University of Virginia: A Design for A Displacement Sensor on a Micro-Electrical-Mechanical System Membrane Mirror</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>Marie Steele, University of Virginia: The Nonlinear Dynamics of Decision Making</td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Natalia Vázquez, University of Virginia: Comparison of Protein and Carbohydrate Associations with Fine Particulate Matter in Sub-Alpine Aerosols from Urban Environments in Boulder, Colorado</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Kirstan Walker, University of Virginia: Low Altitude UAV Flight Control Using a Miniature Optical Flow Sensor</td>
</tr>
<tr>
<td>12:15 PM</td>
<td>Yolian Amaro-Rivera, University of Virginia: Design and Implementation of an Analog Mixer for Meteor Radar Applications</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>Joanna Ciavarella, University of Virginia: Analysis of Nucleotide Base Pairing Pattern in Wildtype and Mutated Tobacco Ech Rirus (TEV) mRNA Pseudoknot using Nuclear Magnetic Resonance Spectroscopy</td>
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### Student Oral Presentations by Room

**Ashley Crump, Princeton University**  
2:45 – 4:15

<table>
<thead>
<tr>
<th>Speaker</th>
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<tbody>
<tr>
<td>Antonella Albuja</td>
<td>Modeling and Analysis of Galaxy-15 and Relevant Geosynchronous Satellite Orbits for Potential Collision Identification</td>
<td>2:45 PM</td>
</tr>
<tr>
<td>Ashley Berryman</td>
<td>Student Achievement and the Challenges of Elementary Mathematics</td>
<td>3:00 PM</td>
</tr>
<tr>
<td>Luis Lazo del Sol</td>
<td>Magnetic Field Effects on the Biological Systems of Escheria coli and Drosophila melanogaster</td>
<td>3:15 PM</td>
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<tr>
<td>Anthony Saxon</td>
<td>The NanoCard: Development of a Nano friendly application for the iPhone 4G</td>
<td>3:30 PM</td>
</tr>
<tr>
<td>Ekundayo M Platt</td>
<td>Effectiveness of Amylase Enzyme on Stain Removal</td>
<td>3:45 PM</td>
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<tr>
<td>Eduardo Cabrera</td>
<td>Photovoltaic Panel Efficiency</td>
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**Somerville Engineering, Physical Sciences and Earth Sciences**

<table>
<thead>
<tr>
<th>Speaker</th>
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<tbody>
<tr>
<td>Alia Lubers, University of Colorado at Boulder</td>
<td>Mapping the Surface Chemistry of Heterogeneously-coated Glass using pH-sensitive Fluorophores</td>
<td>11:15 AM</td>
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<td>Florencia Paredes</td>
<td>Comparison Of Sample Preparation Methods For Scanning Electron Microscopy: Air Drying Versus Critical Point Drying</td>
<td>11:30 AM</td>
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<td>Dawson Demontiney</td>
<td>Building a Simple Fluorescence Recovery After Photobleaching (FRAP) Instrument</td>
<td>11:45 AM</td>
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<td>Kenneth Barnes</td>
<td>Novel Zn-Porphyrin Tweezer as a Circular Dichroism Sensitive Reporter of Amino Alcohol Chirality</td>
<td>12:00 PM</td>
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<tr>
<td>Yashira Negrón-Abril</td>
<td>A Decision Tree to Aid the Implementation of Linear Algebra Operations</td>
<td>12:15 PM</td>
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<tr>
<td>Jennifer Overson</td>
<td>Parameter Study of the Effect of Base Isolation on Building Response and Losses</td>
<td>12:30 PM</td>
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<tr>
<td>Gracey Morgan</td>
<td>Porphyrinoid Photophysical Studies</td>
<td>2:45 PM</td>
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<tr>
<td>Marvin Alfaro</td>
<td>Location of the Antarctic Polar Front from 4km AVHRR Satellite Sea Surface Temperature Measurements</td>
<td>3:00 PM</td>
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<tr>
<td>Christina De Jesus-Villanueva</td>
<td>Biomphalaria glabrata: A Potential Alternate Intermediate Host for Ribeiroia ondatrae</td>
<td>3:15 PM</td>
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<td>Andria Peña</td>
<td>Effect of Waste Water and Organic Compounds on Ozone Degradation Process in Drinking Water Source Before and After the Colorado Boulder Creek Treatment Plant</td>
<td>3:30 PM</td>
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<td>Will Fletcher</td>
<td>Exploring the Bilayer-modifying Potential of Limonene and Related Molecules</td>
<td>3:45 PM</td>
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<td>Chrysantus Bandon-Bibum II</td>
<td>Effects of Different Sorbents in Removing Gas-Phase H₂S, CoS, and SO₂</td>
<td>4:00 PM</td>
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<td>Student Name</td>
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<tr>
<td>Natalie Aarons Cooke</td>
<td>11:30 AM</td>
<td>Brunswick</td>
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<td>Zebib Abraham</td>
<td>4:00 PM</td>
<td>Piscataway</td>
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<td>Lauren Acevedo Molina</td>
<td>3:45 PM</td>
<td>Woodbridge</td>
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<td>Kadidia Adula</td>
<td>2:45 PM</td>
<td>Brunswick A</td>
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<td>Antonella Albuja</td>
<td>2:45 PM</td>
<td>Hillsborough</td>
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<td>Anissa Alexander</td>
<td>11:45 AM</td>
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<td>Blair Alexander Jr.</td>
<td>11:45 AM</td>
<td>Brunswick C</td>
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<td>Marvin Alfaro</td>
<td>3:00 PM</td>
<td>Somerville</td>
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<td>Time</td>
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<td>3:30 PM</td>
<td>Windsor</td>
<td>Travis Alvarez</td>
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<td>3:15 PM</td>
<td>Monroe</td>
<td>Gabrielle Arrington</td>
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<td>12:15 PM</td>
<td>Windsor</td>
<td>Yolian Amaro-Rivera</td>
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<td>4:45 PM</td>
<td>Princeton</td>
<td>John Aragon</td>
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<td>5:15 PM</td>
<td>Princeton</td>
<td>Parris Baker</td>
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<td>4:00 PM</td>
<td>Somerville</td>
<td>Chrysantus Bandon-Bibum II</td>
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<td>Student Name</td>
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<td>Kelvon Barkley</td>
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<td>Kenneth Barnes</td>
<td>11:45 AM</td>
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<td>Danielle Barton</td>
<td>5:15 PM</td>
<td>Trenton</td>
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<td>Shamell Bell</td>
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<td>Samantha Berkheimer</td>
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<td>Ashley Berryman</td>
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<td>Abigail Boateng</td>
<td>2:45 PM</td>
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<td>Joshua Borgerding</td>
<td>2:45 PM</td>
<td>Woodbridge</td>
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Diego Borrali 5:30 PM  
*Presentation Title* The Role of Nuclear Hormone Receptors Downstream of Steroid Hormone Signaling in Cell Migration in Drosophila melanogaster  
*Research Mentor* Michelle Starz-Gaiano  
*Research Institution* University of Maryland, Baltimore County  
*Home Institution* UPR-Rio Piedras  
*Co-Authors* Michelle Starz-Gaiano, University of Maryland, Baltimore County

Eric Boyer 4:00 PM  
*Presentation Title* E2F1 Knockdown in Lymphoblastoid Cell Lines  
*Research Mentor* Abhik Saha  
*Research Institution* University of Pennsylvania  
*Home Institution* Massachusetts Institute of Technology  
*Co-Authors* Erle Robertson and Abhik Saha, University of Pennsylvania

Tyler Bradstreet 5:30 PM  
*Presentation Title* A Case-Control Study Addressing Human Endogenous Retrovirus-K (HML-2) Distribution among Individuals Diagnosed with Schizophrenia  
*Research Mentor* Julia Halo-Wildschutte  
*Research Institution* Tufts University  
*Home Institution* Oregon State University  
*Co-Authors* Julia Wildeschutte and John Coffin, Tufts University School of Graduate Biomedical Sciences

Melissa Brown 5:15 PM  
*Presentation Title* Culture and Conception of Failure  
*Research Mentor* Hazel Markus  
*Research Institution* Stanford University  
*Home Institution* University of Georgia  
*Co-Authors* Hazel Markus and Alyssa Fu, Stanford University School of Humanities & Sciences

Stephanie Brown 12:00 PM  
*Presentation Title* Why Some Bacteria Make Us Sick: Using molecular biology tools to characterize potential disease causing genes in Salmonella serotypes  
*Research Mentor* Martin Wiedmann  
*Research Institution* Cornell University  
*Home Institution* Texas Woman's University  
*Co-Authors* Martin Wiedmann, Andrea Moreno Switt and Lorraine Rodriguez-Rivera, Cornell University

Jason Browne 3:30 PM  
*Presentation Title* Preovulatory Activation of GnRH Neurons in dnFGFR Transgenic Mice  
*Research Mentor* Pei-San Tsai  
*Research Institution* University of Colorado at Boulder  
*Home Institution* Wheaton College  
*Co-Authors* Johanna Rochester and Pei Tsai, University of Colorado at Boulder

Thomas Burke 4:00 PM  
*Presentation Title* Investigation of Potential Anti-aggregational Compounds for Treatment of Alzheimer's Disease  
*Research Mentor* Martin Sadowski  
*Research Institution* New York University Sackler Institute  
*Home Institution* San Jose State University  
*Co-Authors* Martin Sadowski, New York University

Javier Bustamante 5:45 PM  
*Presentation Title* Psychological Theories of Moral and Ethical Behavior  
*Research Mentor* Benoit Monin  
*Research Institution* Stanford University  
*Home Institution* Montclair State University  
*Co-Authors* Benoit Monin and Gabrielle Adams, Stanford University School of Humanities & Sciences

Eduardo Cabrera 4:00 PM  
*Presentation Title* Photovoltaic Panel Efficiency  
*Research Mentor* Dragan Maksimovic  
*Research Institution* University of Colorado at Boulder  
*Home Institution* CSU Los Angeles  
*Co-Authors* Dragan Maksimovic, University of Colorado at Boulder
Coral Cabrera-Montalvo  3:45 PM  
*Edison*

**Presentation Title:** Sequencing Nicotinic Acetylcholine Receptors CHRND and CHRNG  
**Research Mentor:** Marissa Ehringer  
**Research Institution:** University of Colorado at Boulder  
**Home Institution:** UPR-Mayaguez  
**Co-Authors:** Marissa Ehringer and Hellen Kamens, University of Colorado at Boulder

Jennifer Carcamo  3:15 PM  
*Trenton*

**Presentation Title:** Paradigms of a New Consciousness: The Case of the Contemporary Salvadoran Student Movement in the U.S. and the Implications for Transnational Latino Communities  
**Research Mentor:** Robert Shapiro  
**Research Institution:** Columbia University  
**Home Institution:** UCLA  
**Co-Authors:** Robert Shapiro, Columbia University

Diana Carrillo  3:00 PM  
*Brunswick A*

**Presentation Title:** Inducible Motor Neuron Death in Mice as a Genetic Model of Early Motor Neuron Disease  
**Research Mentor:** Angela Christiano  
**Research Institution:** Columbia University  
**Home Institution:** Hunter College  
**Co-Authors:** Victor Luria and Angela Christiano, Columbia University

Mae Castillo  2:45 PM  
*Windsor*

**Presentation Title:** Activation of the Central Stress Circuit by Blockade of Alpha-1 adrenoceptors in the Lower Brainstem  
**Research Mentor:** Kenneth Carr  
**Research Institution:** New York University Sackler Institute  
**Home Institution:** Haverford College  
**Co-Authors:** Eric Stone, Yasmine Safraz and Yan Lin, New York University

Stephanie Chan  2:45 PM  
*Edison*

**Presentation Title:** Comparative Biochemical Analysis of Amyloid Beta Fragments in Alzheimer’s Human and Transgenic Mice Brains  
**Research Mentor:** Jorge Ghiso  
**Research Institution:** New York University Sackler Institute  
**Home Institution:** University of Maryland, Baltimore County  
**Co-Authors:** Farron McIntee, Thomas Neubert and Jorge Ghiso, New York University

Joanna Ciavarella  12:30 PM  
*Hillsborough*

**Presentation Title:** Analysis of Nucleotide Base Pairing Pattern in Wildtype and Mutated Tobacco Ech Rirus (TEV) mRNA Pseudoknot using Nuclear Magnetic Resonance Spectroscopy  
**Research Mentor:** Nancy Greenbaum  
**Research Institution:** Hunter College  
**Home Institution:** Wagner College  
**Co-Authors:** Dixie Goss and Nancy Greenbaum, Hunter College

Michael Clark  3:00 PM  
*Piscataway*

**Presentation Title:** ALDH7A1 in Superficial-Spreading and Nodular Melanoma  
**Research Mentor:** Imran Osman  
**Research Institution:** New York University Sackler Institute  
**Home Institution:** University of North Carolina Chapel Hill  
**Co-Authors:** Laura Poliseno and Imran Osman, New York University

Adrienne Conant  11:45 AM  
*Monroe*

**Presentation Title:** The Illusion of Control  
**Research Mentor:** Laurie Santos  
**Research Institution:** Yale University  
**Home Institution:** CSU Fullerton  
**Co-Authors:** Laurie Santos, Yale University

Devin Cooper  12:00 PM  
*Brunswick A*

**Presentation Title:** The Roles of the RUNX 1-56 and RUNX 388X Mutations in Acute Myelogenous Leukemia (AML)  
**Research Mentor:** Lucy Godley  
**Research Institution:** University of Chicago  
**Home Institution:** Washington and Lee University  
**Co-Authors:** Lucy Godley and Jozef Madzo, University of Chicago

Nicolas Cordero  5:30 PM  
*Edison*

**Presentation Title:** Mechanism of p53-independent Apoptosis in Drosophila  
**Research Mentor:** Tin Tin Su  
**Research Institution:** University of Colorado at Boulder  
**Home Institution:** Cornell University  
**Co-Authors:** Tin Tin Su, Lyle Uyetake and Petra van Bergeijk, University of Colorado at Boulder
Joel Crespo 2:45 PM
Piscataway
Presentation Title Effects on Chemokine Expression upon Stimulation of Cancer Cells by Pro-Inflammatory Cytokines
Research Mentor Yvonne Paterson
Research Institution University of Pennsylvania
Home Institution UPR-Rio Piedras
Co-Authors Yvonne Paterson and Patrick Guirnalda, University of Pennsylvania

Brandon Crosby 5:30 PM
Monroe
Presentation Title The Psychological Determinants of Participation in the Political Process
Research Mentor Brian Lowery
Research Institution Stanford University
Home Institution Morehouse College
Co-Authors Brian Lowery and Rebecca Schauberg, Stanford University School of Humanities & Sciences

Tiffany Cummings 5:30 PM
Brunswick B
Presentation Title The Function of rps28 in Mediating Translational Accuracy in Yeast
Research Mentor Philip Farabaugh
Research Institution University of Maryland, Baltimore County
Home Institution Central State University
Co-Authors Susmitha Suresh and Philip J. Farabaugh, University of Maryland, Baltimore County

John Dankert 12:30 PM
Brunswick A
Presentation Title The Role of KLF4 in miR-182 Cluster Expression and Melanoma Progression
Research Mentor Eva Hernando
Research Institution New York University Sackler Institute
Home Institution Rochester Institute of Technology
Co-Authors Miguel F. Segura and Eva Hernando, New York University

Mamie Davis 11:30 AM
Princeton
Presentation Title Perception of Social Groups: A Linguistic Comparison of Collegiate Greek Organizations
Research Mentor Poppy McLeod
Research Institution Cornell University
Home Institution Clafin University
Co-Authors Poppy McLeod and Jing Guo, Cornell University

Christina De Jesus-Villanueva 3:15 PM
Somerville
Presentation Title Biomphalaria glabrata: A Potential Alternate Intermediate Host for Ribeiroia ondatrae
Research Mentor Pieter Johnson
Research Institution University of Colorado at Boulder
Home Institution UPR-Humacao
Co-Authors Pieter Johnson and Miranda Redmond, University of Colorado at Boulder

Ivan de Kouchkovsky 12:00 PM
Piscataway
Presentation Title Multiple Sclerosis and Sodium Magnetic Resonance Imaging at 7 Tesla
Research Mentor Matilde Inglese
Research Institution New York University Sackler Institute
Home Institution UC Berkeley
Co-Authors Matilde Inglese and Lazar Fleysher, New York University

Matthew DeMars 4:30 PM
Edison
Presentation Title ART-27: A Cofactor of the Androgen Receptor whose Role as a Tumor Suppressor may be Altered or Nonfunctional in Prostate Cancer Cells
Research Mentor Michael Garabedian
Research Institution New York University Sackler Institute
Home Institution University of Rochester
Co-Authors Michael J. Garabedian and Keren Imberg, New York University

Dawson Demontiney 11:30 AM
Somerville
Presentation Title Comparison Of Sample Preparation Methods For Scanning Electron Microscopy: Air Drying Versus Critical Point Drying
Research Mentor Linda Loetterle
Research Institution Montana State University -Bozeman
Home Institution Stone Child College
Co-Authors Linda Loetterle, Montana State University

Kenneth Disbrow 3:15 PM
Boardroom II
Presentation Title The Interactions Between Streptococcus Pneumoniae and Corynebacterium
Research Mentor Melinda Pettigrew
Research Institution Yale University
Home Institution Rutgers University
Co-Authors Melinda Pettigrew, Yale University
Mytrang Do 11:45 AM
Boardroom II
Presentation Title Identifying Regulatory Elements for Microrna-9 Expression and Investigating the Function of Microrna-9 in Neural Development
Research Mentor Gaizka Otaegui
Research Institution Weill Cornell Medical College
Home Institution Louisiana State University-Baton Rouge
Co-Authors Gaizka Otaegui and Tao Sun, Weill Cornell Medical College

Aaron Dolor 2:45 PM
Somerville
Presentation Title Porphyrinoid Photophysical Studies
Research Mentor Charles Drain
Research Institution Hunter College
Home Institution Hunter College
Co-Authors Charles Drain, Hunter College

Jessica Douthit 4:00 PM
Woodbridge
Presentation Title Do Patient Antibodies in anti-NMDA Receptor Encephalitis Bind Preferentially to the Hippocampus?
Research Mentor Rita Balice-Gordon
Research Institution University of Pennsylvania
Home Institution Temple University
Co-Authors Rita Balice-Gordon, University of Pennsylvania

Jordan Dow 12:15 PM
Edison
Presentation Title Visual Cycle Defects in Drosophila Lead To Retinal Degeneration
Research Mentor Craig Montell
Research Institution Johns Hopkins University
Home Institution Morehouse College
Co-Authors Craig Montell and Xiaoyue Wang, Johns Hopkins University

Kiara Drake 3:00 PM
Monroe
Presentation Title Practicability and Democracy in Antonin Scalia’s Originalism and Stephen Breyer’s Living Constitutionalism
Research Mentor Aziz Rana
Research Institution Cornell University
Home Institution Claflin University
Co-Authors Aziz Rana, Cornell University

Ijeoma Eboh 4:45 PM
Trenton
Presentation Title Race, Psychology, and Sexual Activity at Harlem’s Lafargue Clinic, 1945-1956
Research Mentor Samuel Roberts
Research Institution Columbia University
Home Institution Hampton University
Co-Authors Samuel Roberts, Columbia University

Calie Edmonds 11:15 AM
Monroe
Presentation Title Race, Class, and Perceptions of the Legal System
Research Mentor Valerie Purdie-Vaughns
Research Institution Columbia University
Home Institution North Carolina A&T State University
Co-Authors Valerie Purdie-Vaughns, Columbia University

Yaseen Eldik 11:30 AM
Monroe
Presentation Title Islamaphobia: Is She a Terrorist?
Research Mentor Aisha M. Beliso-De Jesús
Research Institution Harvard University
Home Institution SUNY Stony Brook
Co-Authors Aisha M. Beliso-De Jesús, Harvard University

Courtney Ensslin 3:45 PM
Brunswick B
Presentation Title Direct PCR of Laser Capture Microdissected Sperm Cells from Mock Sexual Assault Evidence
Research Mentor Grace Axler-Diperte
Research Institution New York University Sackler Institute
Home Institution University of Notre Dame
Co-Authors Grace Axler-Diperte and Zoran Budimlija, Office of the Chief Medical Examiner

Charles Farmer 5:30 PM
Piscataway
Presentation Title Mutation in MEKK1 Gene Affects Male Development Pathway
Research Mentor Harry Ostrer
Research Institution New York University Sackler Institute
Home Institution Seton Hall University
Co-Authors Harry Ostrer, Alexander Pearlman and Johnny Loke, New York University
Marie Feliciano 5:30 PM  
**Boardroom II**  
**Presentation Title** Mechanism of MDP Translocation to the Cytosol  
**Research Mentor** Sergio Trombetta  
**Research Institution** New York University Sackler Institute  
**Home Institution** UPR-Mayaguez  
**Co-Authors** Sergio Trombetta and Sebastián Fleire, New York University

Joel Fernandez 4:45 PM  
**Edison**  
**Presentation Title** The Role of the Complexin C-terminus in the Regulation of Neurotransmitter Release  
**Research Mentor** Jeremy Dittman  
**Research Institution** Weill Cornell Medical College  
**Home Institution** Yale University  
**Co-Authors** Jeremy Dittman and Katherine Fenz, Weill Cornell Medical College

Zoila Fernandez 4:45 PM  
**Woodbridge**  
**Presentation Title** Uracil Derivative Induced cAMP Production in Red Cell Blood Stage of Plasmodium falciparum  
**Research Mentor** Lonny Levin  
**Research Institution** Weill Cornell Medical College  
**Home Institution** Emory University  
**Co-Authors** Lonny Levin, Nicole Ramsey and Eric Salazar, Weill Cornell Medical College

Meilín Fernández García 11:45 AM  
**Brunswick B**  
**Presentation Title** Characterization of Beta-spectrin Mutations in the Tetramerization Site Associated with Hereditary Hemolytic Anemia  
**Research Mentor** David Speicher  
**Research Institution** University of Pennsylvania  
**Home Institution** UPR-Rio Piedras  
**Co-Authors** David Speicher and Sandy Harper, University of Pennsylvania

Erica Ferreris 12:15 PM  
**Boardroom II**  
**Presentation Title** Chromatin Regulatory Factors Involved in the Response to Wnt Signaling after the Midblastula Transition  
**Research Mentor** Peter Klein  
**Research Institution** University of Puerto Rico at Mayaguez  
**Home Institution** University of Pennsylvania  
**Co-Authors** Shelby Blythe and Peter Klein, University of Pennsylvania

Kevin Fidelin 4:30 PM  
**Piscataway**  
**Presentation Title** Mechanism of Misfolded Rhodopsin Degradation from the Endoplasmic Reticulum  
**Research Mentor** Hyung Don Ryoo  
**Research Institution** New York University Sackler Institute  
**Home Institution** University of Pennsylvania  
**Co-Authors** Hyung Don Ryoo, New York University

Fatimah Finney 2:45 PM  
**Brunswick B**  
**Presentation Title** Does Alternative Splicing of a Neuronal Calcium Channel Influence the Effect of Morphine Analgesia on Inflammatory Pain?  
**Research Mentor** Diane Lipscombe  
**Research Institution** Brown University  
**Home Institution** Trinity College  
**Co-Authors** Diane Lipscombe and Yu-Qiu Jiang, Brown University

Will Fletcher 3:45 PM  
**Somerville**  
**Presentation Title** Exploring the Bilayer-modifying Potential of Limonene and Related Molecules  
**Research Mentor** Olaf Andersen  
**Research Institution** Weill Cornell Medical College  
**Home Institution** Pomona College  
**Co-Authors** Olaf Andersen, Weill Cornell Medical College

Whytnee Foriest 5:00 PM  
**Princeton**  
**Presentation Title** African Americans & Local Television News: A Content Analysis  
**Research Mentor** Devah Pager  
**Research Institution** Princeton University  
**Home Institution** Hampton University  
**Co-Authors** Devah Pager, Princeton University
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<tr>
<th>Name</th>
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<th>Presentation Title</th>
<th>Research Mentor</th>
<th>Research Institution</th>
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<th>Co-Authors</th>
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<td>Meghan Francis</td>
<td>12:15 PM</td>
<td>Brunswick C</td>
<td>Genetic Analysis of the CpG Hyporesponse in MOLF/Ei Mice</td>
<td>Alexander Poltorak</td>
<td>Tufts University</td>
<td>West Liberty University</td>
<td>Alexander Poltorak and Annie Moseman, Tufts University School of Graduate Biomedical Sciences</td>
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<td>Michele Gomez</td>
<td>3:15 PM</td>
<td>Brunswick B</td>
<td>Ubiquitin Carboxy-Terminal Hydrolase L1: Roles at the Synapse</td>
<td>Julie Canman</td>
<td>University of Pennsylvania</td>
<td>University of North Texas</td>
<td>Sreeganga Chandra, Yale University</td>
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<td>Alejandro Gonzalez</td>
<td>12:15 PM</td>
<td>Piscataway</td>
<td>Testing the Relationship between Embryo and Organism Size: Implications for Primordial Dwarfism</td>
<td>Julie Canman</td>
<td>Columbia University</td>
<td>University of Colorado at Boulder</td>
<td>Julie Canman, Columbia University</td>
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<td>Sabah Ghulamali</td>
<td>5:00 PM</td>
<td>Monroe</td>
<td>Aiding Youth: Assessing the Impact of the AIDS Epidemic on Kenyan Adolescents</td>
<td>Susan Short</td>
<td>Brown University</td>
<td>University of Colorado at Boulder</td>
<td>Susan Short and Nancy Luke, Brown University</td>
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<td>Tiffany Gray</td>
<td>4:30 PM</td>
<td>Monroe</td>
<td>Understanding Habituation as it Relates to Stress</td>
<td>Heidi Day</td>
<td>University of Colorado at Boulder</td>
<td>Metropolitan State College of Denver</td>
<td>Serge Campeau, Heidi Day and Cher Masini, University of Colorado at Boulder</td>
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<td>Michelle Haring</td>
<td>12:15 PM</td>
<td>Brunswick A</td>
<td>Genetic Variation at CD36 and its Role in Malaria Susceptibility and Resistance</td>
<td>Sarah Tishkoff</td>
<td>University of Pennsylvania</td>
<td>University of Wisconsin River Falls</td>
<td>Felicia Gomez and Sarah Tishkoff, University of Pennsylvania</td>
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<td>Jon Harvey</td>
<td>4:00 PM</td>
<td>Windsor</td>
<td>Neural Systems Regulating Anxiety-States and Anxiety-Related Behavior: The Role of Serotonergic Systems in the Dorsal Raphe Nucleus</td>
<td>Chris Lowry</td>
<td>University of Colorado at Boulder</td>
<td>University of Evansville</td>
<td>Matthew Hager and Christopher Lowry, University of Colorado at Boulder</td>
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Asante Hatcher 12:00 PM  
_Brunswick B_  
**Presentation Title** Characterization of the 100N Zebrafish Mutant  
**Research Mentor** Pamela Yelick  
**Research Institution** Tufts University  
**Home Institution** University of Maryland, Baltimore County  
**Co-Authors** Yann Gilbert, Victoria Lattanzi and Pamela Yelick, Tufts University School of Graduate Biomedical Sciences

Brit'ny Hawkins 5:15 PM  
_Monroe_  
**Presentation Title** Fear, Threat, and Willingness to Act in Response to the Swine Flu  
**Research Mentor** Angela Cole  
**Research Institution** Howard University  
**Home Institution** Spelman College  
**Co-Authors** Angela P. Cole, Howard University

Charles Hayes IV 5:15 PM  
_Brunswick A_  
**Presentation Title** Does Endothelial Cell Specific Adhesion Molecule (ESAM) Regulate Rho Activation in Platelets?  
**Research Mentor** Lawrence Brass  
**Research Institution** University of Pennsylvania  
**Home Institution** Morehouse College  
**Co-Authors** Timothy Stalker, University of Pennsylvania

Adena Hernandez 11:30 AM  
_Brunswick B_  
**Presentation Title** Epigenetic Shifts in Gene Expression Mediating Transformation to Hepatocellular Carcinoma in a Transgenic Mouse Model  
**Research Mentor** Suzanne de la Monte  
**Research Institution** Brown University  
**Home Institution** Williams College  
**Co-Authors** Suzanne de la Monte and Mashiko Setshedi, Brown University

Liz Hernandez 5:00 PM  
_Brunswick B_  
**Presentation Title** The role of Membrane Proximal FNIII Domains in Receptor Tyrosine Kinases  
**Research Mentor** Kathryn Ferguson  
**Research Institution** University of Pennsylvania  
**Home Institution** UPR-Rio Piedras  
**Co-Authors** Kathryn Ferguson and Jason Moore, University of Pennsylvania

Courtney Hobson 11:30 AM  
_Trenton_  
**Presentation Title** Propaganda and the Popish Plot of 1678: The Case of Roger L’Estrange  
**Research Mentor** Rachel Weil  
**Research Institution** Cornell University  
**Home Institution** Bowie State University  
**Co-Authors** Rachel Weil, Cornell University

Gabrielle Horton 12:00 PM  
_Monroe_  
**Presentation Title** Decentralization or Absolute Chaos: The United Federation of Teachers and the 1968 Conflict at Ocean Hill-Brownsville  
**Research Mentor** Steven Mintz  
**Research Institution** Columbia University  
**Home Institution** Tufts University Medford  
**Co-Authors** Steven Mintz, Columbia University

Denisse Izquierdo 3:00 PM  
_Edison_  
**Presentation Title** Role of Epidermal Growth Factor (EGF) in Regulating Expression of the Pro-survival Factor, Survivin, in Pancreatic Beta Cells  
**Research Mentor** Rachel Altura  
**Research Institution** Brown University  
**Home Institution** Barnard College  
**Co-Authors** Zachary Cooper and Rachel Altura, Brown University

Leonard Jarzebowskii 12:30 PM  
_Boardroom II_  
**Presentation Title** Beyond Guidance: Semaphorin-PlexinD1 Signaling Modulates Angiogenic Potential  
**Research Mentor** Jesús Torres Vázquez  
**Research Institution** New York University Sackler Institute  
**Home Institution** New York University  
**Co-Authors** Jesús Torres-Vázquez, Carl M. Gay and Tomasz Zygmunt, New York University

Teresa Jimenez 5:30 PM  
_Trenton_  
**Presentation Title** Historical Revision and Cultural Critique in Toni Morrison’s Fiction  
**Research Mentor** Paula Moya  
**Research Institution** Stanford University  
**Home Institution** UC Berkeley  
**Co-Authors** Paula Moya, Stanford University School of Humanities & Sciences
Andrew Johnston 4:45 PM
Brunswick A
Presentation Title The Role of SCML2 in Cell Cycle Regulation
Research Mentor Danny Reinburg
Research Institution New York University Sackler Institute
Home Institution Cornell University
Co-Authors Emilio Lecona and Danny Reinburg, New York University

Ashley Jordan 11:15 AM
Piscataway
Presentation Title Gene Suicide Therapy: Induced Cell Death of Ovarian Cancer Cells via Toxic Transfection Agents
Research Mentor Nathalie Scholler
Research Institution University of Pennsylvania
Home Institution Spelman College
Co-Authors Nathalie Scholler and Andrew Prantner, University of Pennsylvania

Divya Krishnamoorthy 11:15 AM
Woodbridge
Presentation Title Analyzing Bone Phenotypes in Early B-Cell Factor 1-Deficient Mesenchymal Stem Cells
Research Mentor Mark Horowitz
Research Institution Yale University
Home Institution Carnegie Mellon University
Co-Authors Mark Horowitz and Jackie Fretz, Yale University

Judith Landeros 4:00 PM
Princeton
Presentation Title Latina/o Youth College Aspirations and Expectations: Analyzing Student-Teacher Relationships and School Attachment
Research Mentor Deborah Rivas-Drake
Research Institution Brown University
Home Institution Northwestern University
Co-Authors Deborah Rivas-Drake, Brown University

Jacqueline Larios 12:00 PM
Princeton
Presentation Title Citizens or Subjects: Colonial Algeria and the Multiplicity of French Identity, 1918-1939
Research Mentor Derek Vanderpool
Research Institution Stanford University
Home Institution UC Berkeley
Co-Authors Derek Vanderpool, Stanford University School of Humanities & Sciences

Aloysus Lawong 4:30 PM
Boardroom II
Presentation Title Structural And Thermodynamic Characterization Of Fis1 Mutants Known To Disrupt Mitochondrial Fission
Research Mentor Blake Hill
Research Institution Johns Hopkins University
Home Institution Cleveland State University
Co-Authors Blake Hill, Jonathan Lees and David Park, Johns Hopkins University

Luis Lazo del Sol 3:15 PM
Hillsborough
Presentation Title Magnetic Field Effects on the Biological Systems of Escheria coli and Drosophila melanogaster
Research Mentor Frank Barnes
Research Institution University of Colorado at Boulder
Home Institution Brown University
Co-Authors Frank Barnes and Lucas Portelli, University of Colorado at Boulder

Lauren Lee-Houghton 11:15 AM
Princeton
Presentation Title Does Identity Function as a Mechanism of Group Solidarity? A Critical Analysis of Group Solidarity
Research Mentor Angel Harris
Research Institution Princeton University
Home Institution Duke University
Co-Authors Angel Harris, Princeton University

Jessica Leonard 3:45 PM
Princeton
Presentation Title Success or Failure? The Effects of No Child Left Behind on Mississippi Elementary Schools
Research Mentor Robert Shapiro
Research Institution Columbia University
Home Institution Tuskegee University
Co-Authors Robert Shapiro, Columbia University

Roman Liera 4:30 PM
Trenton
Presentation Title An Analysis of the Roles of Coping Beliefs and Person Factors in H1N1 Vaccination Decisions
Research Mentor Angela Cole
Research Institution Howard University
Home Institution San Diego State University
Co-Authors Angela P. Cole, Howard University
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<td>Max Liu</td>
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<td>Presentation Title</td>
<td>Metalloproteases and Cell Signaling: a Novel Target for Cancer Therapy</td>
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<td>Presentation Title</td>
<td>Investigation of Caspase-3 And Its Role In Reo-virus Induced Apoptosis and Mu1 Cleavage</td>
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<td>Presentation Title</td>
<td>Dynamic Function of Ca2+-ATPase SPCA2 and TRP Ion Channels in Breast Cancer</td>
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<td>Resource Management Behavior of Fishing Cooperatives in Baja California Sur</td>
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<td>The Working Alliance in Cognitive Therapy of Depression: Reliability, Validity, and Interrelations of Patient, Therapist, and Observer Ratings</td>
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<td>Capture and Selective Elution of Microbial Cells in Clinical Fluids by Absorption of Chitosan Coated Silica Particles</td>
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<td>Synthesis of Structurally-Diverse SAM Analogues and Their Reactivity as Potential SAM Analogue Cofactors</td>
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<td>Minkui Luo, Kabirul Islam and Weihong Zhang, Memorial Sloan-Kettering Cancer Center</td>
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<td>David Grusky and Rachel Lindenberg, Stanford University School of Humanities &amp; Sciences</td>
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Adriana Manrique 5:15 PM  
*Woodbridge*

**Presentation Title** Spatial Variation of Attack Rate across Sites and Plant Density of Biological Control Agent Mecinus janthinus on Linaria dalmatica  
**Research Mentor** Tim Seastedt  
**Research Institution** University of Colorado at Boulder  
**Home Institution** Arizona State University  
**Co-Authors** Timothy Seastedt, University of Colorado at Boulder

Vanessa Mari 11:15 AM  
*Windsor*

**Presentation Title** The Spanish Harlem Life and the Political Influence of the Young Lords as Explored by Nuyorican Novelist Writers  
**Research Mentor** Mary Pat Brady  
**Research Institution** Cornell University  
**Home Institution** UPR-Mayaguez  
**Co-Authors** Mary Pat Brady, Cornell University

Schuyler Marquez 4:00 PM  
*Trenton*

**Presentation Title** Citizenship versus Cultural Belonging: Defining Integration of Muslims in Denmark  
**Research Mentor** Andrew March  
**Research Institution** Yale University  
**Home Institution** Mount Holyoke College  
**Co-Authors** Andrew March, Yale University

Enmanuel Martinez 5:30 PM  
*Princeton*

**Presentation Title** Acá, Allá, and Back Again: An Analysis of Repetition and Recurrence Within Junot Díaz’s “Drown” and The Brief Wondrous Life of Oscar Wao  
**Research Mentor** José David Saldivar  
**Research Institution** Stanford University  
**Home Institution** University of Pennsylvania  
**Co-Authors** José David Saldivar, Stanford University School of Humanities Sciences

Francisco Mesoras 5:00 PM  
*Brunswick A*

**Presentation Title** The Effect of the Interaction Between Aggrecan, Aggrecanase, and Aggrecanase Inhibitors on Hydroxyapatite Formation in a Gel System  
**Research Mentor** Rhima Coleman  
**Research Institution** Weill Cornell Medical College  
**Home Institution** CSU San Marcos  
**Co-Authors** Adele Boskey, Rhima Coleman and Hyat Taleb, Hospital for Special Surgery

Mirna Martinez 4:45 PM  
*Boardroom II*

**Presentation Title** Mpl Signaling Induced by Different ligands in Various Thrombopoietic Disorders  
**Research Mentor** Weit Tong  
**Research Institution** University of Pennsylvania  
**Home Institution** Howard University  
**Co-Authors** Wei Tong, Jing Jiang and Chao Wu, University of Pennsylvania

Victoria McBride 3:30 PM  
*Trenton*

**Presentation Title** Convert or Coexist: Catholic Ecumenism Efforts After Vatican II  
**Research Mentor** Richard Rosengarten  
**Research Institution** University of Chicago  
**Home Institution** University of Notre Dame  
**Co-Authors** Richard Rosengarten, University of Chicago

Jenna Medaris 4:00 PM  
*Monroe*

**Presentation Title** Does Feeling Good Release the Emotional Brake? Positive Mood’s Influence on Social Inhibition  
**Research Mentor** June Gruber  
**Research Institution** Yale University  
**Home Institution** Mount Holyoke College  
**Co-Authors** Margaret Clark and June Gruber, Yale University

Karina Medved 12:15 PM  
*Monroe*

**Presentation Title** What You Say and How You Say It: Verbal and Non-Verbal Reactions to Discrimination Claims  
**Research Mentor** Keith Maddox  
**Research Institution** Tufts University Medford  
**Home Institution** San Diego State University  
**Co-Authors** Ana Ivelisse Sanchez-Rivera, Hannah Dolberg Barrett and Jennifer R. Schultz, Tufts University

Olivia Mesoras 12:30 PM  
*Brunswick C*

**Presentation Title** Cloning and Expressing Lymphotactin in B16 Melanoma  
**Research Mentor** Tom Gajewski  
**Research Institution** University of Chicago  
**Home Institution** Allegheny College  
**Co-Authors** Thomas J. Gajewski and Robbert Spaapen, University of Chicago
Sonia Metangmo 3:30 PM
Woodbridge
**Presentation Title** The Presentation of Plasmodium Antigen by Splenic Dendritic Cells
**Research Mentor** Fidel Zavala
**Research Institution** Johns Hopkins University
**Home Institution** University of Maryland, Baltimore County
**Co-Authors** Fidel Zavala and Andrea Radtke, Johns Hopkins University

Malcolm Moise 5:00 PM
Boardroom II
**Presentation Title** The Roles of PALB2 and RPA Phosphorilation in the Cellular Response to Replication Stress
**Research Mentor** James Borowiec
**Research Institution** New York University Sackler Institute
**Home Institution** Xavier University of Louisiana
**Co-Authors** James Borowiec and Ana Murphy, New York University

Ranjan Mishra 4:45 PM
Brunswick B
**Presentation Title** 5’ Pyrophosphate Removal from RNA by RNA Pyrophosphohydrolase (RppH)
**Research Mentor** Joel Belasco
**Research Institution** New York University Sackler Institute
**Home Institution** Jacobs University Bremen
**Co-Authors** Joel G. Belasco and Dan Luciano, New York University

Angeline Mole 3:45 PM
Piscataway
**Presentation Title** Analysis of Hepcidin in Human Serum
**Research Mentor** Jonathan Kurtis, MD, PhD
**Research Institution** Brown University
**Home Institution** Clalin University
**Co-Authors** Jonathan Kurtis and Ling Cheng, Brown University

Andreas Mitchell 3:45 PM
Brunswick C
**Presentation Title** Affinity Labeling of the Mu Opioid Receptor with a Novel Radioligand: Structural Analysis
**Research Mentor** Gavril Pasternak
**Research Institution** Weill Cornell Medical College
**Home Institution** Washington University in St. Louis
**Co-Authors** Stacy Stabler and Gavril Pasternak, Memorial Sloan-Kettering Cancer Center

Jose Montoyo-Rosario 3:30 PM
Edison
**Presentation Title** The Role of KDM5 Family of Demethylases in Heterochromatin Formation
**Research Mentor** Gregory David
**Research Institution** New York University Sackler Institute
**Home Institution** UPR-Mayaguez
**Co-Authors** Jessica Pellegrino, Teresa DiMauro and Gregory David, New York University

Fei Yan Mock 11:30 AM
Boardroom II
**Presentation Title** Exploring the Role of apl-1 Gene on Developmental Timing of C. elegans
**Research Mentor** Frank Slack
**Research Institution** Yale University
**Home Institution** Hunter College
**Co-Authors** Frank Slack and Chanatip Metheetairut, Yale University

Veronica Morales 11:15 AM
Trenton
**Presentation Title** Mexican-American Storytelling and Theater: The Shrunken Head of Pancho Villa’s Influence on Political Movements
**Research Mentor** Martha Sandweiss
**Research Institution** Princeton University
**Home Institution** Northwestern University
**Co-Authors** Martha Sandweiss, Princeton University

Hafsa Mohamed 4:30 PM
Windsor
**Presentation Title** Seeing the Water: Racial Associations in Everyday Life
**Research Mentor** Jennifer Eberhardt
**Research Institution** Stanford University
**Home Institution** San Diego Mesa College
**Co-Authors** Jennifer Eberhardt and Mar’Yam Hamedami, Stanford University School of Humanities & Sciences

Gracey Morgan 12:30 PM
Somerville
**Presentation Title** Parameter Study of the Effect of Base Isolation on Building Response and Losses
**Research Mentor** Abbie Liel
**Research Institution** University of Colorado at Boulder
**Home Institution** Mississippi State University
**Co-Authors** Abbie Liel, University of Colorado at Boulder
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<td>Tiara Moultrie</td>
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<td>Peons Multiply Like Rabbits: Rhetoric, Power and the Adoption of Preventive Agencies in Mexico, 1920-1940</td>
<td>Samuel Roberts</td>
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<td>Lauren Moyer</td>
<td>11:30 AM</td>
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<td>A Mechanistic Study of HPV Integration</td>
<td>Jianxin You</td>
<td>University of Pennsylvania</td>
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<td>Enhancing the Antigenicity of Neutralizing Epitopes on HIV Envelope gp120 Immune Complex</td>
<td>Catarina Hioe</td>
<td>New York University Sackler Institute</td>
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<td>Yashira Negron-Abril</td>
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<td>Somerville</td>
<td>Novel Zn-Porphyrin Tweezer as a Circular Dichroism Sensitive Reporter of Amino Alcohol Chirality</td>
<td>Nina Berova</td>
<td>Columbia University</td>
<td>UPR-Rio Piedras</td>
<td>Nina Berova and Ana Petrovic, Columbia University; Ghislaine Vantomme, Ecole Normale Superieure de Cachan</td>
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<td>Thang Nguyen</td>
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<td>The Effect of Peptides BPI-BP16 for In-vitro Inhibition of HIV-1 Tat/TAR Interaction Using a Firefly Luciferase Expression Assay</td>
<td>David Rekosh</td>
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<td>The Role of a-1 Adrenergic Receptors in Mediating Exosomal eHsp72 Expression</td>
<td>Monika Fleshner</td>
<td>University of Colorado at Boulder</td>
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<td>Ezinne Nwankwo</td>
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<td>Effect of Naphthoquinone Derivatives on Trypanosoma cruzi</td>
<td>Clarence Lee</td>
<td>Howard University</td>
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<td>Forensic Perspectives on Tissue Mosaicism in Transplant Patients: Case Studies</td>
<td>Grace Axler-Diperte</td>
<td>New York University Sackler Institute</td>
<td>University of Texas at Austin</td>
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<td>Matters of the Soul: Rhetoric of the Black Intellectual</td>
<td>Debyii Thomas</td>
<td>Howard University</td>
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<td>Protein Expression in Native Neuronal Cells vs. Differentiation-Guided Embryonic Stem Cells in Mouse Model</td>
<td>Mary-Beth Hatten</td>
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<td>Immigrant Integration in the United States</td>
<td>Tomás Jiménez</td>
<td>Stanford University</td>
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<td>A Decision Tree to Aid the Implementation of Linear Algebra Operations</td>
<td>Elizabeth Jessup</td>
<td>University of Colorado at Boulder</td>
<td>Oregon State University</td>
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<td>Minority Social Influence in Intergroup Interactions</td>
<td>Stacey Sinclair</td>
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<td>A Comparison of Wound Healing in Aged and Pediatric Human Skin</td>
<td>Diane Felsen</td>
<td>Weill Cornell Medical College</td>
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<td>Genetic Analysis of E. coli Mutants Resistant to Rho Overproduction</td>
<td>Max Gottesman</td>
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<td>Unhappily Ever After: Representations of Race, Gender and Social Mobility in Hollywood Film</td>
<td>Montre Missouri</td>
<td>Howard University</td>
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<td>Janell Payano Sosa</td>
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<td>Brunswick C</td>
<td>The Role of the Vomeronasal Organ in Fear and Aggression in Mice</td>
<td>Tatsuya Ogura</td>
<td>University of Maryland, Baltimore County</td>
<td>Kutztown University</td>
<td>Weihong Lin and Kurt Krosnowski, University of Maryland, Baltimore County</td>
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<td>Philana Payton</td>
<td>4:30 PM</td>
<td>Princeton</td>
<td>Unhappily Ever After: Representations of Race, Gender and Social Mobility in Hollywood Film</td>
<td>Montre Missouri</td>
<td>Howard University</td>
<td>Claflin University</td>
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<td>Andrea Peña</td>
<td>3:30 PM</td>
<td>Somerville</td>
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<td><strong>Presentation Title</strong></td>
<td>Effect of Waste Water and Organic Compounds on Ozone Degradation Process in Drinking Water Source Before and After the Colorado Boulder Creek Treatment Plant</td>
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<td><strong>Research Mentor</strong></td>
<td>Fernando Rosario-Ortiz</td>
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<td><strong>Co-Authors</strong></td>
<td>Fernando Rosario and Sarah Gonzales, University of Colorado at Boulder</td>
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| Matthew Pimentel | 3:15 PM| Woodbridge |
| **Presentation Title** | The Role of T Cell Receptor Signal Strength in Regulatory T Cell Development |
| **Research Mentor** | Gary Koretzky |
| **Research Institution** | University of Pennsylvania |
| **Home Institution** | UCLA |
| **Co-Authors** | Tao Zou and Gary A. Koretzky, University of Pennsylvania |

| Alexandra Pinzaru | 11:30 AM| Brunswick A |
| **Presentation Title** | The Role of H3K9 Methylation in Gene Activation by Nuclear Hormone Receptors |
| **Research Mentor** | Herbert Samuels |
| **Research Institution** | New York University Sackler Institute |
| **Home Institution** | New York University |
| **Co-Authors** | Herbert Samuels, New York University |

| Daniel Pique      | 3:15 PM| Brunswick A |
| **Presentation Title** | Three-Dimensional Reconstruction of Excitatory Neuron Clones in the Postnatal Mouse Neocortex |
| **Research Mentor** | Songhai Shi |
| **Research Institution** | Weill Cornell Medical College |
| **Home Institution** | University of Georgia |
| **Co-Authors** | Songhai Shi and Keith Brown, Memorial Sloan-Kettering Cancer Center |

| Ekundayo Platt    | 3:45 PM| Hillsborough |
| **Presentation Title** | Effectiveness of Amylase Enzyme on Stain Removal |
| **Research Mentor** | William LaCourse |
| **Research Institution** | University of Maryland, Baltimore County |
| **Home Institution** | Savannah State University |
| **Co-Authors** | William LaCourse and Sarah Wassink, University of Maryland, Baltimore County |

| Melissa Powell    | 3:45 PM| Brunswick A |
| **Presentation Title** | Role of Highly Active Antiretroviral Therapy (HAART) in Astrocyte Dysfunction |
| **Research Mentor** | Kelly Jordan-Sciutto |
| **Research Institution** | University of Pennsylvania |
| **Home Institution** | Hampton University |
| **Co-Authors** | Kelly Jordan-Sciutto, University of Pennsylvania |

| Ashley Powers     | 11:45 AM| Woodbridge |
| **Presentation Title** | The Effects of GRIP1 Phosphorylation on Glucocorticoid-Dependent Gene Expression |
| **Research Mentor** | Jana Dobrovolna |
| **Research Institution** | Weill Cornell Medical College |
| **Home Institution** | Massachusetts Institute of Technology |
| **Co-Authors** | Inez Rogatsky and Jana Dobrovolna, Hospital for Special Surgery |

| Rosina Pradhananga| 12:00 PM| Windsor |
| **Presentation Title** | Binational Efforts in Promoting Sustainable Development through Air Pollution Reduction in Mexicali-Imperial Valley |
| **Research Mentor** | Ned Strong |
| **Research Institution** | Harvard University |
| **Home Institution** | Boston University |
| **Co-Authors** | Ned Strong and Angelica Natera, Harvard University Arts and Sciences |
Lourdes Ramirez 4:00 PM
Edison
Presentation Title Regulation of Hepatic B Cells by Syndecan-1 proteoglycan
Research Mentor Abdel Hamad
Research Institution Johns Hopkins University
Home Institution Florida International University
Co-Authors Abdel Hamad, Johns Hopkins University; Sophia Uddin, Swarthmore College

Al Ray, III 5:00 PM
Edison
Presentation Title Investigation of the Effects of Cell Degradation on Laser Capture Microdissection of Mock Sexual Assault Evidence
Research Mentor Grace Axler-Diperte
Research Institution New York University Sackler Institute
Home Institution University of Georgia
Co-Authors Grace Axler-Diperte, New York University

CaVar Reid 5:00 PM
Windsor
Presentation Title Ain’t No Fathers In The Hood: A Socio-Historical Analysis of of Black Male Engagement With Economic Fatherhood
Research Mentor Imani Perry
Research Institution Princeton University
Home Institution Wesleyan University
Co-Authors Imani Perry, Princeton University

Dianeth Rodriguez 5:00 PM
Trenton
Presentation Title Convergent, Discriminant, and Criterion-Related Validity of the Mobility Inventory for Agoraphobia
Research Mentor Dianne Chambliss
Research Institution University of Pennsylvania
Home Institution University of Texas at Brownsville
Co-Authors Dianne Chambliss, University of Pennsylvania; Jacques Barber, University of Pennsylvania Medical School; Barbara Milrod, Cornell Weill Medical College

Natalie Rodriguez 3:45 PM
Windsor
Presentation Title Maternal Depression and its Effects on Boys’ and Girls’ Emotion Processing
Research Mentor Julia Kim-Cohen
Research Institution Yale University
Home Institution UPR-Rio Piedras
Co-Authors Julia Kim-Cohen, Yale University

Andrea Rolong 3:30 PM
Piscataway
Presentation Title Electrospun Nanofiber Scaffold Impregnated with Growth Factors For Small-Diameter Vascular Grafts
Research Mentor Wei Tan
Research Institution University of Colorado at Boulder
Home Institution Florida International University
Co-Authors Wei Tan and Walter Bonani, University of Colorado at Boulder

Raphaela Romero 12:30 PM
Monroe
Presentation Title Eliza Haywoodis Amatory Fiction: Sexual Violence and Gender Constraints
Research Mentor Jill Campbell
Research Institution Yale University
Home Institution Xavier University of Louisiana
Co-Authors Jill Campbell, Yale University

Amanda Roque-Atilano 12:30 PM
Brunswick B
Presentation Title Enabling Measurement of Calcium Signaling in Muscle Movement in the ER/SR Using Genetically Encoded Ca2+ Sensors
Research Mentor Amy Palmer
Research Institution University of Colorado at Boulder
Home Institution Mills College
Co-Authors Amy Palmer, University of Colorado at Boulder

Christopher Rusnak 5:00 PM
Woodbridge
Presentation Title Phylogenetic Analysis of Viral IRF Proteins
Research Mentor Angus Wilson
Research Institution New York University Sackler Institute
Home Institution Rutgers University
Co-Authors Angus Wilson and Xiangmei Xi, New York University

Lisa Ryan 4:45 PM
Monroe
Presentation Title The Relationship Between Self-Confidence and Risky Behaviors In Offenders
Research Mentor Donna Coviello
Research Institution University of Pennsylvania
Home Institution Temple University
Co-Authors Donna Coviello, University of Pennsylvania
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<td>Michelle Rybak</td>
<td>5:15 PM</td>
<td>Piscataway</td>
<td>Generation of Induced Pluripotent Embryonic Stem Cells</td>
<td>Paul Feinstein</td>
<td>Hunter College</td>
<td>Massachusetts Institute of Technology</td>
<td>Paul Feinstein, Hunter College</td>
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<td>Christina Saak</td>
<td>12:00 PM</td>
<td>Boardroom II</td>
<td>The Role of the BTB ZF Domain Protein Chimmo in Patterning and Growth of the Drosophila Eye and Wing</td>
<td>Erika Bach</td>
<td>New York University Sackler Institute</td>
<td>Jacobs University Bremen</td>
<td>Erika Bach and Marc Amoyel, New York University</td>
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<td>Torrey Salmon</td>
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<td>Brunswick A</td>
<td>The Role of Inositol Polyphosphate MultiKinase (IPMK) on LKB1 Localization and Activity</td>
<td>Sangwon Kim</td>
<td>University of Pennsylvania</td>
<td>The University of Scranton</td>
<td>Sangwon Kim, Soohkee Bang and Yong Chen, University of Pennsylvania</td>
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<td>Elizabeth Sawyer</td>
<td>12:15 PM</td>
<td>Princeton</td>
<td>As He Saw Himself: Historical Perceptions and the Importance of Jacksonian Self-Concept</td>
<td>Martha Sandweiss</td>
<td>Princeton University</td>
<td>Spelman College</td>
<td>Martha Sandweiss, Princeton University</td>
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<td>Anthony Saxon</td>
<td>3:30 PM</td>
<td>Hillsborough</td>
<td>The NanoCard: Development of a Nano friendly application for the iPhone 4G</td>
<td>Gary Harris</td>
<td>Howard University</td>
<td>Morehouse College</td>
<td>Gary Harris, Howard University</td>
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<td>Alicia Schep</td>
<td>12:00 PM</td>
<td>Brunswick C</td>
<td>The ARE-binding Protein AUF1 Regulates Telomerase Expression</td>
<td>Robert Schneider</td>
<td>New York University Sackler Institute</td>
<td>Harvey Mudd College</td>
<td>Robert Schneider, Adam Pont and Navid Sadri, New York University</td>
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<td>Ashley Schloss</td>
<td>5:00 PM</td>
<td>Brunswick C</td>
<td>Rationally Designed Cyclic Sulfopeptides for HIV-1 Entry Inhibition</td>
<td>Jonathan Rudick</td>
<td>University of Pennsylvania</td>
<td>Temple University</td>
<td>Jonathan G. Rudick, University of Pennsylvania</td>
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<td>Husna Shaik</td>
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<td>Boardroom II</td>
<td>Analysis of Secondary Structure Features of Wild-Type and Mutated Tobacco Etch Virus mRNA-Pseudoknots by Circular Dicroism</td>
<td>Nancy Greenbaum</td>
<td>Hunter College</td>
<td>Brooklyn College CUNY</td>
<td>Nancy Greenbaum and Dixie Goss, Hunter College</td>
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<td>Erin Shoemaker</td>
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<td>Piscataway</td>
<td>Does Phosphatidic Acid Modulate the Effect of Protein Phosphatase 2A in Salt Stress Signaling?</td>
<td>Alison DeLong</td>
<td>Brown University</td>
<td>Misericordia University</td>
<td>Alison DeLong and Joshua Blakeslee, Brown University</td>
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<td>Melanie Silvis</td>
<td>4:30 PM</td>
<td>Woodbridge</td>
<td>Characterizing the Role of CpsA in Mycobacterium tuberculosis Infection of Macrophages</td>
<td>Jennifer Philips</td>
<td>New York University Sackler Institute</td>
<td>UC Berkeley</td>
<td>Jennifer Philips, New York University</td>
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<td>Nicole Simon</td>
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<td>Bridgewater</td>
<td>Characterizing HIV-1 Matrix and PIP2 During Viral Assembly</td>
<td>Michael Summers</td>
<td>University of Maryland, Baltimore County</td>
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<td>Michael F. Summers and Peter Mercredi, University of Maryland, Baltimore County</td>
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<td>Kenneth Skinner</td>
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<td>Parallellism Between Lysosome Related Organelles in Melanocytes and Platelets: Does Scl35d3 Localize to Melanosomes when Expressed in Melanocytes?</td>
<td>Michael Marks</td>
<td>University of Pennsylvania</td>
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<td>Michael Marks and Ronghua Meng, University of Pennsylvania</td>
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<td>Jasmine Smith</td>
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<td>Monroe</td>
<td>Access Denied: A Study of the Relationship between Socioeconomic Status, Built Environments, and Obesity Prevalence Among Children in Los Angeles</td>
<td>Angel Harris</td>
<td>Princeton University</td>
<td>UC Berkeley</td>
<td>Angel Harris, Princeton University</td>
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<td>Mathew Starner</td>
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<td>Role of unc-11 in the Toxicity of Beta-Amyloid in an Invertebrate Model of Alzheimer's Disease</td>
<td>Christopher Link</td>
<td>University of Colorado at Boulder</td>
<td>Macalester College</td>
<td>Vishantie Sudama and Christopher Link, University of Colorado at Boulder</td>
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<td>Marie Steele</td>
<td>11:30 AM</td>
<td>Hillsborough</td>
<td>The Nonlinear Dynamics of Decision Making</td>
<td>Philip Holmes</td>
<td>Princeton University</td>
<td>University of Maryland, Baltimore County</td>
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<td>Kimberly Stratford</td>
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<td>Piscataway</td>
<td>Bypassing Hepatic Insulin After Menopause</td>
<td>John Stafford</td>
<td>Vanderbilt University</td>
<td>North Carolina A&amp;T State University</td>
<td>John Stafford, Melissa Martinez and David Cappel, Vanderbilt University</td>
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<td>Katherine Toll</td>
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<td>Brunswick C</td>
<td>Interspecific Competition among Plant Populations in a Reconstructed Tallgrass Prairie</td>
<td>Justin Borevitz</td>
<td>University of Chicago</td>
<td>University of Miami</td>
<td>Justin Borevitz, Geoffrey Morris and Paul Grabowski, University of Chicago</td>
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<td>Carol Torres</td>
<td>3:00 PM</td>
<td>Windsor</td>
<td>Investigating Psychological Stress as a Factor that can Lead to Activation of ERK</td>
<td>Robert Spencer</td>
<td>University of Colorado at Boulder</td>
<td>Universidad Interamericana de Puerto Rico, Ponce</td>
<td>Robert Spencer and Chad Osterlund, University of Colorado at Boulder</td>
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<td>Juan Torres</td>
<td>11:45 AM</td>
<td>Brunswick A</td>
<td>Development of a Luciferase Reporter for the Lck Gene</td>
<td>Adolfo Ferrando</td>
<td>Columbia University</td>
<td>University of Miami</td>
<td>Adolfo Ferrando and Maria Sol Flaherty, Columbia University</td>
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<td>Yesenia Torres</td>
<td>3:15 PM</td>
<td>Windsor</td>
<td>Absence of Relation of Perceived Stress to Cognitive Function in Older Adults</td>
<td>Shari Waldstein</td>
<td>University of Maryland, Baltimore County</td>
<td>UPR-Rio Piedras</td>
<td>Megan Hosey, Leslie I. Ketzel, and Shari Waldstein, University of Maryland, Baltimore County</td>
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<td>Johnathan Tran</td>
<td>4:00 PM</td>
<td>Brunswick A</td>
<td>Presynaptic versus Postsynaptic Na+ Channel Expression in Preparations of Rat Cortical Synaptic Membranes</td>
<td>Hugh Hemmings</td>
<td>Weill Cornell Medical College</td>
<td>Weill Cornell Medical College</td>
<td>Robert Westphalen and Hugh Hemmings, Weill Cornell Medical College</td>
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<td>Victor Tumulak</td>
<td>11:15 AM</td>
<td>Hillsborough</td>
<td>A Design for a Displacement Sensor on a Micro-Electrical-Mechanical System Membrane Mirror</td>
<td>David Dickensheets</td>
<td>Montana State University-Bozeman</td>
<td>Fort Belknap College</td>
<td>David Dickensheets and Eric Moog, Montana State University</td>
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<td>Devyani Ujla</td>
<td>11:15 AM</td>
<td>Boardroom II</td>
<td>The Role of Wnt1, Shh, and Fgf8 in the Development of Midbrain Dopamine Neurons</td>
<td>Mark Zervas</td>
<td>Brown University</td>
<td>University of Maryland, Baltimore County</td>
<td>Debra Ellisor and Mark Zervas, Brown University</td>
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<td>Mohammad Usmani</td>
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<td>Bridgewater</td>
<td>Pharmacological Characterization of Cloned and Native Transient Receptor Potential</td>
<td>Eric Nisenbaum</td>
<td>Eli Lilly and Company</td>
<td>Fordham University</td>
<td>Theron Wall and Eric Nisenbaum, Eli Lilly and Company</td>
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<td>Michelle VanTieghem</td>
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<td>Brunswick C</td>
<td>Relationship between Functional Connectivity and Executive Function in ADHD: a Resting-state fMRI Study</td>
<td>Francisco X. Castellanos</td>
<td>New York University Sackler Institute</td>
<td>Dartmouth College</td>
<td>Maarten Mennes, Natan Vega Potler and Michael Milham, New York University</td>
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<td>José Vargas-Muñiz</td>
<td>5:15 PM</td>
<td>Brunswick B</td>
<td>Mechanism of Interaction Between YY1, YAF2 and Polycomb Recruitment</td>
<td>Michael Atchison</td>
<td>University of Pennsylvania</td>
<td>UPR-Mayaguez</td>
<td>Michael Atchison and Arindam Basu, University of Pennsylvania</td>
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<tr>
<td>Natalia Vázquez</td>
<td>11:45 AM</td>
<td>Hillsborough</td>
<td>Comparison of Protein and Carbohydrate Associations with Fine Particulate Matter in Sub-Alpine Aerosols from Urban Environments in Boulder, Colorado</td>
<td>Lupita Montoya</td>
<td>University of Colorado at Boulder</td>
<td>UPR-Mayaguez</td>
<td>Lupita Montoya and Odessa Gomez, University of Colorado at Boulder</td>
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<td>John Vu</td>
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<td>Boardroom II</td>
<td>The Role of Transcription Factor c-Myb in Regulating Activity of DBA/2 Promoter</td>
<td>Jerry Stitzel</td>
<td>University of Colorado at Boulder</td>
<td>Brown University</td>
<td>Jerry Stitzel, University of Colorado at Boulder</td>
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<td>Devon Wade</td>
<td>2:45 PM</td>
<td>Princeton</td>
<td>How does Socioeconomic Status Play a Factor in Student Teacher Connectedness and Participating in Extra-Curricular Activities among Adolescents who have been Detained and does this Vary by Ethnicity?</td>
<td>Dexter Voisin</td>
<td>Louisiana State University-Baton Rouge</td>
<td>University of Chicago</td>
<td>Dexter Voisin, University of Chicago</td>
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<td>Kirstan Walker</td>
<td>12:00 PM</td>
<td>Hillsborough</td>
<td>Low Altitude UAV Flight Control Using a Miniature Optical Flow Sensor</td>
<td>Dale Lawrence</td>
<td>University of Colorado at Boulder</td>
<td>University of Michigan-Ann Arbor</td>
<td>Dale Lawrence, University of Colorado at Boulder</td>
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<td>Luke Wandrey</td>
<td>2:45 PM</td>
<td>Brunswick C</td>
<td>Extracellular Matrix Protease Expression of the Central Nervous System is Altered following Induced Chemoconvulsive Seizure</td>
<td>Paulette McRae</td>
<td>University of Pennsylvania</td>
<td>Arizona State University</td>
<td>Paulette McRae, Brenda E. Porter and Rashmi Risbud, The Children’s Hospital of Philadelphia</td>
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<td>Kathryn West</td>
<td>12:00 PM</td>
<td>Woodbridge</td>
<td>Immunotherapy for Type 2 Diabetes</td>
<td>Einar Sigurdsson</td>
<td>New York University Sackler Institute</td>
<td>Texas A&amp;M University</td>
<td>Einar Sigurdsson, New York University</td>
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Jessica Wielgus 5:30 PM

*Presentation Title*: Philanthropy: Private Action and the Public Good

*Research Mentor*: Rob Reich

*Research Institution*: Stanford University

*Home Institution*: DePaul University

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Simone Williams 3:00 PM

*Presentation Title*: The RF Amide Neuropeptide FF Activates Human Mast Cells via the Neuron-specific Mas-related Gene-1(MrgX1)

*Research Mentor*: Hydar Ali

*Research Institution*: University of Pennsylvania

*Home Institution*: Southern Illinois University-Carbondale

*Co-Authors*: Hydar Ali, University of Pennsylvania

---

Jackson Wray 11:45 AM

*Presentation Title*: Identity Prototypicality: Effects of Group-based Ideologies on Intersectional Identities

*Research Mentor*: Valerie Purdie-Vaughns

*Research Institution*: Columbia University

*Home Institution*: University of Arizona

*Co-Authors*: Valerie Purdie-Vaughns and Ruth Dittmann, Columbia University

---

Ali Wright 12:30 PM

*Presentation Title*: Asylum Life and Experiences of Mental Illness in 19th-Century African-American Communities: The Falsification of the 1840 Census

*Research Mentor*: Anne Harrington

*Research Institution*: Harvard University

*Home Institution*: Cornell University

*Co-Authors*: Anne Harrington, Harvard University Arts and Sciences

---

Yakov Yakubov 12:15 PM

*Presentation Title*: Role of Serotonin on Sensorimotor Gating of the Goldfish Startle Escape Response

*Research Mentor*: Thomas Preuss

*Research Institution*: Hunter College

*Home Institution*: Queens College CUNY

*Co-Authors*: Thomas Preuss, Hunter College

---

Theodore Young 12:00 PM

*Trenton*

*Presentation Title*: Black Perceptions of Chinese Labor in the Post Civil War South

*Research Mentor*: Greg Carr

*Research Institution*: Howard University

*Home Institution*: Oberlin College

*Co-Authors*: Greg Carr, Howard University

---

Lana Zhang 12:15 PM

*Brunswick B*

*Presentation Title*: Identification of Dopamine Neurons Using Viral-Mediated Gene Transfer

*Research Mentor*: Daniel McGehee

*Research Institution*: University of Chicago

*Home Institution*: University of Maryland, Baltimore County

*Co-Authors*: Daniel McGehee and Keith Gallagher, University of Chicago

---

Stephanie Zimmerman 3:45 PM

*Boardroom II*

*Presentation Title*: Characterization of the Plasmodium Berghei HesB-like Gene

*Research Mentor*: Photini Sinnis

*Research Institution*: New York University Sackler Institute

*Home Institution*: Cornell University

*Co-Authors*: Photini Sinnis and Brandy Bennett, New York University
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<td>Leighann Black</td>
<td>AB</td>
<td>Dopamine Regulates Cortical Glutamate Homeostasis Through Astrocytes</td>
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<td>Effects of Carbohydrate Functionalized Dendrimers on Galectin-3 Induced Cancer Cell Aggregation</td>
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<td>Comparison of PML Bodies and Telomere Status Between T-ALL Cells Having Either Increased Telomerase Activation or ALT Mechanisms</td>
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<td>Iron-Sulfate Material Synthesis, Characterization</td>
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<td>Longitudinal Examination of the Neural Correlates Underlying Self-Regulation in the Face of a Reward</td>
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<td>The Correlation of Turbidity and Escherichia Coli on the Little Big Horn River</td>
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<td>Brooke Stevenson</td>
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### Student Poster Presentations by Name

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<td><strong>Fred Abban</strong></td>
<td>The Effects of Running on Experience on the Activation of New Neurons and Interneurons to Stress in the Dentate gyrus</td>
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<tr>
<td><strong>Aleeza Abbasi</strong></td>
<td>Identification of Novel Serological Biomarkers for Autoimmune Liver Diseases</td>
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<tr>
<td><strong>Olutobi Ajala</strong></td>
<td>Phenylketonuria: An Amino Acid Metabolic Disorder</td>
<td>9:45 – 10:45 AM</td>
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<td><strong>Richard Alexander</strong></td>
<td>Analysis of Factors involved in Transcription Initiation</td>
<td>8:45 – 9:45 AM</td>
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<tr>
<td><strong>Ashley Alvarado</strong></td>
<td>Organic Protection Of Cowpeas Postharvest against Callosobruchus Maculatus using Shea Butter</td>
<td>8:45 – 9:45 AM</td>
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<tr>
<td><strong>Melissa Alvarado</strong></td>
<td>Characterization of microRNA-10b in Human Glioblastoma</td>
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<tr>
<td><strong>Holly Arnold</strong></td>
<td>Disulfide Bond Formation and Blood Coagulation in E. coli</td>
<td>9:45 – 10:45 AM</td>
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<tr>
<td><strong>Steve Arrieta</strong></td>
<td>In Their Own Words: AP Students Characterize their Role Models</td>
<td>9:45 – 10:45 AM</td>
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<tr>
<th>Research Mentor</th>
<th>Elizabeth Gould</th>
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<td>Princeton University</td>
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<tr>
<td>Home Institution</td>
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<tr>
<td>Co-Authors</td>
<td>Elizabeth Gould and Tim Schoenfeld, Princeton University</td>
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<td>Research Mentor</td>
<td>Xuhang Li</td>
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<td>Research Institution</td>
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<td>Co-Authors</td>
<td>Xuhang Li, Johns Hopkins University</td>
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<td>Research Mentor</td>
<td>Stephanie Villarreal</td>
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<td>Research Institution</td>
<td>UNCF Merck Science Initiative</td>
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<td>Home Institution</td>
<td>College of Saint Elizabeth</td>
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<tr>
<td>Co-Authors</td>
<td>Amal Mansour, University of Medicine and Dentistry of New Jersey; Janet Berthel, College of St. Elizabeth</td>
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<td>Research Mentor</td>
<td>Jon Beckwith</td>
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<tr>
<td>Research Institution</td>
<td>Harvard University, Division of Medical Sciences</td>
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<td>Co-Authors</td>
<td>Jessica Blazyk, Dana Boyd and Jon Beckwith, Harvard University Div. of Medical Sciences</td>
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<td>Research Mentor</td>
<td>Carolyn Callahan</td>
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<tr>
<td>Co-Authors</td>
<td>Carolyn Callahan, University of Virginia; Haydee Cruz, Arizona State University</td>
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<td>Name</td>
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<td>Avis Atkins</td>
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<td>Jasmine Azure</td>
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<td>Amy Baker</td>
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<td>Rose Bamfo</td>
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<td>Leighann Black</td>
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<td>Cesar Cardenas, Jr.</td>
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<td>Sherman Coleman</td>
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Shamara Collins 129 8:45 – 9:45 AM  
Nuclear Magnetic Resonance Studies of Fuel Cell Electrolyte Membranes  
Research Mentor Steve Greenbaum  
Research Institution Hunter College  
Home Institution Morgan State University  
Co-Authors Steve Greenbaum and Jaime Farrington, Hunter College

Maria Correa 107 8:45 – 9:45 AM  
Presentation Title Assessing Specificity and Physiologic Effects of Novel and Known Sirtuin Activating Compounds  
Research Mentor David Sinclair  
Research Institution Harvard University, Division of Medical Sciences  
Home Institution UPR-Rio Piedras  
Co-Authors Nathan Price, Angela Hafner and David A. Sinclair, Harvard University Div. of Medical Sciences

Renee Cotton 36 9:45 – 10:45 AM  
Presentation Title Effects of Pyruvate Kinase Disruption on Tumor Growth in C.elegans and Its Relevance to Chemotherapy  
Research Mentor Jill Bargonetti  
Research Institution Hunter College  
Home Institution University of Chicago  
Co-Authors Ryan Doonan and Jill Bargonetti, Hunter College

Haydee Cruz 137 8:45 – 9:45 AM  
Presentation Title A Comparison of Teacher Self-Perceptions and Observed Classroom Instruction  
Research Mentor Carolyn Callahan  
Research Institution University of Virginia School of Education  
Home Institution Arizona State University  
Co-Authors Carolyn Callahan, University of Virginia; Steve Arrieta, Montclair State University

Christine Daniels 18 9:45 – 10:45 AM  
Presentation Title Crosstalk between the BRCA2 and APC/Beta-catenin Pathways in Mammary Stem Cells and Breast Cancer  
Research Mentor Kathleen Goss  
Research Institution University of Chicago  
Home Institution Emory University  
Co-Authors Kathleen Goss and Jenifer Prosperi, University of Chicago; Qingshen Gao, Northshore University

Kyle Davis 37 8:45 – 9:45 AM  
Synthesis of Gold Nanoparticles  
Research Mentor Xingde Li  
Research Institution Johns Hopkins University  
Home Institution North Carolina State University  
Co-Authors Xingde Li and Yong Ping Chen, Johns Hopkins University

Pamela De La Cruz 96 9:45 – 10:45 AM  
Presentation Title Characterization of Single Stranded DNA Binding by Bacteriophage lambda Replication Initiator  
Research Mentor David Jeruzalmi  
Research Institution Harvard University  
Home Institution UPR-Rio Piedras  
Co-Authors David Jeruzalmi and Danaya Pakotiprapha, Harvard University Arts and Sciences

Abigail De La Pena 22 9:45 – 10:45 AM  
Presentation Title Does Overproduction of Red Blood Cells Lead to Decreased Oxygen in the Brain Due to Stalled Flow in Capillaries?  
Research Mentor Chris Schaffer  
Research Institution Cornell University  
Home Institution University of Florida  
Co-Authors Claire Paduano, Puifi Santisakultarm and Chris Schaffer, Cornell University

Wallace Derricotte 128 9:45 – 10:45 AM  
Presentation Title Effect of Translational Energy on the Sticking Probability of Methane on an Iridium Surface  
Research Mentor Arthur Utz  
Research Institution Tufts University Medford  
Home Institution Morehouse College  
Co-Authors Arthur Utz, Deno Del Sesto and Eric Dombrowski, Tufts University

Angela Dixon 147 8:45 – 9:45 AM  
Presentation Title Multiculturalism and the Impact of School Climate and Engagement on African Americans  
Research Mentor Angel Harris  
Research Institution Princeton University  
Home Institution University of North Carolina Chapel Hill  
Co-Authors Angel Harris, Princeton University
Casey Doney 58 9:45 – 10:45 AM
Presentation Title  Purification and Characterization of Arthrobacter Globiformis Amine Oxidase
Research Mentor  Doreen Brown
Research Institution  Montana State University -Bozeman
Home Institution  Fort Belknap College
Co-Authors  Doreen Brown, Montana State University

Bilguujin Dorjsuren 72 9:45 – 10:45 AM
Presentation Title  Identifying the EET Signaling Pathway in Regulating Haematopoietic Stem Cell Self-Renewal in Zebrafish
Research Mentor  Leonard Zon
Research Institution  Harvard University, Division of Medical Sciences
Home Institution  University of Maryland, Baltimore County
Co-Authors  Leonard I. Zon and Pulin Li, Harvard University Div. of Medical Sciences

Jessica Duran 25 8:45 – 9:45 AM
Presentation Title  Identification of Variant NUT Fusion Partner Genes in NUT Midline Carcinoma
Research Mentor  Christopher French
Research Institution  Harvard University, Division of Medical Sciences
Home Institution  Rollins College-Winter Park
Co-Authors  Christopher French, Harvard University Div. of Medical Sciences; Brian Schwartz and Mariana Stoleru, Brigham and Women’s Hospital

Korine Duval 10 9:45 – 10:45 AM
Presentation Title  Relative Importance of Internal Prediction and Sensory Feedback when the Brain Estimates Hand Position
Research Mentor  Reza Shadmehr
Research Institution  Johns Hopkins University
Home Institution  University of Maryland, Baltimore County
Co-Authors  Reza Shadmehr and Adrian Haith, Johns Hopkins University

Cianna Edquilane 17 8:45 – 9:45 AM
Presentation Title  Molecular and Cellular Mechanisms Regulating Wound Healing
Research Mentor  Ira Herman
Research Institution  Tufts University
Home Institution  Chaminade University of Honolulu
Co-Authors  Ira Herman and Jeffry Deckenback, Tufts University School of Graduate Biomedical Sciences

Charles Eke 57 8:45 – 9:45 AM
Presentation Title  Bungarotoxin, Reporter to Studying GLUT4 Trafficking
Research Mentor  Timothy McGraw
Research Institution  Weill Cornell Graduate School
Home Institution  Delaware State University
Co-Authors  Timothy E. McGraw, David Iaea and Sameer Mohammad, Weill Cornell Graduate School

Xochina El Hilali 62 9:45 – 10:45 AM
Presentation Title  Transcriptional Profiling of Lipid Nanoparticles Uncover Potential Toxicities
Research Mentor  I-Ming Wang
Research Institution  UNCF Merck Science Initiative
Home Institution  Carnegie Mellon University
Co-Authors  I-Ming Wang and Elena Nikonova, UNCF-Merck Science Initiative

Samantha Espinosa 111 8:45 – 9:45 AM
Presentation Title  Carbon Materials from Chromonic Liquid Crystals and their Applications to Battery Electrodes
Research Mentor  Robert Hurt
Research Institution  Brown University
Home Institution  College of Saint Elizabeth
Co-Authors  Fei Guo and Robert Hurt, Brown University

Christina Flansburg 2 9:45 – 10:45 AM
Presentation Title  Characterization Of The Zic1-Expressing Premigratory Neural Crest Domain
Research Mentor  Christa Merzdorf
Research Institution  Montana State University -Bozeman
Home Institution  Fort Belknap College
Co-Authors  Christa Merzdorf, Montana State University

Danniele Foster 14 9:45 – 10:45 AM
Presentation Title  The Role of Senescence in Immortalized Cells Which Express an Oncogenic Ras Gene
Research Mentor  Peter Bitterman
Research Institution  UNCF Merck Science Initiative
Home Institution  Xavier University of Louisiana
Co-Authors  Peter Bitterman and Jose Gomez-Garcia, University of Minnesota School of Medicine
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<td><strong>Presentation Title</strong> Characterization of Aberrant Leukemic Notch 1 Transcripts in T cell Leukemia</td>
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<td><strong>Co-Authors</strong> Christian Franck and Janet Blume, Brown University</td>
<td><strong>Co-Authors</strong> Jon Aster and Todd Ashworth, Harvard University Div. of Medical Sciences</td>
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<td><strong>Limary García González</strong> 78 9:45 – 10:45 AM</td>
<td><strong>Andres González</strong> 88 9:45 – 10:45 AM</td>
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<tr>
<td><strong>Presentation Title</strong> Characterization of the Ability of CRAMs and Oxysterols to Interact with OSBP Mutants and ORPs</td>
<td><strong>Presentation Title</strong> The Effects of Beta-Glucan Pretreatment on the LPS-Induced Cytokine Production in vitro</td>
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<td><strong>Research Mentor</strong> Matthew Sair</td>
<td><strong>Research Mentor</strong> Jonathan Reichner</td>
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<td><strong>Co-Authors</strong> Matthew Sair, Harvard University Arts and Sciences</td>
<td><strong>Co-Authors</strong> Jonathan S. Reichner, Courtini T. Newsome and Estefany Flores, Brown University</td>
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<td><strong>Christin Gates</strong> 148 9:45 – 10:45 AM</td>
<td><strong>Rafael González</strong> 19 8:45 – 9:45 AM</td>
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<tr>
<td><strong>Presentation Title</strong> Evaluating the Effects of False Incarceration Post Exoneration</td>
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<td><strong>Research Mentor</strong> Leslie Tung</td>
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<td><strong>Home Institution</strong> UPR-Mayaguez</td>
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<td><strong>Co-Authors</strong> Ronald S. Sullivan Jr. and Dehnia Umunna, Harvard University Arts and Sciences</td>
<td><strong>Co-Authors</strong> Leslie Tung, Johns Hopkins University</td>
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<td><strong>Kimuya Ghaderi</strong> 73 8:45 – 9:45 AM</td>
<td><strong>Leopold Green</strong> 123 8:45 – 9:45 AM</td>
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<td><strong>Presentation Title</strong> Characterization of Histone Modification Throughout C. elegans Embryogenesis</td>
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<td><strong>Home Institution</strong> Hampton University</td>
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<td><strong>Co-Authors</strong> Susan E. Mango and Megan Senchuk, Harvard University Arts and Sciences</td>
<td><strong>Co-Authors</strong> Kesete Ghebreyessus and Uwe Hommerich, Hampton University</td>
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<tr>
<td><strong>Jocelyn Gipson</strong> 5 8:45 – 9:45 AM</td>
<td><strong>Ronald Grider</strong> 74 9:45 – 10:45 AM</td>
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<td><strong>Presentation Title</strong> Characterization of Herpes Processivity Factors by X-Ray Crystallography</td>
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<td><strong>Research Mentor</strong> Joseph Davide</td>
<td><strong>Research Mentor</strong> James Hogle</td>
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<td><strong>Research Institution</strong> UNCF Merck Science Initiative</td>
<td><strong>Research Institution</strong> Harvard University, Division of Medical Sciences</td>
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<td><strong>Home Institution</strong> University of Alabama-Birmingham</td>
<td><strong>Home Institution</strong> Illinois State University</td>
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<td><strong>Co-Authors</strong> Andrea Matter and Joseph Davide, UNCF-Merck Science Initiative</td>
<td><strong>Co-Authors</strong> James Hogle and Molly Coseno, Harvard University Div. of Medical Sciences</td>
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Kaitlin Heffron 142 9:45 – 10:45 AM Presentation Title Academic Year and Gender Differences on Adolescent Math Interest Research Mentor Marie Shoffner Research Institution University of Virginia School of Education Home Institution University of Virginia Co-Authors Marie Shoffner, University of Virginia

Eva Hoops 16 9:45 AM Presentation Title Microbial Source Tracking on The Little Big Horn River Research Mentor Neva Tall Bear Research Institution Little Big Horn College Home Institution Little Big Horn College Co-Authors Sara L. Plaggemeyer, Little Big Horn College

Janae Hunter 30 9:45 – 10:45 AM Presentation Title Ultrastructural Analysis of Mitochondria: Phenotypic Implications for Parkinson’s, Barth Syndrome and Charcot-Marie-Tooth Disease Research Mentor Valdeci Da Cunha Research Institution UNCF Merck Science Initiative Home Institution Oakwood College Co-Authors J. Michael McCaffery, Hsiuchen Chen and Carla Koehler, Oakwood University

Sanchez Jarrett 104 9:45 – 10:45 AM Presentation Title Probing The Inner Membrane: Analysis of In-vitro Essential Mycobacterial Proteins. Research Mentor Alissa Myrick Research Institution Harvard University, Division of Medical Sciences Home Institution Brooklyn College CUNY Co-Authors Alissa Myrick, Shoko Minami and Eric Rubin, Harvard University Div. of Medical Sciences

Itisha Jefferson 124 9:45 – 10:45 AM Presentation Title The Potential Environmental Impact of Arsanilate andArsacetin Research Mentor Vladimir Simov Research Institution UNCF Merck Science Initiative Home Institution Spelman College Co-Authors Gladys S. Bayse, Paige E. Cooper and Deidre K. Robinson, Spelman College

Shawn Johnson 4 9:45 – 10:45 AM Presentation Title Comparison of PML Bodies and Telomere Status Between T-ALL Cells Having Either Increased Telomerase Activation or ALT Mechanisms Research Mentor Ronald DePinho Research Institution Harvard University, Division of Medical Sciences Home Institution Oregon State University Co-Authors Ronald Depinio and Jian Hu, Harvard University Div. of Medical Sciences

Elizabeth Henderson 97 8:45 – 9:45 AM Presentation Title Substrate Recognition of Histone H2B by DUBm Research Mentor Cynthia Wolberger Research Institution Johns Hopkins University Home Institution Hunter College Co-Authors Cynthia Wolberger and Chris Berndsen, Johns Hopkins University

Kendrick Henderson 39 8:45 – 9:45 AM Presentation Title The Effect of Helicobacter Pylori on Raf Kinase Inhibitor Protein in Gastric Cancer Cells Research Mentor Devasis Chatterjee Research Institution Brown University Home Institution Claflin University Co-Authors Erica Moen, Sicheng Wen and Devasis Chatterjee, Brown University

Alexandra Herndon 125 8:45 – 9:45 AM Presentation Title Going Green: Exploratory Synthesis of Novel Palladium Complexes Towards the Epoxidation of Olefins Research Mentor Shuzhi Dong Research Institution UNCF Merck Science Initiative Home Institution University of Washington Co-Authors Karen Goldberg and Greg Fulmer, University of Washington

Danielle Hill 130 9:45 – 10:45 AM Presentation Title Psychosocial Correlates of Adolescent Smoking Initiation Among a Statewide Sample of Middle and High School Students Research Mentor Carlo DiClemente Research Institution University of Maryland, Baltimore County Home Institution Spelman College Co-Authors Carlo DiClemente and Janine Delahanthy, University of Maryland, Baltimore County
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<th>Name</th>
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<tbody>
<tr>
<td>Phillip Kang</td>
<td>Microevolutionary Principles of Cell Cytoskeleton Organization: Comparative Study of the Mitotic Spindle of C. elegans</td>
<td>Daniel Needleman</td>
<td>Harvard University</td>
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<td>Co-Authors Daniel Needleman and Reza Farhadifar, Harvard University Arts and Sciences</td>
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<tr>
<td>Emel Kasgarli</td>
<td>75</td>
<td>8:45 – 9:45 AM</td>
<td>Analysis of ZTF-8 Function in DNA Damage Repair and Its Interaction Partners in C. elegans</td>
<td>Monica Colaiacovo</td>
<td>Harvard University, Division of Medical Sciences</td>
<td>Co-Authors Monica Colaiacovo and Hyun-Min Kim, Harvard University Div. of Medical Sciences</td>
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<tr>
<td>Brittany Katz</td>
<td>56</td>
<td>9:45 – 10:45 AM</td>
<td>Measuring Fatty Acid Uptake In Primary Enterocytes</td>
<td>Andrea Peier</td>
<td>UNCF Merck Science Initiative</td>
<td>Co-Authors Andrea Peier, Karni Schlessinger and Kunal Desai, UNCF-Merck Science Initiative</td>
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<tr>
<td>Jordan Kennedy</td>
<td>108</td>
<td>9:45 – 10:45 AM</td>
<td>Rheological Characterization of Thermally Reversible Gels</td>
<td>Jennifer Brown</td>
<td>Montana State University -Bozeman</td>
<td>Co-Authors Jennifer Brown and Sarah Codd, Montana State University</td>
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<tr>
<td>Danielle Kinsey</td>
<td>50</td>
<td>9:45 – 10:45 AM</td>
<td>Molecular Characterization Of The Microbial Populations In Biofilms From Polyvinyl Chloride and Copper Plumbing Material In Reactors Simulating Premise Plumbing</td>
<td>Gem Encarnacion</td>
<td>Montana State University -Bozeman</td>
<td>Co-Authors Gem Encarnacion, Montana State University</td>
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<tr>
<td>Michael Kinsey</td>
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<td>8:45 – 9:45 AM</td>
<td>Characterization of Lipid Production from Yellowstone National Park Green Algae Isolates in Response to Differing Environmental Conditions</td>
<td>Jacob Valenzuela</td>
<td>Montana State University -Bozeman</td>
<td>Co-Authors Jacob Valenzuela, Montana State University</td>
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<td>Aaron Louie</td>
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<td>Mechanism of Cyclic di-GMP Repression of Motility in Pseudomonas aeruginosa</td>
<td>Stephen Lory</td>
<td>Harvard University, Division of Medical Sciences</td>
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<tr>
<td>Mackenzie Martin</td>
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<td>8:45 – 9:45 AM</td>
<td>The Effects of Serine Palmitoy Transferase Inhibitors (SPT) on Lipid Raft Sphingolipid Ceramides and Insulin Signaling</td>
<td>Joseph T. Brozinick</td>
<td>Eli Lilly and Company</td>
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<td>Olivia Martin</td>
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<td>Rapid qPCR Identification of Enteric Bacteria in Clinical Studies</td>
<td>Noel Goddard</td>
<td>University of Maryland, Eastern Shore</td>
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<td>Elliott Martinez</td>
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<td>Jordan Green</td>
<td>Johns Hopkins University</td>
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<td>Raul Martinez</td>
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<td>Acute Changes in Expression of Signaling Proteins Following Early-life Seizures</td>
<td>Frances Jensen</td>
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<td>Irene Mbah</td>
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<td>George Alvarez</td>
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<td>Joelle Mbatchou</td>
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<td>Using Small Molecules in the Rho Pathway with FRET</td>
<td>Ulrike Eggert</td>
<td>Harvard University, Division of Medical Sciences</td>
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<td>Brandon McClary</td>
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<td>Testing AP-1 Inhibitor Compounds with Potential for use as Therapeutic Tumor Prevention Agents</td>
<td>Rene Bartz</td>
<td>UNCF Merck Science Initiative</td>
<td>University of Maryland, Baltimore County</td>
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<tr>
<td>Nekeshia McInnis</td>
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<td>Effect of Parental Relationship in Childhood on Adulthood Emotional Health</td>
<td>Thomas LaVeist</td>
<td>Johns Hopkins University</td>
<td>University of Florida</td>
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<tr>
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<td>Filomene Morrison</td>
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<td>Effects of Sexual Experience on Neurogenesis in the Aging Brain</td>
<td>Elizabeth Gould</td>
<td>UNCF Merck Science Initiative</td>
<td>Princeton University</td>
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<td>Eunice Mendoza</td>
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<td>Latinos' Generational Status and Self-Efficacy Mediated by Language Use in Adolescents</td>
<td>Cynthia Coll</td>
<td>Brown University</td>
<td>Rochester Institute of Technology</td>
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<td>Elizabeth Millings</td>
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<td>Investigating the Mechanism and Kinetics of 1,4-dihydroxy-2-naphthoyl-CoA Synthase (MenB) in Mycobacterium tuberculosis</td>
<td>Robert Tynebor</td>
<td>UNCF Merck Science Initiative</td>
<td>SUNY Stony Brook</td>
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<td>Frances Morales</td>
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<td>Study on the Role of Polalpha-primase at Telomeres in Human Cells</td>
<td>Diego Loayza</td>
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<td>Michelle Munyikwa</td>
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<td>Recruitment of the Oncoprotein v-ErbA to Aggresomes</td>
<td>Lizabeth Allison</td>
<td>UNCF Merck Science Initiative</td>
<td>College of William &amp; Mary</td>
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<td>Steve Morgan</td>
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<td>Epigenetic Mechanism of CD4 Regulation in T-Lymphocytes</td>
<td>Nathaniel Elsen</td>
<td>UNCF Merck Science Initiative</td>
<td>Xavier University of Louisiana</td>
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<td>Brandon Murray</td>
<td>49</td>
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<td>Distribution of Electrical Synapses in the TRN</td>
<td>Barry Connors</td>
<td>Brown University</td>
<td>Morehouse College</td>
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<td>Student Name</td>
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<td>Lindsey Myers</td>
<td>13</td>
<td>8:45 – 9:45 AM</td>
<td>Mitochondrial Dysfunction in Skeletal Muscle Induced by High Fat Diet through Permeability Transition Pore Formation</td>
<td>Zhen Yan</td>
<td>University of Virginia School of Medicine</td>
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<td>Rayna Narvaez</td>
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<td>Aspects of Fertility in Siberian Hamsters with Disrupted Circadian Rhythms</td>
<td>Brian Prendergast</td>
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<td>Grace Nauman</td>
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<td>Transcription Activation in S. Cerevisiae</td>
<td>Fred Winston</td>
<td>Harvard University, Division of Medical Sciences</td>
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<td>Kelechi Ndukw</td>
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<td>MAG and Myelin Induce Schwann Cell Death</td>
<td>Marie Filbin</td>
<td>Hunter College</td>
<td>Lehman College, CUNY</td>
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<td>Brandon Nemieboka</td>
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<td>Development of Mechanism-Based Probe of Sirtuins</td>
<td>Anthony Sauve</td>
<td>Weill Cornell Graduate School</td>
<td>University of Maryland, Baltimore County</td>
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<td>Hien Nguyen</td>
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<td>Sex Differences in PKMZ Activity in the Rodent Hippocampus after Spatial Training in the Radial 8-arm Task</td>
<td>Peter Serrano</td>
<td>Hunter College</td>
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<td>Janice Nieves</td>
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<td>Bcrp1 and Proliferation of cSP Cells</td>
<td>Ronglih Liao</td>
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<td>Rachel Nolan</td>
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<td>Embodiment in Social Categorization</td>
<td>Nalini Ambady</td>
<td>Tufts University Medford</td>
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<td>Olivia Nwankwo</td>
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<td>Phil Cole</td>
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<td>Holly Payne</td>
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<td>Assessment of Acetylcholine and GABA Cells after Methamphetamine-induced Cell Death in the Mouse Striatum</td>
<td>Jesus Angulo</td>
<td>Hunter College</td>
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Mayrel Pérez 65 8:45 – 9:45 AM
Presentation Title A Modified Resident-intruder Assay for Determination of Aggressiveness in Mice
Research Mentor Catherine Dulac
Research Institution Harvard University
Home Institution Interamerican University of Puerto Rico
Co-Authors Catherine Dulac and Joseph Bergan, Harvard University Arts and Sciences

Harold Phillips 46 9:45 – 10:45 AM
Presentation Title Norepinephrine Depleted Mice Exhibit Repetitive Behavior Correlated with Orbitalfrontal-Striatal-Thalamocortical Pathway Dysfunction
Research Mentor Donnie Eddins
Research Institution UNCF Merck Science Initiative
Home Institution Yale University
Co-Authors Kafui Dzirasa and Miguel A. L. Nicolelis, Duke University

Brendalyn Quiah 92 9:45 – 10:45 AM
Presentation Title Possible Role Of Ceramide Kinase In Intracellular Membrane Trafficking
Research Mentor William Brown
Research Institution Cornell University
Home Institution Neumann University
Co-Authors William Brown, Danielle Kalkofen and Kevin Dinh Ha, Cornell University

Debra Ragland 29 8:45 – 9:45 AM
Presentation Title The Effect of Single Amino Acid Mutations on HIV-I Susceptibility to High Active Antiretroviral Therapy
Research Mentor Robert Siliciano
Research Institution Johns Hopkins University
Home Institution North Carolina A&T State University
Co-Authors Maame Sampah and Robert Siliciano, Johns Hopkins University

Matthew Ramirez 152 9:45 – 10:45 AM
Presentation Title Longitudinal Examination of the Neural Correlates Underlying Self-Regulation in the Face of a Reward
Research Mentor BJ Casey
Research Institution Weill Cornell Graduate School
Home Institution Yale University
Co-Authors B.J. Casey, Matthew Malter Cohen and Nicholas Franklin, Weill Cornell Graduate School

Ghansham Ramkhellawan 28 9:45 – 10:45 AM
Presentation Title Investigating Cellular Mechanical Properties in Relation to Lineage Potential for Stem Cell Therapy
Research Mentor Eric Darling
Research Institution Brown University
Home Institution University of Miami
Co-Authors Eric Darling and Vera Fonseca, Brown University

Brittany Rhodes 109 8:45 – 9:45 AM
Presentation Title Use of TiO2 Nanotube Arrays in Dye-Sensitized Solar Cells
Research Mentor Steven Bernasek
Research Institution Princeton University
Home Institution Spelman College
Co-Authors Joshua Wnuk and Steven Bernasek, Princeton University

Jenae Richardson 139 8:45 – 9:45 AM
Presentation Title Using Mindfulness Meditation to Minimize Choking under Pressure on an Arithmetic Task
Research Mentor Sian Beilock
Research Institution University of Chicago
Home Institution Syracuse University
Co-Authors Sian Beilock and J. Jay Todd, University of Chicago

Jazmine Robertson 89 8:45 – 9:45 AM
Presentation Title Functional Characterization of Histone Binding Proteins
Research Mentor Sean Taverna
Research Institution Johns Hopkins University
Home Institution Norfolk State University
Co-Authors Ana Raman and Sean Taverna, Johns Hopkins University

Hiram Rodriguez 38 9:45 – 10:45 AM
Presentation Title Purification of the Transducible Transcription Factor TAT-PAX4 and Determination of its Biological Activity
Research Mentor Juan Dominguez-Bendala
Research Institution University of Miami
Home Institution UPR-Mayaguez
Co-Authors Juan Dominguez-Bendala and Sirlene Cechin, University of Miami
Natassia Rodriguez  146  9:45 – 10:45 A
Presentation Title: Made it to America, Now What?: An Analysis of Why Educational Achievement Differs among Latino Subgroups in the U.S.
Research Mentor: Angel Harris
Research Institution: Princeton University
Home Institution: University of North Carolina Chapel Hill
Co-Authors: Angel Harris, Princeton University

Ana Sanchez-Rivera  149  8:45 – 9:45 AM
Presentation Title: Exploring Implicit Measures of Racial Phenotypicality Bias
Research Mentor: Keith Maddox
Research Institution: Tufts University Medford
Home Institution: UPR-Rio Piedras
Co-Authors: Hannah Dolberg Barrett, Karina Villareal Medved and Thomas C. Mann, Tufts University

Adelita Russette 110  9:45 – 10:45 AM
Presentation Title: Shape Memory Alloys: Processing, Characterization and Applications
Research Mentor: David Miller
Research Institution: Montana State University - Bozeman
Home Institution: Stone Child College
Co-Authors: David Miller, Montana State University

Philisha Santio 135  8:45 – 9:45 AM
Presentation Title: Enhancing Breastfeeding: The Creation of Educational Materials for BlackFeet/Cree Mothers
Research Mentor: Jessi Smith
Research Institution: Montana State University - Bozeman
Home Institution: Stone Child College
Co-Authors: Maria Russell and Jessi L. Smith, Montana State University

Daniel Salahuddin  53  8:45 – 9:45 AM
Presentation Title: Characterization of Murine Apolipoprotein-B48 Antibodies: Correlation of Protein Peptide Titers to Native Apolipoprotein Titers
Research Mentor: Lyndon Mitnaul
Research Institution: UNCF Merck Science Initiative
Home Institution: Saint Leo University
Co-Authors: Lyndon Mitnaul and Ying Chen, UNCF-Merck Science Initiative

Ryan Santos  82  9:45 – 10:45 AM
Presentation Title: Inhibition of STAT3 in Skeletal Muscle in (a Mouse Model of) Cancer Cachexia
Research Mentor: Teresa Zimmers
Research Institution: University of Miami
Home Institution: Chamainde University of Honolulu
Co-Authors: Teresa A. Zimmers and Andrea Bonetto, University of Miami

James Salazar  26  9:45 – 10:45 AM
Presentation Title: Computational Docking Studies of Antibody-Antigen Complexes
Research Mentor: George Church
Research Institution: Harvard University, Division of Medical Sciences
Home Institution: University of Texas at Austin
Co-Authors: George Church, Srivatsan Raman and Uri Laserson, Harvard University Div. of Medical Sciences

Ashley Scott  55  8:45 – 9:45 AM
Presentation Title: Regulation of Pancreatic Beta-Cell Mass by Amino Acids and Glucose in Zebrafish
Research Mentor: Wenbiao Chen
Research Institution: Vanderbilt University
Home Institution: Claflin University
Co-Authors: Lisette Maddison and Wenbiao Chen, Vanderbilt University

Farzana Saleem 140  9:45 – 10:45 AM
Presentation Title: The Relation Between SES and Children's Early Academic Skills
Research Mentor: Amanda Williford
Research Institution: University of Virginia School of Education
Home Institution: Georgia State University
Co-Authors: Karyn Hartz, Amanda Wiliford, and Jason Downer, University of Virginia

Carlynn Scott 150  9:45 – 10:45 AM
Presentation Title: Temperamental and Neurophysiological Predictors of Anxious Behavior in Children
Research Mentor: Tracy Dennis
Research Institution: Hunter College
Home Institution: Hunter College
Co-Authors: Tracy Dennis, Hunter College
Candice Sherwood 121 8:45 – 9:45 AM
Presentation Title Structure-Property Relationship in HFA-Containing Polyamide Thin Film Composite Membranes
Research Mentor Zhuqing Liu
Research Institution UNCF Merck Science Initiative
Home Institution Georgia Institute of Technology
Co-Authors Young-Hye Na and Ratnam Sooriyakumaran, IBM Almaden Research Center

Ashley Spann 61 8:45 – 9:45 AM
Presentation Title Exploration of PTEN-Deficient Cell Sensitization to PARP Inhibitors via RNAi Screening
Research Mentor Michele Cleary
Research Institution UNCF Merck Science Initiative
Home Institution Sanfod University
Co-Authors Matthew Tudor and Michele Cleary, UNCF-Merck Science Initiative

Brooke Stevenson 155 8:45 – 9:45 AM
Presentation Title Radon on the Apsaalooke (Crow) Reservation
Research Mentor Nev Tall Bear
Research Institution Little Big Horn College
Home Institution Little Big Horn College
Co-Authors Neva Tall Bear, Little Big Horn College

Meredith Tallbull 122 9:45 – 10:45 AM
Presentation Title Iron-Sulfate Material Synthesis, Characterization
Research Mentor Robert Szilagyi
Research Institution Montana State University -Bozeman
Home Institution Chief Dull Knife College
Co-Authors Robert Szilagyi and Brad Towey, Montana State University

Carmen Taveras 69 8:45 – 9:45 AM
Presentation Title Rab-mediated Vesicle Trafficking during Epithelial Polarization
Research Mentor Geri E. Kreitzer
Research Institution Weill Cornell Graduate School
Home Institution Hunter College
Co-Authors Will Smith and Geri E. Kreitzer, Weill Cornell Graduate School

Kelsey Taylor 77 8:45 – 9:45 AM
Presentation Title Retrograde Mitochondrial Motility in Neurons
Research Mentor Thomas Schwarz
Research Institution Harvard University, Division of Medical Sciences
Home Institution Connecticut College
Co-Authors Thomas Schwarz and Michelle Cronin, Harvard University Div. of Medical Sciences

Milinda Thompson 43 8:45 – 9:45 AM
Presentation Title Correlation of Pulmonary Endothelial Barrier Function Modulation with Adherens Junction Protein Association and SHP2 Activity
Research Mentor Elizabeth Harrington
Research Institution Brown University
Home Institution CSU Long Beach
Co-Authors Elizabeth Harrington and Katie Grinnell, Brown University

Joseph Tillotson 40 9:45 – 10:45 AM
Presentation Title Effects of Radiation-Induced DNA Damage in Peripheral Lymphocytes of Breast Cancer Patients
Research Mentor Jennifer Hu
Research Institution University of Miami
Home Institution Chaminade University of Honolulu
Co-Authors Jennifer Hu, Venetta Thomas and Glenn Allen, University of Miami

Ulysses Toche 91 8:45 – 9:45 AM
Presentation Title The Role of FSP1-marked Fibroblast Cells in the Metastesis of 4T1 Cancer Cells
Research Mentor Raghu Kalluri
Research Institution Harvard University, Division of Medical Sciences
Home Institution Morehouse College
Co-Authors Joy Tse and Raghu Kalluri, Harvard University Div. of Medical Sciences

Danielle Toupo 33 8:45 – 9:45 AM
Presentation Title Engineering Antibodies Using A Bacterial Inner Membrane Display
Research Mentor Matthew DeLisa
Research Institution Cornell University
Home Institution University of Delaware
Co-Authors Amy J. Karlsson and Matthew P. DeLisa, Cornell University
Nancy Truong 132 9:45 – 10:45 AM
Presentation Title Longitudinal Effect of Family Type and Popularity on Adolescent Male Delinquency
Research Mentor Patrick Tolan
Research Institution University of Virginia School of Education
Home Institution Kenyon College
Co-Authors Patrick Tolan, Angela Henneberger and Myles Durkee, University of Virginia

Gabrielle Winston-McPherson 127 8:45 – 9:45 AM
Presentation Title Synthesis of Nantenine Derivatives as Potential 5-HT2A Antagonists
Research Mentor Wayne Harding
Research Institution Hunter College
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MaKendra Umstead 117 8:45 – 9:45 AM
Presentation Title Optimization of Hot Stage Microscopy and XRPD Methods for the Physicochemical Characterization of Drug Candidates
Research Mentor Pierre Daublain
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Co-Authors Pierre Daublain and Caroline McGregor, Merck Research Laboratories Boston

Nadyan Vargas 24 9:45 – 10:45 AM
Presentation Title Race and Ethnic Variation in Skin Toxicity in Breast Cancer Patients Receiving Radiation Treatment
Research Mentor Jean Wright
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Co-Authors Jean Wright, University of Miami

Jasmine Williams 45 8:45 – 9:45 AM
Presentation Title Role of MK-1775, a Weel Inhibitor, in Potentiation to Chemotherapeutics
Research Mentor Stuart Shumway
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Lindsay Wilson 105 8:45 – 9:45 AM
Presentation Title Energetic Contributions to Multidrug Recognition
Research Mentor Herschel Wade
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NEW LEADERSHIP ALLIANCE DOCTORAL SCHOLARS

The Leadership Alliance congratulates the following doctoral scholars who have acknowledged completion of their PhDs or MD/PhDs since LANs 2009. This listing of 29 doctoral scholars brings the total of Leadership Alliance doctoral scholars to 181.

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Cheryl Burgan Apprey is the Director of Graduate Student Diversity Programs in the Office of the Vice President for Research. This office is dedicated to the recruitment, mentoring, retention, and graduation of underrepresented and underserved graduate students. Dr. Apprey served as Associate Dean of the Graduate School at Miami University for thirteen years and was a tenured faculty at Miami University for twenty-three years before moving to the University of Virginia to launch the Graduate Student Diversity Programs. Dr. Apprey received her B.S. from Howard University, M.S. from Miami University, and her Ph.D. from The Ohio State University.

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Earnestine Baker is the Assistant to the Vice President of Institutional Advancement/Executive Director of the Meyerhoff Scholars Program at the University of Maryland, Baltimore County (UMBC). She joined UMBC in 1983 as the Coordinator of Minority Recruitment in the Office of Admissions. Between 1987 and 1992 she served as Associate Director for Scholarships at the University. In 1992, Mrs. Baker was appointed Director of the Meyerhoff Scholars Program, a nationally recognized program for talented students interested in pursuing terminal degrees in the sciences, mathematics, and engineering and computer science. The University System Maryland (USM) Board of Regents selected Mrs. Baker as the USM Outstanding Member for service to its community in July 2008. Mrs. Baker served as the Director of the Meyerhoff Scholars Program at UMBC for ten years and was appointed the Executive Director of the Program in 2002.

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Jabbar R. Bennett, Ph.D., is Assistant Dean for Recruiting and Professional Development in the Graduate School at Brown University. He is primarily responsible for Graduate School recruitment, and mentoring and counseling graduate students and postdocs on issues related to career progression. Prior to joining Brown he served on the faculty at Harvard Medical School and directed the Office for Multicultural Faculty Careers at Brigham and Women’s Hospital, a Harvard Medical School teaching affiliate. Previously, Dr. Bennett also served as Senior Director of Development for Life Sciences, Healthcare and Education Industry Partnerships with United Way of Massachusetts Bay (UWMB) in Boston, and as Research and Science Specialist in the Office for Diversity and Community Partnership at Harvard Medical School. Dr. Bennett received his B.S. in biology and minor in Spanish from North Carolina Agricultural and Technical (A&T) State University, and his Ph.D. in biomedical sciences from Meharry Medical College.
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Anita Blanco serves as Director of Diversity Recruitment and Retention in the Genetics Department of Stanford University’s School of Medicine. In this capacity, Ms. Blanco seeks to increase the diversity of doctoral and post-doctoral students engaged in research related to genetics and genomics. She serves as a strong advocate for diverse doctoral applicants when participating in the application review process and determining offers of admission. Professionally, she has 13 years of experience in increasing and fostering diversity in academia. She has also served on numerous Boards of Directors at local, state, and national levels with various non-profits and professional associations. Graduating with a bachelor’s degree at age 19, Ms. Blanco earned her undergraduate degree from Mary Baldwin College and graduate degree from Arizona State University.

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Dr. Travis Boyce is an Assistant Professor of Africana Studies and Social Sciences at the University of Northern Colorado (UNC). He coordinates the Africana Studies, B.A. Secondary Teaching Emphasis: Social Science Endorsement. This academic year, he will serve as a Faculty in Residence for Housing and Residence Life at UNC. He is a specialist in African American educational history, African American contemporary history and African American leadership. His research includes the history of African American college presidents and Historically Black Colleges and Universities (HBCUs) during the era of the Civil Rights Movement and the Cold War. A 2001 Yale University SR-EIP fellow, Dr. Boyce received his B.A degree in history from Claflin University in 2002, his M.A. degree in history from Ohio University in 2004, and a Ph.D in Cultural Studies from Ohio University in 2009.

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Lawrence (Skip) Brass, MD PhD is a 1970 graduate of Harvard College and received his MD and PhD from Case Western Reserve University in 1977. He stayed at CWRU for residency training in internal medicine before becoming a fellow in Hematology-Oncology at Penn in 1979. He has been a member of the Penn faculty since 1982, served as Vice Chair for Research in the Department of Medicine (2004 – 2007), and is currently Professor of Medicine and Pharmacology. He became Associate Dean and Director of the MD-PhD program in 1998. Dr. Brass has been active at the national level in the development of training programs for physician-scientists. He is a past President of the National Association of MD-PhD Programs. He is a current member of the NIH study section that reviews T32 training grants. Dr. Brass’s research interests lie in the fields of hemostasis and vascular biology.

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Steve Breckler is Executive Director for Science at the American Psychological Association. Before joining APA in 2004, Steve was Program Director for Social Psychology at the National Science Foundation, a position he held since 1995. Steve made the jump into science administration after 11 years on the faculty at Johns Hopkins University, where he taught introductory social psychology, attitudes and social influence, research methods, and multivariate statistics. Steve completed his undergraduate studies at University of California, San Diego; he did his graduate training at Ohio State University; and he held a post-doctoral fellowship at Northwestern University. Strongly committed to sparking students’ interest in social psychology, Steve is co-author with James Olson and Elizabeth Wiggins of the new textbook, Social Psychology Alive.
**Dawn P.G. Brown**  
Eli Lilly & Company

Dawn P.G. Brown is currently a Research Scientist in the Animal Health Division at Eli Lilly and Company in Indianapolis, IN. She currently serves as the Efficacy and Safety Leader for Therapeutics for the Companion Animal Product Development team. Prior to this, she was a Post-doctoral Scientist, and her research included biomarker discovery and drug development for Osteoarthritis and Alzheimers Disease under Dr. Kevin Duffin at Lilly Research Laboratories. She earned her Ph.D. in Biochemistry and Molecular Biology at Indiana University School of Medicine, under the guidance of Dr. Mu Wang. Her dissertation work was titled Understanding Cisplatin Drug Resistance in Human Ovarian Cancer, in which she received funding by the GAANN fellowship, Edwin T Harper Scholarship and the Ruth L. Kirschstein National Research Service Award from the NIH. She completed her undergraduate degree at Fisk University, where she first found her passion for research through summer internships.

**Brenda Cadiz-Rivera**  
University of Rochester

Brenda Cadiz-Rivera is a Biochemistry graduate student at the University of Rochester Medical Center. She received her B.S. degree in Biology from the University of Puerto Rico-Humacao, where she was a McNair Scholar and NIH-RISE student. Upon admission to the University of Rochester, she was a recipient of the Elmer H. Stotz award in recognition of her potential. She currently works with Dr. Michael Bulger investigating the function of broad patterns of covalent histone modifications, normally associated with gene activation termed “hyperacetylated domains”, and attempting to elucidate the mechanism by which they form within the β-globin locus. This year Brenda will be part of the Cellular, Biochemical and Molecular Sciences training grant. She plans to take a post-doctoral position and pursue a career in academic research.

**Liza Cariaga-Lo**  
Harvard University

Liza Cariaga-Lo is Assistant Provost for Faculty Development and Diversity at Harvard University. She was previously Assistant Dean at the Yale Graduate School of Arts & Sciences and the Director of the Office for Diversity and Equal Opportunity, as well as Clinical Professor, Child Study Center at Yale School of Medicine. She received her master’s and doctorate in Education and Developmental Psychology from Harvard University. Besides teaching courses related to minority health and developmental psychology, Dr. Cariaga-Lo has also taught African American Studies and Asian American Studies courses and consults widely on cultural diversity and multicultural education issues. Her areas of research include education program evaluation, minority student development, ethnic minority health care, and public policy affecting children and families. She has just completed work on a book about the identity development of Asian Americans and is working on a children’s book about growing up in a multicultural environment.

**Dean M. Evasius**  
Program Director, Division of Mathematical Sciences, National Science Foundation

Dean Evasius is a Program Director in the Division of Mathematical Sciences (DMS) at the National Science Foundation, where he currently heads the Workforce and Infrastructure programs. He was previously the Program Director for the Probability program. Prior to arriving at NSF in 2004, he was a research mathematician at the National Security Agency. He received a B.S. degree from UCLA, and a Ph.D. from Caltech. His research interests include cryptography, harmonic analysis, applied probability, and signals processing.
Charisma Edwards  
Louisiana State University

Charisma D. Edwards is currently a doctoral student in Electrical Engineering at Louisiana State University in Baton Rouge, Louisiana. Her research is in digital signal processing with a focus in neurological signal classification, which was inspired by her work in neuroimaging at Emory University in Atlanta, Georgia. Through her experiences as a pre-college and college freshman instructor with LSU College of Engineering Diversity Programs and as a NSF K-12 Fellow, she developed a strong interest in and passion for K-12 outreach and engineering education. Charisma gained recognition as a leader of the Black Graduate and Professional Student Association at LSU and was recently nominated for Graduate Student Leader of the Year. She earned her B.S. in Engineering from Clark Atlanta University in 2004 and her M.S. in Electrical Engineering from LSU in 2007. Ms. Edwards hopes to receive her Ph.D. in Electrical Engineering from LSU in 2011.

Allyson Fauver  
Institute for Broadening Participation

Allyson Fauver is a policy analyst and media specialist with the Institute for Broadening Participation, a non-profit organization created to design and implement strategies to increase access to STEM (Science, Technology, Engineering, and Mathematics) education and careers for diverse underrepresented groups. Ms. Fauver received her B.A. degree in International Development Studies from Marlboro College, and her J.D. degree, with a focus on natural resources and energy policy, from the University of Maine School of Law.

Omar Figueredo  
Cornell University

Omar Figueredo is a third-year PhD student in the Department of Romance Studies at Cornell University. His current research focuses on contemporary Latina/o fiction and its engagement with political and cultural issues of urban space. Reading texts that are concerned with the transformation of space, he is attempting to develop a framework to understand these interpretive practices as a translation process. Before arriving at Cornell, he participated in the 2007 Cornell University Leadership Alliance summer program and received his B.A. in Spanish/Comparative Literature from the University of Rochester in 2008.

Tiffani Fonseca  
American Society for Microbiology

Tiffani Fonseca is Fellowship Programs Coordinator in the Education Department of the American Society for Microbiology (ASM). She is responsible for five fellowship programs: the ASM/CCID Postdoctoral Research Fellowship, the ASM Robert D. Watkins Graduate Fellowship, the ASM Undergraduate Research Fellowship, the ASM-Microbiology Undergraduate Research Fellowship, and the ASM Undergraduate Teaching Fellowship. Prior to working at ASM, she was the Outreach and Production Specialist/Program Coordinator at the Kuwait America Foundation and its affiliate (the Embassy of the State of Kuwait). Fonseca holds dual bachelor’s degrees in Cognitive and Experimental Research in Psychology and Intercultural Communications. She has studied abroad in Accra, Ghana, and Roatan, Honduras, and conducted extensive research on blindsight, Parkinson’s disease, Alzheimer’s disease, and for the National Survey of Student Engagement Report among others.
Who’s Who at the Symposium

Aliya Frederick

Vanderbilt University

Aliya Frederick is a M.D./Ph.D. candidate in the Neuroscience Graduate Program at Vanderbilt University completing her thesis in the laboratory of Dr. Gregg Stanwood (Pharmacology, Kennedy Center on Human Development). Aliya attended the University of Maryland Baltimore County (UMBC) for her undergraduate career where she was a Meyerhoff and MARC U*STAR scholar, a Goldwater Scholarship recipient in 2004, and elected to Phi Beta Kappa Society in 2005. Aliya graduated magna cum laude from UMBC with a B.S. degree in Biochemistry and Molecular Biology. Aliya’s thesis research, focused on identifying adaptations in molecular substrates in dopamine-modulated signaling systems following developmental disruption of dopaminergic signaling by prenatal cocaine exposure, is supported by a Ruth Kirschstein NRSA pre-doctoral fellowship from the National Institute on Drug Abuse. Aliya is currently in the Neuroscience Scholars Program (SfN) and has co-authored a review article “Drugs, Biogenic Amine Targets and the Developing Brain” published in Developmental Neuroscience.

Michael Gaines

University of Miami

Michael Gaines is Professor of Biology and Assistant Provost for Undergraduate Research and Community Outreach at the University of Miami. In his role as assistant provost, Prof. Gaines assists undergraduates finding intramural research experiences and extramural research internships in the U.S. and abroad. Dr. Gaines is director of the UM's HHMI Program. He directs a NIGMS Bridge Program between the University of Miami and Miami-Dade College. He also directs an NIGMS Initiative for Maximizing Student Diversity, a research training program for minority graduate students pursuing PhDs in the biomedical sciences. He has won every major teaching award at UM including a prestigious university-wide Excellence in Teaching Award. Gaines’ research interests focus on the ecological genetics of endangered small mammal species in South Florida. He was recently honored with the UM's Sigma Xi Chapter’s Scientist of the Year Medal. Prof. Gaines received his B.S. degree from Tulane University and his Ph.D. from Indiana University.

Ruth Gotian

Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional MD-PhD Program

Ruth Gotian is the Administrative Director of the Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional MD-PhD Program for the last 14 years. She received her B.S. and M.S. in Business Management from the University at Stony Brook in New York. Since joining the staff of the Tri-Institutional MD-PhD Program, Mrs. Gotian has seen the size of the program increase by nearly 25%, the number of applications to their MD-PhD Program has increased by over 30% and the number of underrepresented minority students in their program has doubled and is now one of the highest in the country. Mrs. Gotian also oversees the unique summer program for pre-MD-PhD students, Gateways to the Laboratory Program. She is also very active on the national MD-PhD Program scene, as she serves on the National MD-PhD Executive Committee of the Association of American Medical Colleges (AAMC) and is on the National MD-PhD Communications Committee.

Louise Hainline

Brooklyn College

Louise Hainline is Dean of Research and Graduate Studies at Brooklyn College, and a Professor of Psychology whose research interests are in the development of vision and problems of vision in early infancy. She also does research on how people learn in higher education. In addition to her formal administrative duties, Ms. Hainline heads several of the College’s programs in support of minority student training, most notably the Minority Access to Research Careers (MARC) program and the Research Initiative for Scientific Enhancement (RISE) program. She received an undergraduate degree in Psychology with honors from Brown University, and M.A. and Ph.D. degrees in Developmental Psychology from Harvard University.
Andrew Hao
University of California, Berkeley

Andrew Hao is a Ph.D. candidate in Cultural Anthropology at the University of California, Berkeley. His research focuses on the emergence of corporate social responsibility and business ethics initiatives in contemporary China. Tackling between multinational corporations, native Chinese firms, and state officials, his dissertation project utilizes on-the-ground interview and fieldwork with the experts sustaining the “ethical turn” in Chinese economic practices. His research has been supported by the National Science Foundation, the Pacific Rim Research Program, the Institute on Global Conflict and Cooperation, the U.S. Department of State, the National Endowment for the Humanities, and the Tata Corporation. From 2009-2010, he was a Visiting Exchange Scholar at the University of Pennsylvania and an adjunct faculty member at Montclair University, and has taught at U.C. Berkeley and Rider University. He has presented his work to academic, commercial, and government audiences in conferences in the United States, Singapore, and China. He received his B.A. from Columbia University.

Mark Hernandez
University of Colorado at Boulder

Mark Hernandez attained all of his degrees from the University of California, Berkeley’s College of Engineering. After a post-doc (also at Berkeley) and several years of professional practice, he joined the University of Colorado faculty in 1996, where he is a Professor in the Department of Civil, Environmental and Architectural Engineering. He also serves as a Director of the Colorado Diversity Initiative, which coordinates major diversity efforts among science, math, and engineering departments, with a focus on promoting underrepresented students through graduate schools and into the professorate. He won the Water Environment Foundation’s Canham Award to support technology transfer between the US and England, and was a recipient of a National Science Foundation early CAREER award. Dr. Hernandez maintains a modest consulting practice, serves as an expert witness in the remediation field, and holds US patents for wastewater reclamation; he has over 50 archival publications.

Meda Higa
University of Pennsylvania

Meda Higa is an NIH IRACDA Post-doctoral Fellow in the laboratory of Dr. Robert W. Doms in the Department of Microbiology at the University of Pennsylvania. Her research is focused on understanding how hantavirus glycoproteins mediate entry of these viruses into host cells. Through the IRACDA PENN-PORT program, she has also taught courses at Rutgers-Camden, The State University of New Jersey and Lincoln University in Pennsylvania. Dr. Higa completed her thesis at the University of Utah in Oncological Sciences and earned a B.A. from the University of California, Santa Cruz in Molecular, Cellular, and Developmental Biology. In addition to being participating in the Leadership Alliance SR-EIP at Brown University (1997), she is an active member of SACNAS (Society for the Advancement of Chicanos/Hispanics and Native Americans in the Sciences) and currently serves as chair of the postdoctoral committee.

Karen Jackson-Weaver
Princeton University

Dr. Karen Jackson-Weaver is the Associate Dean of Academic Affairs and Diversity at Princeton University’s Graduate School. Prior to her post at Princeton, she served as the Executive Director of the New Jersey Amistad Commission. Dr. Jackson-Weaver’s area of specialization is 20th century African-American history, with a focus on women’s leadership roles in Modern America. She has been a Research Fellow at the Institute for Research in African-American Studies at Columbia University and a faculty member at the Institute of Youth Ministry at Princeton Theological Seminary. Dr. Jackson-Weaver earned her Bachelor of Arts degree from Princeton University, where she majored in American History. Upon graduation from Princeton, Dr. Jackson-Weaver attended Harvard University where she received a Specialized Master’s Degree in Education. She holds a Doctorate of Philosophy in American History from Columbia University, where she was a Kluge Scholar Fellow, Merit Dissertation winner and nominee for the university-wide teaching award.
Emmitt R. Jolly
Case Western Reserve University

Emmitt Jolly is an assistant professor in the Department of Biology and assistant adjunct professor in the Center for Global Health and Disease at Case Western Reserve University. He received a B.S. in Biology from Tuskegee University in 1996, where he was a Presidential Scholar, and a Ph.D. in biochemistry and molecular biology in 2004 from the University of California, San Francisco (UCSF), where he also completed his postdoctoral research. During his tenure at UCSF, he was a Ford Foundation Fellow, an UNCF/Merck Dissertation and postdoctoral Fellow, and was awarded the UCSF’s Chancellors Martin Luther King Jr. Award. He is president and cofounder of the Association of UNCF/ Merck Fellows, a not-for-profit think-tank organization of biomedical scientists and is very interested in community outreach and scientific development. His leadership has led to a Proclamation from the Governor of Alabama and an award for his leadership from the California State Senate.

Marcus Jones
J. Craig Venter Institute

Marcus Jones is a Staff Scientist at the J. Craig Venter Institute in Rockville, MD, where he manages the Microarray Gene Expression and Systems Biology Transcriptomics groups. His research focuses on understanding antibiotic resistance across the Prokaryotic Kingdom, characterizing intracellular gene expression of the bacterial pathogens Bacillus anthracis and Francisella tularensis and characterizing the Systems Biology of Yersinia pestis and Salmonella enterica. Marcus received his Ph.D. in Microbiology and Infectious Diseases from the Sackler Institute of Graduate Biomedical Studies at New York University School of Medicine in May 2005. While at NYU School of Medicine, he was co-President of the Graduate Student Council, a student member of the Graduate Admissions Committee at NYU, and a founding member of the Advisory Board to the Office of Diversity Affairs. Marcus graduated from Southern University and A&M College in Baton Rouge, LA in May of 2000 where he earned a B.S. in the Biological Sciences concentrated in microbiology.

Scott Keller
Montana State University – Bozeman

Scott Keller is an Adjunct instructor in the Civil Engineering Department where he specializes in Transportation Engineering. He has extensive experience with Geometric design, handicapped accessibility, and roadside guardrail and has presented numerous courses for the University as well as professional development courses for designers, architects, and engineers. Scott is a registered Professional Engineer and has held numerous full-time positions in construction and design within the Montana Department of Transportation (MDT) for the past 25 years. He has extensive management and design experience, and for the past 18 years has headed a student design unit on the MSU-Bozeman campus. The MSU Design Unit is responsible for developing plans packages for construction throughout the state of Montana, using undergraduate students to complete the designs.

Laina King
Keystone Symposia on Molecular and Cellular Biology

Dr. King is the Director for Diversity in Life Science Programs and Co-Mentor of the Keystone Symposia Fellows Program. Former academic dean and professor of pharmaceutical sciences at a regional health sciences center, she joined Keystone Symposia in 2008. A past appointed member of the AMA/AAMC Liaison Committee on Medical Education (LCME), she has held numerous academic appointments along with serving as Japan consultant for the U.S. DOD and currently she is a member of a U.S. FDA Drug Advisory Committee. Keystone Symposia, founded as UCLA Symposia in 1972 offers scholarships and mentoring opportunities for scientists attending the 60+ “cutting-edge” research conferences held globally each year. Dr. King received her B.A. in Philosophy from The University of Michigan, with M.A. and Ph.D. degrees from that same institution.
Who’s Who at the Symposium

**Charla Lambert**

University of Pennsylvania

Charla Lambert is an NIH IRACDA postdoctoral fellow in the Genetics Department at the University of Pennsylvania. The IRACDA program (Institutional Research and Academic Career Development Awards) combines a traditional research postdoctoral experience with teaching opportunities at minority-serving undergraduate institutions. Dr. Lambert conducts research in the laboratory of Dr. Sarah Tishkoff, and she taught courses in molecular biology and human genetics during the 2009-2010 academic year at Rutgers University in Camden, New Jersey. Dr. Lambert’s research interests are in human population genetics, specifically in computational methods for analyzing patterns of variation in DNA sequence and inferring the effects of both demography and natural selection. She received a B.S. degree in mathematics from MIT and a Ph.D. degree in genome sciences from the University of Washington in Seattle.

**Patricia Lee-Robinson**

Chaminade University of Honolulu

Patricia Lee-Robinson is Associate Professor of Biology and the Director of Academic Enrichment Programs in the Division of Natural Sciences and Mathematics at Chaminade University of Honolulu. Ms. Lee-Robinson is the Institutional Coordinator for The Leadership Alliance, and serves on the Symposium Planning Committee. For the past several years she has spearheaded efforts for Chaminade’s science and mathematics students to participate in training and research experiences across the country through conferences, summer programs and networking relationships. Ms. Lee-Rob, as students know her affectionately, is an outstanding student advocate and mentor. Ms. Lee-Robinson received her B.A. from Mount Holyoke College and holds M.Ed. and M.S. degrees from the University of Hawai’i.

**Dr. Dana E. Lehr**

National Science Foundation

Dana Lehr is a Program Director in the Division of Astronomical Sciences (AST) at the National Science Foundation (NSF). Her responsibilities include serving as Program Manager for the National Astronomy and Ionosphere Center (NAIC) and for the NSF Astronomy and Astrophysics Postdoctoral Fellowships (AAPF) Program. Dr. Lehr came to NSF in 2002 as an American Association for the Advancement of Science (AAAS)/NSF Science and Engineering Fellow in the NSF Office of Postdoctoral Programs (OPP), where she managed the development of the Postdoctoral Fellowships in Polar Regions Research Program. Prior to her arrival at NSF, Dr. Lehr was a Visiting Assistant Professor in the Departments of Astronomy and Physics at Wellesley College. She received her Ph.D. in physics from Stanford University in 2000.

**Tiffany Link**

Johns Hopkins School of Medicine

Tiffany Link is a student in the Medical Scientist Training Program at Johns Hopkins. She is going into her seventh year, having just completed her Ph.D in the laboratory of Michael Caterina, studying the role of the ion channel TRPV2 in macrophage function in mice. She was recently rewarded the Michael Shanoff Young Investigator award for excellence in research, the top award given at Hopkins for graduate student research. Her research was recently published in the March edition of Nature Immunology. She is now back in medical school, beginning her third year clerkships. She is interested in the field of Dermatology and hopes to have a career in academic medicine studying the etiology of various inflammatory skin conditions. Ms. Link received her B.S. and B.A. degree in Biochemistry and Chemistry, respectively, as well as minors in Biology and Communications from California State University, Long Beach.
WHO'S WHO AT THE SYMPOSIUM

Lynette Lopes
Imagine You lc

Lynette Lopes is the President/Founder of Imagine You lc (Life Coaching), a personal transformation training firm founded in 2000; dedicated to positively and profoundly impacting clients’ lives, through specialized individual or group coaching, workshop facilitation, presentation skill development, motivational speaking, image consultation, mentoring and training development programs, thus empowering them to positively impact their families, workplaces and communities. Lynette holds a B.A. in Communications and Management (concentration in public speaking) from Rhode Island College, and a Training & Development Certification from Bryant University, and Trained Co-Active Coach from Coaches Training Institute (CTI). She is a United States Coast Guard Auxiliary Staff Officer and Certified Instructor, National Urban League Guild Eastern Regional Coordinator (12 states) and former host of “Able Too” Television talk show. As a Licensed Optician, Lynette has traveled worldwide including Albania, Bangladesh, Tunisia, Mexico, Singapore, Taipei and Switzerland, providing eyeglasses to the underprivileged with the Give the Gift of Sight program.

Joseph Marlin
New York University School of Medicine

Joseph Marlin is a second-year M.D./Ph.D. fellow at the NYU School of Medicine, and plans on pursuing research in Neuroscience. In 2008, Joseph received his B.A. in Molecular and Cell Biology and his B.S. in Chemistry from the University of California, Berkeley. Currently, Joseph is acting as a counselor for the NYU Summer Undergraduate Research Program, which is under the directorship of Dr. Joel Oppenheim. This is Joseph’s second appearance in the Leadership Alliance National Symposium; his first was in 2007.

Jose Ricardo McFaline-Figueroa
Columbia University

Jose Ricardo McFaline-Figueroa is an MD/PhD student at Columbia University. He is currently conducting his research in the Department of Pathology and Cell Biology of Columbia University Medical Center in the laboratory of Dr. Liza Pon, whose studies focus on organellar function, inheritance and dynamics, particularly those of the mitochondrion. Specifically, McFaline-Figueroa studies the relationship between mitochondrial inheritance, cell polarity and aging. He is a research fellow for the National Institute on Aging for “Cell Polarity and Aging,” research intended to provide clues into the conserved mechanisms of cellular degeneration and cellular rejuvenation, and insights into possible treatment strategies for age-associated diseases. He received his B.S. in Chemistry from the University of Puerto Rico, Mayagüez Campus.

Paulette McRae
Children’s Hospital of Philadelphia

Paulette McRae is a Postdoctoral Fellow in the Department of Neurology at the Children’s Hospital of Philadelphia (CHOP). Dr. McRae is currently studying the effects of seizure activity on the development and maintenance of the extracellular matrix. In addition, she serves as the Co-Diversity Officer in the National Postdoctoral Association (NPA). She has traveled to national meetings to recruit on behalf of Yale University, CHOP, and the NPA. Dr. McRae has directly worked as a mentor, invited speaker, and/or invited panelist, with a number of programs aimed at increasing interest in academic research careers (Yale Summer Undergraduate Research Program; Rutgers and Yale Undergraduate Research Alliance; Penn Undergraduate Research Mentoring Program; UPenn’s Summer Undergraduate Internship Program). Dr McRae received her B.A. in Psychology from Rutgers University and her Ph.D. in Neurobiology from Yale University, where she was the first African American to earn this degree.
Keith Micoli
New York University School of Medicine

Keith Micoli is the Postdoctoral Program Manager at NYU School of Medicine, a position that oversees the appointments and training of over 350 postdoctoral scholars. He also serves as the Ethics Program Coordinator and is Course Director for the Grantwriting for Scientists course. He served as Chairman of the National Postdoctoral Association's Board of Directors for two terms, and is currently a member of the Committee to Study the National Needs for Biomedical, Behavioral, and Clinical Scientists. He received his BA from New College of Florida, and a Ph.D. from the University of Alabama at Birmingham where he studied HIV/AIDS pathogenesis.

Sharon Milgram
National Institutes of Health

Dr. Sharon Milgram received a B.S. degree in physical therapy from Temple University in 1984 and a Ph.D. in cell biology from Emory University in 1991. She completed a postdoc at The Johns Hopkins University before joining the faculty at The University of North Carolina at Chapel Hill in 1994. Dr. Milgram's research focuses on cell signaling and protein trafficking in polarized cells. While at UNC, she founded and advised the UNC Office of Postdoctoral Services and served on the advisory committee of the Sigma Xi National Postdoc Survey. In 2007 Dr. Milgram joined the NIH Office of the Director as the Director of the Office of Intramural Training and Education. There she directs a trans-NIH office dedicated to the career advancement of over 5,000 trainees.

Michelle Nearon
Yale University

Dr. Michelle Nearon received her B.S. and M.S. degrees in aerospace engineering from the Massachusetts Institute of Technology and Brooklyn Polytechnic University, respectively. After completing her master's degree she devoted approximately eight years to both the aerospace and automotive industries, beginning as a research engineer and ultimately becoming a general manager. She then returned to academia and received a Ph.D. from Stony Brook University in May 2000 in mechanical engineering. After graduating Dr. Nearing remained at Stony Brook University until June 2008 as an Assistant Professor in the Department of Mechanical Engineering. She also simultaneously served as the Director of Recruitment and Diversification for the University's College of Engineering and Applied Sciences. Dr. Nearing joined Yale University in July 2008 and is currently an Assistant Dean in the Graduate School and the Director of the Office for Diversity and Equal Opportunity. The Office is committed to promoting diversity and inclusivity and building a supportive graduate school community.

Mageurite Nguyen
Tulane University

Marguerite Nguyen is Mellon Postdoctoral Fellow in the Humanities at Tulane University. Based in the English Department, she also works with the departments of American Studies and Asian Studies and teaches courses on Asian American culture, comparative literatures of the Vietnam War, and the Vietnamese diaspora. Her current book manuscript, Vietnamese-American Encounters: Race, Power, and Literary Innovation, traces how U.S. ties to Viet Nam begin as 18th century literary critiques of European imperialism and help establish formal experimentation as an effective mode of political critique in America. Her next project examines Asian American literary transformations of the U.S. and global South. Dr. Nguyen received her B.A. degree in English from Duke University and her Ph.D. degree in English from the University of California, Berkeley. She was a Leadership Alliance Fellow at NYU in 1997 and will begin teaching at Wesleyan University as Assistant Professor of English beginning in Fall 2011.
Joel Oppenheim
New York University School of Medicine

Joel Oppenheim is Senior Associate Dean for Biomedical Sciences, New York University Langone Medical Center, a position that oversees all Ph.D. and postdoctoral training. He also serves as Director of NYU’s Sackler Institute of Graduate Biomedical Sciences, the largest Ph.D. granting division of NYU’s Graduate School of Arts and Sciences, and is a member of the School of Medicine’s M.D. and M.D./Ph.D. Admissions Committees and Chairs the Ph.D. Admissions Committee. He is the founder and director of NYU’s Summer Undergraduate Research Program and is also responsible for recruiting students to all NYU School of Medicine programs. Dr. Oppenheim received his B.S. degree in Zoology from the University of Wisconsin, his M.S. and Ph.D. degrees in Microbiology from Loyola University School of Medicine, and was a NIH Postdoctoral Fellow at NYU School of Medicine. Presently Dr. Oppenheim chairs the Executive Committee of the Leadership Alliance.

Margaret Petrochenkov
The National Academy of Science

Margaret “Peggy” Petrochenkov is a Program Officer at the National Academies where she has been involved in policy, evaluation strategies, selection of review panels, design of fellowship applications, and database management for 20 years. She is currently one of the organizers of the Fellowship Roundtable, a group that meets twice a year to discuss fellowship program administration. The Fellowships Office administers fellowships on behalf of the Ford Foundation and arranges review panels for the Vietnam Education Foundation Fellowships. We also administer postdoctoral awards for placement in federal laboratories and the Jefferson Science Fellows Program which permits senior academics in science to spend a year at the State Department. Dr. Petrochenkov earned her B.A. degree at the University of Colorado and her Master’s and Ph.D. degrees in comparative literature at Indiana University, specializing in cultural criticism and literary theory, and is fluent in French and Russian.

Willie Pearson, Jr.
Georgia Institute of Technology

Willie Pearson, Jr. is a professor of sociology, and former chair, of the School of History, Technology, and Society at the Georgia Institute of Technology. Dr. Pearson’s research centers on the career patterns of Ph.D. scientists – particularly African Americans – and human resource issues in science and engineering. He is the author or co-editor of numerous published works. Dr. Pearson heads the SR-EIP evaluation team. He is a Fellow of the American Association for the Advancement of Sciences (AAAS) and a lifetime National Associate for the National Academies. Currently he serves on advisory committees in the Education and Human Resources Directorate, NSF, the Brudhoffs Wellcome Fund, and the National Academy of Sciences. Dr. Pearson received his Ph.D. from Southern Illinois University, Carbondale and held postdocs at the Education Testing Service and the Office of Technology Assessment, U.S. Congress.

David Redman
Princeton University

David Redman is the Associate Dean for Academic Affairs at Princeton University, a position he has held since 1987. Prior to 1987, Dr. Redman was the Assistant Dean of the Graduate School (Budget and Financial Planning, Student Affairs and Housing, and Foreign Students) and Assistant Dean for Academic Affairs for the humanities and social sciences. Dr. Redman earned a B.A. in English from Williams College and a B.A. with honors in English from Worcester College at Oxford. He received his Ph.D. in English Literature from Yale University.
Glenn Rowe  
Harvard Medical School

Glenn Rowe is currently a Post-Doctoral Research Fellow in the Cardiovascular Institute at the Beth Israel Deaconess Medical Center and a Harvard Medical School affiliated teaching hospital. Dr. Rowe’s research interest focuses on the gene regulatory event, which regulate metabolism in highly oxidative tissue such as heart and muscle. Dr. Rowe received his A.S. in Biotechnology from Mass Bay Community College (MBCC), his B.S. in Biology from Brandeis University and his M.S. and Ph.D. in Molecular, Cellular and Developmental Biology from Yale University. Dr. Rowe also serves on the Board of Trustees of MBCC.

Pamela Scott-Johnson  
Morgan State University

Pamela E. Scott-Johnson is Chair and Associate Professor in the Department of Psychology at Morgan State University. Dr. Scott-Johnson’s research seeks to examine the gender differences in psychosocial factors that impact health and wellness. She has been an active participant with the American Psychological Association Education and Science Directorates, Project Kaleidoscope/Faculty for the 21st Century, and the Association of Heads of Departments of Psychology (AHDP). She served on a number of review panels within the academic and funding agencies. Prior to her academic affiliations, Dr. Scott-Johnson worked in the food industry as a senior research scientist. Dr. Scott-Johnson held memberships in the Society for Neuroscience, Faculty for Undergraduate Neuroscience (FUN; councilor), the American Psychological Association, and the Association for Chemoreception Sciences (AChemS). She earned a B.A. degree in Psychology and graduated magna cum laude from Spelman College in 1982, and an M.A. and Ph.D. in Psychology and Neuroscience from Princeton University.

Laurel Southard  
Cornell University

Laurel Southard is the Director of Undergraduate Research and Outreach in Biology at Cornell University. She directs the Cornell Hughes Scholar Program, the Leadership Alliance Summer Program, and the Cornell Institute for Biology Teachers. She did her undergraduate work at the University of New Mexico in biology and art. Her research with Dr. Alexander Kisch of the University of New Mexico School of Medicine inspired a lifelong love of infectious disease and her recognition of the power of mentoring and faculty support. She studied parasitology and tropical medicine at Tulane University before moving to Cornell. After studying the importance of capsid proteins in viruses for many years, she joined the Office of Undergraduate Biology. In her current position, in addition to directing the programs above, she teaches and advises undergraduate biology majors.

Jocelyn Spragg  
Harvard University

Jocelyn Spragg is the Faculty Director of Diversity Programs and Special Academic Resources in the Ph.D. programs office at the Harvard Medical School. She received a B.A. from Smith College, Ph.D. from Harvard University in Bacteriology and Immunology, and Ed.M. in Academic Counseling Psychology from Boston University. Prior to 1990, her research interests as a Harvard University faculty member included mediators of inflammatory reactions, biochemistry of the kallikrein systems, clotting mechanisms and related areas. She is an author of over 50 research papers. Since 1990, Dr. Spragg’s career interests have focused on career and academic counseling and the development and administration of programs and curricula to encourage women and members of under-represented minority groups to consider careers in sciences. Dr. Spragg is the developer and director of the Summer Honors Undergraduate Research Program and, until recently, was the faculty administrative advisor to the Four Direction Summer Research Program.
Sophia Suarez  
Brooklyn College  

Dr. Sophia Suarez is an Assistant Professor in the Physics Department at Brooklyn College in the City University of New York (CUNY) and a member of the CUNY Graduate Center Doctoral Faculty in Physics. She received her BA/MA in Physics from Hunter College and her Ph.D. in Experimental Condensed Matter Physics from the CUNY Graduate Center. She spent two and a half years in the Chemistry Division at the US Naval Research Laboratory in Washington, DC, as a National Research Council (NRC) post-doc fellow. Her research is focused on the use of NMR to study various types of materials, mainly with application in electrochemical devices such as fuel cells. Materials studied include proton conduction electrolytes for use in proton conduction membrane fuel cells, non-conducting polymers, and various superacids in a fundamental study of proton conduction mechanisms in aqueous systems.

Siovahn Walker  
Social Science Research Council  

Siovahn A. Walker, Ph.D., is Program Officer and Special Assistant to the President at the Social Science Research Council. A professional poet and academic, she holds a B.A. in Medieval and Modern European History from Brown University as well as an M.A. and Ph.D. in Medieval European History from Stanford University. Her professional area of expertise is the pre-modern history of moral philosophy and psychology, as well as the development and organization of medieval educational and religious institutions. She continues to pursue her research interests as a visiting scholar with the Institute for Public Knowledge at New York University and is currently working on a number of academic projects, most notably a history of de anima treatises.

Aileen Walter  
National Action Council for Minorities in Engineering  

Aileen Walter serves as vice president, University Programs at the NACME. In this capacity, she manages NACME scholarship programs and scholarship management services. Walter successfully directed NACME’s scholarship efforts (1990–1999), managing the growth of the Corporate Scholars Program and laying the groundwork for their NASA partnership and alumni outreach activities. In 1994, she received an “Outstanding Contribution” award for her work. Walter has more than 20 years of experience in scholarship management, having served as director of financial aid at the Stevens Institute of Technology prior to joining NACME. She is a long-time member of the National Association of Financial Aid Administrators, and has served on the boards of the American Indian Science and Engineering Society, the National Society of Black Engineers and the Society of Hispanic Professional Engineers. Walter holds a B.A. in English Literature from Montclair State College and a M.A. in Higher Education Administration from New York University.

Kenneth Warren  
University of Chicago  

Kenneth Warren teaches in the Department of English at the University of Chicago where he is the Fairfax M. Cone Distinguished Service Professor of English and Deputy Provost for Research and Minority Issues. His scholarship and teaching focus on American and African American literature from the late nineteenth century through the late twentieth century. He is particularly interested in the various ways that literary and artistic forms relate to political and social change. His published works include two books, So Black and Blue: Ralph Ellison and the Occasion of Criticism (Chicago 2003) and Black and White Strangers: Race and American Literary Realism (Chicago 1993), as well as numerous articles on such figures as Henry James, Harriet Beecher Stowe, Leon Forrest, James Weldon Johnson, and W.E.B. Du Bois. He has served on the editorial boards of American Literary History, American Literature, Callaloo, and the Cambridge Studies in American Literature and Culture.
Lee Warren
Harvard Kennedy School

Lee Warren is Director of Professional Pedagogy at the Harvard Kennedy School and Associate Director of the Derek Bok Center for Teaching and Learning at Harvard University. She is a pedagogical coach, providing teaching support to faculty and graduate student. Her particular interests center around leadership, classroom diversity, and case teaching. Recently she has founded the Bok Center Players, an interactive theater troupe that shines the light on various academic issues and brings them up for discussion. With Nancy Houfek, Voice and Speech Coach at the American Repertory Theater, she travels across the country giving workshops on Strategic Performance (skills and strategies for being more effective in meetings and negotiations) and Powerful Performance (skills for being an effective speaker). In addition, she regularly teaches in Executive Leadership programs at Harvard's Kennedy School. Her B.A. in Philosophy is from Wellesley and her Ph.D. in English and American Literature from Stanford.

Sharon Welling
Johns Hopkins University

Sharon Welling is the Director of Administration & Finance for the Johns Hopkins University School of Medicine Medical Scientist Training Program. Ms. Welling assumed this position in 2003 and since that time has made several significant changes to the program’s recruiting and admissions processes which have proved to be extremely beneficial for the faculty and students. She is the Hopkins designee to the AAMC GREAT Group, and serves on the AAMC Data Outcomes Committee. In her role as MSTP Administrator, Ms. Welling collaborates with the Dean of Education, Dean of Graduate Student Affairs, Admissions Director for the School of Medicine and Registrar to ensure a smooth transition for all students in the combined degree program at Hopkins.

Cedric L. Williams
University of Virginia, National Science Foundation; Directorate of Biological Sciences

Cedric Williams is a Full Professor in the Dept. of Psychology and Graduate Neuroscience program. He served as Director of Graduate Programs from 2002–2008, Academic Affairs Committee, Faculty Senate and Chairman of the Committee For Faculty Rules. Dr. Williams is currently on leave and serving as Program Director of the Neural Systems Cluster in the Directorate of Biological Sciences at the National Science Foundation. Dr. Williams received a B.A. degree in Psychology from North Carolina A&T State University, a Ph.D. degree from Southern IL University, and completed postdoctoral training at the Center for the Neurobiology of Learning and Memory at the University of California-Irvine.

John Wilson
Dillard University

John E. Wilson is Co-Director of Dillard University Minority Health and Health Disparities Research Center and Professor of Biology. Prior to this appointment, Dr. Wilson served as the Dean of the Division of the Natural Sciences and Public Health. He also served as the associate dean in the School of Graduate Studies and Research at Meharry Medical College and assistant professor in the Department of Anatomy and Physiology. He was also a Carnegie Fellow in Science Education at Stanford University and the Institute for Research on Learning. Dr. Wilson earned a B.S. in Biology from Clark College, a M.S. in Biology from Atlanta University, and a Ph.D. in Cell Biology from Tulane University where he was a recipient of an NIH-Predoctoral Fellowship.
Bok Center Players
The Bok Center Players are a theater group (formed in 2007) who perform live, interactive theater to spark discussions of complex pedagogical and academic life topics. The ultimate purpose of the Players is to make the academy equally open to all participants, and to improve the quality of teaching, learning, and laboratory experience. The plays are especially effective at drawing audiences in rich discussions of difficult topics.
Medeva Ghee  
Acting Executive Director

Dr. Medeva Ghee, a graduate of North Carolina State University in 1991 with a bachelor’s degree in zoology, earned her M.S. and Ph.D. in microbiology in 1997 from New York University School of Medicine. Her postdoctoral research was conducted with a team of CNRS researchers in Paris, France, where she employed biochemical and gene therapy technologies to investigate the impact of protein aggregation in Parkinson’s disease. In 2005, Dr. Ghee worked with the William J. Clinton Foundation as a Laboratory Systems Specialist for the HIV/AIDS Initiative. In this capacity, she provided technical assistance and strategic advice on the development of laboratory plans and systems to support national HIV/AIDS prevention, care and treatment programs in the Initiative’s partner countries in Sub-Saharan Africa. Dr. Ghee joined the Leadership Alliance as the Assistant Director in 2006 and since July 2008, has been Associate Director of the Leadership Alliance, and manager of the executive office staff. In July 2010, Dr. Ghee was appointed as Acting Executive Director of the Leadership Alliance.

Barbara Kahn  
Coordinator for Graduate and Undergraduate Programs

Barbara Kahn is the Coordinator for Graduate and Undergraduate Programs for the Leadership Alliance. In this capacity, she coordinates the combined application process for the 21 undergraduate summer research sites and supervises the Alliance summer research program at Brown University. Prior to her appointment with the Leadership Alliance, Ms. Kahn was part of the professional development team at Brown University’s Annenberg Institute for School Reform, a center promoting high-quality learning opportunities. She came to Brown University from Chaffee & Partners, a public relations and advertising firm in Providence, R.I. Ms. Kahn holds a B.S. in Education from Boston University.

Maria DoVale  
Executive Assistant/Project Coordinator

Maria DoVale is the Executive Assistant/Project Coordinator for the Leadership Alliance. In this capacity, Ms. DoVale is responsible for providing administrative support for the executive office to ensure the successful implementation of Alliance programs and activities. She is also the ex officio member of the Symposium Planning Committee. Ms. DoVale comes to us with a wealth of experience in administration, event planning and management augmented with exemplary technical, organizational and customer service skills. Prior to her appointment with the Leadership Alliance, Ms. DoVale worked for 5½ years at the Providence Warwick Convention & Visitors Bureau helping to promote the state of Rhode Island as well as the city of Providence as a convention destination. Prior to this appointment, she worked for American Express corporate travel for eight years. Ms. DoVale holds a B.A. in Travel & Tourism Management from Johnson & Wales University.
**Welcome to the 2010 Leadership Alliance National Symposium!**

Taking the Next Step has been the symbolic theme for the Leadership Alliance National Symposium since 2003. This year, the theme is even more significant for me as I take the next step from the role of associate director to acting executive director. In this exciting, new capacity, it gives me great pleasure to welcome you to the 2010 Leadership Alliance National Symposium!

The Leadership Alliance National Symposium is a unique conference that provides students, all along the academic pathway, a supportive community that stresses academic skills, mentoring, networking, making informed decisions, and navigating multi-pronged career paths. I know this to be true from experience as I participated in the first Leadership Alliance National Symposium as a graduate student in the not-too-distant past. Encouraged by a diverse group of scholars and researchers, I took advantage of presenting my research and networking with peers and future colleagues, who in sharing their experiences enlightened my career trajectory as well as introduced me to new opportunities. Most importantly, it afforded me the opportunity to give back and mentor the next generation. Participation in the national symposium was a valuable experience that helped to clarify my goals and empowered me to advance along the path I decided to take.

This is your moment to take advantage of all that the symposium has to offer — to explore career opportunities and decide which pathway is suitable for you. The theme, Taking the Next Step: Decision Making Strategies, is designed to provide resources and strategies to help sort through the abundance of choices you will encounter as you progress along your academic career path. I encourage you to participate in all of the scholarly research presentations, network with participants from various levels of the academic training pathway and engage in roundtable and panel discussions that clarify career opportunities and enhance professional development skills. Use these resources to shape your career path and take your next step to achieving your goals. You are the next generation of scholars, leaders and role models and the Leadership Alliance is committed to contributing to your success!

On behalf of the Symposium Committee, I am delighted to welcome you to the 2010 Leadership Alliance National Symposium. This year’s theme Taking the Next Step: Decision Making Strategies will not doubt suggest to you our goal for this year’s symposium — to provide you with the appropriate tools to assist you in successfully transitioning to the next level of your professional development. With this in mind, we have planned many opportunities for you to engage in critical conversations with academic leaders, faculty, postdoctoral fellows, graduate students and undergraduates who all share our commitment of fulfilling the mission of the Leadership Alliance Consortium to develop and nurture a more inclusive and diverse community of scholars.

We hope that you will proactively take advantage of the many occasions during this symposium to ask questions and gain insights about effective strategies for navigating your career path. Take the time to meet the many wonderful and knowledgeable individuals who are here to share not only their resources but also their unique experiences with you.

Now, more than ever, in this era of economic uncertainty and ever more complex global problems at every societal level, we need individuals like you to help solve the pressing problems of our time. Through your thoughtful scholarship and research, you will be able to provide the expertise needed to advance knowledge in the humanities, social sciences and sciences fields.

Best wishes for a productive and enjoyable weekend. Thank you for participating in the 2010 Leadership Alliance National Symposium.

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**SYMPOSIUM 2010 PLANNING COMMITTEE**

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<td>Assistant Provost for Faculty Development &amp; Diversity, Harvard University</td>
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<td>Earnestine Baker</td>
<td>Assistant to the Vice President, Institutional Advancement, Executive Director, Meyerhoff Scholarship Program, University of Maryland, Baltimore County</td>
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<td>Jabbar Bennett</td>
<td>Assistant Dean of Recruiting and Professional Development, Graduate School, Brown University</td>
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<td>Arnaldo Diaz</td>
<td>Coordinator of Recruitment &amp; Special Programs, Biomedical Graduate Studies, University of Pennsylvania</td>
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<td>Jeraaine Johnson</td>
<td>Guest Researcher, National Institute of Standards and Technology (NIST)</td>
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<td>Patricia Lee-Robinson</td>
<td>Associate Professor of Biology, Chaminade University of Honolulu</td>
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<td>Marjorie Old Horn</td>
<td>Director of AIRO Program, Montana State University- Bozeman</td>
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<td>David Redman</td>
<td>Associate Dean for Academic Affairs, Princeton University</td>
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**LEADERSHIP ALLIANCE STAFF**

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The Leadership Alliance National Symposium is made possible through grant 2-T36 GM-063480-06A1 from the National Institutes of Health’s Minority Access to Research Career Program of the National Institute for General Medical Sciences.
The Leadership Alliance is a multi-institutional academic consortium of leading research and teaching colleges and universities. The mission of the Alliance is to develop underrepresented students into outstanding leaders and role models in academia, public and private sectors.