

THE LEADERSHIP ALLIANCE
NATIONAL SYMPOSIUM 2010



TAKING THE NEXT STEP: DECISION MAKING STRATEGIES

JULY 30 – AUGUST 1, 2010

EAST BRUNSWICK HILTON
EAST BRUNSWICK, NJ

WELCOME TO THE 2010 LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM!



Medeva Ghee
Acting Executive Director

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.



Liza Cariaga-Lo
*Chair, Leadership
Alliance National
Symposium
Committee*



The Leadership Alliance Symposium 2010

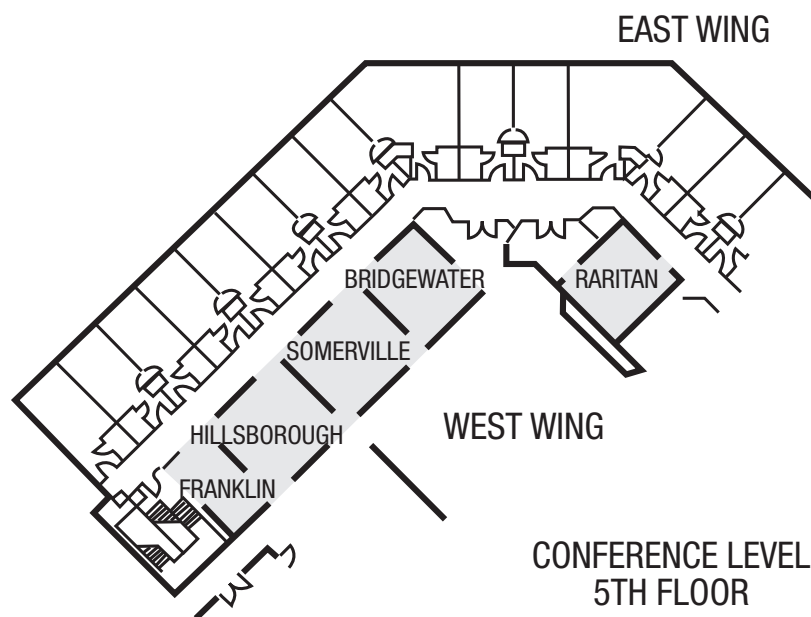
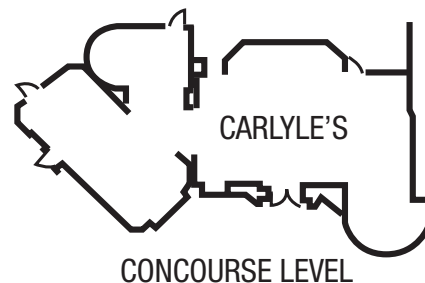
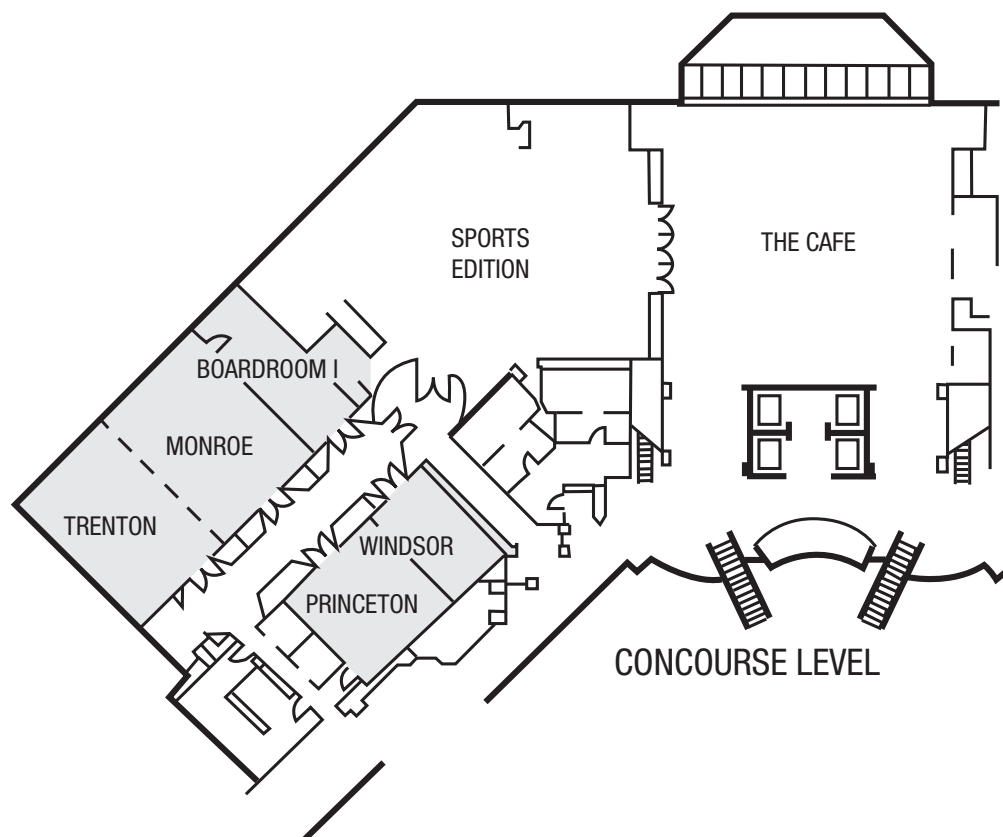
TAKING THE NEXT STEP: DECISION MAKING STRATEGIES

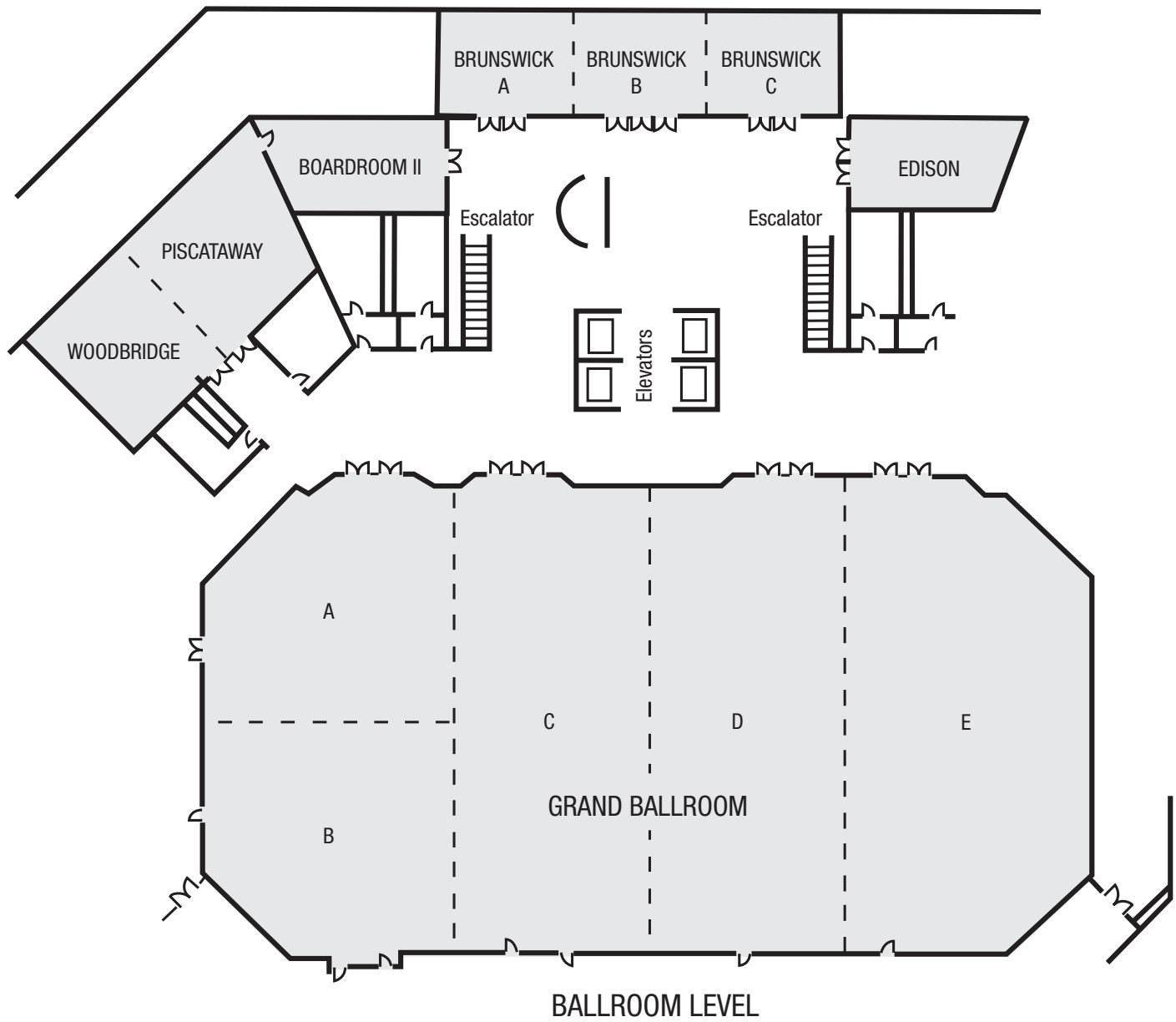
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PRESENTATION CATEGORIES KEY

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)








Leadership Alliance National Symposium
July 30-August 1, 2010
At-A-Glance


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





LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM AGENDA 2010

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
• Siovah 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
-  Dinner7:00pm
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 Panel8:00pm – 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 Guests9:30pm – 10:30pm
Carlyle



SATURDAY, JULY 31


- Professional Headshots7:00am – 11:00am
Grand Ballroom Pre-functional Area
- Posters Set-up7:30am – 8:45am
Grand Ballroom D,E
- Networking Breakfasts7:30am – 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 1017:30am – 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 Presentations8:45am – 10:45am
Grand Ballroom D,E
Session I8:45am – 9:45am
Session II9:45am – 10:45am
- Student Oral Presentations Session I11:15am – 12:45pm
- Lunch and Panel Discussion for Undergraduates,
Interested in the PhD: The Graduate School Experience1:00pm – 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 Experience1:00pm – 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 McFaline-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 Success8:00am – 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



JIM GATES

Sylvester “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.



STUDENT ORAL PRESENTATIONS

BY TIME

BB= Basic Biosciences AB= Applied Biosciences EN= Engineering PE= Policy & Ethics
PS= Physical Sciences ES= Earth Sciences SS= Social Sciences HU=Humanities

11:15 AM

BB	Amber Anders	"Placental Serotonin Transporter Gene Expression: Interaction Effects Among Maternal Depression, Fetal Gender, and Serotonin Transporter Genotype"	Brunswick A
AB	Ashley Jordan	Gene Suicide Therapy: Induced Cell Death of Ovarian Cancer Cells via Toxic Transfection Agents	Piscataway
AB	Caitlin Armijo	Transcriptional Regulation of the Cardiac Conduction System	Brunswick C
SS	Calie Edmonds	Race, Class, and Perceptions of the Legal System	Monroe
BB	Ciara Gimblet	The role of aryl hydrocarbon receptor in the transcription of Th2 cytokine IL-13.	Brunswick B
BB	Devyani Ujla	The Role of Wnt1, Shh, and Fgf8 in the Development of Midbrain Dopamine Neurons	Boardroom II
BB	Divya Krishnamoorthy	Analyzing Bone Phenotypes in Early B-Cell Factor 1-Deficient Mesenchymal Stem Cell's	Woodbridge
AB	Fabiola Louis	Capture and Selective Elution of Microbial Cells in Clinical Fluids by Absorption of Chitosan Coated Silica Particles	Bridgewater
EN	Florencia Paredes	Mapping the Surface Chemistry of Heterogeneously-coated Glass using pH-sensitive Fluorophores	Somerville
SS	Lauren Lee-Houghton	Does Identity Function as a Mechanism of Group Solidarity? A Critical Analysis of Group Solidarity	Princeton
HU	Vanessa Mari	The Spanish Harlem Life and the Political Influence of the Young Lords as Explored by Nuyorican Novel Writers	Windsor
HU	Veronica Morales	Mexican-American Storytelling and Theater: The Shrunk Head of Pancho Villa's Influence on Political Movements	Trenton
EN	Victor Tumalak	A Design for a Displacement Sensor on a Micro-Electrical-Mechanical System Membrane Mirror	Hillsborough
BB	Vignesh Palaniappan	Proteomic Analyses of Murine alpha-3 and alpha-7 Nicotinic Acetylcholine Receptors	Edison

11:30 AM

AB	Adena Hernandez	Epigenetic Shifts in Gene Expression Mediating Transformation to Hepatocellular Carcinoma in a Transgenic Mouse Model	Brunswick B
BB	Alexandra Pinzaru	The Role of H3K9 Methylation in Gene Activation by Nuclear Hormone Receptors	Brunswick A
PE	Brandon Sward	Thrasymachus' Blush: Lying and the Lawgiver in The Republic and The Laws	Windsor
HU	Courtney Hobson	Propaganda and the Popish Plot of 1678: The Case of Roger L'Estrange	Trenton
PS	Dawson Demontiney	Comparison Of Sample Preparation Methods For Scanning Electron Microscopy: Air Drying Versus Critical Point Drying	Somerville
BB	Fei Yan Mock	Exploring the Role of apl-1 Gene on Developmental Timing of C. elegans	Boardroom II
BB	Jean Padilla-Aponte	Genetic Analysis of E. coli Mutants Resistant to Rho Overproduction	Edison
BB	Jose Llongueras	Dynamic Function of Ca ²⁺ -ATPase SPCA2 and TRP Ion Channels in Breast Cancer	Woodbridge
BB	Lauren Moyer	A Mechanistic Study of HPV Integration	Piscataway
SS	Mamie Davis	Perception of Social Groups: A Linguistic Comparison of Collegiate Greek Organizations	Princeton



EN	Marie Steele	The Nonlinear Dynamics of Decision Making	Hillsborough
BB	Natalie AaronsCooke	Cloning of the Cardiac Myosin Heavy Chain Isoform Genes of the Burmese Python	Brunswick C
BB	Thang Nguyen	The Effect of Peptides BPI-BP16 for In-vitro Inhibition of HIV-1 Tat/TAR Interaction Using a Firefly Luciferase Expression Assay	Bridgewater
HU	Yaseen Eldik	Islamaphobia: Is She a Terrorist?	Monroe

11:45 AM

SS	Adrienne Conant	The Illusion of Control	Monroe
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 Wray	Identity Prototypicality: Effects of group-based ideologies on intersectional identities	Princeton
BB	Juan Torres	Development of a Luciferase Reporter for the Lck Gene	Brunswick A
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

12:00 PM

BB	Alicia Schep	The ARE-binding protein AUF1 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
HU	Jacqueline Larios	Citizens or Subjects: Colonial Algeria and the Multiplicity of French Identity, 1918–1939.	Princeton
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 Mexicali-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

12:15 PM

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
HU	George Aumoithe	'Democratic to a Fault': The Contested Politics of the AIDS Coalition to Unleash Power, 1987–1997	Windsor
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	Monroe
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

12:30 PM

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 Genetically Encoded Ca ²⁺ 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 Etch Virus (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	Parallelism Between Lysosome Related Organelles in Melanocytes and Platelets: Does Slc35d3 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



BB	Leonard Jarzebowski	Beyond Guidance: Semaphorin-PlexinD1 Signaling Modulates Angiogenic Potential	Boardroom II
BB	Olivia Mesoras	Cloning and Expressing Lymphotactin in B16 Melanoma	Brunswick C
BB	Oluwatobiloba Odunsi	Forensic Perspectives on Tissue Mosaicism in Transplant Patients: Case Studies	Woodbridge
HU	Raphaella Romero	Eliza Haywood's Amatory Fiction: Sexual Violence and Gender Constraints	Monroe
HU	Shamell Bell	'Jerkin': The Viral Construction of Aesthetics, Identity, and Movement in an Emergent Youth Dance Form	Princeton

2:45 PM

PS	Aaron Dolor	Porphyrinoid Photophysical Studies	Somerville
AB	Abigail Boateng	The Effect of Diet on the Growth and Infection of <i>Candida albicans</i> in Host Organisms	Boardroom II
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
SS	Lorenzo Lorenzo-Luaces Valencia	The Working Alliance in Cognitive Therapy of Depression: Reliability, Validity, and Interrelations of Patient, Therapist, and Observer Ratings	Monroe
BB	Luke Wandrey	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

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 <i>Trypanosoma cruzi</i>	Boardroom II
HU	Kiara Drake	Practicability and Democracy in Antonin Scalia's Originalism and Stephen Breyer's Living Constitutionalism	Monroe



ES	Marvin Alfaro	Location of the Antarctic Polar Front from 4km AVHRR Satellite Sea Surface Temperature Measurements.	Somerville
AB	Mathew Starner	Role of unc-11 in the Toxicity of Beta-Amyloid in an Invertebrate Model of Alzheimer's Disease	Brunswick C
AB	Michael Clark	ALDH7A1 in Superficial-Spreading and Nodular Melanoma.	Piscataway
HU	Precious Boone	Critical Pedagogy: Student-Centered Learning and the Importance of Technology in the High School Classroom	Princeton
BB	Simone Williams	The RF amide Neuropeptide FF activates human mast cells via the neuron-specific Mas-related gene-1(MrgX1)	Brunswick B

3:15 PM

ES	Christina De Jesus-Villanueva	Biomphalaria glabrata: A Potential Alternate Intermediate Host for Ribeiroia ondatrae	Somerville
AB	Daniel Pique	Three-Dimensional Reconstruction of Excitatory Neuron Clones in the Postnatal Mouse Neocortex	Brunswick A
AB	Eric Gibbs	Investigating the Potential Anti-proliferative Effects of Rosiglitazone on a Human Endothelial Cell Model.	Piscataway
SS	Eugene Smith	The Relationship between Children's Attitude towards Learning and Academic Performance: An Analysis among European American and Asian American Preschool Children	Princeton
SS	Gabrielle Arrington	Nativity, Family Resources, and Health: An Analysis of Nativity Differences in Youth Smoking	Monroe
BB	Janell Payano Sosa	The Role of the Vomeronasal Organ in Fear and Aggression in Mice.	Brunswick C
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
AB	Kenneth Disbrow	The Interactions Between Streptococcus Pneumoniae and Corynebacterium	Boardroom II
PS	Luis Lazo del Sol	Magnetic Field Effects on the Biological Systems of Escheria coli and Drosophila melanogaster.	Hillsborough
BB	Matthew Pimentel	The Role of T Cell Receptor Signal Strength in Regulatory T Cell Development	Woodbridge
BB	Michele Gomez	Ubiquitin Carboxy-Terminal Hydrolase L1: Roles at the Synapse	Brunswick B
AB	Samantha Berkheimer	Characterization of Novel Genes Associated with Mouse Mammary Tumor Virus Common Integration Sites	Edison
SS	Yesenia Torres	Absence of Relation of Perceived Stress to Cognitive Function in Older Adults	Windsor

3:30 PM

AB	Andrea Rolong	Electrospun Nanofiber Scaffold Impregnated with Growth Factors For Small-Diameter Vascular Grafts	Piscataway
ES	Andria Peña	Effect of Waste Water and Organic Compounds on Ozone Degradation Process in Drinking Water Source Before and After the Colorado Boulder Creek Treatment Plant	Somerville
PS	Anthony Saxon	The NanoCard: Development of a Nano friendly application for the iPhone 4G	Hillsborough
HU	Candace Okello	Matters of the Soul: Rhetoric of the Black Intellectual	Princeton
BB	Husna Shaik	Analysis of Secondary Structure features of Wild-Type and Mutated Tobacco Etch Virus mRNA-Pseudoknots by Circular Dicroism	Boardroom II
SS	Jasmine Smith	Access Denied: A Study of the Relationship between Socioeconomic Status, Built Environments, and Obesity Prevalence Among Children in Los Angeles	Monroe
AB	Jason Browne	Preovulatory Activation of GnRH Neurons in dnFGFR Transgenic Mice	Brunswick A
BB	Jose Montoyo-Rosario	The Role of KDM5 Family of Demethylases in Heterochromatin Formation.	Edison



AB	Michelle Van Tieghem	Relationship between functional connectivity and executive function in ADHD: a Resting-state fMRI Study	Brunswick C
BB	Sonia Metangmo	The Presentation of Plasmodium Antigen by Splenic Dendritic Cells	Woodbridge
SS	Travis Alvarez	The Effects of Spatial and Temporal Resolution on FMRI Reward-Related Activation	Windsor
HU	Victoria McBride	Convert or Coexist: Catholic Ecumenism Efforts After Vatican II	Trenton
BB	Victoria Okuneye	Protein Expression in Native Neuronal Cells vs. Differentiation-Guided Embryonic Stem Cells in Mouse Model	Brunswick B

3:45 PM

SS	Alexandra Ornelas	Immigrant Integration in the United States	Trenton
BB	Andreas Mitchell	Affinity Labeling of the Mu Opioid Receptor with a Novel Radioligand: Structural Analysis	Brunswick C
AB	Angelique Mole	Analysis of Hepcidin in Human Serum	Piscataway
BB	Coral Cabrera-Montalvo	Sequencing Nicotinic Acetylcholine Receptors CHRND and CHRNG	Edison
BB	Courtney Ensslin	Direct PCR of Laser Capture Microdissected Sperm Cells from Mock Sexual Assault Evidence	Brunswick B
PS	Ekundayo M Platt	Effectiveness of Amylase Enzyme on Stain Removal	Hillsborough
SS	Helena Taye	David and Goliath, under which Political Conditions is Poverty Alleviation Plausible in African States?	Monroe
SS	Jessica Leonard	Success or Failure? The Effects of No Child Left Behind on Mississippi Elementary Schools	Princeton
BB	Lauren Acevedo Molina	The Rate of Somatic Mutations in Human Anti-V3 HIV-1 Monoclonal Antibodies	Woodbridge
AB	Melissa Powell	Role of Highly Active Antiretroviral Therapy (HAART) in Astrocyte Dysfunction	Brunswick A
SS	Natalie Rodriguez	Maternal Depression and its Effects on Boys' and Girls' Emotion Processing	Windsor
AB	Stephanie Zimmerman	Characterization of the Plasmodium Berghei HesB-like Gene	Boardroom II
PS	Will Fletcher	Exploring the bilayer-modifying potential of limonene and related molecules	Somerville

4:00 PM

EN	Chrysantus Bandon-Bibum II	Effects of Different Sorbents in Removing Gas-Phase H ₂ S, CoS, and SO ₂	Somerville
EN	Eduardo Cabrera	Photovoltaic Panel Efficiency	Hillsborough
BB	Eric Boyer	E2F1 Knockdown in Lymphoblastoid Cell Lines	Boardroom II
SS	Jenna Medaris	Does Feeling Good Release the Emotional Brake? Positive Mood's Influence on Social Inhibition	Monroe
BB	Jessica Douthit	Do Patient Antibodies in Anti-NMDA Receptor Encephalitis Bind Preferentially to the Hippocampus?	Woodbridge
SS	Jon Harvey	Neural Systems Regulating Anxiety-States and Anxiety-Related Behavior: The Role of Serotonergic Systems in the Dorsal Raphe Nucleus	Windsor
AB	Jonathan Tran	Presynaptic versus Postsynaptic Na ⁺ Channel Expression in Preparations of Rat Cortical Synaptic Membranes	Brunswick A
SS	Judith Landeros	Latina/o Youth College Aspirations and Expectations: Analyzing Student-Teacher Relationships and School Attachment	Princeton
BB	Lourdes Ramirez	Regulation of hepatic B Cells by Syndecan-1 proteoglycan	Edison
AB	Roxana Loperena	The transcription factor c-Myb regulates neuromedin U expression in primary human CD34 ⁺ cells undergoing erythroid differentiation	Brunswick B
SS	Schuyler Marquez	Citizenship versus Cultural Belonging: Defining Integration of Muslims in Denmark	Trenton
AB	Thomas Burke	Investigation of Potential Anti-aggregational Compounds for Treatment of Alzheimer's Disease	Brunswick C
BB	Zebib Abraham	Manipulating the Lola Gene in Drosophila Melanogaster- Effects on Immune Response	Piscataway

**4:30 PM**

BB	Aloysus Lawong	Structural And Thermodynamic Characterization Of Fis1 Mutants Known To Disrupt Mitochondrial Fission	Boardroom II
BB	Dalimaris Nieves-Mas	The Role of α -1 Adrenergic Receptors in Mediating Exosomal eHsp72 Expression	Brunswick B
SS	Hafsa Mohamed	Seeing the Water: Racial Associations in Everyday Life	Windsor
BB	Kevin Fidelin	Mechanism of Misfolded Rhodopsin Degradation from the Endoplasmic Reticulum.	Piscataway
BB	Matthew DeMars	ART-27: a Cofactor of the Androgen Receptor Whose Role As a Tumor Suppressor May Be Altered or Nonfunctional in Prostate Cancer Cells	Edison
BB	Max Liu	Metalloproteases and cell signaling: a novel target for cancer therapy	Brunswick C
AB	Melanie Silvis	Characterizing the Role of CpsA in Mycobacterium tuberculosis Infection of Macrophages	Woodbridge
HU	Philana Payton	Unhappily Ever After: Representations of Race, Gender and Social Mobility in Hollywood Film	Princeton
SS	Roman Liera	An Analysis of the Roles of Coping Beliefs and Person Factors in H1N1 Vaccination Decisions	Trenton
SS	Tiffany Gray	Understanding Habituation as it Relates to Stress	Monroe
BB	Torrey Salmon	The Role of Inositol Polyphosphate MultiKinase (IPMK) on LKB1 Localization and Activity	Brunswick A

4:45 PM

SS	Alexander Lobert	Resource Management Behavior of Fishing Cooperatives in Baja California Sur	Windsor
BB	Andrew Johnston	The Role of SCML2 in Cell Cycle Regulation	Brunswick A
BB	Erin Shoemaker	Does Phosphatidic Acid Modulate the Effect of Protein Phosphatase 2A in Salt Stress Signaling?	Piscataway
HU	Ijeoma Eboh	Race, Psychology, and Sexual Activity at Harlem's Lafargue Clinic, 1945–1956	Trenton
BB	Joel Fernandez	The Role of the Complexin C-terminus in the Regulation of Neurotransmitter Release	Edison
HU	John Aragon	Visionaire: Creating Space for People, Pop, and Fashion	Princeton
BB	Katherine Toll	Interspecific Competition among Plant Populations in a Reconstructed Tallgrass Prairie	Brunswick C
SS	Lisa Ryan	The Relationship Between Self Confidence and Risky Behaviors In Offenders.	Monroe
AB	Mirna Martinez	Mpl Signaling Induced by Different Ligands in Various Thrombocytopoietic Disorders	Boardroom II
BB	Ranjan Mishra	5' Pyrophosphate Removal from RNA by RNA Pyrophosphohydrolase (RppH)	Brunswick B
BB	Zoila Fernandez	Uracil Derivative Induced cAMP Production in Red Cell Blood Stage of Plasmodium falciparum	Woodbridge

5:00 PM

AB	Al Ray, III	Investigation of the effects of Cell Degradation on Laser Capture Microdissection of Mock Sexual Assault Evidence	Edison
BB	Ashley Schloss	Rationally Designed Cyclic Sulfopeptides for HIV-1 Entry Inhibition	Brunswick C
BB	Carla Lopez	Verapamil Block of Voltage Gated Sodium Channels	Piscataway
HU	CaVar Reid	Ain't No Fathers In The Hood: A Socio-Historical Analysis of Black Male Engagement With Economic Fatherhood	Windsor
BB	Christopher Rusnak	Phylogenetic Analysis of Viral IRF Proteins	Woodbridge
SS	Dianeth Rodriguez	Convergent, Discriminant, and Criterion-Related Validity of the Mobility Inventory for Agoraphobia	Trenton



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	Whytnee Foriest	African Americans & Local Television News: A Content Analysis	Princeton

5:15 PM

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

5:30 PM

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 Borrali	The Role of Nuclear Hormone Receptors Downstream of Steroid Hormone Signaling in Cell Migration in Drosophila melanogaster	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
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STUDENT ORAL PRESENTATIONS

BY ROOM


Woodbridge
Applied and Basic Biosciences

Angel Byrd, Brown University		11:15 – 12:45
Divya Krishnamoorthy	Analyzing Bone Phenotypes in Early B-Cell Factor 1-Deficient Mesenchymal Stem Cell's	11:15 AM
Jose Llongueras	Dynamic Function of Ca ²⁺ -ATPase SPCA2 and TRP Ion Channels in Breast Cancer	11:30 AM
Ashley Powers	The Effects of GRIP1 Phosphorylation on Glucocorticoid-Dependent Gene Expression	11:45 AM
Kathryn West	Immunotherapy for Type 2 Diabetes	12:00 PM
Andrea Lopez-Cepero	Investigation of Caspase-3 And Its Role In Reo-virus Induced Apoptosis and Mu1 Cleavage	12:15 PM
Oluwatobiloba Odunsi	Forensic Perspectives on Tissue Mosaicism in Transplant Patients: Case Studies	12:30 PM
Tricia Nardiello, New York University		2:45 – 4:15
Joshua Borgerding	Depressing Neighbors: Death Receptor Expression on LSECs Following Polymicrobial Septic Insult	2:45 PM
Christina Parker	A Comparison of Wound Healing in Aged and Pediatric Human Skin	3:00 PM
Matthew Pimentel	The Role of T Cell Receptor Signal Strength in Regulatory T Cell Development	3:15 PM
Sonia Metangmo	The Presentation of Plasmodium Antigen by Splenic Dendritic Cells	3:30 PM
Lauren Acevedo Molina	The Rate of Somatic Mutations in Human Anti-V3 HIV-1 Monoclonal Antibodies	3:45 PM
Jessica Douthit	Do Patient Antibodies in Anti-NMDA Receptor Encephalitis Bind Preferentially to the Hippocampus?	4:00 PM
Lashon Pringle, University of Pennsylvania		4:30 – 5:45
Melanie Silvis	Characterizing the Role of CpsA in Mycobacterium tuberculosis Infection of Macrophages	4:30 PM
Zoila Fernandez	Uracil Derivative Induced cAMP Production in Red Cell Blood Stage of Plasmodium falciparum	4:45 PM
Christopher Rusnak	Phylogenetic Analysis of Viral IRF Proteins	5:00 PM
Adriana Manrique	Spatial Variation of Attack Rate across Sites and Plant Density of Biological Control Agent Mecinus janthinus on Linaria dalmatica	5:15 PM
Tyler Bradstreet	A Case-Control Study Addressing Human Endogenous Retrovirus-K (HML-2) Distribution among Individuals Diagnosed with Schizophrenia	5:30 PM


Piscataway
Applied and Basic Biosciences

Joseph Marlin, New York University		11:15 – 12:45
Ashley Jordan	Gene Suicide Therapy: Induced Cell Death of Ovarian Cancer Cells via Toxic Transfection Agents	11:15 AM
Lauren Moyer	A Mechanistic Study of HPV Integration	11:30 AM
Kimberly Stratford	Bypassing Hepatic Insulin After Menopause	11:45 AM
Ivan de Kouchkovsky	Multiple Sclerosis and Sodium Magnetic Resonance Imaging at 7 Tesla	12:00 PM
Alejandro Gonzalez	Testing the Relationship between Embryo and Organism Size: Implications for Primordial Dwarfism	12:15 PM
Kenneth Skinner	Parallelism Between Lysosome Related Organelles in Melanocytes and Platelets: Does Slc35d3 Localize to Melanosomes when Expressed in Melanocytes?	12:30 PM

**Shariya Terrell, Harvard University****2:45 – 4:15**

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 Rosiglitazone 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**4:30 – 5:45**

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 Maile Development Pathway	5:30 PM

**Boardroom II** *Applied and Basic Biosciences***Steven Tuyishime, University of Pennsylvania****11:15 – 12:45**

Devyani Ujla	The Role of Wnt1, Shh, and Fgf8 in the Development of Midbrain Dopamine Neurons	11:15 AM
Fei Mock	Exploring the Role of apl-1 Gene on Developmental Timing of C. elegans	11:30 AM
Mytrang Do	Identifying Regulatory Elements for Microrna-9 Expression and Investigating the Function of Microrna-9 in Neural Development	11:45 AM
Christina Saak	The role of the BTB ZF domain protein Chinmo in patterning and growth of the Drosophila eye and wing	12:00 PM
Erica Ferreris	Chromatin regulatory factors involved in the response to Wnt signaling after the midblastula transition	12:15 PM
Leonard Jarzebowski	Beyond Guidance: Semaphorin-PlexinD1 Signaling Modulates Angiogenic Potential	12:30 PM

Michea Caye, Antioch University**2:45 – 4:15**

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 Lymphoblastoid Cell Lines	4:00 PM

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

Aloysus Lawong	Structural And Thermodynamic Characterization Of Fis1 Mutants Known To Disrupt Mitochondrial Fission	4:30 PM
Mirna Martinez	Mpl Signaling Induced by Different Ligands in Various Thrombocytopoietic Disorders	4:45 PM
Malcolm Moise	The Roles of PALB2 and RPA Phosphorylation in the Cellular Response to Replication Stress	5:00 PM
John Vu	The Role of Transcription Factor c-Myb in Regulating Activity of DBA/2 Promoter	5:15 PM
Marie Feliciano	Mechanism of MDP Translocation to the Cytosol	5:30 PM

**Brunswick A*****Applied and Basic Biosciences*****Geronda Montalvo, University of Pennsylvania****11:15 – 12:45**

Amber Anders	Placental Serotonin Transporter Gene Expression: Interaction Effects Among Maternal Depression, Fetal Gender, and Serotonin Transporter Genotype	11:15 AM
Alexandra Pinzaru	The Role of H3K9 Methylation in Gene Activation by Nuclear Hormone Receptors	11:30 AM
Juan Torres	Development of a Luciferase Reporter for the Lck Gene	11:45 AM
Devin Cooper	The roles of the RUNX 1-56 and RUNX 388X Mutations in Acute Myelogenous Leukemia (AML)	12:00 PM
Michelle Haring	Genetic Variation at CD36 and its Role in Malaria Susceptibility and Resistance	12:15 PM
John Dankert	The Role of KLF4 in miR-182 Cluster Expression and Melanoma Progression.	12:30 PM

Jennifer Greene, University of Pennsylvania**2:45 – 4:15**

Kadidia Adula	Gentamicin Damages Lateral Line Hair Cells and Changes the Expression of Brain Gap-43 Levels in Bullfrog Larvae	2:45 PM
Diana Carrillo	Inducible Motor Neuron Death in Mice as a Genetic Model of Early Motor Neuron Disease	3:00 PM
Daniel Pique	Three-Dimensional Reconstruction of Excitatory Neuron Clones in the Postnatal Mouse Neocortex	3:15 PM
Jason Browne	Preovulatory Activation of GnRH Neurons in dnFGFR Transgenic Mice	3:30 PM
Melissa Powell	Role of Highly Active Antiretroviral Therapy (HAART) in Astrocyte Dysfunction	3:45 PM
Jonathan Tran	Presynaptic versus Postsynaptic Na ⁺ Channel Expression in Preparations of Rat Cortical Synaptic Membranes	4:00 PM

Said Saab, New York University**4:30 – 5:45**

Torrey Salmon	The Role of Inositol Polyphosphate MultiKinase (IPMK) on LKB1 Localization and Activity	4:30 PM
Andrew Johnston	The Role of SCML2 in Cell Cycle Regulation	4:45 PM
Francisco Martinez	The Effect of the Interaction Between Aggrecan, Aggrecanase, and Aggrecanase Inhibitors on Hydroxyapatite Formation in a Gel System	5:00 PM
Charles Hayes IV	Does Endothelial Cell Specific Adhesion Molecule (ESAM) Regulate Rho Activation in Platelets?	5:15 PM
Nicole Naiman	Enhancing the Antigenicity of Neutralizing Epitopes on HIV Envelope gp120 Immune Complex	5:30 PM

**Brunswick B*****Applied and Basic Biosciences***

Rebecca Sweet, Yale University		11:15 – 12:45
Ciara Gimblet	The Role of Aryl Hydrocarbon Receptor in the Transcription of Th2 cytokine IL-13	11:15 AM
Adena Hernandez	Epigenetic Shifts in Gene Expression Mediating Transformation to Hepatocellular Carcinoma in a Transgenic Mouse Model	11:30 AM
Meilín Fernández García	Characterization of Beta-spectrin Mutations in the Tetramerization Site Associated with Hereditary Hemolytic Anemia.	11:45 AM
Asante Hatcher	Characterization of the 100N Zebrafish Mutant	12:00 PM
Lana Zhang	Identification of Dopamine Neurons Using Viral-Mediated Gene Transfer	12:15 PM
Amanda Roque Atilano	Enabling Measurement of Calcium Signaling in Muscle Movement in the ER/SR Using Genetically Encoded Ca ²⁺ Sensors	12:30 PM
Sarah McQuate, University of Colorado at Boulder		2:45 – 4:15
Fatimah Finney	Does Alternative Splicing of a Neuronal Calcium Channel Influence the Effect of Morphine Analgesia on Inflammatory Pain?	2:45 PM
Simone Williams	The RF Amide Neuropeptide FF Activates Human Mast Cells via the Neuron-specific Mas-related Gene-1(MrgX1)	3:00 PM
Michele Gomez	Ubiquitin Carboxy-Terminal Hydrolase L1: Roles at the Synapse	3:15 PM
Victoria Okuneye	Protein Expression in Native Neuronal Cells vs. Differentiation-Guided Embryonic Stem Cells in Mouse Model	3:30 PM
Courtney Ensslin	Direct PCR of Laser Capture Microdissected Sperm Cells from Mock Sexual Assault Evidence	3:45 PM
Roxana Loperena	The Transcription Factor c-Myb Regulates Neuromedin U Expression in Primary Human CD34+ Cells Undergoing Erythroid Differentiation	4:00 PM
Tiffany Link, Johns Hopkins University		4:30 – 5:45
Dalimar Nieves-Mas	The Role of α -1 Adrenergic Receptors in Mediating Exosomal eHsp72 Expression	4:30 PM
Ranjan Mishra	5' Pyrophosphate Removal from RNA by RNA Pyrophosphohydrolase (RppH)	4:45 PM
Liz Hernandez	The Role of Membrane Proximal FNIII Domains in Receptor Tyrosine Kinases	5:00 PM
José Vargas-Muñiz	Mechanism of Interaction Between YY1, YAF2 and Polycomb Recruitment	5:15 PM
Tiffany Cummings	The Function of rps28 in Mediating Translational Accuracy in Yeast	5:30 PM

**Brunswick C*****Applied and Basic Biosciences***

Tania Nevers, Brown University		11:15 – 12:45
Caitlin Armijo	Transcriptional Regulation of the Cardiac Conduction System	11:15 AM
Natalie AaronsCooke	Cloning of the Cardiac Myosin Heavy Chain Isoform Genes of the Burmese Python	11:30 AM
Blair Alexander	The Role of H19 in the Imprinting Gene Network	11:45 AM
Alicia Schep	The ARE-binding Protein AUF1 Regulates Telomerase Expression	12:00 PM
Meghan Francis	Genetic Analysis of the CpG Hypo-response in MOLFEi Mice	12:15 PM
Olivia Mesoras	Cloning and Expressing Lymphotactin in B16 Melanoma	12:30 PM



Knatokie Ford, Harvard University		2:45-4:15
Luke Wandrey	Extracellular matrix protease expression of the central nervous system is altered following induced chemoconvulsive seizure	2:45 PM
Mathew Starner	Role of unc-11 in the Toxicity of Beta-Amyloid in an Invertebrate Model of Alzheimer's Disease	3:00 PM
Janell Payano Sosa	The Role of the Vomeronasal Organ in Fear and Aggression in Mice	3:15 PM
Michelle Van Tieghem	Relationship between Functional Connectivity and Executive Function in ADHD: a Resting-state fMRI Study	3:30 PM
Andreas Mitchell	Affinity Labeling of the Mu Opioid Receptor with a Novel Radioligand: Structural Analysis	3:45 PM
Thomas Burke	Investigation of Potential Anti-aggregational Compounds for Treatment of Alzheimer's Disease.	4:00 PM
Angel Byrd, Brown University		4:30 – 5:45
Max Liu	Metalloproteases and Cell Signaling: a Novel Target for Cancer Therapy	4:30 PM
Katherine Toll	Interspecific Competition among Plant Populations in a Reconstructed Tallgrass Prairie	4:45 PM
Ashley Schloss	Rationally Designed Cyclic Sulfopeptides for HIV-1 Entry Inhibition	5:00 PM
Seshat Mack	Synthesis of Structurally-Diverse SAM Analogues and Their Reactivity as Potential SAM Analogue Cofactors	5:15 PM
Diego Borralli	The Role of Nuclear Hormone Receptors Downstream of Steroid Hormone Signaling in Cell Migration in <i>Drosophila melanogaster</i>	5:30 PM

**Edison***Applied and Basic Biosciences*

Brenda Cadiz-Rivera, University of Rochester		11:15 – 12:45
Vignesh Palaniappan	Proteomic Analyses of Murine alpha-3 and alpha-7 Nicotinic Acetylcholine Receptors	11:15 AM
Jean Padilla-Aponte	Genetic Analysis of <i>E. coli</i> Mutants Resistant to Rho Overproduction	11:30 AM
Anissa Alexander	Using the Connectivity Map and Gene Ontology to Find New Uses for Existing Drugs in Treating Cancer and Diabetes	11:45 AM
Stephanie Brown	Why Some Bacteria Make Us Sick: Using molecular biology tools to characterize potential disease causing genes in <i>Salmonella</i> serotypes	12:00 PM
Jordan Dow	Visual Cycle Defects in <i>Drosophila</i> Lead To Retinal Degeneration	12:15 PM
Deborah Ayeni	Using a biochemical screen to identify inhibitors of the Integrated Stress Response	12:30 PM
Justin Garyu, Yale University		2:45 – 4:15
Stephanie Chan	Comparative Biochemical Analysis of Amyloid Beta Fragments in Alzheimer's Human and Transgenic Mice Brains	2:45 PM
Denisse Izquierdo	Identifying the Mechanism of Epidermal Growth Factor (EGF) Induced Increase in Survivin Expression in Rat Beta Cells	3:00 PM
Samantha Berkheimer	Characterization of Novel Genes Associated with Mouse Mammary Tumor Virus Common Integration Sites	3:15 PM
Jose Montoyo-Rosario	The Role of KDM5 Family of Demethylases in Heterochromatin Formation	3:30 PM
Coral Cabrera-Montalvo	Sequencing Nicotinic Acetylcholine Receptors CHRND and CHRNG	3:45 PM
Lourdes Ramirez	Regulation of Hepatic B Cells by Syndecan-1 proteoglycan	4:00 PM

**Tania Nevers, Brown University****4:30 – 5:45**

Matthew DeMars	ART-27: a Cofactor of the Androgen Receptor Whose Role As a Tumor Suppressor May Be Altered or Nonfunctional in Prostate Cancer Cells	4:30 PM
Joel Fernandez	The Role of the Complexin C-terminus in the Regulation of Neurotransmitter Release	4:45 PM
Al Ray, III	Investigation of the effects of Cell Degradation on Laser Capture Microdissection of Mock Sexual Assault Evidence	5:00 PM
Josephine Garban	Regulation of Drosophila Feeding Rhythms by microRNA Dme-miR-278	5:15 PM
Nicolas Cordero	Mechanism of p53-independent Apoptosis in Drosophila	5:30 PM

**Bridgewater*****Applied and Basic Biosciences*****Tyler Hickman, Tufts University****11:15 – 12:30**

Fabiola Louis	Capture and Selective Elution of Microbial Cells in Clinical Fluids by Absorption of Chitosan Coated Silica Particles	11:15 AM
Thang Nguyen	The Effect of Peptides BPI-BP16 for In-vitro Inhibition of HIV-1 Tat/TAR Interaction Using a Firefly Luciferase Expression Assay	11:30 AM
Nicole Simon	Characterizing HIV-1 Matrix and PIP2 During Viral Assembly	11:45 AM
Mohammad Usmani	Pharmacological Characterization of Cloned and Native Transient Receptor Potential Melanostatin – Subtype 8 (TRPM8) Channels	12:00 PM
Yakov Yakubov	Role of Serotonin on Sensorimotor Gating of the Goldfish Startle Escape Response	12:15 PM

**Trenton*****Humanities, Social Sciences, Policy and Ethics*****Kedrick Perry, University of Virginia****11:15 – 12:45**

Veronica Morales	Mexican-American Storytelling and Theater: The Shrunk Head of Pancho Villa's Influence on Political Movements	11:15 AM
Courtney Hobson	Propaganda and the Popish Plot of 1678: The Case of Roger L'Estrange	11:30 AM
Tiara Moultrie	Peons Multiply Like Rabbits: Rhetoric, Power and the Adoption of Preventive Agencies in Mexico, 1920–1940	11:45 AM
Theodore Young	Black Perceptions of Chinese Labor in the Post Civil War South	12:00 PM
Virgo Morrison	An Analysis of Drug Neighborhoods in Manhattan from 1946–1950	12:15 PM
Ali Wright	Asylum Life and Experiences of Mental Illness in 19th-Century African-American Communities: The Falsification of the 1840 Census	12:30 PM

Oscar Figueredo, Cornell University**2:45 – 4:15**

Charles Manning	Social Network Diversity and Interracial Relationships	2:45 PM
Erick Paulino	Minority social influence in intergroup interactions	3:00 PM
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	3:15 PM
Victoria McBride	Convert or Coexist: Catholic Ecumenism Efforts After Vatican II	3:30 PM
Alexandra Ornelas	Immigrant Integration in the United States	3:45 PM
Schuyler Marquez	Citizenship versus Cultural Belonging: Defining Integration of Muslims in Denmark	4:00 PM

**Kristin Dukes, Tufts University Medford****4:30 – 5:45**

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

**Monroe*****Humanities, Social Sciences, Policy and Ethics*****Nicholas Everage, Brown University****11:15 – 12:45**

Calie Edmonds	Race, Class, and Perceptions of the Legal System	11:15 AM
Yaseen Eldik	Islamophobia: Is She a Terrorist?	11:30 AM
Adrienne Conant	The Illusion of Control	11:45 AM
Gabrielle Horton	Decentralization or Absolute Chaos: The United Federation of Teachers and the 1968 Conflict at Ocean Hill-Brownsville	12:00 PM
Karina Medved	What You Say and How You Say It: Verbal and Non-Verbal Reactions to Discrimination Claims	12:15 PM
Raphaella Romero	Eliza Haywood's Amatory Fiction: Sexual Violence and Gender Constraints	12:30 PM

Andrew Hao, University of California at Berkeley**2:45 – 4:15**

Lorenzo Lorenzo-Luaces Valencia	The Working Alliance in Cognitive Therapy of Depression: Reliability, Validity, and Interrelations of Patient, Therapist, and Observer Ratings	2:45 PM
Kiara Drake	Practicability and Democracy in Antonin Scalia's Originalism and Stephen Breyer's Living Constitutionalism	3:00 PM
Gabrielle Arrington	Nativity, Family Resources, and Health: An Analysis of Nativity Differences in Youth Smoking	3:15 PM
Jasmine Smith	Access Denied: A Study of the Relationship between Socioeconomic Status, Built Environments, and Obesity Prevalence Among Children in Los Angeles	3:30 PM
Helena Taye	David and Goliath: Under Which Political Conditions is Poverty Alleviation Plausible in African States?	3:45 PM
Jenna Medaris	Does Feeling Good Release the Emotional Brake? Positive Mood's Influence on Social Inhibition	4:00 PM

Sarah Gaither, Tufts University Medford**4:30 – 5:45**

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

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

Marcia Walker, University of Chicago		11:15 – 12:45
Lauren Lee-Houghton	Does Identity Function as a Mechanism of Group Solidarity? A Critical Analysis of Group Solidarity	11:15 AM
Mamie Davis	Perception of Social Groups: A Linguistic Comparison of Collegiate Greek Organizations	11:30 AM
Jackson Wray	Identity Prototypicality: Effects of Group-based Ideologies on Intersectional Identities	11:45 AM
Jacqueline Larios	Citizens or Subjects: Colonial Algeria and the Multiplicity of French Identity, 1918–1939	12:00 PM
Elizabeth Sawyer	As He Saw Himself: Historical Perceptions and the Importance of Jacksonian Self-Concept	12:15 PM
Shamell Bell	‘Jerkin’: The Viral Construction of Aesthetics, Identity, and Movement in an Emergent Youth Dance Form	12:30 PM
Natalie Perry, University of Virginia		2:45 – 4:15
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?	2:45 PM
Precious Boone	Critical Pedagogy: Student-Centered Learning and the Importance of Technology in the High School Classroom	3:00 PM
Eugene Smith	Cultural and Economic Differences in Learning and Academic Performance: A Comparative Study on European American and Chinese American Children	3:15 PM
Candace Okello	Matters of the Soul: Rhetoric of the Black Intellectual	3:30 PM
Jessica Leonard	Success or Failure? The Effects of No Child Left Behind on Mississippi Elementary Schools	3:45 PM
Judith Landeros	Latina/o Youth College Aspirations and Expectations: Analyzing Student-Teacher Relationships and School Attachment	4:00 PM
Nicholas Everage, Brown University		4:30 – 5:45
Philana Payton	Unhappily Ever After: Representations of Race, Gender and Social Mobility in Hollywood Film	4:30 PM
John Aragon	Visionaire: Creating Space for People, Pop, and Fashion	4:45 PM
Whytnee Foriest	African Americans & Local Television News: A Content Analysis	5:00 PM
Parris Baker	Hip-Hop Politics and the 2008 Presidential Election	5:15 PM
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”	5:30 PM

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

Riana Anderson, University of Virginia		11:15 – 12:45
Vanessa Mari	The Spanish Harlem Life and the Political Influence of the Young Lords as Explored by Nuyorican Novel Writers	11:15 AM
Brandon Sward	Thrasymachus' Blush: Lying and the Lawgiver in The Republic and The Laws	11:30 AM
Amber Spry	Which Opinions Count? African Americans and Race Neutral Ballot Initiatives & Outcomes	11:45 AM
Rosina Pradhananga	Binational Efforts In Promoting Sustainable Development Through Air Pollution Reduction In Mexicali-Imperial Valley	12:00 PM
George Aumoithe	"Democratic to a Fault": The Contested Politics of the AIDS Coalition to Unleash Power, 1987–1997	12:15 PM
Kevon Barkley	An Analysis of the Fiscal Impacts of Natural Gas Drilling on Communities in the Marcellus Shale	12:30 PM
Eliza Buhner, Cornell University		2:45 – 4:15
Mae Caastillo	Activation of the Central Stress Circuit by Blockade of Alpha-1 adrenoceptors in the Lower Brainstem	2:45 PM
Carol Torres	Investigating Psychological Stress as a Factor that can Lead to Activation of ERK	3:00 PM
Yessenia Torres	Absence of Relation of Perceived Stress to Cognitive Function in Older Adults	3:15 PM
Travis Alvarez	The Effects of Spatial and Temporal Resolution on FMRI Reward-Related Activation	3:30 PM
Natalie Rodriguez	Maternal Depression and its Effects on Boys' and Girls' Emotion Processing	3:45 PM
Jon Harvey	Neural Systems Regulating Anxiety-States and Anxiety-Related Behavior: The Role of Serotonergic Systems in the Dorsal Raphe Nucleus	4:00 PM
Kedrick Perry, University of Virginia		4:30 – 5:45
Hafsa Mohamed	Seeing the Water: Racial Associations in Everyday Life	4:30 PM
Alexander Lobert	Resource Management Behavior of Fishing Cooperatives in Baja California Sur	4:45 PM
CaVar Reid	Ain't No Fathers In The Hood: A Socio-Historical Analysis of of Black Male Engagement With Economic Fatherhood	5:00 PM
Melissa Brown	Culture and Conception of Failure	5:15 PM
Jessica Wielgus	Philanthropy: Private Action and the Public Good	5:30 PM

**Hillsborough***Engineering, Physical Sciences and Earth Sciences*

Charisma Edwards, Louisiana State University - Baton Rouge		11:15 – 12:45
Victor Tumalak	A Design for A Displacement Sensor on a Micro-Electrical-Mechanical System Membrane Mirror	11:15 AM
Marie Steele	The Nonlinear Dynamics of Decision Making	11:30 AM
Natalia Vázquez	Comparison of Protein and Carbohydrate Associations with Fine Particulate Matter in Sub-Alpine Aerosols from Urban Environments in Boulder, Colorado	11:45 AM
Kirstan Walker	Low Altitude UAV Flight Control Using a Miniature Optical Flow Sensor	12:00 PM
Yolian Amaro-Rivera	Design and Implementation of an Analog Mixer for Meteor Radar Applications	12:15 PM
Joanna Ciavarella	Analysis of Nucleotide Base Pairing Pattern in Wildtype and Mutated Tobacco Etch Virus (TEV) mRNA Pseudoknot using Nuclear Magnetic Resonance Spectroscopy	12:30 PM

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

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

**Somerville*****Engineering, Physical Sciences and Earth Sciences*****Alia Lubers, University of Colorado at Boulder****11:15 – 12:45**

Florencia Paredes	Mapping the Surface Chemistry of Heterogeneously-coated Glass using pH-sensitive Fluorophores	11:15 AM
Dawson Demontiney	Comparison Of Sample Preparation Methods For Scanning Electron Microscopy: Air Drying Versus Critical Point Drying	11:30 AM
Kenneth Barnes	Building a Simple Fluorescence Recovery After Photobleaching (FRAP) Instrument	11:45 AM
Yashira Negrón-Abril	Novel Zn-Porphyrin Tweezer as a Circular Dichroism Sensitive Reporter of Amino Alcohol Chirality	12:00 PM
Jennifer Overson	A Decision Tree to Aid the Implementation of Linear Algebra Operations	12:15 PM
Gracey Morgan	Parameter Study of the Effect of Base Isolation on Building Response and Losses	12:30 PM

Alia Lubers, University of Colorado at Boulder**2:45 – 4:15**

Aaron Dolor	Porphyrinoid Photophysical Studies	2:45 PM
Marvin Alfaro	Location of the Antarctic Polar Front from 4km AVHRR Satellite Sea Surface Temperature Measurements	3:00 PM
Christina De Jesus-Villanueva	Biomphalaria glabrata: A Potential Alternate Intermediate Host for Ribeiroia ondatrae	3:15 PM
Andria Peña	Effect of Waste Water and Organic Compounds on Ozone Degradation Process in Drinking Water Source Before and After the Colorado Boulder Creek Treatment Plant	3:30 PM
Will Fletcher	Exploring the Bilayer-modifying Potential of Limonene and Related Molecules	3:45 PM
Chrysantus Bandon-Bibum II	Effects of Different Sorbents in Removing Gas-Phase H ₂ S, CoS, and SO ₂	4:00 PM



STUDENT ORAL PRESENTATIONS

BY NAME

Natalie Aarons Cooke
11:30 AM
Brunswick C
Presentation Title Cloning of the Cardiac Myosin Heavy Chain Isoform Genes of the Burmese Python

Research Mentor Leslie Leinwand

Research Institution University of Colorado at Boulder

Home Institution New Mexico State University

Co-Authors Leslie Leinwand, Stephen Langer and Chris Wall, University of Colorado at Boulder

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

Research Mentor Jeff Leips

Research Institution University of Maryland, Baltimore County

Home Institution University of Maryland, College Park

Co-Authors Jeff Leips, University of Maryland, Baltimore County

Lauren Acevedo Molina
3:45 PM
Woodbridge
Presentation Title The Rate of Somatic Mutations in Human Anti-V3 HIV-1 Monoclonal Antibodies

Research Mentor Mirosław Gorny

Research Institution New York University Sackler Institute

Home Institution UPR-Rio Piedras

Co-Authors Mirek Gorny and Constance Williams, New York University

Kadidia Adula
2:45 PM
Brunswick A
Presentation Title Gentamicin Damages Lateral Line Hair Cells and Changes the Expression of Brain Gap-43 Levels in Bullfrog Larvae

Research Mentor Andrea Simmons

Research Institution Brown University

Home Institution Brooklyn College CUNY

Co-Authors Andrea Simmons, Brown University

Antonella Albuja
2:45 PM
Hillsborough
Presentation Title Modeling and Analysis of Galaxy-15 and Relevant Geosynchronous Satellite Orbits for Potential Collision Identification

Research Mentor Penina Axelrod

Research Institution University of Colorado at Boulder

Home Institution Iowa State University

Co-Authors Penina Axelrod, University of Colorado at Boulder

Anissa Alexander
11:45 AM
Edison
Presentation Title Using the Connectivity Map and Gene Ontology to Find New Uses for Existing Drugs in Treating Cancer and Diabetes

Research Mentor Vivian Cheung

Research Institution University of Pennsylvania

Home Institution University of Maryland, Baltimore County

Co-Authors Vivian Cheung and Xiaorong Wang, University of Pennsylvania

Blair Alexander Jr.
11:45 AM
Brunswick C
Presentation Title The Role of H19 in the Imprinting Gene Network

Research Mentor Marisa Bartolomei

Research Institution University of Pennsylvania

Home Institution Morehouse College

Co-Authors Lara Abramowitz and Marisa Bartolomei, University of Pennsylvania

Marvin Alfaro
3:00 PM
Somerville
Presentation Title Location of the Antarctic Polar Front from 4km AVHRR Satellite Sea Surface Temperature Measurements

Research Mentor Nicole Lovenduski

Research Institution University of Colorado at Boulder

Home Institution University of Miami

Co-Authors Nicole Lovenduski, University of Colorado at Boulder



Travis Alvarez 3:30 PM
Windsor
Presentation Title The Effects of Spatial and Temporal Resolution on fMRI Reward-Related Activation
Research Mentor Brian Knutson
Research Institution Stanford University
Home Institution Brooklyn College CUNY
Co-Authors Brian Knutson, Stanford University School of Humanities & Sciences

Yolian Amaro-Rivera 12:15 PM
Hillsborough
Presentation Title Design and Implementation of an Analog Mixer for Meteor Radar Applications
Research Mentor Scott Palo
Research Institution University of Colorado at Boulder
Home Institution UPR-Mayaguez
Co-Authors Scott Palo and Cody Vaudrin, University of Colorado at Boulder

Amber Anders 11:15 AM
Brunswick A
Presentation Title Placental Serotonin Transporter Gene Expression: Interaction Effects Among Maternal Depression, Fetal Gender, and Serotonin Transporter Genotype
Research Mentor James Padbury
Research Institution Brown University
Home Institution Washington University in St. Louis
Co-Authors James F. Padbury and Bethany McGonnigal, Brown University

John Aragon 4:45 PM
Princeton
Presentation Title Visionaire: Creating Space for People, Pop, and Fashion
Research Mentor Madison Moore
Research Institution Yale University
Home Institution CSU San Marcos
Co-Authors Kimberly Juanita Brown and Madison Moore, Yale University

Caitlin Armijo 11:15 AM
Brunswick C
Presentation Title Transcriptional Regulation of the Cardiac Conduction System
Research Mentor Glenn Fishman
Research Institution New York University Sackler Institute
Home Institution University of New Mexico
Co-Authors Glenn Fishman and Steven Giovannone, New York University

Gabrielle Arrington 3:15 PM
Monroe
Presentation Title Nativity, Family Resources, and Health: An Analysis of Nativity Differences in Youth Smoking
Research Mentor Margot Jackson
Research Institution Brown University
Home Institution Georgia State University
Co-Authors Margot Jackson, Brown University

George Aumoithe 12:15 PM
Windsor
Presentation Title “Democratic to a Fault”: The Contested Politics of the AIDS Coalition to Unleash Power, 1987–1997
Research Mentor Steven Mintz
Research Institution Columbia University
Home Institution Bowdoin College
Co-Authors Steven Mintz, Columbia University

Deborah Ayeni 12:30 PM
Edison
Presentation Title Using a Biochemical Screen to Identify Inhibitors of the Integrated Stress Response
Research Mentor Costas Koumenis
Research Institution University of Pennsylvania
Home Institution City College of New York
Co-Authors Costas Koumenis and Lori Hart, University of Pennsylvania

Parris Baker 5:15 PM
Princeton
Presentation Title Hip-Hop Politics and the 2008 Presidential Election
Research Mentor Michael Dawson
Research Institution University of Chicago
Home Institution University of Florida
Co-Authors Michael Dawson, Cathy Cohen and Julie Merseth, University of Chicago

Chrysantus Bandon-Bibum II 4:00 PM
Somerville
Presentation Title Effects of Different Sorbents in Removing Gas-Phase H₂S, CoS and SO₂
Research Mentor Reginald E. Mitchell
Research Institution Stanford University
Home Institution University of Maryland, Baltimore County
Co-Authors Reginald E. Mitchell



Kelvon Barkley <i>Windsor</i>	12:30 PM
Presentation Title An Analysis of the Fiscal Impacts of Natural Gas Drilling on Communities in the Marcellus Shale	
Research Mentor Kieran Donaghy	
Research Institution Cornell University	
Home Institution North Carolina A&T State University	
Co-Authors Kieran P. Donaghy and Javier Ignacio Perez Burgos, Cornell University	
Kenneth Barnes <i>Somerville</i>	11:45 AM
Presentation Title Building a Simple Fluorescence Recovery After Photobleaching (FRAP) Instrument	
Research Mentor Adam Hammond	
Research Institution University of Chicago	
Home Institution Chicago State University	
Co-Authors Adam Hammond and Robin Burgin, University of Chicago	
Danielle Barton <i>Trenton</i>	5:15 PM
Presentation Title The Parent-Adolescent Relationship and Obesity: Associations between Parents' Decision Making and Adolescents' Responsibility for Weight Related Behaviors	
Research Mentor Rena Wing	
Research Institution Brown University	
Home Institution Morgan State University	
Co-Authors John Graham Thomas, Elissa Jelalian and Rena Wing, Brown University	
Shamell Bell <i>Princeton</i>	12:30 PM
Presentation Title 'Jerkin': The Viral Construction of Aesthetics, Identity, and Movement in an Emergent Youth Dance Form	
Research Mentor Jafari Allen	
Research Institution Yale University	
Home Institution University of Southern California	
Co-Authors Jafari Allen and Madison Moore, Yale University	

Samantha Berkheimer <i>Edison</i>	3:15 PM
Presentation Title Characterization of Novel Genes Associated with Mouse Mammary Tumor Virus Common Integration Sites	
Research Mentor Susan Ross	
Research Institution University of Pennsylvania	
Home Institution Susquehanna University	
Co-Authors Susan R. Ross and Hyoun Kim, University of Pennsylvania	
Ashley Berryman <i>Hillsborough</i>	3:00 PM
Presentation Title Student Achievement and the Challenges of Elementary Mathematics	
Research Mentor Constance Ellison	
Research Institution Howard University	
Home Institution Elizabeth City State University	
Co-Authors Marilyn Irving, Howard University	
Abigail Boateng <i>Boardroom II</i>	2:45 PM
Presentation Title The Effect of Diet on the Growth and Infection of <i>Candida albicans</i> in Host Organisms	
Research Mentor Carol Kumamoto	
Research Institution Tufts University	
Home Institution University of Maryland, Baltimore County	
Co-Authors Carol Kumamoto and Stephanie Tornberg, Tufts University School of Graduate Biomedical Sciences	
Precious Boone <i>Princeton</i>	3:00 PM
Presentation Title Critical Pedagogy: Student-Centered Learning and the Importance of Technology in the High School Classroom	
Research Mentor Constance Ellison	
Research Institution Howard University	
Home Institution UC Santa Barbara	
Co-Authors Constance Ellison and Wade Harrell, Howard University	
Joshua Borgerding <i>Woodbridge</i>	2:45 PM
Presentation Title Depressing Neighbors: Death Receptor Expression on LSECs Following Polymicrobial Septic Insult	
Research Mentor Alfred Ayala	
Research Institution Brown University	
Home Institution Washington University in St. Louis	
Co-Authors Noelle Hutchins and Alfred Ayala, Brown University	



Diego Borrali 5:30 PM*Brunswick C***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*Boardroom II***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*Woodbridge***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*Windsor***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*Edison***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*Brunswick A***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*Brunswick C***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*Monroe***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*Hillsborough***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 <i>Edison</i>	3:45 PM
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 <i>Trenton</i>	3:15 PM
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 <i>Brunswick A</i>	3:00 PM
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 <i>Windsor</i>	2:45 PM
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, Yasmeen Safraz and Yan Lin, New York University	
Stephanie Chan <i>Edison</i>	2:45 PM
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 <i>Hillsborough</i>	12:30 PM
Presentation Title Analysis of Nucleotide Base Pairing Pattern in Wildtype and Mutated Tobacco Etch Virus (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 <i>Piscataway</i>	3:00 PM
Presentation Title ALDH7A1 in Superficial-Spreading and Nodular Melanoma Research Mentor Iman Osman Research Institution New York University Sackler Institute Home Institution University of North Carolina Chapel Hill Co-Authors Laura Poliseno and Iman Osman, New York University	
Adrienne Conant <i>Monroe</i>	11:45 AM
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 <i>Brunswick A</i>	12:00 PM
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 <i>Edison</i>	5:30 PM
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 Bergeik, 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 Schaumberg, 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 Claflin 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 Fleysheer, 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 Islamophobia: 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 Arts and Sciences

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 Pennsylvania**Home Institution** University of Puerto Rico at Ponce**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** Paris 7 University**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



Meghan Francis 12:15 PM
Brunswick C
Presentation Title Genetic Analysis of the CpG Hypo-response in MOLF/Ei Mice
Research Mentor Alexander Poltorak
Research Institution Tufts University
Home Institution West Liberty University
Co-Authors Alexander Poltorak and Annie Moseman, Tufts University School of Graduate Biomedical Sciences

Josephine Garban 5:15 PM
Edison
Presentation Title Regulation of Drosophila Feeding Rhythms by microRNA Dme-miR-278
Research Mentor Amita Sehgal
Research Institution University of Pennsylvania
Home Institution Temple University
Co-Authors Amita Sehgal and Wengyu Luo, University of Pennsylvania

Sabah Ghulamali 5:00 PM
Monroe
Presentation Title Aiding Youth: Assessing the Impact of the AIDS Epidemic on Kenyan Adolescents
Research Mentor Susan Short
Research Institution Brown University
Home Institution University of Maryland, Baltimore County
Co-Authors Susan Short and Nancy Luke, Brown University

Eric Gibbs 3:15 PM
Piscataway
Presentation Title Investigating the Potential Anti-proliferative Effects of Rosiglitazone on a Human Endothelial Cell Model
Research Mentor Ian Blair
Research Institution University of Pennsylvania
Home Institution Temple University
Co-Authors Sumit J. Shah and Ian Blair, University of Pennsylvania

Ciara Gimblet 11:15 AM
Brunswick B
Presentation Title The Role of Aryl Hydrocarbon Receptor in the Transcription of Th2 cytokine IL-13
Research Mentor Dan Littman
Research Institution New York University Sackler Institute
Home Institution Howard University
Co-Authors Gretchen Dhiel and Dan Littman, New York University

Michele Gomez 3:15 PM
Brunswick B
Presentation Title Ubiquitin Carboxy-Terminal Hydrolase L1: Roles at the Synapse
Research Mentor Sreeganga Chandra
Research Institution Yale University
Home Institution Rutgers University
Co-Authors Sreeganga Chandra, Yale University

Alejandro Gonzalez 12:15 PM
Piscataway
Presentation Title Testing the Relationship between Embryo and Organism Size: Implications for Primordial Dwarfism
Research Mentor Julie Canman
Research Institution Columbia University
Home Institution University of North Texas
Co-Authors Julie Canman, Columbia University

Tiffany Gray 4:30 PM
Monroe
Presentation Title Understanding Habituation as it Relates to Stress
Research Mentor Heidi Day
Research Institution University of Colorado at Boulder
Home Institution Metropolitan State College of Denver
Co-Authors Serge Campeau, Heidi Day and Cher Masini, University of Colorado at Boulder

Michelle Haring 12:15 PM
Brunswick A
Presentation Title Genetic Variation at CD36 and its Role in Malaria Susceptibility and Resistance
Research Mentor Sarah Tishkoff
Research Institution University of Pennsylvania
Home Institution University of Wisconsin River Falls
Co-Authors Felicia Gomez and Sarah Tishkoff, University of Pennsylvania

Jon Harvey 4:00 PM
Windsor
Presentation Title Neural Systems Regulating Anxiety-States and Anxiety-Related Behavior: The Role of Serotonergic Systems in the Dorsal Raphe Nucleus
Research Mentor Chris Lowry
Research Institution University of Colorado at Boulder
Home Institution University of Evansville
Co-Authors Matthew Hale and Christopher Lowry, University of Colorado at Boulder



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 Jarzebowski 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



Max Liu 4:30 PM
Brunswick C
Presentation Title Metalloproteases and Cell Signaling: a Novel Target for Cancer Therapy
Research Mentor Paolo Mignatti
Research Institution New York University Sackler Institute
Home Institution Duke University
Co-Authors Paolo Mignatti and Cristina Valacca, New York University

Jose Llongueras 11:30 AM
Woodbridge
Presentation Title Dynamic Function of Ca²⁺-ATPase SPCA2 and TRP Ion Channels in Breast Cancer
Research Mentor Rajini Rao
Research Institution Johns Hopkins University
Home Institution University of Texas at Brownsville
Co-Authors Brandie Cross and Rajini Rao, Johns Hopkins University

Alexander Lobert 4:45 PM
Windsor
Presentation Title Resource Management Behavior of Fishing Cooperatives in Baja California Sur
Research Mentor Sriniketh Nagavarapu
Research Institution Brown University
Home Institution Northwestern University
Co-Authors Sriniketh Nagavarapu, Brown University

Roxana Loperena 4:00 PM
Brunswick B
Presentation Title The transcription factor c-Myb regulates neuromedin U expression in primary human CD34⁺ cells undergoing erythroid differentiation
Research Mentor Susan E. Shetzline
Research Institution University of Pennsylvania
Home Institution UPR-Rio Piedras
Co-Authors Susan Shetzline and Julia Gambone, University of Pennsylvania

Carla Lopez 5:00 PM
Piscataway
Presentation Title Verapamil Block of Voltage Gated Sodium Channels
Research Mentor Dorothy Hanck
Research Institution University of Chicago
Home Institution Wellesley College
Co-Authors Dorothy Hanck and Pamela Bergson, University of Chicago

Andrea Lopez-Cepero 12:15 PM
Woodbridge
Presentation Title Investigation of Caspase-3 And Its Role In Reo-virus Induced Apoptosis and Mu1 Cleavage
Research Mentor John Parker
Research Institution Cornell University
Home Institution UPR-Rio Piedras
Co-Authors John Parker and Irene A. Amaro, Cornell University

Lorenzo Lorenzo-Luaces Valencia 2:45 PM
Monroe
Presentation Title The Working Alliance in Cognitive Therapy of Depression: Reliability, Validity, and Interrelations of Patient, Therapist, and Observer Ratings
Research Mentor Robert DeRubeis
Research Institution University of Pennsylvania
Home Institution UPR-Rio Piedras
Co-Authors Christian Webb and Robert J. DeRubeis, University of Pennsylvania

Fabiola Louis 11:15 AM
Bridgewater
Presentation Title Capture and Selective Elution of Microbial Cells in Clinical Fluids by Absorption of Chitosan Coated Silica Particles
Research Mentor Noel Goddard
Research Institution Hunter College
Home Institution Hunter College
Co-Authors Noel Goddard, Hunter College

Seshat Mack 5:15 PM
Brunswick C
Presentation Title Synthesis of Structurally-Diverse SAM Analogues and Their Reactivity as Potential SAM Analogue Cofactors
Research Mentor Minkui Luo
Research Institution Weill Cornell Medical College
Home Institution Howard University
Co-Authors Minkui Luo, Kabirul Islam and Weihong Zhang, Memorial Sloan-Kettering Cancer Center

Charles Manning 2:45 PM
Trenton
Presentation Title Social Network Diversity and Interracial Relationships
Research Mentor David Grusky
Research Institution Stanford University
Home Institution Howard University
Co-Authors David Grusky and Rachel Lindenberg, Stanford University School of Humanities & Sciences



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 Novel 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 Saldívar
Research Institution Stanford University
Home Institution University of Pennsylvania
Co-Authors José David Saldívar, Stanford University School of Humanities Sciences

Francisco Martinez 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 Thrombocytopoietic 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 Lymphotoxin 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

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

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

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 Chantip Metheetrakul, Yale 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 MarYam Hamedami, Stanford University School of Humanities & Sciences

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

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

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

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

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



Virgo Morrison 12:15 PM
Trenton
Presentation Title An Analysis of Drug Neighborhoods in Manhattan from 1946-1950
Research Mentor Samuel Roberts
Research Institution Columbia University
Home Institution Morgan State University
Co-Authors Samuel K. Roberts, Columbia University

Tiara Moultrie 11:45 AM
Trenton
Presentation Title Peons Multiply Like Rabbits: Rhetoric, Power and the Adoption of Preventive Agencies in Mexico, 1920-1940
Research Mentor Samuel Roberts
Research Institution Columbia University
Home Institution Saint John's University
Co-Authors Samuel K. Roberts, Columbia University

Lauren Moyer 11:30 AM
Piscataway
Presentation Title A Mechanistic Study of HPV Integration
Research Mentor Jianxin You
Research Institution University of Pennsylvania
Home Institution Millersville University
Co-Authors Jianxin You and Jason Diaz, University of Pennsylvania

Nicole Naiman 5:30 PM
Brunswick A
Presentation Title Enhancing the Antigenicity of Neutralizing Epitopes on HIV Envelope gp120 Immune Complex
Research Mentor Catarina Hioe
Research Institution New York University Sackler Institute
Home Institution Ohio State University
Co-Authors Catarina Hioe, Michael Tuen and Rajnish Kumar, New York University

Yashira Negrón-Abril 12:00 PM
Somerville
Presentation Title Novel Zn-Porphyrin Tweezer as a Circular Dichroism Sensitive Reporter of Amino Alcohol Chirality
Research Mentor Nina Berova
Research Institution Columbia University
Home Institution UPR-Rio Piedras
Co-Authors Nina Berova and Ana Petrovic, Columbia University; Ghislaine Vantomme, Ecole Normale Supérieure de Cachan

Thang Nguyen 11:30 AM
Bridgewater
Presentation Title The Effect of Peptides BPI-BP16 for In-vitro Inhibition of HIV-1 Tat/TAR Interaction Using a Firefly Luciferase Expression Assay
Research Mentor David Rekosh
Research Institution University of Virginia
Home Institution
Co-Authors David Rekosh and Brandon Jeffus, University of Virginia

Dalimar Nieves-Mas 4:30 PM
Brunswick B
Presentation Title The Role of α -1 Adrenergic Receptors in Mediating Exosomal eHsp72 Expression
Research Mentor Monika Fleshner
Research Institution University of Colorado at Boulder
Home Institution UPR-Mayaguez
Co-Authors Monika Fleshner and Thomas Maslanik, University of Colorado at Boulder

Ezinne Nwankwo 3:00 PM
Boardroom II
Presentation Title Effect of Naphthoquinone Derivatives on *Trypanosoma cruzi*
Research Mentor Clarence Lee
Research Institution Howard University
Home Institution Emory University
Co-Authors Clarence Lee and Mozna Muneer, Howard University

Oluwatobiloba Odunsi 12:30 PM
Woodbridge
Presentation Title Forensic Perspectives on Tissue Mosaicism in Transplant Patients: Case Studies
Research Mentor Grace Axler-Diperte
Research Institution New York University Sackler Institute
Home Institution University of Texas at Austin
Co-Authors Grace Axler-Diperte, Office of Chief Medical Examiner

Candace Okello 3:30 PM
Princeton
Presentation Title Matters of the Soul: Rhetoric of the Black Intellectual
Research Mentor Debyii Thomas
Research Institution Howard University
Home Institution Westminster College
Co-Authors Debyii Thomas, Howard University



Victoria Okuneye 3:30 PM
Brunswick B
Presentation Title Protein Expression in Native Neuronal Cells vs. Differentiation-Guided Embryonic Stem Cells in Mouse Model
Research Mentor Mary-Beth Hatten
Research Institution Weill Cornell Medical College
Home Institution Massachusetts Institute of Technology
Co-Authors Xiaodong Zhu and Mary Beth Hatten, The Rockefeller University

Alexandra Ornelas 3:45 PM
Trenton
Presentation Title Immigrant Integration in the United States
Research Mentor Tomás Jiménez
Research Institution Stanford University
Home Institution Boise State University
Co-Authors Tomás Jiménez, Stanford University School of Humanities & Sciences

Jennifer Overson 12:15 PM
Somerville
Presentation Title A Decision Tree to Aid the Implementation of Linear Algebra Operations
Research Mentor Elizabeth Jessup
Research Institution University of Colorado at Boulder
Home Institution Oregon State University
Co-Authors Elizabeth Jessup, University of Colorado at Boulder

Jean Padilla-Aponte 11:30 AM
Edison
Presentation Title Genetic Analysis of E. coli Mutants Resistant to Rho Overproduction
Research Mentor Max Gottesman
Research Institution Columbia University
Home Institution UPR-Rio Piedras
Co-Authors Max Gottesman, Columbia University

Vignesh Palaniappan 11:15 AM
Edison
Presentation Title Proteomic Analyses of Murine alpha-3 and alpha-7 Nicotinic Acetylcholine Receptors
Research Mentor Vignesh Palaniappan
Research Institution Brown University
Home Institution University of Colorado at Boulder
Co-Authors William Brucker and Edward Hawrot, Brown University

Florencia Paredes 11:15 AM
Somerville
Presentation Title Mapping the Surface Chemistry of Heterogeneously-coated Glass using pH-sensitive Fluorophores
Research Mentor Daniel Schwartz
Research Institution University of Colorado at Boulder
Home Institution Cornell University
Co-Authors Daniel K. Schwartz and Mark J. Kastantin, University of Colorado at Boulder

Christina Parker 3:00 PM
Woodbridge
Presentation Title A Comparison of Wound Healing in Aged and Pediatric Human Skin
Research Mentor Diane Felsen
Research Institution Weill Cornell Medical College
Home Institution University of Maryland, Baltimore County
Co-Authors Diane Felsen, Weill Cornell Medical College

Erick Paulino 3:00 PM
Trenton
Presentation Title Minority Social Influence in Intergroup Interactions
Research Mentor Stacey Sinclair
Research Institution Princeton University
Home Institution Sarah Lawrence College
Co-Authors Stacey Sinclair, Princeton University

Janell Payano Sosa 3:15 PM
Brunswick C
Presentation Title The Role of the Vomeronasal Organ in Fear and Aggression in Mice
Research Mentor Tatsuya Ogura
Research Institution University of Maryland, Baltimore County
Home Institution Kutztown University
Co-Authors Weihong Lin and Kurt Krosnowski, University of Maryland, Baltimore County

Philana Payton 4:30 PM
Princeton
Presentation Title Unhappily Ever After: Representations of Race, Gender and Social Mobility in Hollywood Film
Research Mentor Montre Missouri
Research Institution Howard University
Home Institution Claflin University
Co-Authors Montre Missouri, Howard University



Andria Peña **3:30 PM**
Somerville
Presentation Title Effect of Waste Water and Organic Compounds on Ozone Degradation Process in Drinking Water Source Before and After the Colorado Boulder Creek Treatment Plant
Research Mentor Fernando Rosario-Ortiz
Research Institution University of Colorado at Boulder
Home Institution UPR-Mayaguez
Co-Authors Fernando Rosario and Sarah Gonzales, University of Colorado at Boulder

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 Chambless**Research Institution** University of Pennsylvania**Home Institution** University of Texas at Brownsville**Co-Authors** Dianne Chambless, University of Pennsylvania; Jacques Barber, University of Pennsylvania Medical School; Barbara Milrod, Cornell Weill Medical College

Natalie Rodríguez 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 Haywood's 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

Amandla 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



Michelle Rybak 5:15 PM
Piscataway
Presentation Title Generation of Induced Pluripotent Embryonic Stem Cells
Research Mentor Paul Feinstein
Research Institution Hunter College
Home Institution Massachusetts Institute of Technology
Co-Authors Paul Feinstein, Hunter College

Christina Saak 12:00 PM
Boardroom II
Presentation Title The Role of the BTB ZF Domain Protein Chinmo in Patterning and Growth of the Drosophila Eye and Wing
Research Mentor Erika Bach
Research Institution New York University Sackler Institute
Home Institution Jacobs University Bremen
Co-Authors Erika Bach and Marc Amoyel, New York University

Torrey Salmon 4:30 PM
Brunswick A
Presentation Title The Role of Inositol Polyphosphate MultiKinase (IPMK) on LKB1 Localization and Activity
Research Mentor Sangwon Kim
Research Institution University of Pennsylvania
Home Institution The University of Scranton
Co-Authors Sangwon Kim, Soohkee Bang and Yong Chen, University of Pennsylvania

Elizabeth Sawyer 12:15 PM
Princeton
Presentation Title As He Saw Himself: Historical Perceptions and the Importance of Jacksonian Self-Concept
Research Mentor Martha Sandweiss
Research Institution Princeton University
Home Institution Spelman College
Co-Authors Martha Sandweiss, Princeton University

Anthony Saxon 3:30 PM
Hillsborough
Presentation Title The NanoCard: Development of a Nano friendly application for the iPhone 4G
Research Mentor Gary Harris
Research Institution Howard University
Home Institution Morehouse College
Co-Authors Gary Harris, Howard University

Alicia Schep 12:00 PM
Brunswick C
Presentation Title The ARE-binding Protein AUF1 Regulates Telomerase Expression
Research Mentor Robert Schneider
Research Institution New York University Sackler Institute
Home Institution Harvey Mudd College
Co-Authors Robert Schneider, Adam Pont and Navid Sadri, New York University

Ashley Schloss 5:00 PM
Brunswick C
Presentation Title Rationally Designed Cyclic Sulfopeptides for HIV-1 Entry Inhibition
Research Mentor Jonathan Rudick
Research Institution University of Pennsylvania
Home Institution Temple University
Co-Authors Jonathan G. Rudick, University of Pennsylvania

Husna Shaik 3:30 PM
Boardroom II
Presentation Title Analysis of Secondary Structure Features of Wild-Type and Mutated Tobacco Etch Virus mRNA-Pseudoknots by Circular Dichroism
Research Mentor Nancy Greenbaum
Research Institution Hunter College
Home Institution Brooklyn College CUNY
Co-Authors Nancy Greenbaum and Dixie Goss, Hunter College

Erin Shoemaker 4:45 PM
Piscataway
Presentation Title Does Phosphatidic Acid Modulate the Effect of Protein Phosphatase 2A in Salt Stress Signaling?
Research Mentor Alison DeLong
Research Institution Brown University
Home Institution Misericordia University
Co-Authors Alison DeLong and Joshua Blakeslee, Brown University

Melanie Silvis 4:30 PM
Woodbridge
Presentation Title Characterizing the Role of CpsA in Mycobacterium tuberculosis Infection of Macrophages
Research Mentor Jennifer Philips
Research Institution New York University Sackler Institute
Home Institution UC Berkeley
Co-Authors Jennifer Philips, New York University



Nicole Simon 11:45 AM
Bridgewater
Presentation Title Characterizing HIV-1 Matrix and PIP2 During Viral Assembly
Research Mentor Michael Summers
Research Institution University of Maryland, Baltimore County
Home Institution University of Maryland, Baltimore County
Co-Authors Michael F. Summers and Peter Mercredi, University of Maryland, Baltimore County

Kenneth Skinner 12:30 PM
Piscataway
Presentation Title Parallelism Between Lysosome Related Organelles in Melanocytes and Platelets: Does Slc35d3 Localize to Melanosomes when Expressed in Melanocytes?
Research Mentor Michael Marks
Research Institution University of Pennsylvania
Home Institution Morehouse College
Co-Authors Michael Marks and Ronghua Meng, University of Pennsylvania

Eugene Smith 3:15 PM
Princeton
Presentation Title Cultural and Economic Differences in Learning and Academic Performance: A Comparative Study on European American and Chinese American Children
Research Mentor Jin Li
Research Institution Brown University
Home Institution Morgan State University
Co-Authors Jin Li and Yoko Yamamoto, Brown University

Jasmine Smith 3:30 PM
Monroe
Presentation Title Access Denied: A Study of the Relationship between Socioeconomic Status, Built Environments, and Obesity Prevalence Among Children in Los Angeles
Research Mentor Angel Harris
Research Institution Princeton University
Home Institution UC Berkeley
Co-Authors Angel Harris, Princeton University

Amber Spry 11:45 AM
Windsor
Presentation Title Which Opinions Count? African Americans and Race Neutral Ballot Initiatives & Outcomes
Research Mentor Robert Shapiro
Research Institution Columbia University
Home Institution University of Maryland, Baltimore County
Co-Authors Robert Shapiro, Columbia University

Mathew Starner 3:00 PM
Brunswick C
Presentation Title Role of unc-11 in the Toxicity of Beta-Amyloid in an Invertebrate Model of Alzheimer's Disease
Research Mentor Christopher Link
Research Institution University of Colorado at Boulder
Home Institution Macalester College
Co-Authors Vishantie Sudama and Christopher Link, University of Colorado at Boulder

Marie Steele 11:30 AM
Hillsborough
Presentation Title The Nonlinear Dynamics of Decision Making
Research Mentor Philip Holmes
Research Institution Princeton University
Home Institution University of Maryland, Baltimore County
Co-Authors Philip Holmes, Princeton University

Kimberly Stratford 11:45 AM
Piscataway
Presentation Title Bypassing Hepatic Insulin After Menopause
Research Mentor John Stafford
Research Institution Vanderbilt University
Home Institution North Carolina A&T State University
Co-Authors John Stafford, Melissa Martinez and David Cappel, Vanderbilt University

Brandon Sward 11:30 AM
Windsor
Presentation Title Thrasymachus' Blush: Lying and the Lawgiver in The Republic and The Laws
Research Mentor Karen Jackson-Weaver
Research Institution Princeton University
Home Institution University of Chicago
Co-Authors Stephen Macedo, Princeton University



Helena Taye 3:45 PM
Monroe
Presentation Title David and Goliath: Under which Political Conditions is Poverty Alleviation Plausible in African States?
Research Mentor Robert Shapiro
Research Institution Columbia University
Home Institution UMass Amherst
Co-Authors Robert Shapiro and Narayani Lasala-Blanco, Columbia University

Katherine Toll 4:45 PM
Brunswick C
Presentation Title Interspecific Competition among Plant Populations in a Reconstructed Tallgrass Prairie
Research Mentor Justin Borevitz
Research Institution University of Chicago
Home Institution University of Miami
Co-Authors Justin Borevitz, Geoffrey Morris and Paul Grabowski, University of Chicago

Carol Torres 3:00 PM
Windsor
Presentation Title Investigating Psychological Stress as a Factor that can Lead to Activation of ERK
Research Mentor Robert Spencer
Research Institution University of Colorado at Boulder
Home Institution Universidad Interamericana de Puerto Rico, Ponce
Co-Authors Robert Spencer and Chad Osterlund, University of Colorado at Boulder

Juan Torres 11:45 AM
Brunswick A
Presentation Title Development of a Luciferase Reporter for the Lck Gene
Research Mentor Adolfo Ferrando
Research Institution Columbia University
Home Institution University of Miami
Co-Authors Adolfo Ferrando and Maria Sol Flaherty, Columbia University

Yesenia Torres 3:15 PM
Windsor
Presentation Title Absence of Relation of Perceived Stress to Cognitive Function in Older Adults
Research Mentor Shari Waldstein
Research Institution University of Maryland, Baltimore County
Home Institution UPR-Rio Piedras
Co-Authors Megan Hosey, Leslie I. Ketznel, and Shari Waldstein, University of Maryland, Baltimore County

Johnathan Tran 4:00 PM
Brunswick A
Presentation Title Presynaptic versus Postsynaptic Na⁺ Channel Expression in Preparations of Rat Cortical Synaptic Membranes
Research Mentor Hugh Hemmings
Research Institution Weill Cornell Medical College
Home Institution Brown University
Co-Authors Robert Westphalen and Hugh Hemmings, Weill Cornell Medical College

Victor Tumalak 11:15 AM
Hillsborough
Presentation Title A Design for a Displacement Sensor on a Micro-Electrical-Mechanical System Membrane Mirror
Research Mentor David Dickensheets
Research Institution Montana State University-Bozeman
Home Institution Fort Belknap College
Co-Authors David Dickensheets and Eric Moog, Montana State University

Devyani Ujla 11:15 AM
Boardroom II
Presentation Title The Role of Wnt1, Shh, and Fgf8 in the Development of Midbrain Dopamine Neurons
Research Mentor Mark Zervas
Research Institution Brown University
Home Institution University of Maryland, Baltimore County
Co-Authors Debra Ellisor and Mark Zervas, Brown University



Mohammad Usmani 12:00 PM*Bridgewater***Presentation Title** Pharmacological Characterization of Cloned and Native Transient Receptor Potential Melanostatin – Subtype 8 (TRPM8) Channels**Research Mentor** Eric Nisenbaum**Research Institution** Eli Lilly and Company**Home Institution** Fordham University**Co-Authors** Theron Wall and Eric Nisenbaum, Eli Lilly and Company

Michelle VanTieghem 3:30 PM*Brunswick C***Presentation Title** Relationship between Functional Connectivity and Executive Function in ADHD: a Resting-state fMRI Study**Research Mentor** Francisco X. Castellanos**Research Institution** New York University Sackler Institute**Home Institution** Dartmouth College**Co-Authors** Maarten Mennes, Natan Vega Potler and Michael Milham, New York University

José Vargas-Muñiz 5:15 PM*Brunswick B***Presentation Title** Mechanism of Interaction Between YY1, YAF2 and Polycomb Recruitment**Research Mentor** Micheal Atchison**Research Institution** University of Pennsylvania**Home Institution** UPR-Mayaguez**Co-Authors** Michael Atchison and Arindam Basu, University of Pennsylvania

Natalia Vázquez 11:45 AM*Hillsborough***Presentation Title** Comparison of Protein and Carbohydrate Associations with Fine Particulate Matter in Sub-Alpine Aerosols from Urban Environments in Boulder, Colorado**Research Mentor** Lupita Montoya**Research Institution** University of Colorado at Boulder**Home Institution** UPR-Mayaguez**Co-Authors** Lupita Montoya and Odessa Gomez, University of Colorado at Boulder

John Vu 5:15 PM*Boardroom II***Presentation Title** The Role of Transcription Factor c-Myb in Regulating Activity of DBA/2 Promoter**Research Mentor** Jerry Stitzel**Research Institution** University of Colorado at Boulder**Home Institution** Brown University**Co-Authors** Jerry Stitzel, University of Colorado at Boulder

Devon Wade 2:45 PM*Princeton***Presentation Title** 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?**Research Mentor** Dexter Voisin**Research Institution** University of Chicago**Home Institution** Louisiana State University-Baton Rouge**Co-Authors** Dexter Voisin, University of Chicago

Kirstan Walker 12:00 PM*Hillsborough***Presentation Title** Low Altitude UAV Flight Control Using a Miniature Optical Flow Sensor**Research Mentor** Dale Lawrence**Research Institution** University of Colorado at Boulder**Home Institution** University of Michigan-Ann Arbor**Co-Authors** Dale Lawrence, University of Colorado at Boulder

Luke Wandrey 2:45 PM*Brunswick C***Presentation Title** Extracellular Matrix Protease Expression of the Central Nervous System is Altered following Induced Chemoconvulsive Seizure**Research Mentor** Paulette McRae**Research Institution** University of Pennsylvania**Home Institution** Arizona State University**Co-Authors** Paulette McRae, Brenda E. Porter and Rashmi Risbud, The Children's Hospital of Philadelphia

Kathryn West 12:00 PM*Woodbridge***Presentation Title** Immunotherapy for Type 2 Diabetes**Research Mentor** Einar Sigurdsson**Research Institution** New York University Sackler Institute**Home Institution** Texas A&M University**Co-Authors** Einar Sigurdsson, New York University



Jessica Wielgus **5:30 PM**

Windsor

Presentation Title Philanthropy: Private Action and the Public Good

Research Mentor Rob Reich

Research Institution Stanford University

Home Institution DePaul University

Simone Williams **3:00 PM**

Brunswick B

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**

Princeton

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**

Trenton

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**

Bridgewater

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



POSTER PRESENTATIONS

BY POSTER BOARD NUMBER

BB= Basic Biosciences AB= Applied Biosciences EN= Engineering PE= Policy & Ethics
PS= Physical Sciences ES= Earth Sciences SS= Social Sciences HU=Humanities

#	Name	Category	Topic
1	Leighann Black	AB	Dopamine Regulates Cortical Glutamate Homeostasis Through Astrocytes
2	Christina Flansburg	AB	Characterization Of The Zic1-Expressing Premigratory Neural Crest Domain
3	Nicolette Brown	AB	Effects of Carbohydrate Functionalized Dendrimers on Galectin-3 Induced Cancer Cell Aggregation
4	Shawn Johnson	AB	Comparison of PML Bodies and Telomere Status Between T-ALL Cells Having Either Increased Telomerase Activation or ALT Mechanisms
5	Jocelyn Gipson	AB	Establishment of a Xenograft Mouse Model to Explore Enhanced Permeability Retention (EPR) in Tumors
6	John Campbell	AB	Identification of Cytokines that Stimulate Lung Cancer Cell Migration and Metastasis
7	Brandon McClary	AB	Testing AP-1 Inhibitor Compounds with Potential for use as Therapeutic Tumor Prevention Agents
8	Rose Bamfo	AB	Production of Biologically Active, Recombinant hTSSK1 and hTSSK2, the Candidate Targets for Male Contraceptive Drug Development
9	Olivia Martin	AB	Rapid qPCR Identification of Enteric Bacteria in Clinical Studies
10	Korine Duval	AB	Relative Importance of Internal Prediction and Sensory Feedback when the Brain Estimates Hand Position
11	Elisia Clark	AB	Classification of Human Brain Activity During Navigation Using Multi-Voxel Pattern Analysis
12	Jasmine Azure	AB	Gerbal Model of Transient Cerebral Ischemia: Effects of Occlusion Intervals on Behavior
13	Lindsey Myers	AB	Mitochondrial Dysfunction in Skeletal Muscle Induced by High Fat Diet through Permeability Transition Pore Formation
14	Dannielle Foster	AB	The Role of Senescence in Immortalized Cells Which Express an Oncogenic Ras Gene
15	Mackenzie Martin	AB	The Effects of Serine Palmitoyl Transferase Inhibitors (SPT) on Lipid Raft Sphingolipid Ceramides and Insulin Signaling
16	Eva Hoops	AB	Microbial Source Tracking on The Little Big Horn River
17	Cianna Edquillane	AB	Molecular and Cellular Mechanisms Regulating Wound Healing
18	Christine Daniels	AB	Crosstalk between the BRCA2 and APC/Beta-catenin Pathways in Mammary Stem Cells and Breast Cancer
19	Rafael González	AB	Reduced Model of Action Potentials of Embryonic Stem Cell-Derived Cardiac Cells
20	Kelechi Ndukwe	AB	MAG and Myelin Induce Schwann Cell Death
21	Raul Martinez	AB	Acute Changes in Expression of Signaling Proteins Following Early-life Seizures
22	Abigail De La Pena	AB	Does Overproduction of Red Blood Cells Lead to Decreased Oxygen in the Brain Due to Stalled Flow in Capillaries?
23	Janice Nieves	AB	Bcrp1 and Proliferation of cSP Cells
24	Nadyan Vargas	AB	Race and Ethnic Variation in Skin Toxicity in Breast Cancer Patients Receiving Radiation Treatment
25	Jessica Duran	AB	Identification of Variant NUT Fusion Partner Genes in NUT Midline Carcinoma
26	James Salazar	AB	Computational Docking Studies of Antibody-Antigen Complexes
27	Morgan Brophy	AB	Impact of a Cortical Microvascular Hemorrhage on Neural Health and Astrocyte Activation in Nearby Tissue
28	Ghansham Ramkhellawan	AB	Investigating Cellular Mechanical Properties in Relation to Lineage Potential for Stem Cell Therapy



29	Debra Ragland	AB	The Effect of Single Amino Acid Mutations on HIV-I Susceptibility to High Active Antiretroviral Therapy
30	Janae Hunter	AB	Ultrastructural Analysis of Mitochondria: Phenotypic Implications for Parkinson's, Barth Syndrome and Charcot-Marie-Tooth Disease
31	Nekeshia McInnis	AB	Effect of Parental Relationship in Childhood on Adulthood Emotional Health
32	Aleeza Abbasi	AB	Identification of Novel Serological Biomarkers for Autoimmune Liver Diseases
33	Danielle Toupou	AB	Engineering Antibodies Using A Bacterial Inner Membrane Display
34	Elliott Martinez	AB	Polymeric Gene Delivery
35	Valerie Latimore	AB	The Effects of Genetic Variation on Choline Metabolism and Suggested Daily Intake
36	Renee Cotton	AB	Effects of Pyruvate Kinase Disruption on Tumor Growth in <i>C.elegans</i> and Its Relevance to Chemotherapy
37	Kyle Davis	AB	Synthesis of Gold Nanoparticles
38	Hiram Rodriguez	AB	Purification of the Transducible Transcription Factor TAT-PAX4 and Determination of its Biological Activity
39	Kendrick Henderson	AB	The Effect of Helicobacter Pylori on Raf Kinase Inhibitor Protein in Gastric Cancer Cells
40	Joseph Tillotson	AB	Effects of Radiation-Induced DNA Damage in Peripheral Lymphocytes of Breast Cancer Patients
41	Jarom Chung	AB	Symmetry of Division in Glioblastoma Stem Cells
42	Joelle Mbatchou	AB	Using Small Molecules in the Rho Pathway with FRET
43	Milinda Thompson	AB	Correlation of Pulmonary Endothelial Barrier Function Modulation with Adherens Junction Protein Association and SHP2 Activity
44	Mildred López-Piñero	AB	Quorum Sensing Dynamics in <i>Vibrio harveyi</i>
45	Jasmaine Williams	AB	Role of MK-1775, a Wee1 Inhibitor, in Potentiation to Chemotherapeutics
46	Harold Phillips	BB	Norepinephrine Depleted Mice Exhibit Repetitive Behavior Correlated with Orbitalfrontal-Striatal-Thalamocortical Pathway Dysfunction
47	Sherman Coleman	BB	Synthesis and Evaluation of 1-Deoxyglucose Esters as Organogelators
48	Phillip Kang	BB	Microevolutionary Principles of Cell Cytoskeleton Organization: Comparative Study of the Mitotic Spindle of <i>C. elegans</i>
49	Brandon Murray	BB	Distribution of Electrical Synapses in the TRN
50	Danielle Kinsey	BB	Molecular Characterization Of The Microbial Populations In Biofilms From Polyvinyl Chloride and Copper Plumbing Material In Reactors Simulating Premise Plumbing
51	Allison Gomez	BB	Characterization of Aberrant Leukomegenic Notch 1 Transcripts in T cell Leukemia
52	Virginia Li	BB	Analysis of the Cytokines Released by Phagocytes After the Uptake of Apoptotic Cells
53	Daniel Salahuddin	BB	Characterization of Murine Apolipoprotein-B48 Antibodies: Correlation of Protein Peptide Titers to Native Apolipoprotein Titers
54	Michelle Munyikwa	BB	Recruitment of the Oncoprotein v-ErbA to Aggresomes
55	Ashley Scott	BB	Regulation of Pancreatic Beta-Cell Mass by Amino Acids and Glucose in Zebrafish
56	Brittany Katz	BB	Measuring Fatty Acid Uptake In Primary Enterocytes
57	Charles Eke	BB	Bungarotoxin, Reporter to Studying GLUT4 Trafficking
58	Casey Doney	BB	Purification and Characterization of <i>Arthrobacter Globiformis</i> Amine Oxidase
59	Michael Kinsey	BB	Characterization of Lipid Production from Yellowstone National Park Green Algae Isolates in Response to Differing Environmental Conditions
60	Ashiya Buckels	BB	The Effect of Irx1 and Irx3 on Rat Aortic Smooth Muscle Cells
61	Ashley Spann	BB	Exploration of PTEN-Deficient Cell Sensitization to PARP Inhibitors via RNAi Screening
62	Xochina El Hilali	BB	Transcriptional Profiling of Lipid Nanoparticles to Uncover Potential Toxicities
63	Rama Yakubu	BB	Intravital Imaging. Evaluations of siRNA Delivery Platforms in Liver



64	James Chavre	BB	Quantification of Differential Urinary Proteins as Potential Biomarkers of Renal Development in Healthy Infants at Birth and at Seven Months
65	Mayrel Pérez	BB	A Modified Resident-intruder Assay for Determination of Aggressiveness in Mice
66	Brandon Nemieboka	BB	Development of Mechanism-Based Probe of Sirtuins
67	Rayna Narvaez	BB	Aspects of Fertility in Siberian Hamsters with Disrupted Circadian Rhythms
68	Steve Morgan	BB	Epigenetic Mechanism of CD4 Regulation in T-Lymphocytes
69	Carmen Taveras	BB	Rab-mediated Vesicle Trafficking during Epithelial Polarization
70	Olutobi Ajala	BB	Phenylketonuria: An Amino Acid Metabolic Disorder
71	Elizabeth Millings	BB	Investigating the Mechanism and Kinetics of 1,4-dihydroxy-2-naphthoyl-CoA Synthase (MenB) in Mycobacterium tuberculosis
72	Bilguujin Dorjsuren	BB	Identifying the EET Signaling Pathway in Regulating Haematopoietic Stem Cell Self-Renewal in Zebrafish
73	Kimeya Ghaderi	BB	Characterization of Histone Modification Throughout C. elegans Embryogenesis
74	Ronald Grider	BB	Characterization of Herpes Processivity Factors by X-Ray Crystallography
75	Emel Kasgarli	BB	Analysis of ZTF-8 Function in DNA Damage Repair and Its Interaction Partners in C. elegans
76	Grace Nauman	BB	Transcription Activation in S. Cerevisiae
77	Kelsey Taylor	BB	Retrograde Mitochondrial Motility in Neurons
78	Limary Garcia Gonzalez	BB	Characterization of the Ability of CRAMs and Oxysterols to Interact with OSBP Mutants and ORPs
79	Brandyce Coes	BB	Development of Tools to Study Bacterial Cell Wall Uptake for the Prevention of Inflammation Related to Asthma
80	Aaron Louie	BB	Mechanism of Cyclic di-GMP Repression of Motility in Pseudomonas aeruginosa
81	Holly Payne	BB	Assessment of Acetylcholine and GABA Cells after Methamphetamine-induced Cell Death in the Mouse Striatum
82	Ryan Santos	BB	Inhibition of STAT3 in Skeletal Muscle in (a Mouse Model of) Cancer Cachexia
83	Melissa Alvarado	BB	Characterization of microRNA-10b in Human Glioblastoma
84	Yi Cao	BB	The Role of Pheromone in Biofilm Formation in Candida albicans
85	Frances Morales	BB	Study on the Role of Polalpha-primase at Telomeres in Human Cells
86	Shellese Cannonier	BB	A Partial Defect in the Checkpoint Protein Hus1 Impairs Tumor Development in a Two-Step Skin Carcinogenesis Model
87	Armando Lopez Mercado	BB	Prosurvival Signaling of Hepatocyte Growth Factor in the Murine Airspace
88	Andres Gonzalez	BB	The Effects of Beta-Glucan Pretreatment on the LPS-Induced Cytokine Production in vitro
89	Jazmine Robertson	BB	Functional Characterization of Histone Binding Proteins
90	Douglas Chapski	BB	Cellular Response to Glutamine Metabolism Inhibition
91	Ulysses Toche	BB	The Role of FSP1-marked Fibroblast Cells in the Metastasis of 4T1 Cancer Cells
92	Brendalyn Quiah	BB	Possible Role Of Ceramide Kinase In Intracellular Membrane Trafficking
93	Richard Alexander	BB	Analysis of Factors involved in Transcription Initiation
94	Amy Baker	BB	Using Drosophila melanogaster as a Model for Imaging Axonal Growth in vivo: Investigating the Role of Microtubule Associated Proteins on Axon Guidance in Whole Embryos
95	Raul Caso	BB	Investigation of Kaposi's Sarcoma Herpesvirus C-Terminal LANA Binding Partners
96	Pamela De La Cruz	BB	Characterization of Single Stranded DNA Binding by Bacteriophage lambda Replication Initiator
97	Elizabeth Henderson	BB	Substrate Recognition of Histone H2B by DUBm
98	Fred Abban	BB	The Effects of Running on Experience on the Activation of New Neurons and Interneurons to Stress in the Dentate gyrus



99	Cesar Cardenas, Jr.	BB	Retinoid Modulation of BMP2 Signaling in Mesenchymal Stem Cells
100	Marisa Levy	BB	Alcohol: A Compensatory Mechanism for Stress and the Role of the Prefrontal Cortex
101	Lisa Coleman	BB	Characterization of Potential Targets of the mRNA Binding Protein FMRP
102	Filomene Morrison	BB	Effects of Sexual Experience on Neurogenesis in the Aging Brain
103	Olivia Nwankwo	BB	Investigation of Protein Acetylation using Semi-Synthesis
104	Sanchez Jarrett	BB	Probing The Inner Membrane: Analysis of In-vitro Essential Mycobacterial Proteins.
105	Lindsay Wilson	BB	Energetic Contributions to Multidrug Recognition
106	Holly Arnold	BB	Disulfide Bond Formation and Blood Coagulation in E. coli
107	Maria Correa	BB	Assessing Specificity and Physiologic Effects of Novel and Known Sirtuin Activating Compounds
108	Jordan Kennedy	EN	Rheological Characterization of Thermally Reversible Gels
109	Brittany Rhodes	EN	Use of TiO ₂ Nanotube Arrays in Dye-Sensitized Solar Cells
110	Adelita Russette	EN	Shape Memory Alloys: Processing, Characterization and Applications
111	Samantha Espinosa	EN	Carbon Materials from Chromonic Liquid Crystals and their Applications to Battery Electrodes
112	Joshua Muñoz	EN	Determining and Controlling the Cutting Mechanism of Single-Layer Graphene Sheets via Sonication
113	Ashley Alvarado	ES	Organic Protection Of Cowpeas Postharvest against Callosobruchus Maculatus using Shea Butter
114	Destiny Coleman	ES	Viral Hemorrhagic Septicemia in Fish: Monitoring Efforts in Lower Great Lakes of New York State
115	Alexis Brown	ES	Characterization of Staphylococcus aureus from Intense Marine Water and Sand Sampling
116	Djifa Kothor	HU	Ewé Consciousness Among Ghanaians and Togolese Migrants in North America
117	MaKendra Umstead	PS	Optimization of Hot Stage Microscopy and XRPD Methods for the Physicochemical Characterization of Drug Candidates
118	Michael McKenzie	PS	A Reductive Rearrangement of Hydroxy- and Aminocyclopropyl Imides
119	Robyn Burgin	PS	The chemistry and Analysis for FRAP (Fluorescence Recovery after Photobleaching)
120	Jesse Gallegos	PS	The Fringes, Centroids, and Traction of Cells
121	Candice Sherwood	PS	Structure-Property Relationship in HFA-Containing Polyamide Thin Film Composite Membranes
122	Meredith Tallbull	PS	Iron-Sulfate Material Synthesis, Characterization
123	Leopold Green	PS	Lanthanide Luminescence Synthesizing Yb ³⁺ /Ln ³⁺ Co-doped LaF ₃ Nano-crystals for Up-conversion Fluorescence
124	Itisha Jefferson	PS	The Potential Environmental Impact of Arsanilate and Arsacatin
125	Alexandra Herndon	PS	Going Green: Exploratory Synthesis of Novel Palladium Complexes Towards the Epoxidation of Olefins
126	Ashley Balentine	PS	Developing Novel Kinase Inhibitors to Target Oncogenic Kinases
127	Gabrielle Winston-McPherson	PS	Synthesis of Nantenine Derivatives as Potential 5-HT _{2A} Antagonists
128	Wallace Derricotte	PS	Effect of Translational Energy on the Sticking Probability of Methane on an Iridium Surface
129	Shamara Collins	PS	Nuclear Magnetic Resonance Studies of Fuel Cell Electrolyte Membranes
130	Danielle Hill	SS	Psychosocial Correlates of Adolescent Smoking Initiation Among a Statewide Sample of Middle and High School Students
131	Avis Atkins	SS	Longitudinal Effects of Family Functioning and Peer Delinquency on Adolescent Males Delinquency
132	Nancy Truong	SS	Longitudinal Effect of Family Type and Popularity on Adolescent Male Delinquency
133	Julia Mulligan	SS	Questioning "Findings": HIV/AIDS Mass Media Intervention Campaigns



134	Hien Nguyen	SS	Sex Differences in PKMZ Activity in the Rodent Hippocampus after Spatial Training in the Radial 8-arm Task
135	Philisha Santio	SS	Enhancing Breastfeeding: The Creation of Educational Materials for BlackFeet/Cree Mothers
136	Steve Arrieta	SS	In Their Own Words: AP Students Characterize their Role Models
137	Haydee Cruz	SS	A Comparison of Teacher Self-Perceptions and Observed Classroom Instruction
138	Rachel Nolan	SS	Embodiment in Social Categorization
139	Jenae Richardson	SS	Using Mindfulness Meditation to Minimize Choking under Pressure on an Arithmetic Task
140	Farzana Saleem	SS	The Relation Between SES and Children's Early Academic Skills
141	Bradley Carter	SS	Parental Influence on Mathematics Interest
142	Kaitlin Heffron	SS	Academic Year and Gender Differences on Adolescent Math Interest
143	Benjamin Brumley	SS	Behavioral Regulation and Children's Early Academic Skills
144	Irene Mbah	SS	Hemispheric Effects on Change Detection
145	Ilana Bergelson	SS	Competition for Neural Representation with Visual Objects
146	Natassia Rodriguez	SS	Made it to America, Now What? An Analysis of Why Educational Achievement Differs among Latino Subgroups in the U.S.
147	Angela Dixon	SS	Multiculturalism and the Impact of School Climate and Engagement on African Americans
148	Christin Gates	SS	Evaluating the Effects of False Incarceration Post Exoneration
149	Ana Sanchez-Rivera	SS	Exploring Implicit Measures of Racial Phenotypicity Bias
150	Carlyn Scott	SS	Temperamental and Neurophysiological Predictors of Anxious Behavior in Children
151	Eunice Mendoza	SS	Latinos' Generational Status and Self-Efficacy Mediated by Language Use in Adolescents
152	Matthew Ramirez	SS	Longitudinal Examination of the Neural Correlates Underlying Self-Regulation in the Face of a Reward
153	Hannah Barrett	SS	Comparing Racial and Ethnic Stereotypes of Women
154	Adrienne C. Bird	AB	The Correlation of Turbidity and Escherichia Coli on the Little Big Horn River
155	Brooke Stevenson	ES	Radon on the Apsaalooke (Crow) Reservation



STUDENT POSTER PRESENTATIONS

BY NAME

Fred Abban 98 9:45 – 10:45 AM

Presentation Title The Effects of Running on Experience on the Activation of New Neurons and Interneurons to Stress in the Dentate gyrus

Research Mentor Elizabeth Gould

Research Institution Princeton University

Home Institution Cornell University

Co-Authors Elizabeth Gould and Tim Schoenfeld, Princeton University

Aleeza Abbasi 32 9:45 – 10:45 AM

Presentation Title Identification of Novel Serological Biomarkers for Autoimmune Liver Diseases

Research Mentor Xuhang Li

Research Institution Johns Hopkins University

Home Institution University of Maryland, Baltimore County

Co-Authors Xuhang Li, Johns Hopkins University

Olutobi Ajala 70 9:45 – 10:45 AM

Presentation Title Phenylketonuria: An Amino Acid Metabolic Disorder

Research Mentor Stephanie Villarreal

Research Institution UNCF Merck Science Initiative

Home Institution College of Saint Elizabeth

Co-Authors Amal Mansour, University of Medicine and Dentistry of New Jersey; Janet Berthel, College of St. Elizabeth

Richard Alexander 93 8:45 – 9:45 AM

Presentation Title Analysis of Factors involved in Transcription Initiation

Research Mentor Steve Buratowski

Research Institution Harvard University, Division of Medical Sciences

Home Institution University of Colorado at Boulder

Co-Authors Taesoo Kim and Stephen Buratowski, Harvard University Div. of Medical Sciences

Ashley Alvarado 113 8:45 – 9:45 AM

Presentation Title Organic Protection Of Cowpeas Postharvest against *Callosobruchus Maculatus* using Shea Butter

Research Mentor Florence Dunkel

Research Institution Montana State University -Bozeman

Home Institution Fort Belknap College

Co-Authors Florence Dunkel and Keirba Coulibaly, Montana State University

Melissa Alvarado 83 8:45 – 9:45 AM

Presentation Title Characterization of microRNA-10b in Human Glioblastoma

Research Mentor Roger Abounader

Research Institution University of Virginia School of Medicine

Home Institution UPR-Mayaguez

Co-Authors Roger Abounader and Fadila Guessous, University of Virginia School of Medicine

Holly Arnold 106 9:45 – 10:45 AM

Presentation Title Disulfide Bond Formation and Blood Coagulation in *E. coli*

Research Mentor Jonathan Beckwith

Research Institution Harvard University, Division of Medical Sciences

Home Institution University of Colorado at Boulder

Co-Authors Jessica Blazyk, Dana Boyd and Jon Beckwith, Harvard University Div. of Medical Sciences

Steve Arrieta 136 9:45 – 10:45 AM

Presentation Title In Their Own Words: AP Students Characterize their Role Models

Research Mentor Carolyn Callahan

Research Institution University of Virginia School of Education

Home Institution Montclair State University

Co-Authors Carolyn Callahan, University of Virginia; Haydee Cruz, Arizona State University



Avis Atkins 131 8:45 – 9:45 AM

Presentation Title Longitudinal Effects of Family Functioning and Peer Delinquency on Adolescent Males Delinquency

Research Mentor Patrick Tolan

Research Institution University of Virginia School of Education

Home Institution CSU Long Beach

Co-Authors Patrick Tolan, Angela Henneberger and Myles Durkee, University of Virginia

Jasmine Azure 12 9:45 – 10:45 AM

Presentation Title Gerbal Model of Transient Cerebral Ischemia: Effects of Occlusion Intervals on Behavior

Research Mentor Mike Babcock

Research Institution Montana State University -Bozeman

Home Institution Fort Peck Community College

Co-Authors Alex M. Babcock, Cameron Robinson and John Old Elk, Montana State University

Amy Baker 94 9:45 – 10:45 AM

Presentation Title Using Drosophila melanogaster as a Model for Imaging Axonal Growth in vivo: Investigating the Role of Microtubule Associated Proteins on Axon Guidance in Whole Embryos

Research Mentor David Van Vactor

Research Institution Harvard University, Division of Medical Sciences

Home Institution Tufts University Medford

Co-Authors David Van Vactor and Jennifer Long Baughman, Harvard University Div. of Medical Sciences

Ashley Balentine 126 9:45 – 10:45 AM

Presentation Title Developing Novel Kinase Inhibitors to Target Oncogenic Kinases

Research Mentor Nathanael Gray

Research Institution Harvard University, Division of Medical Sciences

Home Institution Hampton University

Co-Authors Xianming Deng and Nathanael Gray, Dana Farber Cancer Institute

Rose Bamfo 8 9:45 – 10:45 AM

Presentation Title Production of Biologically Active, Recombinant hTSSK1 and hTSSK2, the Candidate Targets for Male Contraceptive Drug Development

Research Mentor John Herr

Research Institution University of Virginia School of Medicine

Home Institution Harvard University

Co-Authors Jagathpala Shetty and John Herr, University of Virginia School of Medicine

Hannah Barrett 153 8:45 – 9:45 AM

Presentation Title Comparing Racial and Ethnic Stereotypes of Women

Research Mentor Keith Maddox

Research Institution Tufts University Medford

Home Institution UMass Amherst

Co-Authors Karina Villareal Medved, Ana Ivelisse Sanchez-Rivera and Kristin N. Dukes, Tufts University

Ilana Bergelson 145 8:45 – 9:45 AM

Presentation Title Competition for Neural Representation with Visual Objects

Research Mentor George Alvarez

Research Institution Harvard University

Home Institution University of Chicago

Co-Authors George Alvarez and Michael Cohen, Harvard University Arts and Sciences

Adrenne C. Bird 154 9:45 – 10:45 AM

Presentation Title The Correlation of Turbidity and Escherichia Coli 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

Leighann Black 1 8:45 – 9:45 AM

Presentation Title Dopamine Regulates Cortical Glutamate Homeostasis Through Astrocytes

Research Mentor Ariel Deutch

Research Institution Vanderbilt University

Home Institution Claflin University

Co-Authors Ariel Deutch and Peter Vollbrecht, Vanderbilt University



Morgan Brophy 27 8:45 – 9:45 AM
Presentation Title Impact of a Cortical Microvascular Hemorrhage on Neural Health and Astrocyte Activation in Nearby Tissue
Research Mentor Chris Schaffer
Research Institution Cornell University
Home Institution Stevens Institute of Technology
Co-Authors Nathan Rosidi and Chris Schaffer, Cornell University

Alexis Brown 115 8:45 – 9:45 AM
Presentation Title Characterization of Staphylococcus aureus from Intense Marine Water and Sand Sampling
Research Mentor Weiyong Gu
Research Institution University of Miami
Home Institution University of Maryland, Baltimore County
Co-Authors Weiyong Gu, Helena Solo-Gabriel and Lisa Plano, University of Miami

Nicolette Brown 3 8:45 – 9:45 AM
Presentation Title Effects of Carbohydrate Functionalized Dendrimers on Galectin-3 Induced Cancer Cell Aggregation
Research Mentor Mary Cloninger
Research Institution Montana State University -Bozeman
Home Institution Montana State University -Bozeman
Co-Authors Mary Cloninger, Michelle Aries and Candace Goodman, Montana State University

Benjamin Brumley 143 8:45 – 9:45 AM
Presentation Title Behavioral Regulation and Children's Early Academic Skills
Research Mentor Amanda Wiliford
Research Institution University of Virginia School of Education
Home Institution University of North Carolina Chapel Hill
Co-Authors Karyn Hartz, Amanda Williford and Jason Downer, University of Virginia

Ashiya Buckels 60 9:45 – 10:45 AM
Presentation Title The Effect of Irx1 and Irx3 on Rat Aortic Smooth Muscle Cells
Research Institution UNCF Merck Science Initiative
Home Institution Washington University in St. Louis
Co-Authors Mark Brice and Leonard Anderson, Morehouse School of Medicine

Robyn Burgin 119 8:45 – 9:45 AM
Presentation Title The chemistry and Analysis for FRAP (Fluorescence Recovery after Photobleaching)
Research Mentor Adam Hammond
Research Institution University of Chicago
Home Institution Chicago State University
Co-Authors Adam Hammond and Kenneth Barnes, University of Chicago

John Campbell 6 9:45 – 10:45 AM
Presentation Title Identification of Cytokines that Stimulate Lung Cancer Cell Migration and Metastasis
Research Mentor Carla Kim
Research Institution Harvard University, Division of Medical Sciences
Home Institution North Carolina State University
Co-Authors Carla B. Kim and Kerstin W. Sinkevicius, Harvard University Div. of Medical Sciences

Shellese Cannonier 86 9:45 – 10:45 AM
Presentation Title A Partial Defect in the Checkpoint Protein Hus1 Impairs Tumor Development in a Two-Step Skin Carcinogenesis Model
Research Mentor Robert Weiss
Research Institution Cornell University
Home Institution University of the Virgin Islands
Co-Authors Robert Weiss, Cornell University

Yi Cao 84 9:45 – 10:45 AM
Presentation Title The Role of Pheromone in Biofilm Formation in Candida albicans
Research Mentor Richard Bennett
Research Institution Brown University
Home Institution Providence College
Co-Authors Richard Bennett and Kevin Alby, Brown University

Cesar Cardenas, Jr. 99 8:45 – 9:45 AM
Presentation Title Retinoid Modulation of BMP2 Signaling in Mesenchymal Stem Cells
Research Mentor Jorge Plutzky
Research Institution Harvard University, Division of Medical Sciences
Home Institution Texas A&M International University
Co-Authors Shriram Nallamshetty, Florian Kiefer and Jorge Plutzky, Brigham and Women's Hospital



Bradley Carter **141** **8:45 – 9:45 AM**
Presentation Title Parental Influence on Mathematics Interest
Research Mentor Mary Deacon
Research Institution University of Virginia School of Education
Home Institution James Madison University
Co-Authors Mary Deacon, University of Virginia

Raul Caso **95** **8:45 – 9:45 AM**
Presentation Title Investigation of Kaposi's Sarcoma Herpesvirus C-Terminal LANA Binding Partners
Research Mentor Kenneth Kaye
Research Institution Harvard University, Division of Medical Sciences
Home Institution University of Miami
Co-Authors Chantal Beauchemin and Kenneth Kaye, Harvard University Div. of Medical Sciences

Douglas Chapski **90** **9:45 – 10:45 AM**
Presentation Title Cellular Response to Glutamine Metabolism Inhibition
Research Mentor John Blenis
Research Institution Harvard University, Division of Medical Sciences
Home Institution Tulane University
Co-Authors Alfredo Csibi and John Blenis, Harvard University Div. of Medical Sciences

James Chavre **64** **9:45 – 10:45 AM**
Presentation Title Quantification of Differential Urinary Proteins as Potential Biomarkers of Renal Development in Healthy Infants at Birth and at Seven Months
Research Mentor Dennis Templeton
Research Institution University of Virginia School of Education
Home Institution Columbia University
Co-Authors Dennis Templeton and Jennifer Charlton, University of Virginia School of Medicine

Jarom Chung **41** **8:45 – 9:45 AM**
Presentation Title Symmetry of Division in Glioblastoma Stem Cells
Research Mentor Rosalind Segal
Research Institution Harvard University, Division of Medical Sciences
Home Institution Brigham Young University
Co-Authors Rosalind Segal, Mariella Gruber-Olipitz and Sukriti K. Dabral, Harvard University Div. of Medical Sciences

Elisia Clark **11** **8:45 – 9:45 AM**
Presentation Title Classification of Human Brain Activity During Navigation Using Multi-Voxel Pattern Analysis
Research Mentor Randy Buckner
Research Institution Harvard University
Home Institution University of Maryland, Baltimore County
Co-Authors Randy Buckner, Fenna Krienen and Angela Castellanos, Harvard University Arts and Sciences

Brandyce Coes **79** **8:45 – 9:45 AM**
Presentation Title Development of Tools to Study Bacterial Cell Wall Uptake for the Prevention of Inflammation Related to Asthma
Research Mentor Catherine Grimes
Research Institution Harvard University
Home Institution Claflin University
Co-Authors Catherine Grimes and Erin O'Shea, Harvard University Arts and Sciences

Destiny Coleman **114** **9:45 – 10:45 AM**
Presentation Title Viral Hemorrhagic Septicemia in Fish: Monitoring Efforts in Lower Great Lakes of New York State
Research Mentor Paul Bowser
Research Institution Cornell University
Home Institution University of Maryland, College Park
Co-Authors Paul R. Bowser and Emily R. Cornwell, Cornell University

Lisa Coleman **101** **8:45 – 9:45 AM**
Presentation Title Characterization of Potential Targets of the mRNA Binding Protein FMRP
Research Mentor Jason Dicterberg
Research Institution Hunter College
Home Institution Otterbein College
Co-Authors Charlotte D'Hulst, Marcus Ng and Jason B. Dicterberg, Hunter College

Sherman Coleman **47** **8:45 – 9:45 AM**
Presentation Title Synthesis and Evaluation of 1-Deoxyglucose Esters as Organogelators
Research Mentor Judy Gorski
Research Institution UNCF Merck Science Initiative
Home Institution Dillard University
Co-Authors Sherwin Cheuk, Guijin Wang and Hao Yang, University of New Orleans



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 Edquillane 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 Jeffery 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

Dannielle 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



Jesse Gallegos 120 9:45 – 10:45 AM
Presentation Title The Fringes, Centroids, and Traction of Cells
Research Mentor Janet Blume
Research Institution Brown University
Home Institution University of Southern California
Co-Authors Christian Franck and Janet Blume, Brown University

Limary Garcia Gonzalez 78 9:45 – 10:45 AM
Presentation Title Characterization of the Ability of CRAMs and Oxysterols to Interact with OSBP Mutants and ORPs
Research Mentor Matthew Shair
Research Institution Harvard University
Home Institution UPR-Rio Piedras
Co-Authors Matthew Shair, Harvard University Arts and Sciences

Christin Gates 148 9:45 – 10:45 AM
Presentation Title Evaluating the Effects of False Incarceration Post Exoneration
Research Mentor Ronald Sullivan
Research Institution Harvard University
Home Institution University of Mississippi
Co-Authors Ronald S. Sullivan Jr. and Dehlia Umunna, Harvard University Arts and Sciences

Kimeya Ghaderi 73 8:45 – 9:45 AM
Presentation Title Characterization of Histone Modification Throughout C. elegans Embryogenesis
Research Mentor Susan Mango
Research Institution Harvard University
Home Institution University of Maryland, Baltimore County
Co-Authors Susan E. Mango and Megan Senchuk, Harvard University Arts and Sciences

Jocelyn Gipson 5 8:45 – 9:45 AM
Presentation Title Establishment of a Xenograft Mouse Model to Explore Enhanced Permeability Retention (EPR) in Tumors
Research Mentor Joseph Davide
Research Institution UNCF Merck Science Initiative
Home Institution University of Alabama-Birmingham
Co-Authors Andrea Matter and Joseph Davide, UNCF-Merck Science Initiative

Allison Gomez 51 8:45 – 9:45 AM
Presentation Title Characterization of Aberrant Leukomegenic Notch 1 Transcripts in T cell Leukemia
Research Mentor Jon Aster
Research Institution Harvard University, Division of Medical Sciences
Home Institution UC San Diego
Co-Authors Jon Aster and Todd Ashworth, Harvard University Div. of Medical Sciences

Andres Gonzalez 88 9:45 – 10:45 AM
Presentation Title The Effects of Beta-Glucan Pretreatment on the LPS-Induced Cytokine Production in vitro
Research Mentor Jonathan Reichner
Research Institution Brown University
Home Institution Miami Dade College
Co-Authors Jonathan S. Reichner, Courtnei T. Newsome and Estefany Flores, Brown University

Rafael González 19 8:45 – 9:45 AM
Presentation Title Reduced Model of Action Potentials of Embryonic Stem Cell-Derived Cardiac Cells
Research Mentor Leslie Tung
Research Institution Johns Hopkins University
Home Institution UPR-Mayaguez
Co-Authors Leslie Tung, Johns Hopkins University

Leopold Green 123 8:45 – 9:45 AM
Presentation Title Lanthanide Luminescence Synthesizing Yb3+/Ln3+ Co-doped LaF3+ Nano-crystals for Up-conversion Fluorescence
Research Mentor Lijun Wang
Research Institution UNCF Merck Science Initiative
Home Institution Hampton University
Co-Authors Kesete Ghebreyessus and Uwe Hommerich, Hampton University

Ronald Grider 74 9:45 – 10:45 AM
Presentation Title Characterization of Herpes Processivity Factors by X-Ray Crystallography
Research Mentor James Hogle
Research Institution Harvard University, Division of Medical Sciences
Home Institution Illinois State University
Co-Authors James Hogle and Molly Coseno, Harvard University Div. of Medical Sciences



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

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 Delahanty,
University of Maryland, Baltimore County

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 and Arsacetin
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 Depinho and Jian Hu, Harvard
University Div. of Medical Sciences



Phillip Kang 48 9:45 – 10:45 AM

Presentation Title Microevolutionary Principles of Cell Cytoskeleton Organization: Comparative Study of the Mitotic Spindle of *C. elegans*

Research Mentor Daniel Needleman

Research Institution Harvard University

Home Institution University of Maryland, Baltimore County

Co-Authors Daniel Needleman and Reza Farhadifar, Harvard University Arts and Sciences

Emel Kasgarli 75 8:45 – 9:45 AM

Presentation Title Analysis of ZTF-8 Function in DNA Damage Repair and Its Interaction Partners in *C. elegans*

Research Mentor Monica Colaiacovo

Research Institution Harvard University, Division of Medical Sciences

Home Institution UCLA

Co-Authors Monica Colaiacovo and Hyun-Min Kim, Harvard University Div. of Medical Sciences

Brittany Katz 56 9:45 – 10:45 AM

Presentation Title Measuring Fatty Acid Uptake In Primary Enterocytes

Research Mentor Andrea Peier

Research Institution UNCF Merck Science Initiative

Home Institution Dillard University

Co-Authors Andrea Peier, Karni Schlessinger and Kunal Desai, UNCF-Merck Science Initiative

Jordan Kennedy 108 9:45 – 10:45 AM

Presentation Title Rheological Characterization of Thermally Reversible Gels

Research Mentor Jennifer Brown

Research Institution Montana State University -Bozeman

Home Institution Montana State University -Bozeman

Co-Authors Jennifer Brown and Sarah Codd, Montana State University

Danielle Kinsey 50 9:45 – 10:45 AM

Presentation Title Molecular Characterization Of The Microbial Populations In Biofilms From Polyvinyl Chloride and Copper Plumbing Material In Reactors Simulating Premise Plumbing

Research Mentor Gem Encarnacion

Research Institution Montana State University -Bozeman

Home Institution Fort Belknap College

Co-Authors Gem Encarnacion, Montana State University

Michael Kinsey 59 8:45 – 9:45 AM

Presentation Title Characterization of Lipid Production from Yellowstone National Park Green Algae Isolates in Response to Differing Environmental Conditions

Research Mentor Jacob Valenzuela

Research Institution Montana State University -Bozeman

Home Institution Fort Belknap College

Co-Authors Jacob Valenzuela, Montana State University

Djifa Kothor 116 9:45 – 10:45 AM

Presentation Title Ewé Consciousness Among Ghanaians and Togolese Migrants in North America

Research Mentor Nenaji Jackson

Research Institution Howard University

Home Institution St. Lawrence University

Co-Authors Nenaji Jackson, Howard University

Valerie Latimore 35 8:45 – 9:45 AM

Presentation Title The Effects of Genetic Variation on Choline Metabolism and Suggested Daily Intake

Research Mentor Marie Caudill

Research Institution Cornell University

Home Institution Scripps College

Co-Authors Marie Caudill, Cornell University

Marisa Levy 100 9:45 – 10:45 AM

Presentation Title Alcohol: A Compensatory Mechanism for Stress and the Role of the Prefrontal Cortex

Research Mentor Victoria Luine

Research Institution Hunter College

Home Institution SUNY Binghamton

Co-Authors Victoria Luine and Juan Gomez, Hunter College; Maya Frankfurt, CUNY Sophie Davis School of Medicine

Virginia Li 52 9:45 – 10:45 AM

Presentation Title Analysis of the Cytokines Released by Phagocytes After the Uptake of Apoptotic Cells

Research Mentor Xiao Jing Ma

Research Institution Weill Cornell Graduate School

Home Institution Brooklyn College CUNY

Co-Authors Xiao Jing Ma and Ha Jeong Kim, Weill Cornell Graduate School

Armando Lopez Mercado 87 8:45 – 9:45 AM

Presentation Title Prosurvival Signaling of Hepatocyte Growth Factor in the Murine Airspace

Research Mentor Enid Neptune

Research Institution Johns Hopkins University

Home Institution UPR-Rio Piedras

Co-Authors Enid Neptune, Kaori Misono and Shana Metzger, Johns Hopkins University



Mildred López-Piñeiro 44 9:45 – 10:45 AM**Presentation Title** Quorum Sensing Dynamics in *Vibrio harveyi***Research Mentor** Howard Stone**Research Institution** Princeton University**Home Institution** UPR-Rio Piedras**Co-Authors** Howard Stone and Jiandi Wan, Princeton University

Aaron Louie 80 9:45 – 10:45 AM**Presentation Title** Mechanism of Cyclic di-GMP Repression of Motility in *Pseudomonas aeruginosa***Research Mentor** Stephen Lory**Research Institution** Harvard University, Division of Medical Sciences**Home Institution** UC San Diego**Co-Authors** Stephen Lory, Harvard University Div. of Medical Sciences

Mackenzie Martin 15 8:45 – 9:45 AM**Presentation Title** The Effects of Serine Palmitoyl Transferase Inhibitors (SPT) on Lipid Raft Sphingolipid Ceramides and Insulin Signaling**Research Mentor** Joseph T. Brozinick**Research Institution** Eli Lilly and Company**Home Institution** Morehouse College**Co-Authors** Joseph T. Brozinick, Eric Hawkins, and Mark Wade, Eli Lilly and Company

Olivia Martin 9 8:45 – 9:45 AM**Presentation Title** Rapid qPCR Identification of Enteric Bacteria in Clinical Studies**Research Mentor** Noel Goddard**Research Institution** Hunter College**Home Institution** University of Maryland, Eastern Shore**Co-Authors** Noel Goddard, Hunter College

Elliott Martinez 34 9:45 – 10:45 AM**Presentation Title** Polymeric Gene Delivery**Research Mentor** Jordan Green**Research Institution** Johns Hopkins University**Home Institution** Saint Edward's University**Co-Authors** Jordan Green, Johns Hopkins University

Raul Martinez 21 8:45 – 9:45 AM**Presentation Title** Acute Changes in Expression of Signaling Proteins Following Early-life Seizures**Research Mentor** Frances Jensen**Research Institution** Harvard University, Division of Medical Sciences**Home Institution** Stonehill College**Co-Authors** Jocelyn Lippman Bell and Frances Jensen, Harvard University Div. of Medical Sciences

Irene Mbah 144 9:45 – 10:45 AM**Presentation Title** Hemispheric Effects on Change Detection**Research Mentor** George Alvarez**Research Institution** Harvard University**Home Institution** Rice University**Co-Authors** George Alvarez and Daryl Foungnie, Harvard University Arts and Sciences

Joelle Mbatchou 42 9:45 – 10:45 AM**Presentation Title** Using Small Molecules in the Rho Pathway with FRET**Research Mentor** Ulrike Eggert**Research Institution** Harvard University, Division of Medical Sciences**Home Institution** DePaul University**Co-Authors** Ulrike Eggert and Adam Castareno, Harvard University Div. of Medical Sciences

Brandon McClary 7 8:45 – 9:45 AM**Presentation Title** Testing AP-1 Inhibitor Compounds with Potential for use as Therapeutic Tumor Prevention Agents**Research Mentor** Rene Bartz**Research Institution** UNCF Merck Science Initiative**Home Institution** University of Maryland, Baltimore County**Co-Authors** Nancy Colburn and Moon-IL Kang, NIH/NCI

Nekeshia McInnis 31 8:45 – 9:45 AM**Presentation Title** Effect of Parental Relationship in Childhood on Adulthood Emotional Health**Research Mentor** Thomas LaVeist**Research Institution** Johns Hopkins University**Home Institution** University of Florida**Co-Authors** Ruth Fesahazion, Roland Thorpe and Thomas LaVeist, Johns Hopkins University



Michael McKenzie **118** **9:45 – 10:45 AM**
Presentation Title A Reductive Rearrangement of Hydroxy- and Aminocyclopropyl Imides
Research Mentor Joey Methot
Research Institution UNCF Merck Science Initiative
Home Institution University of Wisconsin Madison
Co-Authors Joey Methot and Theresa A. Duncan, UNCF-Merck Science Initiative

Eunice Mendoza **151** **8:45 – 9:45 AM**
Presentation Title Latinos' Generational Status and Self-Efficacy Mediated by Language Use in Adolescents
Research Mentor Cynthia Coll
Research Institution Brown University
Home Institution Rochester Institute of Technology
Co-Authors Cynthia García Coll and Flannery Patton, Brown University

Elizabeth Millings **71** **8:45 – 9:45 AM**
Presentation Title Investigating the Mechanism and Kinetics of 1,4-dihydroxy-2-naphthoyl-CoA Synthase (MenB) in Mycobacterium tuberculosis
Research Mentor Robert Tynebor
Research Institution UNCF Merck Science Initiative
Home Institution SUNY Stony Brook
Co-Authors Peter Tonge and Nina Liu, State University of New York at Stony Brook

Frances Morales **85** **8:45 – 9:45 AM**
Presentation Title Study on the Role of Polalpha-primase at Telomeres in Human Cells
Research Mentor Diego Loayza
Research Institution Hunter College
Home Institution UPR-Humacao
Co-Authors Diego Loayza and Raffaella Diotti, Hunter College

Steve Morgan **68** **9:45 – 10:45 AM**
Presentation Title Epigenetic Mechanism of CD4 Regulation in T-Lymphocytes
Research Mentor Nathaniel Elsen
Research Institution UNCF Merck Science Initiative
Home Institution Xavier University of Louisiana
Co-Authors Mimi Wan, Tian Chi and Barbara Hirschman, Yale University

Filomene Morrison **102** **9:45 – 10:45 AM**
Presentation Title Effects of Sexual Experience on Neurogenesis in the Aging Brain
Research Mentor Elizabeth Gould
Research Institution Princeton University
Home Institution UC Berkeley
Co-Authors Elizabeth Gould and Erica Glasper, Princeton University

Julia Mulligan **133** **8:45 – 9:45 AM**
Presentation Title Questioning "Findings": HIV/AIDS Mass Media Intervention Campaigns
Research Mentor Terence McDonnell
Research Institution Vanderbilt University
Home Institution Beloit College
Co-Authors Terence McDonnell, Vanderbilt University

Joshua Muñoz **112** **9:45 – 10:45 AM**
Presentation Title Determining and Controlling the Cutting Mechanism of Single-Layer Graphene Sheets via Sonication
Research Mentor Kyung-Suk Kim
Research Institution Brown University
Home Institution UC San Diego
Co-Authors Huck Beng Chew and Kyung-Suk Kim, Brown University

Michelle Munyikwa **54** **9:45 – 10:45 AM**
Presentation Title Recruitment of the Oncoprotein v-ErbA to Aggresomes
Research Mentor Lizabeth Allison
Research Institution UNCF Merck Science Initiative
Home Institution College of William & Mary
Co-Authors Lizabeth Allison, College of William and Mary; Crystal Connor and Alicia Simmons, Hampton University

Brandon Murray **49** **8:45 – 9:45 AM**
Presentation Title Distribution of Electrical Synapses in the TRN
Research Mentor Barry Connors
Research Institution Brown University
Home Institution Morehouse College
Co-Authors Timothy Zolnik, Brown University



Lindsey Myers **13** **8:45 – 9:45 AM****Presentation Title** Mitochondrial Dysfunction in Skeletal Muscle Induced by High Fat Diet through Permeability Transition Pore Formation**Research Mentor** Zhen Yan**Research Institution** University of Virginia School of Medicine**Home Institution** University of Florida**Co-Authors** Zhen Yan and Yasir Akhtar, University of Virginia School of Medicine

Rayna Narvaez **67** **8:45 – 9:45 AM****Presentation Title** Aspects of Fertility in Siberian Hamsters with Disrupted Circadian Rhythms**Research Mentor** Brian Prendergast**Research Institution** University of Chicago**Home Institution** Augustana College**Co-Authors** Brian Prendergast, University of Chicago

Grace Nauman **76** **9:45 – 10:45 AM****Presentation Title** Transcription Activation in *S. Cerevisiae***Research Mentor** Fred Winston**Research Institution** Harvard University, Division of Medical Sciences**Home Institution** Dartmouth College**Co-Authors** Fred Winston, Harvard University Div. of Medical Sciences

Kelechi Ndukwe **20** **9:45 – 10:45 AM****Presentation Title** MAG and Myelin Induce Schwann Cell Death**Research Mentor** Marie Filbin**Research Institution** Hunter College**Home Institution** Lehman College, CUNY**Co-Authors** Marie Filbin and Nagarathnamma Chaudhry, Hunter College

Brandon Nemieboka **66** **9:45 – 10:45 AM****Presentation Title** Development of Mechanism-Based Probe of Sirtuins**Research Mentor** Anthony Sauve**Research Institution** Weill Cornell Graduate School**Home Institution** University of Maryland, Baltimore County**Co-Authors** Anthony Sauve and Jessica Falco, Weill Cornell Graduate School

Hien Nguyen **134** **9:45 – 10:45 AM****Presentation Title** Sex Differences in PKMZ Activity in the Rodent Hippocampus after Spatial Training in the Radial 8-arm Task**Research Mentor** Peter Serrano**Research Institution** Hunter College**Home Institution** Baylor University**Co-Authors** Peter Serrano and Veronica Sebastian, Hunter College

Janice Nieves **23** **8:45 – 9:45 AM****Presentation Title** Bcrp1 and Proliferation of cSP Cells**Research Mentor** Ronglih Liao**Research Institution** Harvard University, Division of Medical Sciences**Home Institution** UPR-Cayey**Co-Authors** Kostianna Sereti and Ronglih Liao, Harvard University Div. of Medical Sciences

Rachel Nolan **138** **9:45 – 10:45 AM****Presentation Title** Embodiment in Social Categorization**Research Mentor** Nalini Ambady**Research Institution** Tufts University Medford**Home Institution** Vanderbilt University**Co-Authors** Nalini Ambady and Michael Slepian, Tufts University

Olivia Nwankwo **103** **8:45 – 9:45 AM****Presentation Title** Investigation of Protein Acetylation using Semi-Synthesis**Research Mentor** Phil Cole**Research Institution** Johns Hopkins University**Home Institution** University of Maryland, Baltimore County**Co-Authors** Phil Cole and Kannan Karukurichi, Johns Hopkins University

Holly Payne **81** **8:45 – 9:45 AM****Presentation Title** Assessment of Acetylcholine and GABA Cells after Methamphetamine-induced Cell Death in the Mouse Striatum**Research Mentor** Jesus Angulop**Research Institution** Hunter College**Home Institution** University of Missouri-Columbia**Co-Authors** Ingrid Tulloch and Jesus Angulo, Hunter College



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 Orbitofrontal-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 Univesity
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

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

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

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

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

Ana Sanchez-Rivera **149** **8:45 – 9:45 AM**
Presentation Title Exploring Implicit Measures of Racial Phenotypicity 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

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

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 Chaminade University of Honolulu
Co-Authors Teresa A. Zimmers and Andrea Bonetto, University of Miami

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

Carlyn 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 Samford 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 Metastasis 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

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
Research Institution UNCF Merck Science Initiative
Home Institution North Carolina Central University
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
Research Institution University of Miami
Home Institution UPR-Mayaguez
Co-Authors Jean Wright, University of Miami

Jasmine Williams **45** **8:45 – 9:45 AM**
Presentation Title Role of MK-1775, a Wee1 Inhibitor, in Potentiation to Chemotherapeutics
Research Mentor Stuart Shumway
Research Institution UNCF Merck Science Initiative
Home Institution University of Georgia
Co-Authors Stuart Shumway, UNCF-Merck Science Initiative

Lindsay Wilson **105** **8:45 – 9:45 AM**
Presentation Title Energetic Contributions to Multidrug Recognition
Research Mentor Herschel Wade
Research Institution Johns Hopkins University
Home Institution University of Maryland, Baltimore County
Co-Authors Sharrol Bachas, Drew Gunio and Herschel Wade, Johns Hopkins University

Gabrielle Winston-McPherson **127** **8:45 – 9:45 AM**
Presentation Title Synthesis of Nantenine Derivatives as Potential 5-HT_{2A} Antagonists
Research Mentor Wayne Harding
Research Institution Hunter College
Home Institution University of Arizona
Co-Authors Wayne Harding and Sandeep Chaudhary, Hunter College

Rama Yakubu **63** **8:45 – 9:45 AM**
Presentation Title Intravital Imaging, Evaluations of siRNA Delivery Platforms in Liver
Research Mentor Bruce Ng
Research Institution UNCF Merck Science Initiative
Home Institution Clarkson University
Co-Authors Bruce Ng, Kathleen Haskell and Joe Davide, UNCF-Merck Science Initiative



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.

Aidaris Jiminez Hernandez, PhD

BS, 2003, University of Puerto Rico - Mayaguez; PhD, 2008, University of Southern California

Ana Alcaraz, PhD

BS, 2003, Southwestern University; PhD, 2009, Emory University

April Savoy, PhD

BS, 2002, Xavier University of Louisiana; PhD, 2008, Purdue University

Betty Noel, PhD

BS, 2003, Brooklyn College-CUNY; PhD, 2009, SUNY-Stony Brook

Brian Landry, PhD

BS, 2002, Xavier University of Louisiana; PhD, 2009, Georgia Institute of Technology

Calpurnia Banyka Powell Roberts, PhD

BA, 2000, Emory University; PhD, 2008, University of North Carolina Chapel Hill

Candace Carroll, PhD

BS, 2005, Tougaloo College; PhD, 2009, University of Missouri-Columbia

Cesar Perez, PhD

BS, 1998, SUNY-New Paltz; PhD, 2008, New York University Sackler Institute

Chenere Ramsey, PhD

BS, 2004, Hampton University; PhD, 2010, University of Pennsylvania

Christopher Alabi, PhD

BS, 2004, New York University; PhD, 2009, California Institute of Technology

Christina Medina-Ramirez, PhD

BS, 2003, Saint Francis College; PhD, 2010, Albert Einstein College of Medicine of Yeshiva University

Courtnei T. Newsome, PhD

BS, 2004, Tougaloo College; PhD, 2010, Brown University

Darius Sanders, PhD

BS, 2002, Delaware State University; PhD, 2009, Virginia Polytechnic Institute and State University

Edimarlyn Gonzalez, PhD

BS, 2000, Queens College-CUNY; PhD, 2009, Hunter College-CUNY

Erica Williams, PhD

BA, 2002, New York University; PhD, 2010, Stanford University

Gabriela Gonzalez-Bonet, PhD

BS, 2003, University of Puerto Rico-Mayaguez; PhD, 2010, New York University Sackler Institute

Gaëlle Pierre, PhD

BA, 2003, Carnegie Mellon University; PhD, 2010, New York University

Gahodery Rodriguez, PhD

BA, 2000, University of Puerto Rico-Rio Piedras; PhD, 2008, Yale University

Gary Weickum, PhD

BS, 2004, University of Colorado at Boulder; PhD, 2009, University of Colorado at Boulder

Gladys Arzola-Colon, PhD

BA, 1999, University of Puerto Rico-Rio Piedras; PhD, 2009, Palo Alto University

Kenneth Gibbs, PhD

BS, 2005, University of Maryland, Baltimore County; PhD, 2010, Stanford University

Lindsey Marie Silva, PhD

BS, 2004, University of California-Irvine; PhD, 2010, Harvard University

Luis De la Torre Ubieta, PhD

BS, 2003, UPR-Rio Piedras; PhD, 2010, Harvard University

Paloma Vargas, PhD

BS, 2005, University of Texas at El Paso; PhD, 2009, New York University Sackler Institute

Scharri Ezell, PhD

BS, 2005, Tougaloo College; PhD, 2010, University of Alabama-Birmingham

Tiffany Joseph, PhD

BA, 2004, Brown University; PhD, 2010, University of Michigan-Ann Arbor

Yolanda Covington-Ward, PhD

BA, 2001, Brown University; PhD, 2009, University of Michigan

MD/PHD

David E. Myles, MD/PhD

BS, 2002, Morehouse College; MD/PhD, 2010, Yale University

Lucien Alexandre, MD/PhD

BS, 1999, New York University; MD/PhD, 2010, Albert Einstein College of Medicine of Yeshiva University



LEADERSHIP ALLIANCE DOCTORAL SCHOLAR PARTICIPANTS

Taiese Bingham

Pharmacology
Postdoctoral Fellow
Infectious Diseases
Harvard University
taiese.bingham@childrens.harvard.edu

Kofi Boakye

Electrical Engineering and Computer
Science
Postdoctoral Researcher
National Security Engineering Division
Lawrence Livermore National Laboratory
kaboakye@gmail.com

Travis Boyce

Cultural Studies in Education
Assistant Professor
Africana Studies and Social Science
University of Northern Colorado
travis.boyce@unco.edu

Candace Carroll

Biomedical Sciences
Postdoctoral Researcher
Biochemistry
St. Jude Children's Research Hospital
candace.carroll@stjude.org

Denise Davis

Neuroscience
Postdoctoral Research Associate
St. Jude Children's Research Hospital
denise.davis@stjude.org

Arnaldo Diaz

Biochemistry and Biophysics
Coordinator of Recruitment and Special
Programs
Biomedical Graduate Studies
University of Pennsylvania
diaz@mail.med.upenn.edu

Scharri Ezell

Pharmacology/Toxicology
University of Alabama-Birmingham
sjezell@uab.edu

Gabriela Gonzalez

Biochemistry, Molecular, & Cell Biology
Cornell University
ggb3@cornell.edu

Meda Higa

Oncological Sciences
IRACDA Postdoctoral Fellow
Microbiology
University of Pennsylvania
mhiga@mail.med.upenn.edu

Marcus Jones

Basic Medical Science/Microbiology and
Infectious Diseases
Staff Scientist
Pathogen Functional Genomics
Resource Center
J. Craig Venter Institute
mjones@jcv.org

Tiffany Joseph

Sociology
Postdoctoral Researcher
Sociology
University of Michigan-Ann Arbor
tdjoseph@umich.edu

Christina Medina-Ramirez

Biomedical Science
Postdoctoral Research Fellow
Cell Biology
Albert Einstein College of Medicine of
Yeshiva University
christina.medina@phd.einstein.yu.edu

Courtnei T. Newsome

Pathobiology
Postdoctoral Researcher
Brown University
courtnei_newsome@brown.edu

Marguerite Nguyen

English
Mellon Postdoctoral Fellow in the
Humanities
English
Tulane University
mnguyen8@tulane.edu

Robert Patterson

African American Literature and
Culture
Assistant Professor of English
English
Florida State University
rjpatterson@fsu.edu

Chenere Ramsey

Neuroscience
Postdoctoral Fellow
Environmental Health
Emory University
chenere.ramsey@emory.edu

Labib Rouhana

Genetics
Postdoctoral Researcher
Cell and Developmental Biology
University of Illinois at Urbana-
Champaign
labib.rouhana@gmail.com

Edgardo Sanabria-Valentín

Microbiology
Postdoctoral Fellow
Microbiology and Molecular Genetics
Harvard University
edgardo_sanabria@hms.harvard.edu

Sophia Suarez

Physics
Assistant Professor, Physics
Brooklyn College
snsuarez@brooklyn.cuny.edu



FACULTY, PROGRAM ADMINISTRATORS AND OTHER PARTICIPANTS

Kortney Adams Martin

Bok Center Players
Harvard University
mail@kortneyadams.com

Cheryl Apprey

Director of Graduate Student Diversity
Programs
University of Virginia
cbe3x@virginia.edu

Carlotta Arthur

Program Officer
The Andrew W. Mellon Foundation
cma@mellon.org

Million Arefayene

Postdoctoral Researcher
Pharmacology
Eli Lilly and Company
sixmillionsix@gmail.com

Allison Avery

Diversity Affairs Manager
Office of Diversity Affairs
New York University
allison.avery@med.nyu.edu

Earnestine Baker

Assistant to the Vice President of
Institutional Advancement and
Executive Director
Meyerhoff Scholars Program
University of Maryland, Baltimore
County
erbaker@umbc.edu

Tyrone Barksdale

Special Projects Analyst/Assistant to the
Provost
Howard University
tbarksdale@howard.edu

Geneva Baxter

Associate Dean of Undergraduate
Studies
Office of Undergraduate Studies
Spelman College
gbaxter@spelman.edu

Susan Becker

Bok Center Players
Harvard University
susandb@hotmail.com

Jabbar Bennett

Assistant Dean of Recruiting and
Professional Development
The Graduate School
Brown University
jabbar_bennett@brown.edu

Pradip Biswas

Assistant Professor, Physics
Tougaloo College
pbiswas@tougaloo.edu

Anita Blanco

Director of Diversity Recruitment
Genetics and Biosciences
Stanford University School of Medicine
anita.blanco@stanford.edu

Lawrence “Skip” Brass

Associate Dean and Director
University of Pennsylvania MD-PhD
Program
brass@mail.med.upenn.edu

Steven Breckler

Executive Director for Science
Science Directorate
American Psychological Association
sbreckler@apa.org

Dawn Brown

Research Scientist
Animal Health Division
Eli Lilly and Company
brown.dawn@lilly.com

Joseph Brown

Graduate Diversity Recruitment Officer
School of Humanities and Sciences
Stanford University
jlbrown@stanford.edu

Don Brunson

Assistant Dean, Graduate School
Vanderbilt University
don.c.brunson@vanderbilt.edu

Jerry Bryant

Director, Science Education Initiatives
UNCF Merck Science Initiative
jerry.bryant@uncf.org

Eric Buckles

Assistant Professor, Biology
Dillard University
ebuckles@dillard.edu

Andrew Campbell

Professor, Molecular Microbiology &
Immunology
Brown University
Andrew_Campbell@brown.edu

Liza Cariaga-Lo

Assistant Provost for Faculty
Development and Diversity
Harvard University
Liza_Cariaga-lo@harvard.edu

Julian Collins

Program Coordinator, AIRO
Montana State University -Bozeman
julian.collins@montana.edu

Yvette Dalton-McCoy

Associate Director, Graduate Diversity
Programs
Tufts University
yvette.dalton-mccoy@tufts.edu

Janet Davidson

Assistant Professor, Criminology &
Criminal Justice
Chaminade University of Honolulu
jdavidso@chaminade.edu

Pamela Davis

Program Assistant, Undergraduate
Biology
Cornell University
pd43@cornell.edu

Stacie DeFreitas

Assistant Professor, Social Sciences
University of Houston-Downtown
defreitass@uhd.edu

Maria DoVale

Executive Assistant/Project Coordinator
Leadership Alliance
Brown University
maria_dovale@brown.edu

Charles Drain

Professor of Chemistry
Hunter College
cdrain@hunter.cuny.edu

Dean Evasius

Program Director, Mathematics
National Science Foundation
devasius@nsf.gov

**Jessica Evora**

Project Assistant
Leadership Alliance
Brown University
Jessica_Evora@brown.edu

Allyson Fauver

Policy Analyst and Media Specialist
Institute for Broadening Participation
afauver@ibparticipation.org

Gabriel Field

Bok Center Players
Harvard University
gabriel_field@hotmail.com

Tiffani Fonseca

Fellowship Programs Coordinator
Education Department, American
Society For Microbiology
tfonseca@asmusa.org

Francoise Freyre

Assistant Dean
Weill Cornell Graduate School
ffreyre@med.cornell.edu

Dale Fryxell

Professor, Psychology
Chaminade University of Honolulu
dfryxell@chaminade.edu

Michael Gaines

Professor and Assistant Provost
Undergraduate Research and
Community Outreach
University of Miami
m.gaines@miami.edu

Bianca Garner

Associate Professor, Biology
Tougaloo College
bgarner@tougaloo.edu

Jim Gates

John S. Toll Professor of Physics
University of Maryland at College Park
gates@umbdgrb.umd.edu

Medeva Ghee

Acting Executive Director
Leadership Alliance
Brown University
Medeva_Ghee@brown.edu

Larry Gomoll

Instructor, Biology/Allied Health
Montana State University-Bozeman
gomollet@hotmail.com

Christine Gonzalez

Associate Program Manager
Center for Study of Gene Structure and
Function
Hunter College
cgonzalez@genectr.hunter.cuny.edu

Kathleen Goss

Assistant Professor, Surgery
University of Chicago
kgoss@uchicago.edu

Ruth Gotian

Administrative Director
Weill Cornell/Rockefeller/Sloan
Kettering Tri-Institutional MD-PhD
Program
rgotian@med.cornell.edu

Steven Greenbaum

Professor of Physics
Hunter College
steve.greenbaum@hunter.cuny.edu

Michelle Grundy

Director, Summer Science Academy
Biomedical Research Education and
Training
Vanderbilt University
michelle.grundy@vanderbilt.edu

Louise Hainline

Dean of Graduate Studies and Research
Brooklyn College CUNY
louiseh@brooklyn.cuny.edu

Adam Hammond

Lecturer, Biochemistry
University of Chicago
ahammond@uchicago.edu

Angel Harris

Assistant Professor, Sociology
Princeton University
angelh@princeton.edu

Mark Hernandez

Professor/Program Director
Civil, Environmental, Architectural
Engineering
University of Colorado at Boulder
mark.hernandez@colorado.edu

George Hill

Associate Dean for Diversity in Medical
Education
Vanderbilt University
george.hill@vanderbilt.edu

Angela Howell

Assistant Professor
Sociology and Anthropology
Morgan State University
angela.howell@morgan.edu

Alejandro Huevo

RISE Coordinator, Psychology
Brooklyn College CUNY
ahuevo@brooklyn.cuny.edu

Judy Jackson

Administrative Director, Biomedical
University of Pennsylvania
jajackso@mail.med.upenn.edu

Karen Jackson-Weaver

Associate Dean for Academic Affairs and
Diversity
The Graduate School
Princeton University
kjweaver@princeton.edu

Ollie Johnson

Assistant Vice President for Academic
Affairs
Tougaloo College
ojohnson@tougaloo.edu

Emmitt Jolly

Assistant Professor, Biology
Case Western Reserve University
emmitt.jolly@case.edu

Barbara Kahn

Program Coordinator
Leadership Alliance
Brown University
barbara_kahn@brown.edu

Scott Keller

Adjunct Instructor, Civil Engineering
Montana State University-Bozeman
scottk@coe.montana.edu

Florence Kempner

MARC Coordinator
Psychology
Brooklyn College CUNY
fkempner@brooklyn.cuny.edu

Laina King

Director
Diversity in Life Science Programs
Keystone Symposia on Molecular and
Cellular Biology
lainak@kestonesymposia.org



Charla Lambert

NIH IRACDA Postdoctoral Fellow
Genetics
University of Pennsylvania
lacharla@mail.med.upenn.edu

Patricia Lee-Robinson

Director for Academic Achievement
Programs
Chaminade University of Honolulu
plrobins@chaminade.edu

Dana Lehr

Associate Program Director
Division of Astronomical Sciences
National Science Foundation
dlehr@nsf.gov

Dennis Lemoine

Bok Center Players
Harvard University
dennislemoine@gmail.com

Armanda Lewis

Program Associate
The Andrew W. Mellon Foundation
al@mellon.org

Lynette Lopes

Co-Active Life Coach
Imagine You, Inc
lynette@imagineyouinc.com

Ruth Lopez

SMART Program Coordinator
University of Colorado at Boulder
ruth.lopez@colorado.edu

Carita Marrow

Program Coordinator
UNCF Merck Science Initiative
carita.marrow@uncf.org

Megan McNulty

Lecturer/Advisor
Biological Sciences Collegiate Division
University of Chicago
mmcnulty@uchicago.edu

Paulette McRae

Postdoctoral Fellow, Neurology
University of Pennsylvania
mcraep@email.chop.edu

Keith Micoli

Manager, Postdoctoral Program
Sackler Institute of Graduate Biomedical
Sciences
keith.micoli@nyumc.org

Sharon Milgram

Director of the Office of Intramural
Training and Education
National Institutes of Health
milgrams@od.nih.gov

Sergio Morales

Research Assistant Professor, Biological
Science
University of Montana
sergio.morales@mso.umt.edu

Michelle Nearon

Assistant Dean and Director
Office for Diversity and Equal
Opportunity
Yale University
michelle.nearon@yale.edu

Barbara Nesmith

Acting Assistant Director
Office of Diversity
Columbia University
bsn2107@columbia.edu

Rosalie Norris

Bok Center Players
Harvard University
norris.rosalie@gmail.com

Shane Nowack

Instructor, Mathematics
Montana State University-Bozeman
nowack@math.montana.edu

Marjorie Old Horn

Director, AIRO
Montana State University-Bozeman
marjorie.oldhorn@montana.edu

Joel Oppenheim

Senior Associate Dean for Biomedical
Sciences and Director
Sackler Institute for Graduate
Biomedical Sciences
New York University
joel.oppenheim@nyumc.org

Jim Patton

Professor Biological Sciences, Director
Interdisciplinary Graduate Program
Vanderbilt University
james.g.patton@vanderbilt.edu

Willie Pearson Jr.

Professor
Sociology
Georgia Institute of Technology
kingvassie@comcast.net

Christopher Peete

Data Analyst
The Leadership Alliance Executive Office
Brown University
cjpeete@hotmail.com

Margaret Petrochenkov

Program Officer
The National Academy of Science
mpetroch@nas.edu

Terry Plater

Associate Dean for Academic Affairs
Cornell University
grad_assoc_dean@cornell.edu

Hank Randall

Photographer
Randall Photography
hank@randallphotography.com

David Redman

Associate Dean of Academic Affairs
The Graduate School
Princeton University
dnredman@princeton.edu

Landon Reid

Assistant Professor, Psychology
Colgate University
landon.reid@gmail.com

John Rose

Dean for Diversity and Compliance
Hunter College
john.rose@hunter.cuny.edu

Susan Ross

Associate Dean/Professor
Biomedical Graduate
Studies/Microbiology
University of Pennsylvania
rosss@mail.med.upenn.edu

Glenn Rowe

Research Fellow, Medicine
Harvard University
gcrowe@bidmc.harvard.edu

Nancy Schwartz

Dean, Graduate Affairs
Biological Sciences Division
University of Chicago
n-schwartz@uchicago.edu

Mara Sidmore

Artistic Director, Bok Center Players
Harvard University
msidmore@comcast.net

**Pamela Scott-Johnson**

Chair and Associate Professor,
Psychology
Morgan State University
pamela.scottjohnson@morgan.edu

Laurel Southard

Director of Undergraduate Research and
Outreach
Undergraduate Biology
Cornell University
les3@cornell.edu

Jocelyn Spragg

Faculty Director, Diversity Programs
Division of Medical Sciences
Harvard University
jspragg@hms.harvard.edu

John Stafford

Assistant Professor
Medicine/Diabetes Endocrinology &
Metabolism
Vanderbilt University
john.stafford@vanderbilt.edu

Howard Stone

Donald R. Dixon '69 and Elizabeth W.
Dixon Professor
Mechanical and Aerospace Engineering
Princeton University
hastone@princeton.edu

Neva Tall Bear

Science Instructor
Little Big Horn College
tallbearn@lbhc.edu

Sheila Thomas

Assistant Professor, Department of
Medicine, Harvard Medical School
Harvard University
sthomas@bidmc.harvard.edu

Rahmelle Thompson

Executive Director, Dr. John Hopps
Defense Research Scholars Program
Morehouse College
rthompo@morehouse.edu

Ian Thorpe

Assistant Professor, Chemistry and
Biochemistry
University of Maryland, Baltimore
County
ithorpe@umbc.edu

Siovahn Walker

Program Officer
Social Science Research Council
walker@ssrc.org

Aileen Walter

Vice President
Scholarships and University Relations
National Action Council for Minorities
in Engineering
awalter@nacme.org

Kenneth Warren

Deputy Provost for Research and
Minority Issues
Professor of English
University of Chicago
kwarren@uchicago.edu

Lee Warren

Associate Director, Derek Bok Center for
Teaching and Learning
Strengthen Learning and teaching
Excellence
Bok Center Players
Harvard University
lee_warren@harvard.edu

Sharon Welling

Director of Finance and Operations
Johns Hopkins University, MD-PhD
Program
swellin1@jhmi.edu

Catherine Will

Manager, Student Recruitment &
Programs
Office of Graduate Student Affairs
Johns Hopkins University
cwill@jhmi.edu

Elaine Willey

Academic Affairs Specialist
The Graduate School
Princeton University
ewilley@princeton.edu

Cedric Williams

Program Director
Directorate of Biological Sciences:
Neural Systems Program
National Science Foundation
clwillia@nsf.gov

John Wilson

Co-Director
Minority Health & Health Disparities
Research Center
Professor of Biology
Dillard University
jwilson@dillard.edu

James Wyche

Provost
Howard University
james.wyche@howard.edu

Gerard Zambetti

Vice President/Director Academic
Programs
St. Jude Children's Research Hospital
gerard.zambetti@stjude.org

Janice Zengel

Senior Research Scientist Biological
Sciences
University of Maryland, Baltimore
County
zengel@umbc.edu



GRADUATE STUDENT PARTICIPANTS

Riana Anderson
University of Virginia
rea2my@virginia.edu

Eliza Buhner
Cornell University
emb75@cornell.edu

Angel Byrd
Brown University
angel_byrd@brown.edu

Brenda Cadiz-Rivera
University of Rochester
branch84@hotmail.com

Michea Caye
Antioch University
mcaye@antioch.edu

Ashley Crump
Princeton University
acrump@princeton.edu

Kristin Dukes
Tufts University Medford
kristin.dukes@tufts.edu

Charisma Edwards
Louisiana State University-Baton Rouge
cedwa15@lsu.edu

Nicholas Everage
Brown University
nicholas_everage@brown.edu

Oscar Figueredo
Cornell University
of32@cornell.edu

Knatokie Ford
Harvard University
kford@hms.harvard.edu

Aliya Frederick
Vanderbilt University
aliya.l.frederick@vanderbilt.edu

Sarah Gaither
Tufts University Medford
sarah.gaither@tufts.edu

Justin Garyu
Yale University
justin.garyu@yale.edu

Jennifer Greene
University of Pennsylvania
greenejl@mail.med.upenn.edu

Andrew Hao
UC Berkeley
ah2018@gmail.com

Tyler Hickman
Tufts University
tyler.hickman@tufts.edu

Tiffany Link
Johns Hopkins University
tiff.link@gmail.com

Alia Lubers
University of Colorado at Boulder
alia.lubers@colorado.edu

Kenise Lyons
Yale University
kenise.lyons@yale.edu

Joseph Marlin
New York University
marlij01@nyumc.org

Jose McFaline Figueroa
Columbia University
jrm2133@columbia.edu

Sarah McQuate
University of Colorado at Boulder
sarah.mcquate@colorado.edu

Geronda Montalvo
University of Pennsylvania
gerondam@mail.med.upenn.edu

Maria Nariayani LaSala Blanco
Columbia University
ml2362@columbia.edu

Tricia Nardiello
New York University
tricia.nardiello@nyumc.org

Ifeoma Nwigwe
Yale University
ifeoma.nwigwe@yale.edu

Kedrick Perry
University of Virginia
kbp7u@virginia.edu

Natalie Perry
University of Virginia
njp7j@virginia.edu

Lashon Pringle
University of Pennsylvania
lpringle@mail.med.upenn.edu

Said Saab
New York University
ssaab@emory.edu

Rebecca Sweet
Yale University
rebecca.sweet@yale.edu

Shariya Terrell
Harvard University
sterrell@fas.harvard.edu

Steven Tuyishime
University of Pennsylvania
steventu@mail.med.upenn.edu

Marcia Walker
University of Chicago
marciaw@uchicago.edu



UNDERGRADUATE STUDENT PARTICIPANTS

Natalie Aarons Cooke

University of Colorado at Boulder
New Mexico State University
5eilatan5@gmail.com

Fred Abban

Princeton University
Cornell University
freddyabban@gmail.com

Aleeza Abbasi

Johns Hopkins University
University of Maryland, Baltimore
County
aleezaa1@umbc.edu

Zebib Abraham

University of Maryland, Baltimore
County
University of Maryland, College Park
zabraham@umd.edu

Lauren Acevedo Molina

New York University Sackler Institute
UPR-Rio Piedras
sau_am_6955@hotmail.com

Kadidia Adula

Brown University
Brooklyn College CUNY
akadidia1@yahoo.com

Olutobi Ajala

UNCF Merck Science Initiative
College of Saint Elizabeth
oajala@cse.edu

Antonella Albuja

University of Colorado at Boulder
Iowa State University
antao26@iastate.edu

Anissa Alexander

University of Pennsylvania
University of Maryland, Baltimore
County
anissaa1@umbc.edu

Richard Alexander

Harvard University, Division of Medical
Sciences
University of Colorado at Boulder
richard.e.alexander@colorado.edu

Blair Alexander Jr.

University of Pennsylvania
Morehouse College
piano_man0089@yahoo.com

Marvin Alfaro

University of Colorado at Boulder
University of Miami
m.alfaro4@umiami.edu

Ashley Alvarado

Montana State University -Bozeman
Fort Belknap College
griz8402@yahoo.com

Melissa Alvarado

University of Virginia School of Medi-
cine
UPR-Mayaguez
melissa.alvarado@uprm.edu

Travis Alvarez

Stanford University
Brooklyn College CUNY
travyt3@hotmail.com

Yolian Amaro-Rivera

University of Colorado at Boulder
UPR-Mayaguez
yolian.amaro@upr.edu

Amber Anders

Brown University
Washington University in St. Louis
amber.anders@wustl.edu

Lorena Antunez

Stanford University Engineering
University of Colorado at Boulder
lorena.antunez@colorado.edu

John Aragon

Yale University
CSU San Marcos
jaragon@palomar.edu

Caitlin Armijo

New York University Sackler Institute
University of New Mexico
carmijo5@unm.edu

Holly Arnold

Harvard University, Division of Medical
Sciences
University of Colorado at Boulder
holly.arnold@colorado.edu

Steve Arrieta

University of Virginia School of Education
Montclair State University
arrietas1@mail.montclair.edu

Gabrielle Arrington

Brown University
Georgia State University
garrington2@gmail.com

Avis Atkins

University of Virginia School of Education
CSU Long Beach
aatkins@csulb.edu

George Aumoithe

Columbia University
Bowdoin College
gaumoith@bowdoin.edu

Deborah Ayeni

University of Pennsylvania
City College of New York
ayeni.debrah@gmail.com

Jasmine Azure

Montana State University -Bozeman
Fort Peck Community College
jasminerose009@yahoo.com

Amy Baker

Harvard University, Division of Medical
Sciences
Tufts University Medford
amy.baker@tufts.edu

Parris Baker

University of Chicago
University of Florida
pbaker8e@ufl.edu

Ashley Balentine

Harvard University, Division of Medical
Sciences
Hampton University
asbalentine@gmail.com

Rose Bamfo

University of Virginia School of Medicine
Harvard University
rrosybam@gmail.com

Chrysantus Bandon-Bibum II

Stanford University Engineering
University of Maryland, Baltimore
County
leochrys@yahoo.com

Kelvon Barkley

Cornell University
North Carolina A&T State University
kjbarkle@ncat.edu

Kenneth Barnes

University of Chicago
Chicago State University
ken.barnes@yahoo.com

Hannah Barrett

Tufts University Medford
UMass Amherst
hbarrett@student.umass.edu

**Danielle Barton**

Brown University
Morgan State University
dbrtn11@gmail.com

Shamell Bell

Yale University
University of Southern California
shamellb@usc.edu

Ilana Bergelson

Harvard University
University of Chicago
ilana.bergelson@gmail.com

Samantha Berkheimer

University of Pennsylvania
Susquehanna University
sjberkheimer@yahoo.com

Ashley Berryman

Howard University
Elizabeth City State University
adberryman@mail.ecsu.edu

Adrienne Bird

Little Big Horn College
chaddy_23bird@hotmail.com

Leighann Black

Vanderbilt University
Claflin University
leblack@claflin.edu

Abigail Boateng

Tufts University
University of Maryland, Baltimore
County
abigail5@umbc.edu

Precious Boone

Howard University
UC Santa Barbara
preciousjboone@aol.com

Joshua Borgerding

Brown University
Washington University in St. Louis
jnborger@artsci.wustl.edu

Diego Borrali

University of Maryland, Baltimore
County
UPR-Rio Piedras
dborrali13@gmail.com

Eric Boyer

University of Pennsylvania
Massachusetts Institute of Technology
eboyer32@mit.edu

Tyler Bradstreet

Tufts University
Oregon State University
bradstrt@onid.orst.edu

Morgan Brophy

Cornell University
Stevens Institute of Technology
mb876@cornell.edu

Alexis Brown

University of Miami
University of Maryland, Baltimore
County
abrown17@umbc.edu

Melissa Brown

Stanford University
University of Georgia
missmcb@uga.edu

Nicolette Brown

Montana State University -Bozeman
Montana State University -Bozeman
nikkibrown08@hotmail.com

Stephanie Brown

Cornell University
Texas Woman's University
sb763@cornell.edu

Jason Browne

University of Colorado at Boulder
Wheaton College
j_browne1@yahoo.com

Benjamin Brumley

University of Virginia School of Education
University of North Carolina Chapel Hill
brumley@unc.edu

Ashiya Buckels

UNCF Merck Science Initiative
Washington University in St. Louis
ashiya_buckels@yahoo.com

Robyn Burgin

University of Chicago
Chicago State University
eujaro@yahoo.com

Thomas Burke

New York University Sackler Institute
San Jose State University
thomas.burke@nyumc.org

Javier Bustamante

Stanford University
Montclair State University
javierb623@yahoo.com

Eduardo Cabrera

University of Colorado at Boulder
CSU Los Angeles
cabrerae39@yahoo.com

Coral Cabrera-Montalvo

University of Colorado at Boulder
UPR-Mayaguez
coral.cabrera@upr.edu

John Campbell

Harvard University, Division of Medical
Sciences
North Carolina State University
jacampb2@ncsu.edu

Shellese Cannonier

Cornell University
University of the Virgin Islands
shellese.cannonier.ssea@gmail.com

Yi Cao

Brown University
Providence College
ycao@friars.providence.edu

Jennifer Carcamo

Columbia University
UCLA
jennifer.carcamo@gmail.com

Cesar Cardenas, Jr.

Harvard University, Division of Medical
Sciences
Texas A&M International University
ccardenasjr@dusty.tamui.edu

Diana Carrillo

Columbia University
Hunter College
dianacarol2005@yahoo.es

Bradley Carter

University of Virginia School of Education
James Madison University
carterbs@dukes.jmu.edu

Raul Caso

Harvard University, Division of Medical
Sciences
University of Miami
r.caso@umiami.edu

Mae Castillo

New York University Sackler Institute
Haverford College
mae.castillo@nyumc.org

**Stephanie Chan**

New York University Sackler Institute
University of Maryland, Baltimore
County
chans1@umbc.edu

Douglas Chapski

Harvard University, Division of Medical
Sciences
Tulane University
dchapski@tulane.edu

James Chavre

University of Virginia School of Educa-
tion
Columbia University
jrc2176@columbia.edu

Jarom Chung

Harvard University, Division of Medical
Sciences
Brigham Young University
jarom.y.chung@gmail.com

Joanna Ciavarella

Hunter College
Wagner College
joanna.ciavarella@wagner.edu

Elisia Clark

Harvard University
University of Maryland, Baltimore
County
ec2@umbc.edu

Michael Clark

New York University Sackler Institute
University of North Carolina Chapel
Hill
clarkmd@email.unc.edu

Brandyce Coes

Harvard University
Claflin University
brcoes@claflin.edu

Destiny Coleman

Cornell University
University of Maryland, College Park
dcoleman@umd.edu

Lisa Coleman

Hunter College
Otterbein College
lisa.coleman@otterbein.edu

Sherman Coleman

UNCF Merck Science Initiative
Dillard University
shermancoleman73@yahoo.com

Shamara Collins

Hunter College
Morgan State University
shamara.collins@gmail.com

Adrienne Conant

Yale University
CSU Fullerton
adriennenicole@csu.fullerton.edu

Devin Cooper

University of Chicago
Washington and Lee University
cooperd11@mail.wlu.edu

Nicolas Cordero

University of Colorado at Boulder
Cornell University
nac56@cornell.edu

Maria Correa

Harvard University, Division of Medical
Sciences
UPR-Rio Piedras
m.elena878@gmail.com

Renee Cotton

Hunter College
University of Chicago
reneec@uchicago.edu

Joel Crespo

University of Pennsylvania
UPR-Rio Piedras
joel.crespo@upr.edu

Brandon Crosby

Stanford University
Morehouse College
bjcrosby944@yahoo.com

Haydee Cruz

University of Virginia School of Educa-
tion
Arizona State University
hcruz1@asu.edu

Tiffany Cummings

University of Maryland, Baltimore
County
Central State University
cummings.tl.3@gmail.com

Christine Daniels

University of Chicago
Emory University
cdanie3@emory.edu

John Dankert

New York University Sackler Institute
Rochester Institute of Technology
jfdankert@gmail.com

Kyle Davis

Johns Hopkins University
North Carolina State University
kldavis4@ncsu.edu

Mamie Davis

Cornell University
Claflin University
md558@claflin.edu

Christina De Jesus-Villanueva

University of Colorado at Boulder
UPR-Humacao
christina.dejesus@upr.edu

Ivan de Kouchkovsky

New York University Sackler Institute
UC Berkeley
ivandk3@gmail.com

Pamela De La Cruz

Harvard University
UPR-Rio Piedras
pamdudette@gmail.com

Abigail De La Pena

Cornell University
University of Florida
adelapena@ufl.edu

Matthew DeMars

New York University Sackler Institute
University of Rochester
mdemars@u.rochester.edu

Dawson Demontiney

Montana State University -Bozeman
Stone Child College
duece_54@yahoo.com

Wallace Derricotte

Tufts University Medford
Morehouse College
wderricotte@yahoo.com

Kenneth Disbrow

Yale University
Rutgers University
kdisbrow@eden.rutgers.edu

Angela Dixon

Princeton University
University of North Carolina Chapel Hill
dixonar@email.unc.edu

Mytrang Do

Weill Cornell Medical College
Louisiana State University-Baton Rouge
mdo1@tigers.lsu.edu

**Aaron Dolor**

Hunter College
Hunter College
adolor@hunter.cuny.edu

Casey Doney

Montana State University - Bozeman
Fort Belknap College
indian_rebel_01@yahoo.com

Bilguujin Dorjsuren

Harvard University, Division of Medical
Sciences
University of Maryland, Baltimore
County
bilguujin@gmail.com

Jessica Douthit

University of Pennsylvania
Temple University
jessica.douthit@temple.edu

Jordan Dow

Johns Hopkins University
Morehouse College
j.dow2590@gmail.com

Kiara Drake

Cornell University
Claflin University
kdrake@claflin.edu

Jessica Duran

Harvard University, Division of Medical
Sciences
Rollins College-Winter Park
jmduran00@gmail.com

Korine Duval

Johns Hopkins University
University of Maryland, Baltimore
County
korine1@umbc.edu

Ijeoma Eboh

Columbia University
Hampton University
ieboh@fas.harvard.edu

Calie Edmonds

Columbia University
North Carolina A&T State University
calie.edmonds@yahoo.com

Cianna Edquillane

Tufts University
Chaminade University of Honolulu
ciannae_24@hotmail.com

Charles Eke

Weill Cornell Graduate School
Delaware State University
ceke09@students.desu.edu

Xochina El hilali

UNCF Merck Science Initiative
Carnegie Mellon University
xce@andrew.cmu.edu

Yaseen Eldik

Harvard University
SUNY Stony Brook
yeldik@lc.sunysb.edu

Courtney Ensslin

New York University Sackler Institute
University of Notre Dame
censslin@nd.edu

Samantha Espinosa

Brown University
College of Saint Elizabeth
sespinosa@sce.edu

Charles Farmer

New York University Sackler Institute
Seton Hall University
charles.farmer@student.shu.edu

Marie Feliciano

New York University Sackler Institute
UPR-Mayaguez
marie_eco@hotmail.com

Joel Fernandez

Weill Cornell Medical College
Yale University
fernandezjoel8@gmail.com

Zoila Fernandez

Weill Cornell Medical College
Emory University
isabelitafer@gmail.com

Meilín Fernández García

University of Pennsylvania
UPR-Rio Piedras
meilinfer@gmail.com

Erica Ferreris

University of Pennsylvania
University of Puerto Rico at Ponce
erica.ferreris@gmail.com

Kevin Fidelin

New York University Sackler Institute
Paris 7 University
kevin.fidelin@nyumc.org

Fatimah Finney

Brown University
Trinity College
fatimah.finney@trincoll.edu

Christina Flansburg

Montana State University - Bozeman
Fort Belknap College

perfect_bratt_09@yahoo.com

Will Fletcher

Weill Cornell Medical College
Pomona College
willrowanfletcher@gmail.com

Whytnee Foriest

Princeton University
Hampton University
wforiest@aol.com

Dannielle Foster

UNCF Merck Science Initiative
Xavier University of Louisiana
dfoster3@xula.edu

Meghan Francis

Tufts University
West Liberty University
mfrancis@westliberty.edu

Jesse Gallegos

Brown University
University of Southern California
jessegal@usc.edu

Josephine Garban

University of Pennsylvania
Temple University
tub76661@temple.edu

Limary Garcia Gonzalez

Harvard University
UPR-Rio Piedras
limary_716@hotmail.com

Christin Gates

Harvard University
University of Mississippi
cngates@olemiss.edu

Kimeya Ghaderi

Harvard University
University of Maryland, Baltimore
County
kimeya1@umbc.edu

Sabah Ghulamali

Brown University
University of Maryland, Baltimore
County
ghsabah1@umbc.edu

Eric Gibbs

University of Pennsylvania
Temple University
tua25062@temple.edu

Ciara Gimblet

New York University Sackler Institute
Howard University
ciara.gimblet@yahoo.com

**Jocelyn Gipson**

UNCF Merck Science Initiative
University of Alabama-Birmingham
jtgipson@uab.edu

Allison Gomez

Harvard University, Division of Medical
Sciences
UC San Diego
alg014@ucsd.edu

Michele Gomez

Yale University
Rutgers University
mgomez25@eden.rutgers.edu

Alejandro Gonzalez

Columbia University
University of North Texas
alexgon93@gmail.com

Andres Gonzalez

Brown University
Miami Dade College
andresyuniet@gmail.com

Rafael González

Johns Hopkins University
UPR-Mayaguez
rafael.gonzalez@ieee.org

Tiffany Gray

University of Colorado at Boulder
Metropolitan State College of Denver
tgray9@mscd.edu

Leopold Green

UNCF Merck Science Initiative
Hampton University
green.leo89@yahoo.com

Ronald Grider

Harvard University, Division of Medical
Sciences
Illinois State University
rgrider@iwu.edu

Michelle Haring

University of Pennsylvania
University of Wisconsin River Falls
michelle.haring@uwrf.edu

Jon Harvey

University of Colorado at Boulder
University of Evansville
jh372@evansville.edu

Asante Hatcher

Tufts University
University of Maryland, Baltimore
County
ahatch1@umbc.edu

Brit'ny Hawkins

Howard University
Spelman College
bhawkin3@scmail.spelman.edu

Charles Hayes IV

University of Pennsylvania
Morehouse College
cwhayes4@gmail.com

Kaitlin Heffron

University of Virginia School of Education
University of Virginia
kah6y@virginia.edu

Elizabeth Henderson

Johns Hopkins University
Hunter College
ehender89@yahoo.com

Kendrick Henderson

Brown University
Claflin University
kehenderson@claflin.edu

Adena Hernandez

Brown University
Williams College
aeh2@williams.edu

Liz Hernandez

University of Pennsylvania
UPR-Rio Piedras
ljhbpr@hotmail.com

Alexandra Herndon

UNCF Merck Science Initiative
University of Washington
anh07@uw.edu

Danielle Hill

University of Maryland, Baltimore
County
Spelman College
dhill4@scmail.spelman.edu

Courtney Hobson

Cornell University
Bowie State University
cchobson89@gmail.com

Eva Hoops

Little Big Horn College
ehoops@lbhc.edu

Gabrielle Horton

Columbia University
Tufts University
gabriellehorton@gmail.com

Janae Hunter

UNCF Merck Science Initiative
Oakwood College
janae.hunter@oakwood.edu

Denisse Izquierdo

Brown University
Barnard College
di2134@barnard.edu

Sanchez Jarrett

Harvard University, Division of Medical
Sciences
Brooklyn College CUNY
smkjarrett@gmail.com

Leonard Jarzebowski

New York University Sackler Institute
New York University
leojarze@me.com

Itisha Jefferson

UNCF Merck Science Initiative
Spelman College
Jefferson.itisha@yahoo.com

Teresa Jimenez

Stanford University
UC Berkeley
titaj79@yahoo.com

Shawn Johnson

Harvard University, Division of Medical
Sciences
Oregon State University
johnshaw@onid.orst.edu

Andrew Johnston

New York University Sackler Institute
Cornell University
adj38@cornell.edu

Ashley Jordan

University of Pennsylvania
Spelman College
ajordan9@scmail.spelman.edu

Diana Kadouch

New York University Sackler Institute
Sophia Antipolis University, France
dianakadouch@gmail.com

Phillip Kang

Harvard University
University of Maryland, Baltimore
County
pkang1@umbc.edu

**Emel Kasgarli**

Harvard University, Division of Medical
Sciences
UCLA
ru_ya@live.com

Brittany Katz

UNCF Merck Science Initiative
Dillard University
brittany.katz@students.dillard.edu

Jordan Kennedy

Montana State University - Bozeman
Montana State University - Bozeman
jordan.kennedy3@montana.edu

Danielle Kinsey

Montana State University - Bozeman
Fort Belknap College
dannymarie_9@yahoo.com

Michael Kinsey

Montana State University - Bozeman
Fort Belknap College
kinseykidd_23@yahoo.com

Djifa Kothor

Howard University
St. Lawrence University
ddkoth07@stlawu.edu

Divya Krishnamoorthy

Yale University
Carnegie Mellon University
dkrishna@andrew.cmu.edu

Judith Landeros

Brown University
Northwestern University
j-landeros@northwestern.edu

Jacqueline Larios

Stanford University
UC Berkeley
jlarios07@Berkeley.edu

Valerie Latimore

Cornell University
Scripps College
valerie.latimore@scrippscollege.edu

Aloysus Lawong

Johns Hopkins University
Cleveland State University
a.lawong@csuohio.edu

Luis Lazo del Sol

University of Colorado at Boulder
Brown University
lazodelsol@gmail.com

Lauren Lee-Houghton

Princeton University
Duke University
lel7@duke.edu

Jessica Leonard

Columbia University
Tuskegee University
jessica.v.leonard@gmail.com

Marisa Levy

Hunter College
SUNY Binghamton
mlevy5@binghamton.edu

Virginia Li

Weill Cornell Graduate School
Brooklyn College CUNY
vili25@gmail.com

Roman Liera

Howard University
San Diego State University
rlier21@gmail.com

Max Liu

New York University Sackler Institute
Duke University
mbl10@duke.edu

Jose Llongueras

Johns Hopkins University
University of Texas at Brownsville
jose.llongueras36@utb.edu

Alexander Lobert

Brown University
Northwestern University
a-lobert@northwestern.edu

Roxana Loperena

University of Pennsylvania
UPR-Rio Piedras
roxanaloperena@yahoo.com

Carla Lopez

University of Chicago
Wellesley College
sunnyraindrop9@yahoo.com

Armando Lopez Mercado

Johns Hopkins University
UPR-Rio Piedras
armandolopez_19@hotmail.com

Andrea Lopez-Cepero

Cornell University
UPR-Rio Piedras
aerdna_lc@hotmail.com

Mildred López-Piñeiro

Princeton University
UPR-Rio Piedras
mildred.lopezp@gmail.com

Lorenzo Lorenzo-Luaces Valencia

University of Pennsylvania
UPR-Rio Piedras
lluaces@ipsi.uprrp.edu

Aaron Louie

Harvard University, Division of Medical
Sciences
UC San Diego
aalouie@ucsd.edu

Fabiola Louis

Hunter College
Hunter College
flouisyo@gmail.com

Seshat Mack

Weill Cornell Medical College
Howard University
seshatmack@gmail.com

Charles Manning

Stanford University
Howard University
aman248907@comcast.net

Adriana Manrique

University of Colorado at Boulder
Arizona State University
amanriq1@asu.edu

Vanessa Mari

Cornell University
UPR-Mayaguez
vanessa.mari@upr.edu

Schyler Marquez

Yale University
Mount Holyoke College
marqu20s@mholyoke.edu

Mackenzie Martin

Eli Lilly and Company
Morehouse College
neurosurgeonmax@yahoo.com

Olivia Martin

Hunter College
University of Maryland, Eastern Shore
ojmartin@umes.edu

Elliott Martinez

Johns Hopkins University
Saint Edward's University
emartinh@stedwards.edu

**Enmanuel Martinez**

Stanford University
University of Pennsylvania
enmar@sas.upenn.edu

Francisco Martinez

Weill Cornell Medical College
CSU San Marcos
francft@yahoo.com

Mirna Martinez

University of Pennsylvania
Howard University
mdmartinez@howard.edu

Raul Martinez

Harvard University, Division of Medical
Sciences
Stonehill College
rmartinezmcalfine@student.stonehill.edu

Irene Mbah

Harvard University
Rice University
irene.m.mbah@rice.edu

Joelle Mbatchou

Harvard University, Division of Medical
Sciences
DePaul University
joellesophya@hotmail.com

Victoria McBride

University of Chicago
University of Notre Dame
vmcbride@nd.edu

Brandon McClary

UNCF Merck Science Initiative
University of Maryland, Baltimore
County
mcclary1@umbc.edu

Nekeshia McInnis

Johns Hopkins University
University of Florida
nekeshia@ufl.edu

Michael McKenzie

UNCF Merck Science Initiative
University of Wisconsin Madison
mckenzie2@wisc.edu

Jenna Medaris

Yale University
Mount Holyoke College
medar22j@mholyoke.edu

Karina Medved

Tufts University Medford
San Diego State University
kmedved@rohan.sdsu.edu

Eunice Mendoza

Brown University
Rochester Institute of Technology
eunice.mex@gmail.com

Olivia Mesoras

University of Chicago
Allegheny College
mesorao@allegheny.edu

Sonia Metangmo

Johns Hopkins University
University of Maryland, Baltimore
County
sonia3@umbc.edu

Elizabeth Millings

UNCF Merck Science Initiative
SUNY Stony Brook
ejm2162@columbia.edu

Ranjan Mishra

New York University Sackler Institute
Jacobs University Bremen
r.mishra@jacobs-universit.de

Andreas Mitchell

Weill Cornell Medical College
Washington University in St. Louis
amitchell@go.wustl.edu

Fei Yan Mock

Yale University
Hunter College
pepsi917@gmail.com

Hafsa Mohamed

Stanford University
San Diego Mesa College
hfsh_mohamed@yahoo.com

Malcolm Moise

New York University Sackler Institute
Xavier University of Louisiana
moisemal@yahoo.com

Angelique Mole

Brown University
Claflin University
amole@claflin.edu

Jose Montoyo-Rosario

New York University Sackler Institute
UPR-Mayaguez
jose.montoyo@upr.edu

Frances Morales

Hunter College
UPR-Humacao
frances.morales5@upr.edu

Veronica Morales

Princeton University
Northwestern University
veronica-morales@northwestern.edu

Gracey Morgan

University of Colorado at Boulder
Mississippi State University
grm70@msstate.edu

Steve Morgan

UNCF Merck Science Initiative
Xavier University of Louisiana
stevemorgan198922@hotmail.com

Filomene Morrison

Princeton University
UC Berkeley
fmorrison@berkeley.edu

Virgo Morrison

Columbia University
Morgan State University
vimor1@morgan.edu

Tiara Moultrie

Columbia University
Saint John's University
t_moultrie@hotmail.com

Lauren Moyer

University of Pennsylvania
Millersville University
lnmoyer@marauder.millersville.edu

Julia Mulligan

Vanderbilt University
Beloit College
mulligan@beloit.edu

Joshua Muñoz

Brown University
UC San Diego
joshmunoz.ucsd@gmail.com

Michelle Munyikwa

UNCF Merck Science Initiative
College of William & Mary
michelle.munyikwa@gmail.com

Brandon Murray

Brown University
Morehouse College
brandon.c.mu@gmail.com

Lindsey Myers

University of Virginia School of Medicine
University of Florida
myerslin@ufl.edu

**Nicole Naiman**

New York University Sackler Institute
Ohio State University
nnaiman10@gmail.com

Rayna Narvaez

University of Chicago
Augustana College
rayna-narvaez@augustana.edu

Grace Nauman

Harvard University, Division of Medical
Sciences
Dartmouth College
grace.nauman@dartmouth.edu

Kelechi Ndukwe

Hunter College
Lehman College, CUNY
kelechi.ndukwe@lc.cuny.edu

Yashira Negrón- Abril

Columbia University
UPR-Rio Piedras
ylnegron@gmail.com

Brandon Nemieboka

Weill Cornell Graduate School
University of Maryland, Baltimore
County
bnemie1@umbc.edu

Hien Nguyen

Hunter College
Baylor University
h_nguyen@baylor.edu

Thang Nguyen

University of Virginia School of Medicine
Hampton University
thang_nguyenanh2005@yahoo.com

Janice Nieves

Harvard University, Division of Medical
Sciences
UPR-Cayey
janice.nieves@upr.edu

Dalimar Nieves-Mas

University of Colorado at Boulder
UPR-Mayaguez
dalimar.nieves@upr.edu

Rachel Nolan

Tufts University Medford
Vanderbilt University
rachel.a.nolan@vanderbilt.edu

Ezinne Nwankwo

Howard University
Emory University
enwankw@emory.edu

Olivia Nwankwo

Johns Hopkins University
University of Maryland, Baltimore
County
nwankwo1@umbc.edu

Oluwatobiloba Odunsi

New York University Sackler Institute
University of Texas at Austin
tobi.odunsi@mail.utexas.edu

Candace Okello

Howard University
Westminster College
okellocc@westminster.edu

Victoria Okuneye

Weill Cornell Medical College
Massachusetts Institute of Technology
victorio@mit.edu

Alexandra Ornelas

Stanford University
Boise State University
alexornelas@u.boisestate.edu

Jennifer Overson

University of Colorado at Boulder
Oregon State University
jennifer.overson@gmail.com

Jean Padilla-Aponte

Columbia University
UPR-Rio Piedras
jeanpadilla89@yahoo.com

Vignesh Palaniappan

Brown University
University of Colorado at Boulder
vignesh.palaniappan@colorado.edu

Florencia Paredes

University of Colorado at Boulder
Cornell University
floparedes@gmail.com

Christina Parker

Weill Cornell Medical College
University of Maryland, Baltimore
County
cparker3@umbc.edu

Erick Paulino

Princeton University
Sarah Lawrence College
epaulino41@gmail.com

Janell Payano Sosa

University of Maryland, Baltimore
County
Kutztown University
jpayano23@yahoo.com

Holly Payne

Hunter College
University of Missouri-Columbia
hap9p8@mail.missouri.edu

Philana Payton

Howard University
Claflin University
ppayton@claflin.edu

Andria Peña

University of Colorado at Boulder
UPR-Mayaguez
andria.pena@upr.edu

Mayrel Pérez

Harvard University
Interamerican University of Puerto Rico
grisessa_perez@yahoo.com

Linh Pham

Stanford University Engineering
University of Maryland, Baltimore
County
linh.r.pham@gmail.com

Harold (Wes) Phillips

UNCF Merck Science Initiative
Yale University
h.wes.phillipa@gmail.com

Matthew Pimentel

University of Pennsylvania
UCLA
mpimentel@ucla.edu

Alexandra Pinzaru

New York University Sackler Institute
New York University
a.pinzaru@jacobs-university.de

Daniel Pique

Weill Cornell Medical College
University of Georgia
dpique1@yahoo.com

Ekundayo Platt

University of Maryland, Baltimore
County
Savannah State University
eplatt@student.savannahstate.edu

Melissa Powell

University of Pennsylvania
Hampton University
mpowell9297@yahoo.com

Ashley Powers

Weill Cornell Medical College
Massachusetts Institute of Technology
ashleynp@mit.edu

**Rosina Pradhananga**

Harvard University
Boston University
rpradhan@bu.edu

Brendalyn Quiah

Cornell University
Neumann Univesity
bl_quiah@knights.meumann.edu

Debra Ragland

Johns Hopkins University
North Carolina A&T State University
debra.ragland@gmail.com

Lourdes Ramirez

Johns Hopkins University
Florida International University
lrami019@fiu.edu

Matthew Ramirez

Weill Cornell Graduate School
Yale University
matthew.ramirez@yale.edu

Ghansham Ramkhellawan

Brown University
University of Miami
g.ramkhellawan@umiami.edu

Al Ray, III

New York University Sackler Institute
University of Georgia
i.am.alray@gmail.com

CaVar Reid

Princeton University
Wesleyan University
creid@wesleyan.edu

Brittany Rhodes

Princeton University
Spelman College
brttny_rhodes@yahoo.com

Jenae Richardson

University of Chicago
Syracuse University
jarich04@syr.edu

Jazmine Robertson

Johns Hopkins University
Norfolk State University
j.r.robertson@spartans.nsu.edu

Dianeth Rodriguez

University of Pennsylvania
University of Texas at Brownsville
dianeth.rodriguez34@utb.edu

Hiram Rodriguez

University of Miami
UPR-Mayaguez
hiram.rodriguez1@urp.edu

Natassia Rodriguez

Princeton University
University of North Carolina Chapel Hill
natassia@email.unc.edu

Natalie Rodríguez

Yale University
UPR-Rio Piedras
natalierq@gmail.com

Andrea Rolong

University of Colorado at Boulder
Florida International University
arolo005@fiu.edu

Raphaela Romero

Yale University
Xavier University of Louisiana
rromero@xula.edu

Amandla Roque-Atilano

University of Colorado at Boulder
Mills College
aroqueat@mills.edu

Christopher Rusnak

New York University Sackler Institute
Rutgers University
cruss713@yahoo.com

Adelita Russette

Montana State University -Bozeman
Stone Child College
miss_smartee07@yahoo.com

Lisa Ryan

University of Pennsylvania
Temple University
tua80714@temple.edu

Michelle Rybak

Hunter College
Massachusetts Institute of Technology
mrybak91@mit.edu

Christina Saak

New York University Sackler Institute
Jacobs University Bremen
c.saak@jacobs-university.de

Daniel Salahuddin

UNCF Merck Science Initiative
Saint Leo University
daniel.salahuddin@email.saintleo.edu

James Salazar

Harvard University, Division of Medical
Sciences
University of Texas at Austin
jwssb90@gmail.com

Farzana Saleem

University of Virginia School of
Education
Georgia State University
fsaleem1@student.gsu.edu

Torrey Salmon

University of Pennsylvania
The University of Scranton
salmont3@gmail.com

Ana Sanchez-Rivera

Tufts University Medford
UPR-Rio Piedras
ive022@hotmail.com

Philisha Santio

Montana State University -Bozeman
Stone Child College
pstickgame@aol.com

Ryan Santos

University of Miami
Chaminade University of Honolulu
rsantos671@hotmail.com

Elizabeth Sawyer

Princeton University
Spelman College
edsaw4@gmail.com

Anthony Saxon

Howard University
Morehouse College
arsaxon07@hotmail.com

Alicia Schep

New York University Sackler Institute
Harvey Mudd College
aschep@hmc.edu

Ashley Schloss

University of Pennsylvania
Temple University
schloss@temple.edu

Ashley Scott

Vanderbilt University
Claflin University
ashley.lauren32@yahoo.com

Carlyn Scott

Hunter College
Hunter College
cjscott@hunter.cuny.edu



Husna Shaik

Hunter College
Brooklyn College CUNY
husnashaik@gmail.com

Candice Sherwood

UNCF Merck Science Initiative
Georgia Institute of Technology
casherwooc@gatech.edu

Erin Shoemaker

Brown University
Misericordia University
shoemake@misericordia.edu

Melanie Silvis

New York University Sackler Institute
UC Berkeley
msilvis@berkeley.edu

Nicole Simon

University of Maryland, Baltimore
County
University of Maryland, Baltimore
County
nsimon1@umbc.edu

Kenneth Skinner

University of Pennsylvania
Morehouse College
kennethskinner1@yahoo.com

Eugene Smith

Brown University
Morgan State University
eugene.smith88@gmail.com

Jasmine Smith

Princeton University
UC Berkeley
jasmineivana@berkeley.edu

Ashley Spann

UNCF Merck Science Initiative
Samford University
alspann@samford.edu

Amber Spry

Columbia University
University of Maryland, Baltimore
County
adspry@gmail.com

Mathew Starner

University of Colorado at Boulder
Macalester College
mstarner@macalester.edu

Marie Steele

Princeton University
University of Maryland, Baltimore
County
msteele1@umbc.edu

Brooke Stevenson

Little Big Horn College
seth_talon06@yahoo.com

Kimberly Stratford

Vanderbilt University
North Carolina A&T State University
kmstrat0402@yahoo.com

Brandon Sward

Princeton University
University of Chicago
brandonsward@uchicago.edu

Meredith Tallbull

Montana State University - Bozeman
Chief Dull Knife College
thumpinrabbit2001@yahoo.com

Carmen Taveras

Weill Cornell Graduate School
Hunter College
ctaverasb@gmail.com

Helena Taye

Columbia University
UMass Amherst
taye.helena9@gmail.com

Kelsey Taylor

Harvard University, Division of Medical
Sciences
Connecticut College
ktaylor2@conncoll.edu

Milinda Thompson

Brown University
CSU Long Beach
thompson_college@hotmail.com

Joseph Tillotson

University of Miami
Chaminade University of Honolulu
joseph.tillotson@student.chaminade.edu

Ulysses Toche

Harvard University, Division of Medical
Sciences
Morehouse College
nachman112@yahoo.com

Katherine Toll

University of Chicago
University of Miami
k.toll@umiami.edu

Carol Torres

University of Colorado at Boulder
Universidad Interamericana de Puerto
Rico, Ponce
karol060@gmail.com

Juan Torres

Columbia University
University of Miami
j.torres20@umiami.edu

Yessenia Torres

University of Maryland, Baltimore
County
UPR-Rio Piedras
yitorres@uprrp.edu

Danielle Toupou

Cornell University
University of Delaware
dtoupou@yahoo.com

Johnathan Tran

Weill Cornell Medical College
Brown University
johnathan_tran@brown.edu

Nancy Truong

University of Virginia School of Educa-
tion
Kenyon College
truongn@kenyon.edu

Victor Tumalak

Montana State University - Bozeman
Fort Belknap College
tumalak71@yahoo.com

Devyani Ujla

Brown University
University of Maryland, Baltimore
County
d57@umbc.edu

MaKendra Umstead

UNCF Merck Science Initiative
North Carolina Central University
umsteadml@yahoo.com

Mohammad Usmani

Eli Lilly and Company
Fordham University
usmani@fordham.edu

Michelle VanTieghem

New York University Sackler Institute
Dartmouth College
michelle.r.vantieghem@dartmouth.edu

**Nadyan Vargas**

University of Miami
UPR-Mayaguez
nadyan.vargas@upr.edu

José Vargas-Muñoz

University of Pennsylvania
UPR-Mayaguez
jose.vargas.muniz@gmail.com

Natalia Vázquez

University of Colorado at Boulder
UPR-Mayaguez
natalia.vazquez1@upr.edu

John Vu

University of Colorado at Boulder
Brown University
John_Vu@Brown.edu

Devon Wade

University of Chicago
Louisiana State University-Baton Rouge
dwade5@tigers.lsu.edu

Kirstan Walker

University of Colorado at Boulder
University of Michigan-Ann Arbor
kirstan.walker@gmail.com

Luke Wandrey

University of Pennsylvania
Arizona State University
lwandrey@asu.edu

Kathryn West

New York University Sackler Institute
Texas A&M University
katwest88@tamu.edu

Jessica Wielgus

Stanford University
DePaul University
jwielgus@mail.depaul.edu

Jasmine Williams

UNCF Merck Science Initiative
University of Georgia
jasmaine@stanford.edu

Simone Williams

University of Pennsylvania
Southern Illinois University-Carbondale
sihmone2001@yahoo.com

Lindsay Wilson

Johns Hopkins University
University of Maryland, Baltimore
County
lwilson2@umbc.edu

Gabrielle Winston-McPherson

Hunter College
University of Arizona
winstonm@email.arizona.edu

Jackson Wray

Columbia University
University of Arizona
jwray@email.arizona.edu

Ali Wright

Harvard University
Cornell University
aw287@cornell.edu

Yakov Yakubov

Hunter College
Queens College CUNY
yakov.yakubov@macaulay.cuny.edu

Rama Yakubu

UNCF Merck Science Initiative
Clarkson University
yakuburr@clarkson.edu

Theodore Young

Howard University
Oberlin College
tyoung@oberlin.edu

Lana Zhang

University of Chicago
University of Maryland, Baltimore
County
jellysaurusrex@gmail.com

Stephanie Zimmerman

New York University Sackler Institute
Cornell University
skz2@cornell.edu



WHO'S WHO AT THE SYMPOSIUM

**Million Arefayene**

Eli Lilly and Company Research Laboratories

Million Arefayene is currently a Post-doctoral Research Fellow within the Drug Disposition Division of Eli Lilly and Company Research Laboratories.

He received his MSc. degree in Biomedical Chemistry from University of Kalmar, Sweden and Ph.D. in Pharmacology from Indiana University Purdue University, Indianapolis. Dr. Arefayene's research expertise lies within the domains of molecular biology and pharmacogenetics of drug metabolizing enzymes, transporters and their integration with drug discovery/development efforts. During his tenure at Lilly, through interaction with several multidisciplinary teams, he has assessed clinical issues in compound development and constructed strategies where pharmacogenetics would provide solutions; help establish the bridge between discovery and clinical work.

**Cheryl Apprey**

University of Virginia

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.

**Earnestine Baker**

University of Maryland, Baltimore County

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.

**Jabbar R. Bennett**

Brown University

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.

**Anita Blanco**

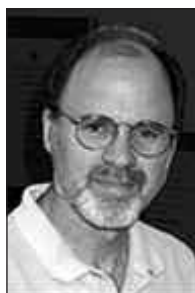
Stanford University School of Medicine

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 nonprofits 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.

**Travis Boyce**

University of Northern Colorado

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.

**Lawrence Brass**

University of Pennsylvania

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.

**Steve Breckler**

American Psychological Association

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 pro-

grams. 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.



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 focuses 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. Tacking 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 Postdoctoral 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 SREIP 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.

otic 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.

ter, 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.

**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.



Lynette Lopes

Imagine You Inc

Lynette Lopes is the President/Founder of Imagine You Inc (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. Nearon 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. Nearon 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.



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 Burroughs 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.



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.



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 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 underrepresented 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-Predocorial 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.



LEADERSHIP ALLIANCE EXECUTIVE OFFICE



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.

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 Ghee	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 AIRO Program Montana State University- Bozeman
David Redman	Associate Dean for Academic Affairs Princeton University

LEADERSHIP ALLIANCE STAFF

Medeva Ghee	Acting Executive Director
Barbara Kahn	Coordinator for Graduate and Undergraduate Programs
Maria DoVale	Executive Assistant/Project Coordinator
Jessica Evora	Project Assistant

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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

Box 1963
164 Angell Street
Providence, RI 02912

Telephone: (401) 863-1474
Fax: (401) 863-2244
www.theleadershipalliance.org