



20 YEARS

OF SUPPORTING RESEARCH,
SCHOLARSHIP AND
ACADEMIC EXCELLENCE

THE LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM 2012 PROGRAM GUIDE

Hartford Marriott and Convention Center | July 27 – 29, 2012

WELCOME TO THE 2012 LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM



Medeva Ghee
Executive Director

This is a memorable occasion for us! Twenty years ago the Leadership Alliance was established to support research, scholarship and academic excellence among underrepresented minority scholars. Since its inception, the Alliance has sought to inspire and motivate students like you to proactively participate in scholarship that addresses society's most pressing problems and which enriches our cultural experiences. The impact of these efforts will be featured throughout the 2012 symposium.

This conference will offer research presentations that span a wide variety of academic disciplines and demonstrate the intellectual diversity of our students and their faculty mentors. Throughout the symposium, you will meet academic administrators from Alliance member institutions who have contributed to the skill-building and professional development sessions that have been successful in helping students navigate graduate degree programs. Our signature tiered mentoring structure comes to life during these next few days as Alliance alumni at various stages of their academic pathways have an opportunity to engage you in scholarly and career advancing dialogue and leverage the expertise of a rich network of scholars from like backgrounds. Collectively these efforts have made the founding vision of the Alliance a reality and have contributed to greater diversity in academia.

During this 20th anniversary commemoration, we encourage you to engage in the activities that exemplify this vibrant community. Together, we will honor those persons integral to establishing and sustaining the work of the Alliance, and celebrate this Alliance that empowers us to strategically prepare for the future.

Best wishes for a great conference and celebration!



Jabbar R. Bennett
*Chair, Symposium
Planning Committee*

Greetings and welcome to the 2012 Leadership Alliance National Symposium (LANS)! We are so happy that you could join us as we celebrate our 20th Anniversary and reflect on two decades of supporting research, cultivating scholarship and inspiring academic excellence among some of America's best, brightest and most diverse scholars.

The LANS Planning Committee has worked diligently over the past year to offer you the most engaging, enriching and empowering Symposium to date. Every session was designed with you in mind and our invited speakers came to deliver a message especially for you.

Please take advantage of the formal scheduled events as well as informal opportunities to interact with panelists, faculty, administrators and other guests. It is also very important that you network with each other and take time to share your personal stories and professional aspirations. You may find yourselves training or working together during the next phases of your academic or professional careers, so start building these relationships now.

This Symposium aims to help the Leadership Alliance achieve its mission and realize its vision of developing underrepresented students into outstanding leaders and role models in academia, business and the public sector. We are committed to train, to mentor and to inspire. With 20 years of successful experience to build upon, along with your personal commitment to academic excellence and service, we will continue to affect positive change for many years to come.

Best wishes and make it memorable!

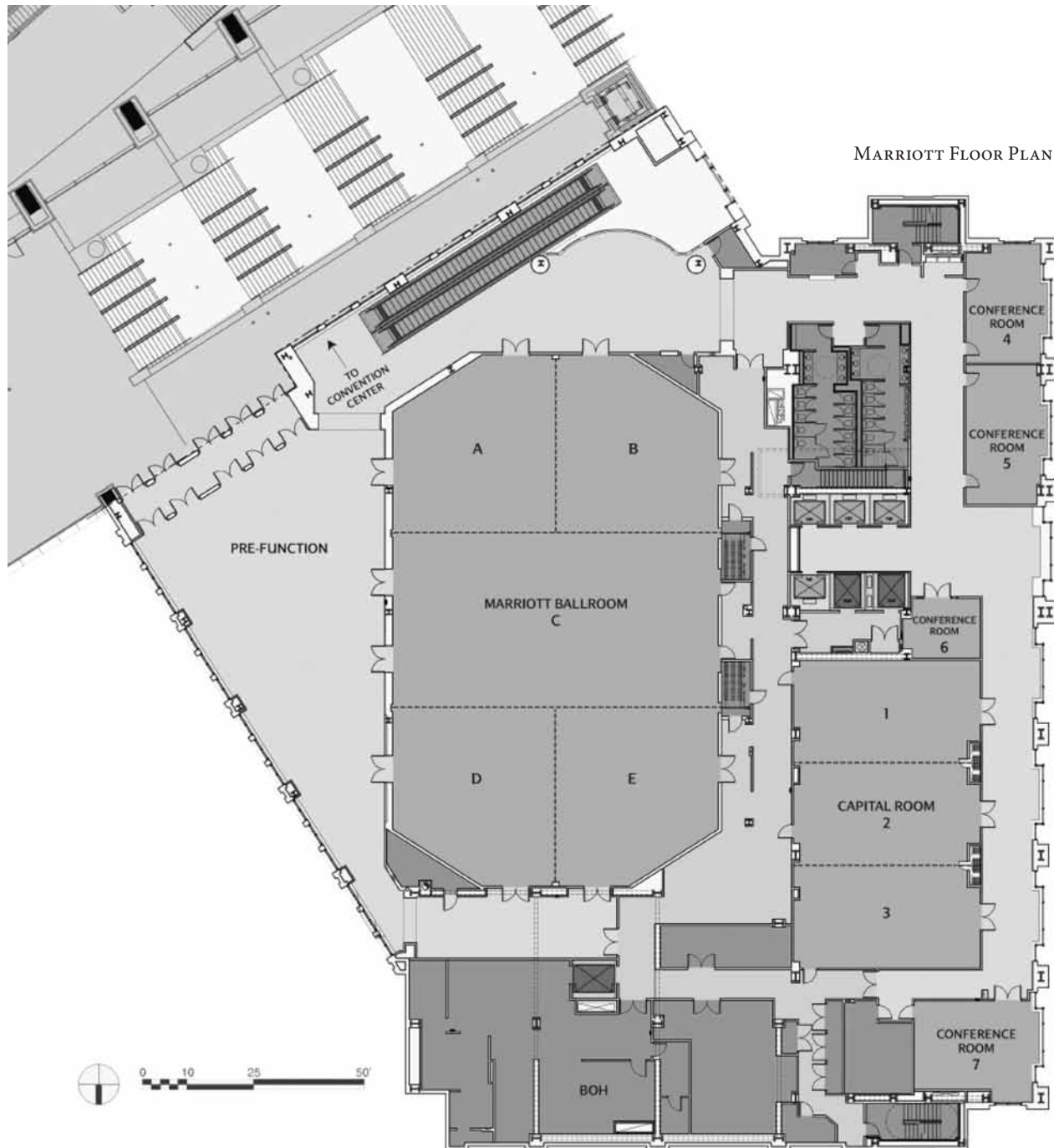
20 YEARS

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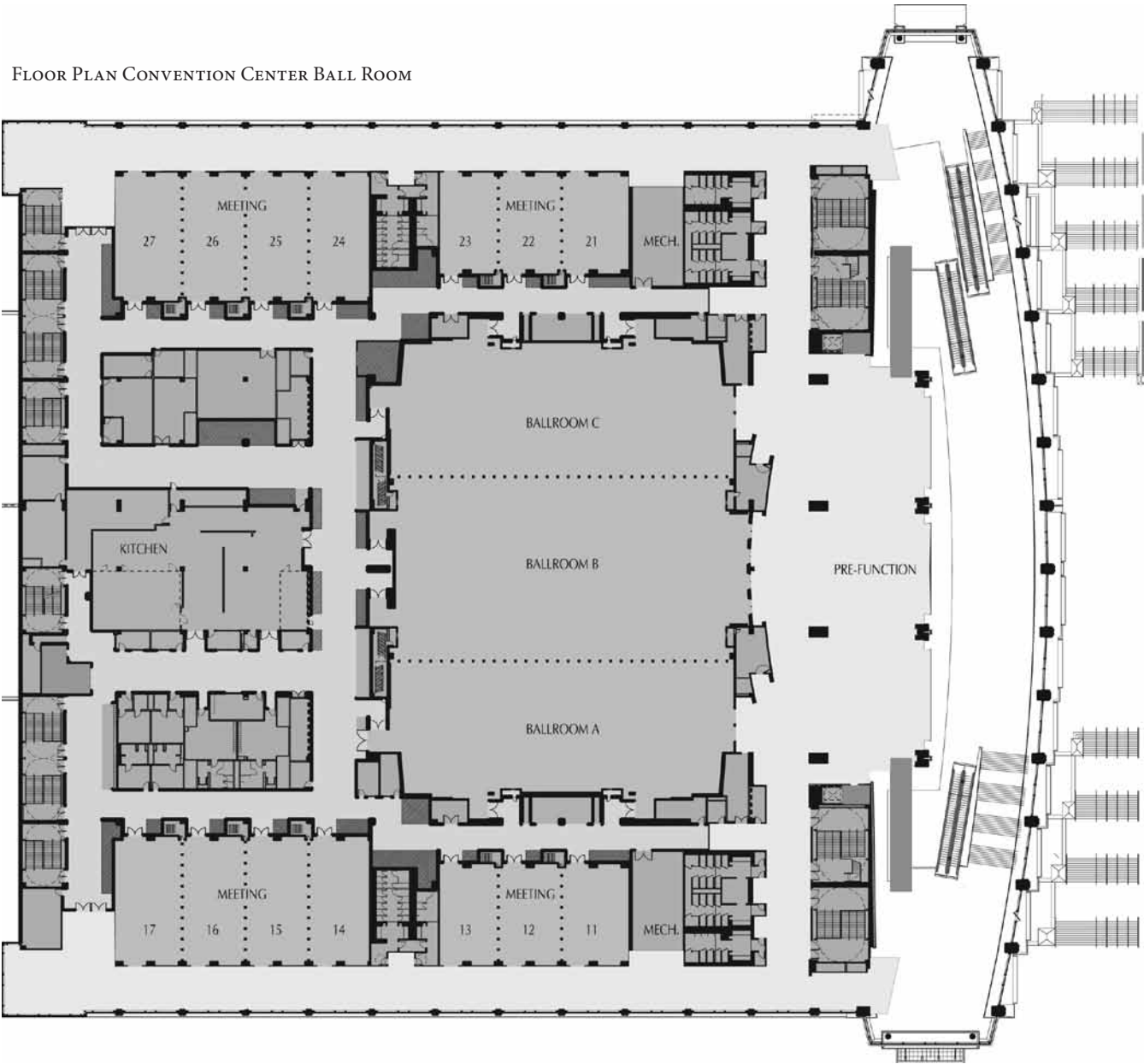
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PRESENTATION CATEGORIES KEY

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



FLOOR PLAN CONVENTION CENTER BALL ROOM



SYMPOSIUM AT-A-GLANCE

Time	General Sessions	Undergraduate Sessions	Graduate Sessions	Coordinators, Mentors, Guests, Administrators, & Doctoral Scholars
Day 1 - Orientation, Networking & Training				
11:00 am - 3:00 pm	Registration			
11:00 am - 3:00 pm		PowerPoint Presentation Upload I		
12:30 pm - 2:30 pm	Informal Networking Lunch – Everyone Sight and Sound Experience: Connecticut Science Center			
2:00 pm - 6:00 pm	Professional Headshots			
3:00 pm - 5:15 pm		Orientation, Networking, and Funding Sessions by Discipline	Developing Grantsmanship Skills Graduate Students and Doctoral Scholars	
5:30 pm - 6:45 pm		PowerPoint Presentation Upload II	Moderators Training Graduate Students	Doctoral Scholars Mixer Doctoral Scholars
7:00 pm	Dinner/Welcome/Doctoral Scholar Celebration/Keynote			
9:30 pm. - 10:30 pm			Reception for Doctoral Scholars, Faculty, Coordinators, Graduate Students, Speakers & Guests of the Executive Office	
Day 2 - Student Presentations & Panel Discussions				
7:15 am - 8:30 am	Coordinators Community Meeting/Breakfast			
7:30 am - 8:30 am		Poster Setup	Everything you Always Wanted to Know But Were Afraid to Ask Networking Breakfast for Graduate Students and Doctoral Scholars	
7:30 am - 8:30 am		Networking Breakfasts		
8:45 am - 9:45 am	Student Poster Presentations Session I (Odd Poster Numbers)			
9:45 am - 10:45 pm	Student Poster Presentations Session II (Even Poster Numbers)			
11:00 am - 12:45 pm	Student Oral Presentations Session I			
1:00 pm - 2:30 pm		Lunch Panel: The Graduate School Experience (PhD Program)	Life After Graduate School: The Postdoc Experience and More Graduate Students	Challenges Faced by Underrepresented Minorities in Academia, Industry and Government Doctoral Scholars
		Lunch Panel: The Graduate School Experience (MD-PhD Program)		
2:45 pm - 4:15 pm	Student Oral Presentations Session II			
4:20 pm. - 4:40 pm	Break/Snack/Professional Headshots			
4:45 pm - 6:00 pm	Student Oral Presentations Session III			
6:00 pm - 6:45 pm	Group Photos: Lilly Scholars and Leadership Alliance Mellon Initiative Cohorts/ Individual Professional Headshots/Free Time			
7:00 pm	Dinner, Evening of Recognition and Keynote Speaker			
9:00 pm - 12:00 am	Dance Party			
Day 3 - Recruiting Fair & Next Steps				
7:30 am - 9:45 am	Exhibitors Set-up for Recruiting Fair			
8:00 am - 9:45 am	The Graduate School Application Process:	Breakfast Panel: Biosciences	Career Coaching Networking Breakfast Graduate Students	Preparing for Success Networking Breakfast Doctoral Scholars
		Breakfast Panel: MD-PhD		
		Breakfast Panel: Social Sciences & Humanities		
		Breakfast Panel: Engineering & Physical Sciences		
8:00 am - 9:45 am			Faculty Breakfast	
10:00 am - 11:30 pm				Leadership Alliance Doctoral Scholar Network
10:00 am - 12:00 pm	Recruiting Fair/Exhibitors			
12:00 pm - 1:00 pm	Fill out Surveys/Closing Remarks/Adjournment			

AGENDA 2012

■ FRIDAY, JULY 27

11:00AM – 3:00PM

Leadership Alliance Conference Registration Marriott Foyer

11:00AM – 3:00PM

PowerPoint Upload Session I Marriott Capital Room 1

2:00PM – 6:00PM

Professional Headshots Marriott Foyer A/B

12:30PM – 2:30PM

(New) Informal Networking Lunch – Everyone Connecticut Science Center
Science Hall, 2nd Floor

3:00PM – 5:15PM

Orientation/Networking/Funding Sessions by Discipline (*Undergraduates*)

Biosciences Marriott Ballroom ABC

Moderators: Joel Oppenheim, Senior Associate Dean for Biomedical Sciences, New York University Langone Medical Center; Sheila Thomas, Assistant Professor of Medicine, Assistant Dean of Diversity and Minority Affairs for GSAS and DMS, Harvard University

Funding Panel:

Darryl Murray, Director, Undergraduate Scholarship Program, National Institutes of Health

Christine O'Brien, Manager Ford Fellowship, National Academy of Sciences

Tiffani Fonseca, Fellowship Programs Coordinator, Education Department, American Society for Microbiology

Social Sciences and Humanities Marriott Ballroom DE

Moderators: Karen Jackson-Weaver, Associate Dean of Academic Affairs and Diversity, Princeton University; Travis Boyce, Assistant Professor of Africana Studies and Social Science, University of Northern Colorado

Funding Panel:

Saul Fisher, Executive Director for Grants and Academic Initiatives and Visiting Associate Professor at Mercy College

Susie Valaitis, Senior Associate Director, Institute for Broadening Participation

Leislle Godo-Solo, Associate Director, Institute for Recruitment of Teachers

Engineering and Physical Sciences Marriott Capital Room 2

Moderator: Mark Hernandez, Professor, Civil, Environmental & Architectural Engineering, Director, Colorado Diversity Initiative, University of Colorado at Boulder

Funding Panel:

Aileen Walter, Vice President University Programs at the National Action Council for Minorities in Engineering

David Redman, Associate Dean for Academic Affairs, Princeton University

3:00PM – 5:15PM

(New) Developing Grantsmanship Skills Marriott Capital Room 3
Graduate Students and Doctoral Scholars

Moderator: Lloyd Douglas, Associate Director Office of Sponsored Projects, University of North Carolina at Greensboro/CUR, and Mary Farwell, Professor of Biology, East University/CUR

5:30PM – 6:45PM

PowerPoint Upload Session II Marriott Capital Room 1

5:30PM – 6:30PM

Moderators Training Marriott Capital Room 2

Moderator: Jabbar Bennett, Associate Dean, Graduate School, Associate Dean, Division of Biology and Medicine,
Brown University

5:30PM – 6:30PM

(New) Doctoral Scholars Mixer Convention Center Meeting Room 11&12

“Green Room” Preparation for Doctoral Scholar recognition

7:00PM – 9:00PM

Dinner and Welcome Connecticut Convention Center BC

Doctoral Scholar Recognition and Keynote Speaker

9:30PM – 10:30PM

Reception Marriott Ballroom AB

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

■ SATURDAY, JULY 28

7:15AM – 8:30AM

Coordinators Community Meeting/Group Photo.....Convention Center Ballroom C

7:30AM – 8:30AM

Posters Setup.....Convention Center Ballroom A

7:30AM – 8:30AM

Networking Breakfasts: Undergraduate

Biosciences.....Marriott Ballroom ABC

Social Sciences and Humanities.....Marriott Ballroom DE

Engineering and Physical Sciences.....Marriott Capital Room 1

Lilly Scholars Networking BreakfastMarriott Conference Room 5

Networking Breakfast: Doctoral Scholars & Graduate Students

Everything You Always Wanted to Know But Were Afraid to AskMarriott Capital Room 2 & 3

Moderator: Damani Piggott, Postdoctoral Fellow, Johns Hopkins University, MD-PhD and

Angel Byrd, MD-PhD Candidate, Brown University

Candace Carroll, UNCF/Merck Postdoctoral Fellow at St. Jude Children's Research Hospital

Edgardo Sanabria-Valentin, Staff Scientist at Sample6 Technologies

Erica Williams, Assistant Professor, Spelman College

8:45AM – 10:45AM

Student Poster Presentations.....Convention Center Ballroom A

8:45AM – 9:45AM – Student Poster Presentations Session I (Odd poster numbers)

9:45AM – 10:45AM – Student Poster Presentations Session II (Even poster numbers)

11:00AM – 12:45PM

Student Oral Presentations Session I

Biosciences.....Convention Center Meeting Rooms (Ballroom Level): 11-17

Engineering and Physical Sciences.....Convention Center Meeting Rooms (Ballroom Level): 21-23

Social Sciences and Humanities.....Convention Center Meeting Rooms (Ballroom Level): 24-27

~ *Lunch served 1:00 – 1:30 pm.* ~
Sessions conducted from 1:30 – 2:30 pm.

1:00PM – 2:30PM

Lunch and Panel Discussion: The Graduate School ExperienceConvention Center Ballroom C

Undergraduates Interested in the PhD

Moderator: Pamela Scott-Johnson, Chair and Associate Professor, Department of Psychology, Morgan State University

Daisy Camacho, Psychology, University of California Los Angeles

Andrew Hao, Social Sciences, University of California Berkeley

Sophia Gayle, Biological Sciences, Yale University

George Aninwene II, BioMed Engineering, Brown University

1:00PM – 2:30PM

Lunch and Panel Discussion: The Graduate School Experience Convention Center Ballroom B
Undergraduates Interested in the MD-PhD

Moderator: Nancy Schwartz, Associate Dean for Postdoctoral Affairs and Co-Director of the Office of Graduate Affairs, University of Chicago

Nicole Ramsey, MD-PhD Candidate, Weill Cornell Medical College

Kareem Rashid Rumah, Neurology MD-PhD Candidate, Weill Cornell Medical College

Kathia Cordero, Physiology MD-PhD Candidate, Loma Linda University

Jessian Munoz, MD-PhD Candidate, New Jersey Medical School

1:00PM – 2:30PM

Lunch and Panel Discussion for Graduate Students Convention Center, The Landing
Life after Graduate School: The Postdoc Experience and More

Moderator: David Redman, Associate Dean for Academic Affairs, Princeton University

Dawn Brown, Research Scientist, Companion Animal Product Development, Elanco

Alisha Gaines, Assistant Professor, Florida State University, Mellon Fellow (2009-2011)

Frederick Gregory, Program Manager, Dr. John Hopps Jr. Defense Research Scholars Program, Keystone Symposia Fellow

Eric Villegas, Lead Parasitologist, Biohazard Assessment Research Branch, Microbiological and Chemical Exposure Assessment Research Division, National Exposure Research Laboratory (EPA)

Kenneth Gibbs, AAAS Science and Technology Policy Fellow

1:00PM – 2:30PM

Lunch and Panel Discussion for Doctoral Scholars: Challenges Faced by Marriott Capital Room 3
Underrepresented Minorities in Academia, Industry and Government

Moderator: Jabbar Bennett, Associate Dean, Graduate School, Division of Biology and Medicine, Brown University

Anastacia Berzat, Scientific Program Manager at Novartis Institutes for BioMedical Research

Liza Cariaga-Lo, Associate Provost for Academic Development and Diversity, Brown University

2:45PM – 4:15PM

Student Oral Presentations Session II.....See Session I at 11:00am

~~~~~ Break, 4:20 pm – 4:40 pm ~~~~~

**4:45PM – 6:00PM**

Student Oral Presentations Session III.....See Session I at 11:00am

**6:00PM – 6:45PM**

Leadership Alliance Mellon Initiative/Lilly Scholar Group Photos.....TBA by photographer

**7:00PM**

Dinner, Evening of Recognition and Keynote Speaker ..... Convention Center Ballroom B

**9:00PM – 12:00AM**

Dance .....Convention Center Ballroom A

## ■ SUNDAY, JULY 29

**7:30AM – 10:00AM**

Exhibitors Set-up for Recruiting Fair ..... Convention Center Ballroom A



*Breakfast served 8:00 – 8:45 am.  
Sessions conducted from 8:45 – 9:45 am.*



**8:00AM – 9:45AM**

Undergraduate Breakfast and Panels: The Graduate School Application Process

Biosciences ..... Marriott Ballroom AB

**Moderator:** Nancy Schwartz, Associate Dean for Postdoctoral Affairs and Co-Director of the Office of Graduate Affairs, University of Chicago

**Sheila Thomas**, Assistant Professor of Medicine, Assistant Dean of Diversity and Minority Affairs for GSAS and DMS, Harvard University

**Joel Oppenheim**, Senior Associate Dean for Biomedical Sciences, New York University Langone Medical Center

**Roger Chalkley**, Senior Associate Dean for Biomedical Research Education and Training, Vanderbilt University

MD-PhD ..... Marriott Ballroom C

**Moderator:** Ruth Gotian, Administrative Director, Tri-Institutional MD-PhD Program

**Patrice Spitalnik**, Associate Director, Columbia MD-PhD Program

**Brian Sullivan**, Executive Director, Washington University in St Louis, MD-PhD Program

**Arlene Kohler**, Administrative Director, NYU MD-PhD Program

Social Sciences and Humanities ..... Marriott Ballroom DE

**Moderator:** Geneva Baxter, Associate Dean of Undergraduate Studies, Spelman College

**Liza Cariaga-Lo**, Associate Provost for Academic Development and Diversity, Brown University

**David Redman**, Associate Dean of Academic Affairs, Princeton University

**Pamela Scott-Johnson**, Associate Professor and Psychology Department Chair, Morgan State University

Engineering and Physical Sciences ..... Marriott Capital Room 1

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

**Howard Stone**, Professor in Mechanical and Aerospace Engineering, Princeton University

**Thomas Webster**, Associate Professor of Engineering, Brown University

Graduate Student Breakfast Seminar ..... Marriott Capital Room 2

**Moderator:** Jabbar Bennett, Associate Dean, Graduate School, Division of Biology and Medicine, Brown University

Doctoral Scholar Breakfast: Preparing for Success ..... Marriott Capital Room 3

**Moderator:** Marcus Jones, Assistant Professor, Pathogen Functional Genomics Resource Center, J. Craig Venter Institute

**8:00AM – 9:45PM**

Faculty Breakfast ..... Marriott Capital Room 7

**10:00AM – 12:00PM**

Recruiting Fair ..... Convention Center Ballroom C

**10:00AM – 11:30AM**

Leadership Alliance Doctoral Scholar Network ..... Marriott Capital Room 3

**12:00PM – 1:00PM**

Fill out surveys, Closing Remarks, Adjournment ..... Marriott Ballroom

# SHIRLEY MALCOM & LAWRENCE A. TABAK

## *Keynote Speakers*

### SHIRLEY MALCOM, PH.D.



Dr. Shirley Malcom is Head of the Directorate for Education and Human Resources Programs of the American Association for the Advancement of Science (AAAS). The directorate includes AAAS programs in education, activities for underrepresented groups, and public understanding of science and technology.

Dr. Malcom serves on several

boards—including the Heinz Endowments, Public Agenda and Digital Promise—and is an honorary trustee of the American Museum of Natural History. In 2006 she was named as co-chair (with Leon Lederman) of the National Science Board Commission on 21st Century Education in STEM. She serves as a Regent of Morgan State University and as a trustee of Caltech. In addition, she has chaired a number of national committees addressing education reform and access to scientific and technical education, careers and literacy. Dr. Malcom is a former trustee of the Carnegie Corporation of New York. She is a fellow of the AAAS and the American Academy of Arts and Sciences. She served on the National Science Board, the policymaking body of the National Science Foundation, from 1994 to 1998, and from 1994-2001 served on the President's Committee of Advisors on Science and Technology. Dr. Malcom received her doctorate in ecology from Pennsylvania State University; master's degree in zoology from the University of California, Los Angeles; and bachelor's degree with distinction in zoology from the University of Washington. She also holds 16 honorary degrees and in 2003 received the Public Welfare Medal of the National Academy of Sciences, the highest award given by the Academy.

### LAWRENCE A. TABAK, D.D.S., PH.D.



Dr. Tabak was appointed as the Principal Deputy Director of the NIH on August 23, 2010. He has served as co-chair of several trans-NIH activities, including the NIH-wide initiative to enhance peer-review, and played a leadership role in

coordinating the agency's response to the American Recovery and Reinvestment Act. From 2000 to 2010 he was Director of the National Institute of Dental and Craniofacial Research.

Prior to joining the NIH, Dr. Tabak was the senior associate dean for research and professor of dentistry and biochemistry and biophysics in the School of Medicine and Dentistry at the University of Rochester. A former NIH MERIT recipient, Dr. Tabak's major research focus has been on glycoprotein biosynthesis and function. He continues to lead an active research laboratory within the NIH intramural program in addition to his administrative duties.

A native of Brooklyn, New York, Dr. Tabak received his undergraduate degree from City College of the City University of New York, his D.D.S. from Columbia University, and a Ph.D. from the University of Buffalo. He is a fellow of the American Association for the Advancement of Science and a member of the Institute of Medicine of the National Academies.

## ORAL PRESENTATIONS BY TIME

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

|          |    |                     |                                                                                                                                                         |       |
|----------|----|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 11:15 AM | EN | Madison Calhoun     | Polyelectrolyte Adsorption onto Carbon Nanotube Surfaces Under Applied Potential                                                                        | CC-22 |
| 11:15 AM | AB | Jessica Cardenas    | Survivin's Role in the Regulated Secretory Pathway for Insulin                                                                                          | CC-13 |
| 11:15 AM | EN | Elvia Cortes        | Modular BoxWing UAV                                                                                                                                     | CC-23 |
| 11:15 AM | HU | Rebecca Denton      | Oriental Objects: Silks, Sultans, and the Threat to "Englishness" in <i>Jane Eyre</i>                                                                   | CC-24 |
| 11:15 AM | HU | Hadiya Jones        | Social Media, Awkward Black Girl, and Alternative Images of Blackness                                                                                   | CC-25 |
| 11:15 AM | AB | David Leon          | Gastric Band Release Rapidly Impacts Eating Behavior, Satiety Hormones and Weight                                                                       | CC-16 |
| 11:15 AM | BB | Dan Li              | SPINK1 Expression in Prostate Cancers and Its Effects on Other Transcriptions Factors                                                                   | CC-14 |
| 11:15 AM | ES | Johanna Nifosi      | Measuring Immune Development in Larval Amphibians to Understand Age-Dependent Susceptibility to Infection by <i>Riberoia ondatrae</i> (Class Trematoda) | CC-21 |
| 11:15 AM | BB | Stephanie Rivera    | The Role of HDAC6 on Cigarette Smoke-Induced Endothelial Barrier Dysfunction and Deacetylation of $\alpha$ -Tubulin                                     | CC-17 |
| 11:15 AM | AB | Juan Rivera Correa  | Interferon-stimulated Genes Restrict Replication of Human Rhinoviruses                                                                                  | CC-11 |
| 11:15 AM | AB | April Sosa          | Severe Traumatic Brain Injury in Rats Affects Markers of Memory Maintenance and Neurodegeneration                                                       | CC-12 |
| 11:15 AM | HU | Brooke Thomas       | Substance Over Style: Reconsidering Chicago's Black Elite between 1930-1960                                                                             | CC-26 |
| 11:15 AM | AB | Marcos Villarreal   | How <i>Mycobacterium vaccae</i> May Cure Chronic Depression                                                                                             | CC-15 |
| 11:15 AM | HU | Janelle White       | Intra-Racial Stratification in Chicago During the Civil Rights Era: The Role of Public Education                                                        | CC-27 |
| 11:30 AM | BB | Brian Brown         | Presence of a Putative Virulence Factor, <i>sasX</i> , in Methicillin-Resistant <i>Staphylococcus aureus</i> from Nosocomial Pneumonia                  | CC-15 |
| 11:30 AM | HU | Alexander Catchings | The Neo-Slave Narrative's Utility as an Aesthetic of Humor and National Ethic                                                                           | CC-25 |
| 11:30 AM | AB | Stephanie Christie  | Analyzing the Genetic Variability and Reverse Transcriptase Drug Resistance Mutations in HIV-1 Infected Individuals in Yaounde, Cameroon                | CC-11 |
| 11:30 AM | HU | Mack Curry IV       | The Study of Black English Vernacular: Its Usage in Literature and Music, and the Incorporation of This Dialect into English Teaching Curriculums       | CC-27 |
| 11:30 AM | BB | Christopher Ecker   | Tumor Suppressor APC's Regulation of GSK-3                                                                                                              | CC-13 |

|          |    |                        |                                                                                                                                                       |       |
|----------|----|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 11:30 AM | EN | Rene Farfan            | Realization of Periodic Metamaterials to Practical Three-Dimensional Structures                                                                       | CC-23 |
| 11:30 AM | EN | Legna Figueroa-Cosme   | Formation of Silver Secondary Particles in Solution Phase                                                                                             | CC-21 |
| 11:30 AM | BB | Isabel Hinestrosa      | Effect of mTORC1/2 Inhibition on T Lymphocyte Responses in a Breast Cancer Mouse Model                                                                | CC-14 |
| 11:30 AM | BB | Roderick King          | The Role of PKMzeta in the Reinstatement of Cocaine Seeking                                                                                           | CC-17 |
| 11:30 AM | AB | Sarah Lund             | Induction of Toll-Like Receptor 9 Signaling as a Method for Ameliorating Neuropathology in an Alzheimer's Disease Mouse Model                         | CC-12 |
| 11:30 AM | EN | Brittany Rauzan        | Soft Nanoimprint Lithography Using Bulk Metallic Glass for Fabrication of Polymer-Based Solar Cells with Enhanced Performance                         | CC-22 |
| 11:30 AM | HU | Roberto Rodriguez      | Violent Inscriptions, Psychic Wounds: Politics, Violence, Psychosis in Horacio Castellano Moya's <i>Insensatez</i>                                    | CC-24 |
| 11:30 AM | HU | Camille Suarez         | The NAACP and the Origin of Cold War Civil Rights: The Effect of Cold War Federal Policy on the Civil Rights Movement, 1945-1948                      | CC-26 |
| 11:30 AM | AB | Jorge Zarate Rodriguez | Sub-therapeutic Antibiotic Treatment and High Fat Diet Alter Murine Body Composition                                                                  | CC-16 |
| 11:45 AM | HU | Robin Ayers            | With all Deliberate Speed: A Historical Analysis of the Factors which Led to Emory University's Desegregation                                         | CC-26 |
| 11:45 AM | PS | Javier Barranco        | Image Quality Assessment For Compress Sensing Reconstruction                                                                                          | CC-23 |
| 11:45 AM | EN | Marc Castro            | Traveling-Wave Metal-Insulator-Metal Diode for Terahertz Conversion                                                                                   | CC-22 |
| 11:45 AM | HU | Jessica Cottrell       | Implications of the Black Male Body: An Analysis of the Societal Texts for the Young African American Male                                            | CC-25 |
| 11:45 AM | HU | Chloe Edmonds          | Education and Violence: Children, Schooling, and Genocide in Germany and Rwanda                                                                       | CC-27 |
| 11:45 AM | BB | Jordan Encarnacion     | Sex Differences in FosB Expression after Acute Administration of Cocaine, Methamphetamine, and Cannabinoids (WIN-55) in the Prefrontal Cortex of Rats | CC-17 |
| 11:45 AM | HU | Kyle Gipson            | The Contours of the New World: The Problem of Particularity in Richard Wright's <i>Native Son</i>                                                     | CC-24 |
| 11:45 AM | BB | Xiang Liu              | Elucidating How Staphylococcus aureus Leukotoxin AB Targets and Kills Mammalian Cell Through Structure-function Analysis                              | CC-15 |
| 11:45 AM | BB | Brian Mbamelu          | A Role for Notch in Traf6 Regulation                                                                                                                  | CC-13 |
| 11:45 AM | BB | Michael Okoreeh        | Optimizing Biomarkers to Identify MTAP Deficiency in Cancer                                                                                           | CC-14 |
| 11:45 AM | EN | Candy Reid             | Design and Fabrication of a High Throughput Combinatorial Electrochemical Testing System                                                              | CC-21 |



|          |    |                        |                                                                                                                                                                                  |       |
|----------|----|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 11:45 AM | BB | Anthony Rivera         | Survey of Time Budgeting and Feeding Preferences in Black-tailed Prairie Dogs                                                                                                    | CC-16 |
| 11:45 AM | AB | Matthew Rollins        | Effect of SIV in the Brain: Impact of SIV Infection on Neurogenesis in a Pediatric Rhesus Macaque Model                                                                          | CC-12 |
| 11:45 AM | BB | Alexander Vega         | HIV-2 Nucleocapsid Protein                                                                                                                                                       | CC-11 |
| 12:00 PM | AB | Titilayo Afolabi       | Effect of Reactive Oxygen Species on TRPM2 Channel in Leading to Alzheimer's Disease                                                                                             | CC-12 |
| 12:00 PM | AB | Obed Agyei             | Signaling of CCL7 and Its Receptors in the Lung Cancer Progression                                                                                                               | CC-14 |
| 12:00 PM | HU | Leah Barlow            | Locating the Human in South African Literature: Formalism in J.M. Coetzee's <i>Disgrace</i> and Nadine Gordimer's <i>None to Accompany Me</i>                                    | CC-24 |
| 12:00 PM | PS | Tashalee Billings      | Using CMB Polarization to Trace E-Fields and B-Fields                                                                                                                            | CC-23 |
| 12:00 PM | SS | Bailey Brown           | Why Link Communities to Schools? Rethinking the Community-School Dynamic                                                                                                         | CC-27 |
| 12:00 PM | PS | Ivan Bukreyev          | Structure and Ordering of Nickelate Superlattices                                                                                                                                | CC-22 |
| 12:00 PM | EN | Christian Hernandez    | Centrifuge Testing to Evaluate Seismic Lateral Earth Pressures on Buried Reservoirs                                                                                              | CC-21 |
| 12:00 PM | BB | Daniel Latimer         | Loss of Anthrax Toxin Receptors in Mice Leads to Deficient MT1-MMP Activity and May Cause Failure to Thrive Due to Defective Gastrointestinal Function                           | CC-16 |
| 12:00 PM | AB | Dalila Ordonez         | Potential Antioxidant Effects of SDG Treatment on HIV-mediated Neurotoxicity                                                                                                     | CC-11 |
| 12:00 PM | HU | Anairis Perez          | Linked Struggle: Finding Community through Art History                                                                                                                           | CC-26 |
| 12:00 PM | AB | Estee Rubien-Thomas    | Cognitive and Neuroplastic Effects of Chronic Morphine and Morphine Withdrawal in Mice                                                                                           | CC-17 |
| 12:00 PM | BB | Anthony Scruse         | An Exploration of Peptidomimicry by an Antibacterial Natural Product                                                                                                             | CC-15 |
| 12:00 PM | HU | Christine Semple       | The Cool: Blackface, Hip hop, and Geishas                                                                                                                                        | CC-25 |
| 12:00 PM | BB | Melissa Spear          | The Role of Leucine-Rich Repeat (in Flightless I) Interacting Protein-1 in the Wnt/ $\beta$ -catenin Pathway                                                                     | CC-13 |
| 12:15 PM | HU | Terrel Champion        | A Merciful Re-Envisioning of Race and Capitalism: Morrison and Postmodernism                                                                                                     | CC-24 |
| 12:15 PM | SS | Omar Davila Jr         | The Impact of Feeling Understood and Validated on Student Performance                                                                                                            | CC-25 |
| 12:15 PM | PS | Mark Davis             | Imaging Monolayer ZrO <sub>2</sub> on a Si Substrate                                                                                                                             | CC-22 |
| 12:15 PM | AB | Emily Fernández García | Characterization of $\alpha 4\beta 2$ and $\alpha 7$ nAChRs as Therapeutic Targets for the Development of Nicotine Cessation Treatments that Alleviate Anxiety During Withdrawal | CC-17 |
| 12:15 PM | PS | Mamikon Gulian         | Well-posedness for a Perturbed KdV Equation                                                                                                                                      | CC-23 |
| 12:15 PM | SS | Mark Harris            | College Is for Me: Educational Socialization of African American Adolescent Males and Its Impact on Their College Matriculation                                                  | CC-27 |

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| 12:15 PM | AB | Nathan Lo              | Immune Complex Vaccine for the Production of Broad Neutralizing Antibodies Against HIV                                                                               | CC-11 |
| 12:15 PM | BB | Danielle Miyagishima   | Temporal Differentiation of Neocortical Interneuron Progenitor Cells                                                                                                 | CC-12 |
| 12:15 PM | BB | Emmanuel Quaidoo       | Optogenetic Stimulation of the BNST in Mice Induces Feeding                                                                                                          | CC-16 |
| 12:15 PM | BB | Lina Sanchez           | Survival of Host-Passaged <i>Vibrio cholerae</i> Under Various Stress Conditions                                                                                     | CC-15 |
| 12:15 PM | BB | Blake Scott            | Barx1 and Wnt Signaling: The Characterization of a Homeobox Gene in Gastric Carcinogenesis                                                                           | CC-13 |
| 12:15 PM | HU | Paul Tran              | Standing on the Edge of Each Other's Battles: Race, Higher Education, & the Third World Freedom Struggle, 1976-1996                                                  | CC-26 |
| 12:15 PM | PS | Peter Vitale           | Chemistry of Graphene Oxide                                                                                                                                          | CC-21 |
| 12:15 PM | AB | Zollie White III       | Cross-Regulation of Activin A and TGF-beta in Breast Cancer                                                                                                          | CC-14 |
| 12:30 PM | PS | Jade Bing              | Application of PCET Towards the Formation of Radical Intermediates and Carbon-carbon Bonds                                                                           | CC-21 |
| 12:30 PM | BB | Cristhian Cadena       | Detection of Defective Interfering (DI) Particles of Bovine Respiratory Syncytial Virus (BRSV), Canine Distemper Virus (CDV), and Sendai Virus (SeV) in Lung Tissues | CC-15 |
| 12:30 PM | HU | Norrell Edwards        | What is African American Literature? An Analysis and Critique of Kenneth Warren's Argument on the Death of African American Literature                               | CC-24 |
| 12:30 PM | BB | Mateo Hernandez        | Investigation of the HIV-2 5'-Untranslated Region                                                                                                                    | CC-11 |
| 12:30 PM | PE | Sean McAdams Luna      | Public Opinion Change in the Transnational Context: The Link Between Social Change and Migrant Networks                                                              | CC-26 |
| 12:30 PM | BB | Joshua Moore           | Determining Cellular Localization of hTDP-43 during Beta-amyloid Plaque Formation                                                                                    | CC-12 |
| 12:30 PM | BB | Stephanie Ortiz        | cFos Immunoreactivity as a Result of Maternal Malnutrition and Stress                                                                                                | CC-16 |
| 12:30 PM | SS | Aparecio Peggins       | Cocaine Use Reduction with Buprenorphine - CURB                                                                                                                      | CC-17 |
| 12:30 PM | PS | Benjamin Pollak        | Nonpolymorphic Phase Transitions in Bulk Metallic Glasses                                                                                                            | CC-22 |
| 12:30 PM | AB | Melanie Santos-Marrero | Does TGF-beta Inhibition Increase Immunogenic Cell Death in Irradiated Cancer Cells?                                                                                 | CC-14 |
| 12:30 PM | BB | Emilio Soto            | Epigenetic Regulation of Notch Signaling                                                                                                                             | CC-13 |
| 12:30 PM | PS | Noor Tell              | Calculating Surface Area of Fractal Bacterial Flocs                                                                                                                  | CC-23 |
| 12:30 PM | SS | David Turner III       | Minority Students, Financial Aid, and the Finish Line: College Access and Completion in Texas                                                                        | CC-27 |
| 2:45 PM  | BB | Kevin Alicea Torres    | Identification and Characterization of Contact-Dependent Interactions in Platelets                                                                                   | CC-14 |
| 2:45 PM  | ES | Elena Baluyut          | Using InSAR to Analyze the Effects of Oil Extraction on Kuparuk Oil Field                                                                                            | CC-22 |

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|---------|----|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|
| 2:45 PM | AB | Amanda Buch        | Understanding the Role of Rab-3 in Synaptic Vesicle Exocytosis                                                                       | CC-16 |
| 2:45 PM | HU | Darren Esparza     | DREAMers or Immigrants? A Textual Analysis of President Obama's Support for the DREAM Act                                            | CC-25 |
| 2:45 PM | BB | Rachel Foster      | Hippocampal Brain-Derived Neurotrophic Factor Expression in Response to Alcohol Consumption and Voluntary Exercise                   | CC-17 |
| 2:45 PM | AB | Kafi Friday        | The Effect of Prenatal Maternal Immune Activation on Inhibitory Network Activity in Adult Offspring Medial Prefrontal Cortex         | CC-12 |
| 2:45 PM | HU | Chevon Holmes      | The Turnpike Era and Farming in Colonial New England 1750-1850: A Time of Economic Transition or Transformation to a Market-Economy? | CC-27 |
| 2:45 PM | ES | Kaitlyn Jeanis     | A Study of MS2 Molecular Damage Due to Wavelength Specific UV Irradiation                                                            | CC-21 |
| 2:45 PM | AB | Kelsey Maness      | Mechanism of Inflammasome Stimulation by Listeria monocytogenes in Human Myeloid Dendritic Cells                                     | CC-23 |
| 2:45 PM | AB | Gabriel Marrero    | Characterization of Tau Autoantibodies in Human Plasma                                                                               | CC-13 |
| 2:45 PM | HU | Jessica Mendez     | Revolutionary Women in the Young Lords Party: Radical Internationalism, Black Power and Feminism, 1968-1974                          | CC-24 |
| 2:45 PM | BB | Jessica Morgan     | The Kinesin II Family Motor Protein, KIF17, Contributes to Microtubule Stabilization and Actin Polymerization in Epithelial Cells    | CC-15 |
| 2:45 PM | BB | Guillaume Roubaix  | Implication of HPIP in the Chromosome Segregation                                                                                    | CC-11 |
| 2:45 PM | HU | Jonathon Savage    | Product Place(ment): Spatial Branding and the Unfamiliar Geography of Materialism in Don DeLillo and Colson Whitehead                | CC-26 |
| 3:00 PM | BB | Jesus Ayala        | CRH and TRH Expression and Methylation in Preterm Placenta                                                                           | CC-12 |
| 3:00 PM | BB | Joseph Behnke      | The Effects of Ketamine on Synaptic Plasticity                                                                                       | CC-16 |
| 3:00 PM | SS | Jasmine Benjamin   | Race Negotiation among Black Republican Congressmen                                                                                  | CC-25 |
| 3:00 PM | BB | Gina Calco         | Distinct and Additive Contributions of Thiamine Deficiency in an Experimental Model of Alcohol-Related Neurodegeneration             | CC-17 |
| 3:00 PM | BB | Kristin Ha         | Localization of the Telomerase RNA in Human Cells                                                                                    | CC-11 |
| 3:00 PM | SS | Sara Harris        | Mothers' Co-Residence with Children in Lesotho: Changing the Perspective                                                             | CC-24 |
| 3:00 PM | SS | Theresa Henry      | Development Accounting Revisited                                                                                                     | CC-27 |
| 3:00 PM | EN | Alex Holness       | Tracking Humans during Flocking Experiments: Determining Leadership and How it Relates to Centrality Measures                        | CC-22 |
| 3:00 PM | BB | Nilsa Jenkins Luna | Investigating the Regulatory Role of MicroRNAs in the Life Span of <i>C. elegans</i>                                                 | CC-14 |

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| 3:00 PM | BB | Nelson LaMarche  | Characterization of Myosin Dynamics in a Drosophila Germband Extension Mutant                                              | CC-15 |
| 3:00 PM | HU | Bretney Moore    | Rigidity Means Death: Intersections in the Work of Bessie Head and Gloria Anzaldua                                         | CC-26 |
| 3:00 PM | AB | Kristy Mungal    | Non-Invasive In vivo Imaging of a Subcutaneous Melanoma Model Provides an In-depth View of Tumor Growth Dynamics           | CC-23 |
| 3:00 PM | AB | Rachel Rudlaff   | Malarial Anemia: The Role of Homeostasis and Autoimmunity                                                                  | CC-13 |
| 3:00 PM | EN | Julie Walker     | A Fingertip Haptic Feedback Device for Remote Palpation with a BioTac Sensor                                               | CC-21 |
| 3:15 PM | BB | Leslie Brown     | An Examination of Cortisol and Rumination in Pregnant Women                                                                | CC-13 |
| 3:15 PM | SS | Shantel Campbell | The Clock is Ticking & Money is Running Out: How Scarcity of Time & Resources Affect Buyer Behavior                        | CC-27 |
| 3:15 PM | BB | Danielle Cicka   | The Overexpression of the Myopathic Matrin-3 S85C Mutant in C2C12 Myogenic Cells                                           | CC-15 |
| 3:15 PM | BB | Jonathan Cohen   | Ethanol Inhibition of Adenylate Cyclase Decreases the Phosphorylation State of Alpha 7 Nicotinic Acetylcholine Receptors   | CC-17 |
| 3:15 PM | BB | Netanel Ghatan   | In Search of Neural Syntax in the Hippocampus                                                                              | CC-16 |
| 3:15 PM | BB | Talia Guardia    | Analyzing the Mutations in the TBX5 Gene in Patients with Holt-Oram Syndrome                                               | CC-11 |
| 3:15 PM | AB | Dante' Johnson   | Activate Your Anxiety Network                                                                                              | CC-22 |
| 3:15 PM | PS | Sandya Lakkur    | Data Mining of the Human Microbiome                                                                                        | CC-21 |
| 3:15 PM | BB | Sarah Leone      | Analysis of Midbody Remnant Internalization During Caenorhabditis elegans Embryogenesis                                    | CC-14 |
| 3:15 PM | SS | Shelby Lohr      | The Evolution of Evangelicalism through Early American Texts                                                               | CC-26 |
| 3:15 PM | BB | Juan Lopez       | Characterization of the Kinetics of Mutant T178I in Embryonic Myosin                                                       | CC-12 |
| 3:15 PM | AB | Krystina Quow    | Sperm Cell Transfer and Automated Sperm Search Using Laser Microdissection                                                 | CC-23 |
| 3:15 PM | SS | Guy Sakamoto     | A Systematic Review of Research on the Consequences of Maternal Incarceration for Children                                 | CC-24 |
| 3:15 PM | SS | Olamide Williams | Wilsonian Foreign Policy and the Paradox of Globalization                                                                  | CC-25 |
| 3:30 PM | BB | Davis Anugo      | Translational Control in the Mammalian Circadian Clock                                                                     | CC-13 |
| 3:30 PM | SS | Kamaria Beamon   | Aspects of Identity in Teaching Practices: Case Study of Travis Plume                                                      | CC-26 |
| 3:30 PM | BB | Marimar Benitez  | Exploiting 89Zr-transferrin PET as a Biomarker of Response to Therapies that Inhibit MYC Function                          | CC-15 |
| 3:30 PM | BB | Rebecca Betances | MiRNA-17-92 Cluster Controls the Differentiation of Subcerebral Projection Neurons by Targeting Transcription Factor Ctip2 | CC-17 |

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| 3:30 PM | PS | Megan Cherry         | Integrated Network Approaches to Understanding Indirect Transcription Factor Interactions Associated with Variants of the Mediator Complex | CC-21 |
| 3:30 PM | SS | Tazmin Falan         | Do Questionnaire Measures of Children's Prosocial Behavior Predict Altruism in the Dictator Game?                                          | CC-27 |
| 3:30 PM | BB | Joshua Kogan         | Caenorhabditis elegans as a Model for Inducing Cell Death in Germline Tumors                                                               | CC-14 |
| 3:30 PM | BB | Mikki Mesfin         | Localizing Expression of c-myc Within the Embryonic Brain                                                                                  | CC-12 |
| 3:30 PM | BB | Oluremi Ojo          | Alternative Lengthening of Telomeres in Embryonic Development                                                                              | CC-11 |
| 3:30 PM | AB | Charrise Ramkissoon  | Validation of IVIM-DWI Diffusion Parameters through Histology Quantification                                                               | CC-23 |
| 3:30 PM | BB | Felix Reyes          | Temporal Variables in Dopaminergic-mediated Plasticity of Auditory Cortical Circuits                                                       | CC-16 |
| 3:30 PM | SS | Emilce Santana       | Re-examining the Educational Outcomes of U.S. Hispanic/Latino Children of Immigrants                                                       | CC-24 |
| 3:30 PM | AB | LaTonya Simon        | Directing Motor Axon Outgrowth Using Hydrogels                                                                                             | CC-22 |
| 3:30 PM | SS | Cynthia Villacis     | Partisan Taunting in Congress                                                                                                              | CC-25 |
| 3:45 PM | BB | Jie Bin Liu          | Identification of Clock-controlled mRNAs that Regulate Eclosion Rhythm in the Prothoracic Gland of Drosophila melanogaster                 | CC-11 |
| 3:45 PM | BB | Christian Capanna    | Effective Osteopontin Concentration for Hydroxyapatite Seeded Growth Inhibition and Its Relative Binding Affinity                          | CC-12 |
| 3:45 PM | AB | Lizzette Castillo    | Hi-Fidelity Recovery of Bioaerosols DNA                                                                                                    | CC-23 |
| 3:45 PM | SS | Thekia Cheeseborough | Humans Are Animals Too: Exploring How Persons Assert Themselves After Being Dehumanized                                                    | CC-26 |
| 3:45 PM | BB | Ashley Diaz          | The Role of Presenilin-1 (PSEN-1) in Surfactant Production in Type II Lung Epithelial Cells                                                | CC-15 |
| 3:45 PM | PS | Candace Ghent        | Exploring the Mediator Complex using Functional Similarity of Proteins                                                                     | CC-21 |
| 3:45 PM | SS | Elizabeth Kang       | Power in the Workplace                                                                                                                     | CC-27 |
| 3:45 PM | BB | Claudia Lanauze      | Saturation Screens to Uncover Genes that Affect Excretory (Renal) Tube Development in C. elegans                                           | CC-14 |
| 3:45 PM | BB | Patricia Mae Santos  | Identifying RNA Sequestered by Pathologic TDP43 in Frontotemporal Lobar Dementia and Amyotrophic Lateral Sclerosis                         | CC-16 |
| 3:45 PM | BB | Veronica Parra       | The Identification of Inhibitory Beta-Amyloid Compounds Using a High-Throughput Assay                                                      | CC-17 |
| 3:45 PM | BB | Varun Patel          | Intra-Subject Variability in Attention-Deficit Hyperactivity Disorder                                                                      | CC-13 |
| 3:45 PM | SS | Glenda Ullauri       | Global Environmentalism in the Rio+20 Conference: Political Crisis in the Making of a Sustainable Future                                   | CC-25 |
| 3:45 PM | AB | Emile Vieta          | Silver Nanoparticle-based Imaging Agents for Breast X-ray Imaging                                                                          | CC-22 |

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| 3:45 PM | SS | Jasmine Whiteside        | What If I Think I Can? Understanding the Impact of Positive Thinking on the Future Success of Children in Rural China                                                                   | CC-24 |
| 4:00 PM | BB | Jamal Bryant             | Measuring Cytosolic Zn Ion Concentrations in Pancreatic Cancer Cells using Genetically Encoded Fluorescent Sensors                                                                      | CC-12 |
| 4:00 PM | BB | Stacy Christopher        | The Role Of FGF8 And FGFR1 In Mouse Hypothalamic Development                                                                                                                            | CC-16 |
| 4:00 PM | PE | Selena Crowley           | Native Nations' Allocation of Resources: Link to Development                                                                                                                            | CC-25 |
| 4:00 PM | AB | Christopher Duncan-Lewis | Cell Viability and Morphology on Nanopatterned Bulk Metallic Glass Surfaces                                                                                                             | CC-22 |
| 4:00 PM | BB | Nicholas Hernandez       | Localization and Trafficking of Phosphorylated BACE1 in the Endocytic Pathway                                                                                                           | CC-15 |
| 4:00 PM | PS | Arnaud Konan             | Analysis of Spatial Correlation in Shotgun Cellular System                                                                                                                              | CC-21 |
| 4:00 PM | BB | Shiying Lu               | Does Mediator Complex Subunit 12 Have a Regulatory Role in Hematopoietic Stem Cell Differentiation?                                                                                     | CC-13 |
| 4:00 PM | BB | Tommaso Lucchesi         | Impact of Sister Chromatid Cohesion in Telomeric Function in u2os Cells                                                                                                                 | CC-11 |
| 4:00 PM | SS | Tomas Nivon              | Bankruptcy Distress Cost Analysis with Derivatives                                                                                                                                      | CC-27 |
| 4:00 PM | AB | Jorge Rosario            | Development of Novel RNA Delivery Method via Self-Assembled Nanopieces                                                                                                                  | CC-14 |
| 4:00 PM | PE | Christina Williams       | U.S. Foreign Policy Towards Latin America: Pursuing the National Interest (Or Not?)                                                                                                     | CC-24 |
| 4:00 PM | BB | Clara Woods              | Effects of Hypertension on the Subcellular Density of the NMDA Receptor in Corticotropin Releasing Factor Type 1 Receptor Containing Neurons in the Mouse Rostral Ventrolateral Medulla | CC-17 |
| 4:45 PM | BB | Niambi Brewer            | Identification of Additional Lipid Regulators that Contribute to Primordial Germ Cell Migration in Drosophila                                                                           | CC-15 |
| 4:45 PM | SS | Danielle Callendar       | Check your Privilege: Black Women's Resistance of White Cultural Privileging in Elite Colleges                                                                                          | CC-24 |
| 4:45 PM | AB | Martha Dua-Awereh        | Activation of STAT-5 by the Extracellular Factor Neuromedin U is JAK2-dependent                                                                                                         | CC-17 |
| 4:45 PM | AB | Robert Gutierrez         | Quantitative Measurement of Live Cells and Their Gene Expression                                                                                                                        | CC-11 |
| 4:45 PM | SS | Emily Jenab              | The Benefits of Mindfulness for At-Risk High School Students                                                                                                                            | CC-26 |
| 4:45 PM | AB | Yoelkys Morales          | T-Cell Exhaustion in DBA/2 and BALB/c Mice after Infection with Babesia Microti                                                                                                         | CC-12 |
| 4:45 PM | SS | Melissa Powell           | Private Speech During Delay of Gratification                                                                                                                                            | CC-25 |
| 4:45 PM | SS | Carlos Puentes           | Predicting the Benefit of Antidepressant Medication Relative to Placebo Using Patient Characteristics                                                                                   | CC-22 |



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| 4:45 PM | BB | Adam Ross             | Modifications of Conserved Lysine and Serine Residues Contribute to the Regulatory Activities of Nkx2.2                                               | CC-13 |
| 4:45 PM | AB | Jaimie Stewart        | Enzyme-Degradable Hydrogel System Modeled by Microparticles                                                                                           | CC-21 |
| 4:45 PM | BB | Hudson Stoner         | Gamma Sarcoglycan-mediated Signal Transduction in Skeletal Muscle                                                                                     | CC-14 |
| 4:45 PM | SS | Isaiah Sypher         | Analyzing Motivational Factors in Depression                                                                                                          | CC-23 |
| 4:45 PM | BB | Christy Taylor        | An Investigation of the Molecular and Mechanical Regulation of Cell Migration in Drosophila                                                           | CC-16 |
| 4:45 PM | SS | Christine Wu          | Subcomponents of Negative Affect and Cortisol Reactivity                                                                                              | CC-27 |
| 5:00 PM | SS | James Alaniz          | A Novel Touch-Screen Based Behavioral Interaction System                                                                                              | CC-23 |
| 5:00 PM | BB | Janae Baptiste        | Gene Cloning and Protein Expression of Myristylated Wildtype FIV Matrix Protein Using Human N-myristyl transferase                                    | CC-13 |
| 5:00 PM | BB | Maria Bottermann      | Characterizing Natural Killer Cell Exhaustion Using an In-vitro Model to Mimic the Environment of Metastatic Melanoma                                 | CC-12 |
| 5:00 PM | HU | Akia Jackson          | The Effects of Slavery on Children's Perspectives Toward Skin Color                                                                                   | CC-24 |
| 5:00 PM | AB | Hugo Jenab            | An Investigation of Post-Menopausal Cardiovascular Illness through Quantification of Neural Capillaries                                               | CC-11 |
| 5:00 PM | BB | Maria Jones           | Multimodal Control of Orientation Under Conditions of Toxicity in Bullfrog Tadpoles                                                                   | CC-16 |
| 5:00 PM | BB | Anthony Kronfli       | The Role of Glucocorticoid and BDNF Crosstalk in Regulating Serotonin Receptor Expression                                                             | CC-15 |
| 5:00 PM | SS | Joseph Leshin         | Exercise and Psychological Inertia                                                                                                                    | CC-22 |
| 5:00 PM | AB | William Marrero Ortiz | Synthesis of Fluorescent Choline Kinase Inhibitors                                                                                                    | CC-17 |
| 5:00 PM | SS | Paul Muniz            | The Effectiveness of the Distribution of Resources in Law Schools' Public Interest Programs                                                           | CC-26 |
| 5:00 PM | BB | Tyehimba Turner       | Identifying Novel Metabolic Pathways Involved in Rebaudioside A Breakdown and Transport in Wild Type Microbes                                         | CC-14 |
| 5:00 PM | AB | Janice Vicenty        | MARCKS Peptide's Phenylalanine Role in Sensing Membrane Curvature                                                                                     | CC-21 |
| 5:00 PM | SS | Vanessa Vieira        | Investigating the Movement Prediction Function of the Cerebellum                                                                                      | CC-27 |
| 5:00 PM | SS | Kathleen Whiteley     | What the Oral Tradition Means to Contemporary Indigenous Communities: Supporting a UNESCO Grant to Preserve Ojibwe First Nations' Cultural Landscapes | CC-25 |
| 5:15 PM | SS | Devon Brunson         | The Effect of Hearing Modality on Communication Outcomes: Bimodal Hearing versus Bilateral Cochlear Implantation                                      | CC-23 |



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| 5:15 PM | PE | <b>Tahirah Dean</b>       | The Unheard Voice: American Muslims Struggle for Political Inclusion                                                                                                     | CC-26 |
| 5:15 PM | SS | <b>Cayla Echols</b>       | Unveiling the Mechanisms of Race Perception: How Affective Priming Reveals the Effects of Individuation Training on Implicit Prejudice                                   | CC-24 |
| 5:15 PM | SS | <b>Reinalyn Echon</b>     | Thought Speed, Depression, and Goal Pursuit                                                                                                                              | CC-27 |
| 5:15 PM | BB | <b>Shelby Goicochea</b>   | Optimization of Beta-Cyclodextrin Binding to Lipofuscin in Retinal Pigment Epithelium                                                                                    | CC-15 |
| 5:15 PM | BB | <b>Kristen Harris</b>     | Determining the Presence of the Protein Seahorse in the Nucleus                                                                                                          | CC-13 |
| 5:15 PM | AB | <b>Sravanthi Koduri</b>   | Determining the Interaction between CG11025 and dPKD2 in the S2 Cell Line                                                                                                | CC-21 |
| 5:15 PM | BB | <b>Melissa Lester</b>     | Determining if Differences in the Catalytic Activity of Diacylglycerol kinase zeta and alpha Control the Suppression of ERK Phosphorylation in T cell Receptor Signaling | CC-12 |
| 5:15 PM | BB | <b>Rukhinda Maqsood</b>   | Construction of a Constitutive PolIII Vector for Mediating RNA Interference of Developmental Genes in Dictyostelium discoideum                                           | CC-11 |
| 5:15 PM | AB | <b>Allatah Mekile</b>     | The Role of Trim 2 Polymorphisms in Restricting Junín Infection                                                                                                          | CC-17 |
| 5:15 PM | BB | <b>Royce Onyimba</b>      | The Role of TIPE3 in Gut Epithelial Inflammation                                                                                                                         | CC-16 |
| 5:15 PM | BB | <b>Ramon Rodriguez</b>    | Mechanisms of KATP Channel Endocytosis                                                                                                                                   | CC-14 |
| 5:15 PM | HU | <b>Sarah Wellington</b>   | Reclaiming the Sun: Depictions of Female as Sexual and Mythical in Modern Japanese Literature                                                                            | CC-25 |
| 5:30 PM | SS | <b>Emily Bancroft</b>     | The Relationship between Gender and Children's Nonverbal Communication                                                                                                   | CC-25 |
| 5:30 PM | BB | <b>Stephen Bart</b>       | Activation of Strongyloides stercoralis Infective Third-stage Larvae by the cGMP analog 8-bromo-cGMP                                                                     | CC-15 |
| 5:30 PM | AB | <b>Terri Bella</b>        | Characterization of COP1 in Gastrointestinal Stromal Tumor (GIST) Pathogenesis                                                                                           | CC-21 |
| 5:30 PM | SS | <b>Angelica Frausto</b>   | The Effectiveness of Computer-Based Interventions for Depression: A Meta-Analysis                                                                                        | CC-27 |
| 5:30 PM | BB | <b>Lyanne Gomez</b>       | Structural Studies of CTCF                                                                                                                                               | CC-14 |
| 5:30 PM | AB | <b>Darren Gordon</b>      | To Reach Fast or to Reach Slow? That is the Question                                                                                                                     | CC-23 |
| 5:30 PM | BB | <b>Ira Iosub</b>          | The Transcriptional Regulation of Interferon-Stimulated Genes: Elucidating the Mechanisms Involved at the Deacetylation Level                                            | CC-11 |
| 5:30 PM | AB | <b>Quinlyn Little Owl</b> | The Incidents of Radon Level on the Apsaalooke Reservation in Montana                                                                                                    | CC-16 |
| 5:30 PM | AB | <b>Tomas Meijome</b>      | Characterizing Factors of the Melanoma Tumor Microenvironment Involved in Exhaustion of Natural Killer Cells                                                             | CC-12 |
| 5:30 PM | PE | <b>Tyler Moroles</b>      | The Invisible Hand on the American Dream: The IMF's Influence Over Migration to the United States                                                                        | CC-26 |

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| 5:30 PM | SS | <b>Cecelia Oparah</b>       | Race, Identity, and Transnational Connections among the Nigerian Second Generation                                          | CC-24  |
| 5:30 PM | AB | <b>Kelissa Shillingford</b> | Inhibition of Calcineurin by DSCR1 Over-expression or Cyclosporin A and Their Effect on Proliferation via the ras Pathway   | CC-17  |
| 5:30 PM | BB | <b>Angelica Simmons</b>     | Changes in Expression of Equine Genes Involved in Laminitis Pathology                                                       | CC-13  |
| 5:45 PM | AB | <b>Leonela Acosta</b>       | The Role of Nascent Polypeptide-Associated Complex in the Proliferation of the Dengue Virus                                 | CC-17  |
| 5:45 PM | HU | <b>Tiffany Bryan</b>        | Diabetes in the News: Examining how Media Coverage has Shaped African-American Conversations on Health Disparities          | CC-27  |
| 5:45 PM | BB | <b>Dina Dajani</b>          | Molecular Interactions of IQGAP2 and its Role in Mechanosensing                                                             | CC-13  |
| 5:45 PM | SS | <b>Taylor Davine</b>        | Examining the Relationship between Rumination and Perceived Stress among Ethnic Adolescent Females                          | CC-25  |
| 5:45 PM | HU | <b>Hannah Kim</b>           | On the Philosophy of Time: Block Theory and Human Experience                                                                | CC-24  |
| 5:45 PM | PE | <b>Lillie Lattimore</b>     | Why Did the United States Create a Unified Department of Homeland Security after 9/11?                                      | CC-26  |
| 5:45 PM | AB | <b>Laura Leung</b>          | Development of a Rapid Quantification Assay to Measure Target Inhibition in MPN Patient Samples                             | CC-21  |
| 5:45 PM | AB | <b>Marianne Ligon</b>       | In Vitro Tools for Identifying SFB Signals that Stimulate Th17 Cell Development                                             | CC-12  |
| 5:45 PM | AB | <b>Tamir Mickens</b>        | The role of TRPV4 in the Development and Injury of Fetal Type II Epithelial Cells Exposed to Mechanical Stretch             | CC-14  |
| 5:45 PM | BB | <b>Conor Murphy</b>         | Analysis of the J alpha-C alpha Introns Function in Transgenic Mice                                                         | CC-15  |
| 5:45 PM | BB | <b>Osaze Udeagbala</b>      | Real-Time Single-Molecule Visualization of Prokaryotic Transcriptional Regulation                                           | CC- 11 |
| 5:45 PM | AB | <b>Diana Yusim</b>          | Tri-Institutional MD-PhD Program at Weill Cornell/Rockefeller/Sloan-Kettering: Outcome Analysis at 40 Years after Inception | CC-23  |

# ORAL PRESENTATIONS BY ROOM

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|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>CC- 11, AB/BB</b><br><b>Zakiya Whatley, Duke University, 11:15 - 12:30</b>                   |                                                                                                                                          |                 |
| <b>Juan Rivera Correa</b>                                                                       | Interferon-stimulated Genes Restrict Replication of Human Rhinoviruses                                                                   | <b>11:15 AM</b> |
| <b>Stephanie Christie</b>                                                                       | Analyzing the Genetic Variability and Reverse Transcriptase Drug Resistance Mutations in HIV-1 Infected Individuals in Yaounde, Cameroon | <b>11:30 AM</b> |
| <b>Alexander Vega</b>                                                                           | HIV-2 Nucleocapsid Protein                                                                                                               | <b>11:45 AM</b> |
| <b>Dalila Ordonez</b>                                                                           | Potential Antioxidant Effects of SDG Treatment on HIV-mediated Neurotoxicity                                                             | <b>12:00 PM</b> |
| <b>Nathan Lo</b>                                                                                | Immune Complex Vaccine for the Production of Broad Neutralizing Antibodies Against HIV                                                   | <b>12:15 PM</b> |
| <b>Mateo Hernandez</b>                                                                          | Investigation of the HIV-2 5'-Untranslated Region                                                                                        | <b>12:30 PM</b> |
| <b>CC- 11, AB/BB</b><br><b>John Dankart, New York University Sackler Institute, 2:45 - 4:00</b> |                                                                                                                                          |                 |
| <b>Guillaume Roubaix</b>                                                                        | Implication of HPIP in the Chromosome Segregation                                                                                        | <b>2:45 PM</b>  |
| <b>Kristin Ha</b>                                                                               | Localization of the Telomerase RNA in Human Cells                                                                                        | <b>3:00 PM</b>  |
| <b>Talia Guardia</b>                                                                            | Analyzing the Mutations in the TBX5 Gene in Patients with Holt-Oram Syndrome                                                             | <b>3:15 PM</b>  |
| <b>Oluremi Ojo</b>                                                                              | Alternative Lengthening of Telomeres in Embryonic Development                                                                            | <b>3:30 PM</b>  |
| <b>Jie Bin Liu</b>                                                                              | Identification of Clock-controlled mRNAs that Regulate Eclosion Rhythm in the Prothoracic Gland of <i>Drosophila melanogaster</i>        | <b>3:45 PM</b>  |
| <b>Tommaso Lucchesi</b>                                                                         | Impact of Sister Chromatid Cohesion in Telomeric Function in u2os Cells                                                                  | <b>4:00 PM</b>  |
| <b>CC- 11, AB/BB</b><br><b>Teresa Ramirez, Brown University, 4:45 - 5:45</b>                    |                                                                                                                                          |                 |
| <b>Robert Gutierrez</b>                                                                         | Quantitative Measurement of Live Cells and Their Gene Expression                                                                         | <b>4:45 PM</b>  |
| <b>Hugo Jenab</b>                                                                               | An Investigation of Post-Menopausal Cardiovascular Illness through Quantification of Neural Capillaries                                  | <b>5:00 PM</b>  |
| <b>Rukhinda Maqsood</b>                                                                         | Construction of a Constitutive PolIII Vector for Mediating RNA Interference of Developmental Genes in <i>Dictyostelium discoideum</i>    | <b>5:15 PM</b>  |
| <b>Ira Iosub</b>                                                                                | The Transcriptional Regulation of Interferon-Stimulated Genes: Elucidating the Mechanisms Involved at the Deacetylation Level            | <b>5:30 PM</b>  |
| <b>Osaze Udeagbala</b>                                                                          | Real-Time Single-Molecule Visualization of Prokaryotic Transcriptional Regulation                                                        | <b>5:45 PM</b>  |
| <b>CC- 12, AB/BB</b><br><b>Carlos Vera, University of Colorado Boulder, 11:15 - 12:30</b>       |                                                                                                                                          |                 |
| <b>April Sosa</b>                                                                               | Severe Traumatic Brain Injury in Rats Affects Markers of Memory Maintenance and Neurodegeneration                                        | <b>11:15 AM</b> |
| <b>Sarah Lund</b>                                                                               | Induction of Toll-Like Receptor 9 Signaling as a Method for Ameliorating Neuropathology in an Alzheimer's Disease Mouse Model            | <b>11:30 AM</b> |
| <b>Matthew Rollins</b>                                                                          | Effect of SIV in the Brain: Impact of SIV Infection on Neurogenesis in a Pediatric Rhesus Macaque Model                                  | <b>11:45 AM</b> |
| <b>Titilayo Afolabi</b>                                                                         | Effect of Reactive Oxygen Species on TRPM2 Channel in Leading to Alzheimer's Disease                                                     | <b>12:00 PM</b> |
| <b>Danielle Miyagishima</b>                                                                     | Temporal Differentiation of Neocortical Interneuron Progenitor Cells                                                                     | <b>12:15 PM</b> |
| <b>Joshua Moore</b>                                                                             | Determining Cellular Localization of hTDP-43 during Beta-amyloid Plaque Formation                                                        | <b>12:30 PM</b> |

**CC-12, AB/BB****Monique Foster, New York University, 2:45 - 4:00**

|                          |                                                                                                                              |                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Kafi Friday</b>       | The Effect of Prenatal Maternal Immune Activation on Inhibitory Network Activity in Adult Offspring Medial Prefrontal Cortex | <b>2:45 PM</b> |
| <b>Jesus Ayala</b>       | CRH and TRH Expression and Methylation in Preterm Placenta                                                                   | <b>3:00 PM</b> |
| <b>Juan Lopez</b>        | Characterization of the Kinetics of Mutant T178I in Embryonic Myosin                                                         | <b>3:15 PM</b> |
| <b>Mikki Mesfin</b>      | Localizing Expression of c-myc Within the Embryonic Brain                                                                    | <b>3:30 PM</b> |
| <b>Christian Capanna</b> | Effective Osteopontin Concentration for Hydroxyapatite Seeded Growth Inhibition and Its Relative Binding Affinity            | <b>3:45 PM</b> |
| <b>Jamal Bryant</b>      | Measuring Cytosolic Zn Ion Concentrations in Pancreatic Cancer Cells using Genetically Encoded Fluorescent Sensors           | <b>4:00 PM</b> |

**CC-12, AB/BB****Nicole Ramsey, Weill Cornell Medical College, 4:45 - 5:45**

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Yoelkys Morales</b>  | T-Cell Exhaustion in DBA/2 and BALB/c Mice after Infection with Babesia Microti                                                                                          | <b>4:45 PM</b> |
| <b>Maria Bottermann</b> | Characterizing Natural Killer Cell Exhaustion Using an In-vitro Model to Mimic the Environment of Metastatic Melanoma                                                    | <b>5:00 PM</b> |
| <b>Melissa Lester</b>   | Determining if Differences in the Catalytic Activity of Diacylglycerol kinase zeta and alpha Control the Suppression of ERK Phosphorylation in T cell Receptor Signaling | <b>5:15 PM</b> |
| <b>Tomas Meijome</b>    | Characterizing Factors of the Melanoma Tumor Microenvironment Involved in Exhaustion of Natural Killer Cells                                                             | <b>5:30 PM</b> |
| <b>Marianne Ligon</b>   | In vitro Tools for Identifying SFB Signals that Stimulate Th17 Cell Development                                                                                          | <b>5:45 PM</b> |

**CC-13, AB/BB****Noelle Hutchins, Brown University, 11:15 - 12:30**

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|--------------------------|--------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Jessica Cardenas</b>  | Survivin's Role in the Regulated Secretory Pathway for Insulin                                               | <b>11:15 AM</b> |
| <b>Christopher Ecker</b> | Tumor Suppressor APC's Regulation of GSK-3                                                                   | <b>11:30 AM</b> |
| <b>Brian Mbamelu</b>     | A Role for Notch in Traf6 Regulation                                                                         | <b>11:45 AM</b> |
| <b>Melissa Spear</b>     | The Role of Leucine-Rich Repeat (in Flightless I) Interacting Protein-1 in the Wnt/ $\beta$ -catenin Pathway | <b>12:00 PM</b> |
| <b>Blake Scott</b>       | Barx1 and Wnt Signaling: The Characterization of a Homeobox Gene in Gastric Carcinogenesis                   | <b>12:15 PM</b> |
| <b>Emilio Soto</b>       | Epigenetic Regulation of Notch Signaling                                                                     | <b>12:30 PM</b> |

**CC-13, AB/BB****Angel Byrd, Brown University, 2:45 - 4:00**

|                        |                                                                                                     |                |
|------------------------|-----------------------------------------------------------------------------------------------------|----------------|
| <b>Gabriel Marrero</b> | Characterization of Tau Autoantibodies in Human Plasma                                              | <b>2:45 PM</b> |
| <b>Rachel Rudlaff</b>  | Malarial Anemia: The Role of Homeostasis and Autoimmunity                                           | <b>3:00 PM</b> |
| <b>Leslie Brown</b>    | An Examination of Cortisol and Rumination in Pregnant Women                                         | <b>3:15 PM</b> |
| <b>Davis Anugo</b>     | Translational Control in the Mammalian Circadian Clock                                              | <b>3:30 PM</b> |
| <b>Varun Patel</b>     | Intra-Subject Variability in Attention-Deficit Hyperactivity Disorder                               | <b>3:45 PM</b> |
| <b>Shiying Lu</b>      | Does Mediator Complex Subunit 12 Have a Regulatory Role in Hematopoietic Stem Cell Differentiation? | <b>4:00 PM</b> |

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| <b>CC-13, AB/BB</b>                                       |                                                                                                                    |                 |
| <b>Karishma Rahman, New York University, 4:45 - 5:45</b>  |                                                                                                                    |                 |
| <b>Adam Ross</b>                                          | Modifications of Conserved Lysine and Serine Residues Contribute to the Regulatory Activities of Nkx2.2            | <b>4:45 PM</b>  |
| <b>Janae Baptiste</b>                                     | Gene Cloning and Protein Expression of Myristylated Wildtype FIV Matrix Protein Using Human N-myristyl transferase | <b>5:00 PM</b>  |
| <b>Kristen Harris</b>                                     | Determining the Presence of the Protein Seahorse in the Nucleus                                                    | <b>5:15 PM</b>  |
| <b>Angelica Simmons</b>                                   | Changes in Expression of Equine Genes Involved in Laminitis Pathology                                              | <b>5:30 PM</b>  |
| <b>Dina Dajani</b>                                        | Molecular Interactions of IQGAP2 and its Role in Mechanosensing                                                    | <b>5:45 PM</b>  |
| <b>CC-14, AB/BB</b>                                       |                                                                                                                    |                 |
| <b>Sophia Gayle, Yale University, 11:15 - 12:30</b>       |                                                                                                                    |                 |
| <b>Dan Li</b>                                             | SPINK1 Expression in Prostate Cancers and Its Effects on Other Transcriptions Factors                              | <b>11:15 AM</b> |
| <b>Isabel Hinestrosa</b>                                  | Effect of mTORC1/2 Inhibition on T Lymphocyte Responses in a Breast Cancer Mouse Model                             | <b>11:30 AM</b> |
| <b>Michael Okoreeh</b>                                    | Optimizing Biomarkers to Identify MTAP Deficiency in Cancer                                                        | <b>11:45 AM</b> |
| <b>Obed Agyei</b>                                         | Signaling of CCL7 and Its Receptors in the Lung Cancer Progression                                                 | <b>12:00 PM</b> |
| <b>Zollie White III</b>                                   | Cross-Regulation of Activin A and TGF-beta in Breast Cancer                                                        | <b>12:15 PM</b> |
| <b>Melanie Santos-Marrero</b>                             | Does TGF-beta Inhibition Increase Immunogenic Cell Death in Irradiated Cancer Cells?                               | <b>12:30 PM</b> |
| <b>CC-14, AB/BB</b>                                       |                                                                                                                    |                 |
| <b>Princess Gilbert, UCLA, 2:45 - 4:00</b>                |                                                                                                                    |                 |
| <b>Kevin Alicea Torres</b>                                | Identification and Characterization of Contact-Dependent Interactions in Platelets                                 | <b>2:45 PM</b>  |
| <b>Nilsa Jenkins Luna</b>                                 | Investigating the Regulatory Role of MicroRNAs in the Life Span of C. elegans                                      | <b>3:00 PM</b>  |
| <b>Sarah Leone</b>                                        | Analysis of Midbody Remnant Internalization During Caenorhabditis elegans Embryogenesis                            | <b>3:15 PM</b>  |
| <b>Joshua Kogan</b>                                       | Caenorhabditis elegans as a Model for Inducing Cell Death in Germline Tumors                                       | <b>3:30 PM</b>  |
| <b>Claudia Lanauze</b>                                    | Saturation Screens to Uncover Genes that Affect Excretory (Renal) Tube Development in C. elegans                   | <b>3:45 PM</b>  |
| <b>Jorge Rosario</b>                                      | Development of Novel RNA Delivery Method via Self-Assembled Nanopieces                                             | <b>4:00 PM</b>  |
| <b>CC-14, AB/BB</b>                                       |                                                                                                                    |                 |
| <b>Kathia Cordero, Loma Linda University, 4:45 - 5:45</b> |                                                                                                                    |                 |
| <b>Hudson Stoner</b>                                      | Gamma Sarcoglycan-mediated Signal Transduction in Skeletal Muscle                                                  | <b>4:45 PM</b>  |
| <b>Tyehimba Turner</b>                                    | Identifying Novel Metabolic Pathways Involved in Rebaudioside A Breakdown and Transport in Wild Type Microbes      | <b>5:00 PM</b>  |
| <b>Ramon Rodriguez</b>                                    | Mechanisms of KATP Channel Endocytosis                                                                             | <b>5:15 PM</b>  |
| <b>Lyanne Gomez</b>                                       | Structural Studies of CTCF                                                                                         | <b>5:30 PM</b>  |
| <b>Tamir Mickens</b>                                      | The Role of TRPV4 in the Development and Injury of Fetal Type II Epithelial Cells Exposed to Mechanical Stretch    | <b>5:45 PM</b>  |

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| <b>CC-15, AB/BB</b><br><b>Mitra Miri, Yale University, 11:15 - 12:30</b>                 |                                                                                                                                                                      |                 |
| <b>Marcos Villarreal</b>                                                                 | How Mycobacterium vaccae May Cure Chronic Depression                                                                                                                 | <b>11:15 AM</b> |
| <b>Brian Brown</b>                                                                       | Presence of a Putative Virulence Factor, sasX, in Methicillin-Resistant Staphylococcus aureus from Nosocomial Pneumonia                                              | <b>11:30 AM</b> |
| <b>Xiang Liu</b>                                                                         | Elucidating how Staphylococcus aureus Leukotoxin AB Targets and Kills Mammalian Cell through Structure-function Analysis                                             | <b>11:45 AM</b> |
| <b>Anthony Scruse</b>                                                                    | An Exploration of Peptidomimicry by an Antibacterial Natural Product                                                                                                 | <b>12:00 PM</b> |
| <b>Lina Sanchez</b>                                                                      | Survival of Host-Passaged Vibrio cholerae Under Various Stress Conditions                                                                                            | <b>12:15 PM</b> |
| <b>Cristhian Cadena</b>                                                                  | Detection of Defective Interfering (DI) Particles of Bovine Respiratory Syncytial Virus (BRSV), Canine Distemper Virus (CDV), and Sendai Virus (SeV) in Lung Tissues | <b>12:30 PM</b> |
| <b>CC-15, AB/BB</b><br><b>Ciara Torres, Columbia University, 2:45 - 4:00</b>             |                                                                                                                                                                      |                 |
| <b>Jessica Morgan</b>                                                                    | The Kinesin II Family Motor Protein, KIF17, Contributes to Microtubule Stabilization and Actin Polymerization in Epithelial Cells                                    | <b>2:45 PM</b>  |
| <b>Nelson LaMarche</b>                                                                   | Characterization of Myosin Dynamics in a Drosophila Germband Extension Mutant                                                                                        | <b>3:00 PM</b>  |
| <b>Danielle Cicka</b>                                                                    | The Overexpression of the Myopathic Matrin-3 S85C Mutant in C2C12 Myogenic Cells                                                                                     | <b>3:15 PM</b>  |
| <b>Marimar Benitez</b>                                                                   | Exploiting 89Zr-transferrin PET as a Biomarker of Response to Therapies that Inhibit MYC Function                                                                    | <b>3:30 PM</b>  |
| <b>Ashley Diaz</b>                                                                       | The Role of Presenilin-1 (PSEN-1) in Surfactant Production in Type II Lung Epithelial Cells                                                                          | <b>3:45 PM</b>  |
| <b>Nicholas Hernandez</b>                                                                | Localization and Trafficking of Phosphorylated BACE1 in the Endocytic Pathway                                                                                        | <b>4:00 PM</b>  |
| <b>CC-15, AB/BB</b><br><b>Katie Litts, University of Alabama-Birmingham, 4:45 - 5:45</b> |                                                                                                                                                                      |                 |
| <b>Niambi Brewer</b>                                                                     | Identification of Additional Lipid Regulators that Contribute to Primordial Germ Cell Migration in Drosophila                                                        | <b>4:45 PM</b>  |
| <b>Anthony Kronfli</b>                                                                   | The Role of Glucocorticoid and BDNF Crosstalk in Regulating Serotonin Receptor Expression                                                                            | <b>5:00 PM</b>  |
| <b>Shelby Goicochea</b>                                                                  | Optimization of Beta-Cyclodextrin Binding to Lipofuscin in Retinal Pigment Epithelium                                                                                | <b>5:15 PM</b>  |
| <b>Stephen Bart</b>                                                                      | Activation of Strongyloides stercoralis Infective Third-stage Larvae by the cGMP analog 8-bromo-cGMP                                                                 | <b>5:30 PM</b>  |
| <b>Conor Murphy</b>                                                                      | Analysis of the J alpha-C alpha Introns Function in Transgenic Mice                                                                                                  | <b>5:45 PM</b>  |

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| <b>CC-16, AB/BB</b><br><b>Diana Lizarazo, Brown University, 11:15 - 12:30</b>                                  |                                                                                                                                                                                  |          |
| David Leon                                                                                                     | Gastric Band Release Rapidly Impacts Eating Behavior, Satiety Hormones and Weight                                                                                                | 11:15 AM |
| Jorge Zarate Rodriguez                                                                                         | Sub-therapeutic Antibiotic Treatment and High Fat Diet Alter Murine Body Composition                                                                                             | 11:30 AM |
| Anthony Rivera                                                                                                 | Survey of Time Budgeting and Feeding Preferences in Black-tailed Prairie Dogs                                                                                                    | 11:45 AM |
| Daniel Latimer                                                                                                 | Loss of Anthrax Toxin Receptors in Mice leads to Deficient MT1-MMP Activity and may cause Failure to Thrive due to Defective Gastrointestinal Function                           | 12:00 PM |
| Emmanuel Quaidoo                                                                                               | Optogenetic Stimulation of the BNST in Mice Induces Feeding                                                                                                                      | 12:15 PM |
| Stephanie Ortiz                                                                                                | cFos Immunoreactivity as a Result of Maternal Malnutrition and Stress                                                                                                            | 12:30 PM |
| <b>CC-16, AB/BB</b><br><b>Erin Shoemaker, Dartmouth College, 2:45 - 4:00</b>                                   |                                                                                                                                                                                  |          |
| Amanda Buch                                                                                                    | Understanding the Role of Rab-3 in Synaptic Vessicle Exocytosis                                                                                                                  | 2:45 PM  |
| Joseph Behnke                                                                                                  | The Effects of Ketamine on Synaptic Plasticity                                                                                                                                   | 3:00 PM  |
| Netanel Ghatan                                                                                                 | In Search of Neural Syntax in the Hippocampus                                                                                                                                    | 3:15 PM  |
| Felix Reyes                                                                                                    | Temporal Variables in Dopaminergic-mediated Plasticity of Auditory Cortical Circuits                                                                                             | 3:30 PM  |
| Patricia Mae Santos                                                                                            | Identifying RNA Sequestered by Pathologic TDP43 in Frontotemporal Lobar Dementia and Amyotrophic Lateral Sclerosis                                                               | 3:45 PM  |
| Stacy Christopher                                                                                              | The Role Of FGF8 and FGFR1 in Mouse Hypothalamic Development                                                                                                                     | 4:00 PM  |
| <b>CC-16, AB/BB</b><br><b>Jessian Munoz, University of Medicine &amp; Dentistry of New Jersey, 4:45 - 5:30</b> |                                                                                                                                                                                  |          |
| Christy Taylor                                                                                                 | An Investigation of the Molecular and Mechanical Regulation of Cell Migration in Drosophila                                                                                      | 4:45 PM  |
| Maria Jones                                                                                                    | Multimodal Control of Orientation Under Conditions of Toxicity in Bullfrog Tadpoles                                                                                              | 5:00 PM  |
| Royce Onyimba                                                                                                  | The Role of TIPE3 in Gut Epithelial Inflammation                                                                                                                                 | 5:15 PM  |
| Quinlyn Little Owl                                                                                             | The Incidents of Radon Level on the Apsaalooke Reservation in Montana                                                                                                            | 5:30 PM  |
| <b>CC-17, AB/BB</b><br><b>Joshua Schwartz, Johns Hopkins University, 11:15 - 12:30</b>                         |                                                                                                                                                                                  |          |
| Stephanie Rivera                                                                                               | The Role of HDAC6 on Cigarette Smoke-Induced Endothelial Barrier Dysfunction and Deacetylation of $\alpha$ -Tubulin                                                              | 11:15 AM |
| Roderick King                                                                                                  | The Role of PKMzeta in the Reinstatement of Cocaine Seeking                                                                                                                      | 11:30 AM |
| Jordan Encarnacion                                                                                             | Sex Differences in FosB Expression after Acute Administration of Cocaine, Methamphetamine, and Cannabinoids (WIN-55) in the Prefrontal Cortex of Rats                            | 11:45 AM |
| Estee Rubien-Thomas                                                                                            | Cognitive and Neuroplastic Effects of Chronic Morphine and Morphine Withdrawal in Mice                                                                                           | 12:00 PM |
| Emily Fernández García                                                                                         | Characterization of $\alpha 4\beta 2$ and $\alpha 7$ nAChRs as Therapeutic Targets for the Development of Nicotine Cessation Treatments that Alleviate Anxiety During Withdrawal | 12:15 PM |
| Aparecio Peggins                                                                                               | Cocaine Use Reduction with Buprenorphine - CURB                                                                                                                                  | 12:30 PM |



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| <b>CC-17, AB/BB</b><br><b>Kareem Rumah, Weill Cornell Medical College, 2:45 - 4:00</b>  |                                                                                                                                                                                         |                 |
| <b>Rachel Foster</b>                                                                    | Hippocampal Brain-Derived Neurotrophic Factor Expression in Response to Alcohol Consumption and Voluntary Exercise                                                                      | <b>2:45 PM</b>  |
| <b>Gina Calco</b>                                                                       | Distinct and Additive Contributions of Thiamine Deficiency in an Experimental Model of Alcohol-Related Neurodegeneration                                                                | <b>3:00 PM</b>  |
| <b>Jonathan Cohen</b>                                                                   | Ethanol Inhibition of Adenylate Cyclase Decreases the Phosphorylation State of Alpha 7 Nicotinic Acetylcholine Receptors                                                                | <b>3:15 PM</b>  |
| <b>Rebecca Betances</b>                                                                 | MiRNA-17-92 Cluster Controls the Differentiation of Subcerebral Projection Neurons by Targeting Transcription Factor Ctip2                                                              | <b>3:30 PM</b>  |
| <b>Veronica Parra</b>                                                                   | The Identification of Inhibitory Beta-Amyloid Compounds Using a High-Throughput Assay                                                                                                   | <b>3:45 PM</b>  |
| <b>Clara Woods</b>                                                                      | Effects of Hypertension on the Subcellular Density of the NMDA Receptor in Corticotropin Releasing Factor Type 1 Receptor Containing Neurons in the Mouse Rostral Ventrolateral Medulla | <b>4:00 PM</b>  |
| <b>CC-17, AB/BB</b><br><b>Joan Marcano, University of Colorado Boulder, 4:45 - 5:45</b> |                                                                                                                                                                                         |                 |
| <b>Martha Dua-Awereh</b>                                                                | Activation of STAT-5 by the Extracellular Factor Neuromedin U is JAK2-dependent                                                                                                         | <b>4:45 PM</b>  |
| <b>William Marrero Ortiz</b>                                                            | Synthesis of Fluorescent Choline Kinase Inhibitors                                                                                                                                      | <b>5:00 PM</b>  |
| <b>Allatah Mekile</b>                                                                   | The Role of Trim 2 Polymorphisms in Restricting Junin Infection                                                                                                                         | <b>5:15 PM</b>  |
| <b>Kelissa Shillingford</b>                                                             | Inhibition of Calcineurin by DSCR1 Over-expression or Cyclosporin A and Their Effect on Proliferation via the ras Pathway                                                               | <b>5:30 PM</b>  |
| <b>Leonela Acosta</b>                                                                   | The Role of Nascent Polypeptide-Associated Complex in the Proliferation of the Dengue Virus                                                                                             | <b>5:45 PM</b>  |
| <b>CC-21, PS/EN/ES</b><br><b>George Aninwene II, Brown University, 11:15 - 12:30</b>    |                                                                                                                                                                                         |                 |
| <b>Johanna Nifosi</b>                                                                   | Measuring Immune Development in Larval Amphibians to Understand Age-Dependent Susceptibility to Infection by <i>Riberoia ondatrae</i> (Class Trematoda)                                 | <b>11:15 AM</b> |
| <b>Legna Figueroa-Cosme</b>                                                             | Formation of Silver Secondary Particles in Solution Phase                                                                                                                               | <b>11:30 AM</b> |
| <b>Candy Reid</b>                                                                       | Design and Fabrication of a High Throughput Combinatorial Electrochemical Testing System                                                                                                | <b>11:45 AM</b> |
| <b>Christian Hernandez</b>                                                              | Centrifuge Testing to Evaluate Seismic Lateral Earth Pressures on Buried Reservoirs                                                                                                     | <b>12:00 PM</b> |
| <b>Peter Vitale</b>                                                                     | Chemistry of Graphene Oxide                                                                                                                                                             | <b>12:15 PM</b> |
| <b>Jade Bing</b>                                                                        | Application of PCET Towards the Formation of Radical Intermediates and Carbon-carbon Bonds                                                                                              | <b>12:30 PM</b> |
| <b>CC-21, PS/EN/ES</b><br><b>David Stout, Brown University, 2:45 - 4:00</b>             |                                                                                                                                                                                         |                 |
| <b>Kaitlyn Jeanis</b>                                                                   | A Study of MS2 Molecular Damage Due to Wavelength Specific UV Irradiation                                                                                                               | <b>2:45 PM</b>  |
| <b>Julie Walker</b>                                                                     | A Fingertip Haptic Feedback Device for Remote Palpation with a BioTac Sensor                                                                                                            | <b>3:00 PM</b>  |
| <b>Sandya Lakkur</b>                                                                    | Data Mining of the Human Microbiome                                                                                                                                                     | <b>3:15 PM</b>  |
| <b>Megan Cherry</b>                                                                     | Integrated Network Approaches to Understanding Indirect Transcription Factor Interactions Associated with Variants of the Mediator Complex                                              | <b>3:30 PM</b>  |
| <b>Candace Ghent</b>                                                                    | Exploring the Mediator Complex using Functional Similarity of Proteins                                                                                                                  | <b>3:45 PM</b>  |
| <b>Arnaud Konan</b>                                                                     | Analysis of Spatial Correlation in Shotgun Cellular System                                                                                                                              | <b>4:00 PM</b>  |

**CC-21, AB/BB****Jenniffer Stetler, University of Missouri-Columbia, 4:45 - 5:45**

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| <b>Jaimie Stewart</b>   | Enzyme-Degradable Hydrogel System Modeled by Microparticles                                     | <b>4:45 PM</b> |
| <b>Janice Vicenty</b>   | MARCKS Peptide's Phenylalanine Role in Sensing Membrane Curvature                               | <b>5:00 PM</b> |
| <b>Sravanthi Koduri</b> | Determining the Interaction between CG1025 and dPKD2 in the S2 Cell Line                        | <b>5:15 PM</b> |
| <b>Terri Bella</b>      | Characterization of COP1 in Gastrointestinal Stromal Tumor (GIST) Pathogenesis                  | <b>5:30 PM</b> |
| <b>Laura Leung</b>      | Development of a Rapid Quantification Assay to Measure Target Inhibition in MPN Patient Samples | <b>5:45 PM</b> |

**CC-22, PS/EN/ES****David Stout, Brown University, 11:15 - 12:30**

|                        |                                                                                                                               |                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Madison Calhoun</b> | Polyelectrolyte Adsorption onto Carbon Nanotube Surfaces Under Applied Potential                                              | <b>11:15 AM</b> |
| <b>Brittany Rauzan</b> | Soft Nanoimprint Lithography Using Bulk Metallic Glass for Fabrication of Polymer-Based Solar Cells with Enhanced Performance | <b>11:30 AM</b> |
| <b>Marc Castro</b>     | Traveling-Wave Metal-Insulator-Metal Diode for Terahertz Conversion                                                           | <b>11:45 AM</b> |
| <b>Ivan Bukreyev</b>   | Structure and Ordering of Nickelate Superlattices                                                                             | <b>12:00 PM</b> |
| <b>Mark Davis</b>      | Imaging Monolayer ZrO <sub>2</sub> on a Si Substrate                                                                          | <b>12:15 PM</b> |
| <b>Benjamin Pollak</b> | Nonpolymorphic Phase Transitions in Bulk Metallic Glasses                                                                     | <b>12:30 PM</b> |

**CC-22, PS/EN/ES****Joslynn Lee, Northeastern University, 2:45 - 4:00**

|                                 |                                                                                                               |                |
|---------------------------------|---------------------------------------------------------------------------------------------------------------|----------------|
| <b>Elena Baluyut</b>            | Using InSAR to Analyze the Effects of Oil Extraction on Kuparuk Oil Field                                     | <b>2:45 PM</b> |
| <b>Alex Holness</b>             | Tracking Humans during Flocking Experiments: Determining Leadership and How it Relates to Centrality Measures | <b>3:00 PM</b> |
| <b>Dante' Johnson</b>           | Activate Your Anxiety Network                                                                                 | <b>3:15 PM</b> |
| <b>LaTonya Simon</b>            | Directing Motor Axon Outgrowth Using Hydrogels                                                                | <b>3:30 PM</b> |
| <b>Emile Vieta</b>              | Silver Nanoparticle-based Imaging Agents for Breast X-ray Imaging                                             | <b>3:45 PM</b> |
| <b>Christopher Duncan-Lewis</b> | Cell Viability and Morphology on Nanopatterned Bulk Metallic Glass Surfaces                                   | <b>4:00 PM</b> |

**CC-22, HU/SS/PE****Teresa Nguyen, University of Michigan-Ann Arbor, 4:45 - 5:00**

|                       |                                                                                                       |                |
|-----------------------|-------------------------------------------------------------------------------------------------------|----------------|
| <b>Carlos Puentes</b> | Predicting the Benefit of Antidepressant Medication Relative to Placebo Using Patient Characteristics | <b>4:45 PM</b> |
| <b>Joseph Leshin</b>  | Exercise and Psychological Inertia                                                                    | <b>5:00 PM</b> |

**CC-23, PS/EN/ES****Cristina Lopez-Fagundo, Brown University, 11:15 - 12:30**

|                          |                                                                                 |                 |
|--------------------------|---------------------------------------------------------------------------------|-----------------|
| <b>Elvia Cortes</b>      | Modular BoxWing UAV                                                             | <b>11:15 AM</b> |
| <b>Rene Farfan</b>       | Realization of Periodic Metamaterials to Practical Three-Dimensional Structures | <b>11:30 AM</b> |
| <b>Javier Barranco</b>   | Image Quality Assessment For Compress Sensing Reconstruction                    | <b>11:45 AM</b> |
| <b>Tashalee Billings</b> | Using CMB Polarization to Trace E-Fields and B-Fields                           | <b>12:00 PM</b> |
| <b>Mamikon Gulian</b>    | Well-posedness for a Perturbed KdV Equation                                     | <b>12:15 PM</b> |
| <b>Noor Tell</b>         | Calculating Surface Area of Fractal Bacterial Flocs                             | <b>12:30 PM</b> |

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|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>CC-23, AB/BB</b><br><b>Nyamekye Obeng-Adjei, University of Pennsylvania, 2:45 - 3:45</b> |                                                                                                                                               |                 |
| <b>Kelsey Maness</b>                                                                        | Mechanism of Inflammation Stimulation by <i>Listeria monocytogenes</i> in Human Myeloid Dendritic Cells                                       | <b>2:45 PM</b>  |
| <b>Kristy Mungal</b>                                                                        | Non-Invasive in vivo Imaging of a Subcutaneous Melanoma Model Provides an In-depth View of Tumor Growth Dynamics                              | <b>3:00 PM</b>  |
| <b>Krystina Quow</b>                                                                        | Sperm Cell Transfer and Automated Sperm Search Using Laser Microdissection                                                                    | <b>3:15 PM</b>  |
| <b>Charrise Ramkissoon</b>                                                                  | Validation of IVIM-DWI Diffusion Parameters through Histology Quantification                                                                  | <b>3:30 PM</b>  |
| <b>Lizzette Castillo</b>                                                                    | Hi-Fidelity Recovery of Bioaerosols DNA                                                                                                       | <b>3:45 PM</b>  |
| <b>CC-23, AB/BB</b><br><b>Kelsie Kelly, University of Virginia, 4:45 - 5:45</b>             |                                                                                                                                               |                 |
| <b>Isaiah Sypher</b>                                                                        | Analyzing Motivational Factors in Depression                                                                                                  | <b>4:45 PM</b>  |
| <b>James Alaniz</b>                                                                         | A Novel Touch-Screen Based Behavioral Interaction System                                                                                      | <b>5:00 PM</b>  |
| <b>Devon Brunson</b>                                                                        | The Effect of Hearing Modality on Communication Outcomes: Bimodal Hearing versus Bilateral Cochlear Implantation                              | <b>5:15 PM</b>  |
| <b>Darren Gordon</b>                                                                        | To Reach Fast or to Reach Slow? That is the Question                                                                                          | <b>5:30 PM</b>  |
| <b>Diana Yusim</b>                                                                          | Tri-Institutional MD-PhD Program at Weill Cornell/Rockefeller/Sloan-Kettering: Outcome Analysis at 40 Years after Inception                   | <b>5:45 PM</b>  |
| <b>CC-24, HU/SS/PE</b><br><b>Natassia Rodriguez, Stanford University, 11:15 - 12:30</b>     |                                                                                                                                               |                 |
| <b>Rebecca Denton</b>                                                                       | Oriental Objects: Silks, Sultans, and the Threat to "Englishness" in <i>Jane Eyre</i>                                                         | <b>11:15 AM</b> |
| <b>Roberto Rodriguez</b>                                                                    | Violent Inscriptions, Psychic Wounds: Politics, Violence, Psychosis in Horacio Castellano Moya's <i>Insensatez</i>                            | <b>11:30 AM</b> |
| <b>Kyle Gipson</b>                                                                          | The Contours of the New World: The Problem of Particularity in Richard Wright's <i>Native Son</i>                                             | <b>11:45 AM</b> |
| <b>Leah Barlow</b>                                                                          | Locating the Human in South African Literature: Formalism in J.M. Coetzee's <i>Disgrace</i> and Nadine Gordimer's <i>None to Accompany Me</i> | <b>12:00 PM</b> |
| <b>Terrel Champion</b>                                                                      | A Merciful Re-Envisioning of Race and Capitalism: Morrison and Postmodernism                                                                  | <b>12:15 PM</b> |
| <b>Norrell Edwards</b>                                                                      | What is African American Literature? An Analysis and Critique of Kenneth Warren's Argument on the Death of African American Literature        | <b>12:30 PM</b> |
| <b>CC-24, HU/SS/PE</b><br><b>James Roane, Columbia University, 2:45 - 4:00</b>              |                                                                                                                                               |                 |
| <b>Jessica Mendez</b>                                                                       | Revolutionary Women in the Young Lords Party: Radical Internationalism, Black Power and Feminism, 1968-1974                                   | <b>2:45 PM</b>  |
| <b>Sara Harris</b>                                                                          | Mothers' Co-Residence with Children in Lesotho: Changing the Perspective                                                                      | <b>3:00 PM</b>  |
| <b>Guy Sakamoto</b>                                                                         | A Systematic Review of Research on the Consequences of Maternal Incarceration for Children                                                    | <b>3:15 PM</b>  |
| <b>Emilce Santana</b>                                                                       | Re-examining the Educational Outcomes of U.S. Hispanic/Latino Children of Immigrants                                                          | <b>3:30 PM</b>  |
| <b>Jasmine Whiteside</b>                                                                    | What If I Think I Can? Understanding the Impact of Positive Thinking on the Future Success of Children in Rural China                         | <b>3:45 PM</b>  |
| <b>Christina Williams</b>                                                                   | U.S. Foreign Policy Towards Latin America: Pursuing the National Interest (Or Not?)                                                           | <b>4:00 PM</b>  |

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|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>CC-24, HU/SS/PE</b>                                      |                                                                                                                                                       |                 |
| <b>Angela White, University of Connecticut, 4:45 - 5:45</b> |                                                                                                                                                       |                 |
| <b>Danielle Callendar</b>                                   | Check your Privilege: Black Women's Resistance of White Cultural Privileging in Elite Colleges                                                        | <b>4:45 PM</b>  |
| <b>Akia Jackson</b>                                         | The Effects of Slavery on Children's Perspectives Toward Skin Color                                                                                   | <b>5:00 PM</b>  |
| <b>Cayla Echols</b>                                         | Unveiling the Mechanisms of Race Perception: How Affective Priming Reveals the Effects of Individuation Training on Implicit Prejudice                | <b>5:15 PM</b>  |
| <b>Cecelia Oparah</b>                                       | Race, Identity, and Transnational Connections among the Nigerian Second Generation                                                                    | <b>5:30 PM</b>  |
| <b>Hannah Kim</b>                                           | On the Philosophy of Time: Block Theory and Human Experience                                                                                          | <b>5:45 PM</b>  |
| <b>CC- 25, HU/SS/PE</b>                                     |                                                                                                                                                       |                 |
| <b>Andrew Hao, UC Berkeley, 11:15 - 12:15</b>               |                                                                                                                                                       |                 |
| <b>Hadiya Jones</b>                                         | Social Media, Awkward Black Girl, and Alternative Images of Blackness                                                                                 | <b>11:15 AM</b> |
| <b>Alexander Catchings</b>                                  | The Neo-Slave Narrative's Utility as an Aesthetic of Humor and National Ethic                                                                         | <b>11:30 AM</b> |
| <b>Jessica Cottrell</b>                                     | Implications of the Black Male Body: An Analysis of the Societal Texts for the Young African American Male                                            | <b>11:45 AM</b> |
| <b>Christine Semple</b>                                     | The Cool: Blackface, Hip hop, and Geishas                                                                                                             | <b>12:00 PM</b> |
| <b>Omar Davila Jr</b>                                       | The Impact of Feeling Understood and Validated on Student Performance                                                                                 | <b>12:15 PM</b> |
| <b>CC-25, HU/SS/PE</b>                                      |                                                                                                                                                       |                 |
| <b>Daisy Camacho, UCLA, 2:45 - 4:00</b>                     |                                                                                                                                                       |                 |
| <b>Darren Esparza</b>                                       | DREAMers or Immigrants? A Textual Analysis of President Obama's Support for the DREAM Act                                                             | <b>2:45 PM</b>  |
| <b>Jasmine Benjamin</b>                                     | Race Negotiation among Black Republican Congressmen                                                                                                   | <b>3:00 PM</b>  |
| <b>Olamide Williams</b>                                     | Wilsonian Foreign Policy and the Paradox of Globalization                                                                                             | <b>3:15 PM</b>  |
| <b>Cynthia Villacis</b>                                     | Partisan Taunting in Congress                                                                                                                         | <b>3:30 PM</b>  |
| <b>Glenda Ullauri</b>                                       | Global Environmentalism in the Rio+20 Conference: Political Crisis in the Making of a Sustainable Future                                              | <b>3:45 PM</b>  |
| <b>Selena Crowley</b>                                       | Native Nations' Allocation of Resources: Link to Development                                                                                          | <b>4:00 PM</b>  |
| <b>CC-25, HU/SS/PE</b>                                      |                                                                                                                                                       |                 |
| <b>Andrea Fowler, Arizona State University, 4:45 - 5:45</b> |                                                                                                                                                       |                 |
| <b>Melissa Powell</b>                                       | Private Speech During Delay of Gratification                                                                                                          | <b>4:45 PM</b>  |
| <b>Kathleen Whiteley</b>                                    | What the Oral Tradition Means to Contemporary Indigenous Communities: Supporting a UNESCO Grant to Preserve Ojibwe First Nations' Cultural Landscapes | <b>5:00 PM</b>  |
| <b>Sarah Wellington</b>                                     | Reclaiming the Sun: Depictions of Female as Sexual and Mythical in Modern Japanese Literature                                                         | <b>5:15 PM</b>  |
| <b>Emily Bancroft</b>                                       | The Relationship between Gender and Children's Nonverbal Communication                                                                                | <b>5:30 PM</b>  |
| <b>Taylor Davine</b>                                        | Examining the Relationship Between Rumination and Perceived Stress Among Ethnic Adolescent Females                                                    | <b>5:45 PM</b>  |

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| <b>CC-26, HU/SS/PE</b><br><b>Amber Spry, Columbia University, 11:15 - 12:30</b>                 |                                                                                                                                                   |                 |
| <b>Brooke Thomas</b>                                                                            | Substance Over Style: Reconsidering Chicago's Black Elite between 1930-1960                                                                       | <b>11:15 AM</b> |
| <b>Camille Suarez</b>                                                                           | The NAACP and the Origin of Cold War Civil Rights: The Effect of Cold War Federal Policy on the Civil Rights Movement, 1945-1948                  | <b>11:30 AM</b> |
| <b>Robin Ayers</b>                                                                              | With all Deliberate Speed: A Historical Analysis of the Factors which Led to Emory University's Desegregation                                     | <b>11:45 AM</b> |
| <b>Anairis Perez</b>                                                                            | Linked Struggle: Finding Community through Art History                                                                                            | <b>12:00 PM</b> |
| <b>Paul Tran</b>                                                                                | Standing on the Edge of Each Other's Battles: Race, Higher Education, & the Third World Freedom Struggle, 1976-1996                               | <b>12:15 PM</b> |
| <b>Sean McAdams Luna</b>                                                                        | Public Opinion Change in the Transnational Context: The Link Between Social Change and Migrant Networks                                           | <b>12:30 PM</b> |
| <b>CC-26, HU/SS/EE</b><br><b>Colleen Tripp, Brown University, 2:45 - 3:45</b>                   |                                                                                                                                                   |                 |
| <b>Jonathon Savage</b>                                                                          | Product Place(ment): Spatial Branding and the Unfamiliar Geography of Materialism in Don DeLillo and Colson Whitehead                             | <b>2:45 PM</b>  |
| <b>Bretney Moore</b>                                                                            | Rigidity Means Death: Intersections in the Work of Bessie Head and Gloria Anzaldua                                                                | <b>3:00 PM</b>  |
| <b>Shelby Lohr</b>                                                                              | The Evolution of Evangelicalism through Early American Texts                                                                                      | <b>3:15 PM</b>  |
| <b>Kamaria Beamon</b>                                                                           | Aspects of Identity in Teaching Practices: Case Study of Travis Plume                                                                             | <b>3:30 PM</b>  |
| <b>Thekia Cheeseborough</b>                                                                     | Humans Are Animals Too: Exploring How Persons Assert Themselves After Being Dehumanized                                                           | <b>3:45 PM</b>  |
| <b>CC- 26, HU/SS/PE</b><br><b>Amber Williams, University of Michigan-Ann Arbor, 4:45 - 5:45</b> |                                                                                                                                                   |                 |
| <b>Emily Jenab</b>                                                                              | The Benefits of Mindfulness for At-Risk High School Students                                                                                      | <b>4:45 PM</b>  |
| <b>Paul Muniz</b>                                                                               | The Effectiveness of the Distribution of Resources in Law Schools' Public Interest Programs                                                       | <b>5:00 PM</b>  |
| <b>Tahirah Dean</b>                                                                             | The Unheard Voice: American Muslims Struggle for Political Inclusion                                                                              | <b>5:15 PM</b>  |
| <b>Tyler Moroles</b>                                                                            | The Invisible Hand on the American Dream: The IMF's Influence Over Migration to the United States                                                 | <b>5:30 PM</b>  |
| <b>Lillie Lattimore</b>                                                                         | Why Did the United States Create a Unified Department of Homeland Security after 9/11?                                                            | <b>5:45 PM</b>  |
| <b>CC-27, HU/SS/PE</b><br><b>Eric Glover, Princeton University, 2:45 - 3:45</b>                 |                                                                                                                                                   |                 |
| <b>Janelle White</b>                                                                            | Intra-Racial Stratification in Chicago During the Civil Rights Era: The Role of Public Education                                                  | <b>11:15 AM</b> |
| <b>Mack Curry IV</b>                                                                            | The Study of Black English Vernacular: Its Usage in Literature and Music, and the Incorporation of This Dialect into English Teaching Curriculums | <b>11:30 AM</b> |
| <b>Chloe Edmonds</b>                                                                            | Education and Violence: Children, Schooling, and Genocide in Germany and Rwanda                                                                   | <b>11:45 AM</b> |
| <b>Bailey Brown</b>                                                                             | Why Link Communities to Schools? Rethinking the Community-School Dynamic                                                                          | <b>12:00 PM</b> |
| <b>Mark Harris</b>                                                                              | College Is for Me: Educational Socialization of African American Adolescent Males and Its Impact on Their College Matriculation                   | <b>12:15 PM</b> |
| <b>David Turner III</b>                                                                         | Minority Students, Financial Aid, and the Finish Line: College Access and Completion in Texas                                                     | <b>12:30 PM</b> |

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| <b>CC-27, HU/SS/PE</b><br><b>Helen Pu, Tufts University, 2:45-4:00</b> |                                                                                                                                      |                |
| <b>Chevon Holmes</b>                                                   | The Turnpike Era and Farming in Colonial New England 1750-1850: A Time of Economic Transition or Transformation to a Market-Economy? | <b>2:45 PM</b> |
| <b>Theresa Henry</b>                                                   | Development Accounting Revisited                                                                                                     | <b>3:00 PM</b> |
| <b>Shantel Campbell</b>                                                | The Clock is Ticking & Money is Running Out: How Scarcity of Time & Resources Affect Buyer Behavior                                  | <b>3:15 PM</b> |
| <b>Tazmin Falan</b>                                                    | Do Questionnaire Measures of Children's Prosocial Behavior Predict Altruism in the Dictator Game?                                    | <b>3:30 PM</b> |
| <b>Elizabeth Kang</b>                                                  | Power in the Workplace                                                                                                               | <b>3:45 PM</b> |
| <b>Tomas Nivon</b>                                                     | Bankruptcy Distress Cost Analysis with Derivatives                                                                                   | <b>4:00 PM</b> |

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| <b>CC- 27HU/SS/PE</b><br><b>Marcus Hines, New York University, 4:45-5:45</b> |                                                                                                                    |                |
| <b>Christine Wu</b>                                                          | Subcomponents of Negative Affect and Cortisol Reactivity                                                           | <b>4:45 PM</b> |
| <b>Vanessa Vieira</b>                                                        | Investigating the Movement Prediction Function of the Cerebellum                                                   | <b>5:00 PM</b> |
| <b>Reinalyn Echon</b>                                                        | Thought Speed, Depression, and Goal Pursuit                                                                        | <b>5:15 PM</b> |
| <b>Angelica Frausto</b>                                                      | The Effectiveness of Computer-Based Interventions for Depression: A Meta-Analysis                                  | <b>5:30 PM</b> |
| <b>Tiffany Bryan</b>                                                         | Diabetes in the News: Examining How Media Coverage has Shaped African-American Conversations on Health Disparities | <b>5:45 PM</b> |

# ORAL PRESENTATIONS BY NAME

## Leonela Acosta .....5:45 PM, CC-17

Presentation Title: The Role of Nascent Polypeptide-Associated Complex in the Proliferation of the Dengue Virus

Research Mentor: Erol Fikrig

Research Institution: Yale University

Home Institution: Rutgers University

Co-Authors: Tonya Colpitts and Erol Fikrig, Yale University

AB

## Titilayo Afolabi .....12:00 PM, CC-12

Presentation Title: Effect of Reactive Oxygen Species on TRPM2 Channel in Leading to Alzheimer's Disease

Research Mentor: Teresa Milner

Research Institution: Weill Cornell Graduate School

Home Institution: Yale University

Co-Authors: Gang Wang, Laibaik Park and Costantino Iadecola, Weill Cornell Graduate School of Medical Sciences

AB

## Obed Agyei.....12:00 PM, CC-14

Presentation Title: Signaling of CCL7 and Its Receptors in the Lung Cancer Progression

Research Mentor: Vivek Mittal

Research Institution: Weill Cornell Medical College

Home Institution: North Carolina State University

Co-Authors: Vivek Mittal, Hyejin Choi and Dingcheng Gao, Weill Cornell/Rockefeller/Sloan-Kettering, Signaling of CCL7 and its Receptors in the Lung Cancer Progression

AB

## James Alaniz.....5:00 PM, CC-23

Presentation Title: A Novel Touch-Screen Based Behavioral Interaction System

Research Mentor: Winrich Freiwald

Research Institution: The Rockefeller University

Home Institution: University of Texas at Austin

Co-Authors: Winrich Freiwald and Srivatsun Sadagopan, Weill Cornell/Rockefeller/Sloan-Kettering

SS

## Kevin Alicea Torres.....2:45 PM, CC-14

Presentation Title: Identification and Characterization of Contact-Dependent Interactions in Platelets

Research Mentor: Lawrence Brass

Research Institution: University of Pennsylvania

Home Institution: UPR-Humacao

Co-Authors: Lawrence Brass and Kenneth Wannemacher, University of Pennsylvania

BB

## Davis Anugo.....3:30 PM, CC-13

Presentation Title: Translational Control in the Mammalian Circadian Clock

Research Mentor: Davis Anugo

Research Institution: University of Pennsylvania

Home Institution: SUNY Binghamton

Co-Authors: Amita Sehgal and Christopher Jang, University of Pennsylvania

BB

## Jesus Ayala.....3:00 PM, CC-12

Presentation Title: CRH and TRH Expression and Methylation in Preterm Placenta

Research Mentor: James Padbury

Research Institution: Brown University

Home Institution: UPR-Humacao

Co-Authors: James Padbury, Bethany McGonnigal and Joan Stabila, Brown University

BB

## Robin Ayers ..... 11:45 AM, CC- 26

Presentation Title: With all Deliberate Speed: A Historical Analysis of the Factors which Led to Emory University's Desegregation

Research Mentor: Tera Hunter

Research Institution: Princeton University

Home Institution: Emory University

Co-Authors: Tera Hunter, Princeton University; Brett Gadsden, Emory University

HU

## Elena Baluyut .....2:45 PM, CC-22

Presentation Title: Using InSAR to Analyze the Effects of Oil Extraction on Kuparuk Oil Field

Research Mentor: Lin Liu

Research Institution: Stanford University School of Earth Sciences

Home Institution: Saint Louis University

Co-Authors: Lin Liu, Stanford University

ES

## Emily Bancroft .....5:30 PM, CC-25

Presentation Title: The Relationship between Gender and Children's Nonverbal Communication

Research Mentor: Thalia Goldstein

Research Institution: Yale University

Home Institution: Mount Holyoke College

Co-Authors: Thalia Goldstein and Oriana Aragon, Yale University

SS



**Janae Baptiste .....5:00 PM, CC-13**

Presentation Title: Gene Cloning and Protein Expression of Myristylated Wildtype FIV Matrix Protein Using Human N-myristyl transferase  
 Research Mentor: Michael Summers  
 Research Institution: University of Maryland, Baltimore County  
 Home Institution: University of West Florida  
 Co-Authors: Michael Summers and Lola Brown, University of Maryland, Baltimore County  
 BB

**Leah Barlow .....12:00 PM, CC-24**

Presentation Title: Locating the Human in South African Literature: Formalism in J.M. Coetzee's *Disgrace* and Nadine Gordimer's *None to Accompany Me*  
 Research Mentor: Wendy Belcher  
 Research Institution: Princeton University  
 Home Institution: Hampton University  
 Co-Authors: Wendy Belcher, Princeton University  
 HU

**Javier Barranco ..... 11:45 AM, CC-23**

Presentation Title: Image Quality Assessment For Compress Sensing Reconstruction  
 Research Mentor: Daniel Sodickson  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Texas at San Antonio  
 Co-Authors: Ricardo Otazo and Daniel Sodickson, New York University  
 PS

**Stephen Bart.....5:30 PM, CC-15**

Presentation Title: Activation of Strongyloides stercoralis Infective Third-stage Larvae by the cGMP analog 8-bromo-cGMP  
 Research Mentor: James Lok  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Pittsburgh  
 Co-Authors: Jonathan D. Stoltzfus and James B. Lok, University of Pennsylvania  
 BB

**Kamaria Beamon .....3:30 PM, CC- 26**

Presentation Title: Aspects of Identity in Teaching Practices: Case Study of Travis Plume  
 Research Mentor: Rowhea Elmesky  
 Research Institution: Washington University in St. Louis  
 Home Institution: Xavier University of Louisiana  
 Co-Authors: Rowhea Elmesky and Lyndsie Schultz, Washington University in St. Louis  
 SS

**Joseph Behnke.....3:00 PM, CC-16**

Presentation Title: The Effects of Ketamine on Synaptic Plasticity  
 Research Mentor: Wenbio Gan  
 Research Institution: New York University Sackler Institute  
 Home Institution: Rutgers University  
 Co-Authors: Wenbio Gan, New York University  
 BB

**Terri Bella .....5:30 PM, CC-21**

Presentation Title: Characterization of COP1 in Gastrointestinal Stromal Tumor (GIST) Pathogenesis  
 Research Mentor: Yuan Yuan Xie  
 Research Institution: Memorial Sloan Kettering Cancer Center  
 Home Institution: San Jose State University  
 Co-Authors: Yuanyuan Xie and Ping Chi, Weill Cornell/Rockefeller/Sloan-Kettering  
 AB

**Marimar Benitez .....3:30 PM, CC-15**

Presentation Title: Exploiting 89Zr-transferrin PET as a Biomarker of Response to Therapies that Inhibit MYC Function  
 Research Mentor: Jason Lewis  
 Research Institution: Memorial Sloan Kettering Cancer Center  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Jason Lewis, Sarah Cheal and Michael Evans, Memorial Sloan-Kettering Cancer Center  
 BB

**Jasmine Benjamin.....3:00 PM, CC-25**

Presentation Title: Race Negotiation among Black Republican Congressmen  
 Research Mentor: Amy Lerman  
 Research Institution: Princeton University  
 Home Institution: Claflin University  
 Co-Authors: Amy Lerman, Princeton University; Christopher Curtis, Claflin University  
 SS

**Rebecca Betances .....3:30 PM, CC-17**

Presentation Title: MiRNA-17-92 Cluster Controls the Differentiation of Subcerebral Projection Neurons by Targeting Transcription Factor Ctip2  
 Research Mentor: Shan Bian  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Tao Sun, Shan Bian and Janet Hong, Weill Cornell Graduate School of Medical Sciences  
 BB

**Tashalee Billings .....12:00 PM, CC-23**

Presentation Title: Using CMB Polarization to Trace  
E-Fields and B-Fields  
Research Mentor: David Spergel  
Research Institution: Princeton University  
Home Institution: Florida A&M University  
Co-Authors: David Spergel, Renee Hlozek and  
BlakeSherwin, Princeton University  
PS

**Jade Bing.....12:30 PM, CC-21**

Presentation Title: Application of PCET Towards the  
Formation of Radical Intermediates and Carbon-  
carbon Bonds  
Research Mentor: Robert Knowles  
Research Institution: Princeton University  
Home Institution: Rider University  
Co-Authors: Robert Knowles, Princeton University  
PS

**Maria Bottermann .....5:00 PM, CC- 12**

Presentation Title: Characterizing Natural Killer Cell  
Exhaustion Using an In-vitro Model to Mimic the  
Environment of Metastatic Melanoma  
Research Mentor: Nina Bhardwaj  
Research Institution: New York University Sackler  
Institute  
Home Institution: Jacobs University Bremen  
Co-Authors: Nina Bhardwaj, Ines da Silva and Anne  
Gallois, New York University  
BB

**Niambi Brewer .....4:45 PM, CC-15**

Presentation Title: Identification of Additional Lipid  
Regulators that Contribute to Primordial Germ  
Cell Migration in Drosophila  
Research Mentor: Ruth Lehmann  
Research Institution: New York University Sackler  
Institute  
Home Institution: University of Maryland, Baltimore  
County  
Co-Authors: Brian Richardson and Ruth Lehmann,  
New York University  
BB

**Bailey Brown .....12:00 PM, CC-27**

Presentation Title: Why Link Communities to Schools?  
Rethinking the Community-School Dynamic  
Research Mentor: Bailey Brown  
Research Institution: University of Chicago  
Home Institution: University of Pennsylvania  
Co-Authors: Omar McRoberts and Dan Kimmel,  
University of Chicago  
SS

**Brian Brown ..... 11:30 AM, CC-15**

Presentation Title: Presence of a Putative Virulence  
Factor, sasX, in Methicillin-Resistant  
Staphylococcus aureus from Nosocomial  
Pneumonia  
Research Mentor: Bo Shopsis  
Research Institution: New York University Sackler  
Institute  
Home Institution: University of Maryland, Baltimore  
County  
Co-Authors: Bo Shopsis and Davida Smyth, New York  
University  
BB

**Leslie Brown.....3:15 PM, CC- 13**

Presentation Title: An Examination of Cortisol and  
Rumination in Pregnant Women  
Research Mentor: Catherine Monk  
Research Institution: Columbia University  
Home Institution: Westminster College  
Co-Authors: Catherine Monk, Elizabeth Werner and  
Michael Kinsella, Columbia University  
BB

**Devon Brunson .....5:15 PM, CC-23**

Presentation Title: The Effect of Hearing Modality on  
Communication Outcomes: Bimodal Hearing  
versus Bilateral Cochlear Implantation  
Research Mentor: Rene Gifford  
Research Institution: Vanderbilt University  
Home Institution: University of Maryland, College Park  
Co-Authors: Rene Gifford and Megan Roberts,  
Vanderbilt University  
SS

**Tiffany Bryan .....5:45 PM, CC-27**

Presentation Title: Diabetes in the News: Examining  
How Media Coverage has Shaped African-  
American Conversations on Health Disparities  
Research Mentor: Keith Wailoo  
Research Institution: Princeton University  
Home Institution: Spelman College  
Co-Authors: Keith Wailoo, Princeton University  
HU

**Jamal Bryant.....4:00 PM, CC-12**

Presentation Title: Measuring Cytosolic Zn Ion  
Concentrations in Pancreatic Cancer Cells using  
Genetically Encoded Fluorescent Sensors  
Research Mentor: Amy Palmer  
Research Institution: University of Colorado Boulder  
Home Institution: St. Petersburg College  
Co-Authors: Amy Palmer and Jose Miranda, University  
of Colorado at Boulder  
BB

**Amanda Buch.....2:45 PM, CC-16**

Presentation Title: Understanding the Role of Rab-3 in Synaptic Vesicle Exocytosis  
 Research Mentor: Rachel Wragg  
 Research Institution: Weill Cornell Medical College  
 Home Institution: Fordham University  
 Co-Authors: Jeremy Dittman and Rachel Wragg, Weill Cornell Graduate School of Medical Sciences  
 AB

**Ivan Bukreyev .....12:00 PM, CC-22**

Presentation Title: Structure and Ordering of Nickelate Superlattices  
 Research Mentor: Charles Ahn  
 Research Institution: Yale University  
 Home Institution: University of Florida  
 Co-Authors: Charles Ahn, Fred Walker and Joseph Ngai, Yale University  
 PS

**Cristhian Cadena .....12:30 PM, CC-15**

Presentation Title: Detection of Defective Interfering (DI) Particles of Bovine Respiratory Syncytial Virus (BRV), Canine Distemper Virus (CDV), and Sendai Virus (SeV) in Lung Tissues  
 Research Mentor: Carolina Lopez  
 Research Institution: University of Pennsylvania  
 Home Institution: Sam Houston State University  
 Co-Authors: Carolina Lopez and Karla Tapia, University of Pennsylvania  
 BB

**Gina Calco.....3:00 PM, CC-17**

Presentation Title: Distinct and Additive Contributions of Thiamine Deficiency in an Experimental Model of Alcohol-Related Neurodegeneration  
 Research Mentor: Suzanne de la Monte  
 Research Institution: Brown University  
 Home Institution: University of Michigan-Ann Arbor  
 Co-Authors: Suzanne M. de la Monte, Elizabeth Silbermann and Valerie Zabala, Brown University  
 BB

**Madison Calhoun ..... 11:15 AM, CC-22**

Presentation Title: Polyelectrolyte Adsorption onto Carbon Nanotube Surfaces Under Applied Potential  
 Research Mentor: Paul Van Tassel  
 Research Institution: Yale University  
 Home Institution: Carnegie Mellon University  
 Co-Authors: Matthew McMillian, Dominic Eggerman and Paul Van Tassel, Yale University  
 EN

**Danielle Callendar .....4:45 PM, CC-24**

Presentation Title: Check your Privilege: Black Women's Resistance of White Cultural Privileging in Elite Colleges  
 Research Mentor: Angel Harris  
 Research Institution: Princeton University  
 Home Institution: Wellesley College  
 Co-Authors: Angel Harris, Princeton University  
 SS

**Shantel Campbell.....3:15 PM, CC-27**

Presentation Title: The Clock is Ticking & Money is Running Out: How Scarcity of Time & Resources Affect Buyer Behavior  
 Research Mentor: Shantel Campbell  
 Research Institution: Stanford University  
 Home Institution: University of Delaware  
 Co-Authors: Baba Shiv and Emily Garbinsky, Stanford University School of Humanities & Sciences  
 SS

**Christian Capanna.....3:45 PM, CC-12**

Presentation Title: Effective Osteopontin Concentration for Hydroxyapatite Seeded Growth Inhibition and Its Relative Binding Affinity  
 Research Mentor: Adele Boskey  
 Research Institution: Weill Cornell Medical College  
 Home Institution: Loyola University of Chicago  
 Co-Authors: Adele Boskey and Hayat Taleb, Weill Cornell Graduate School of Medical Sciences  
 BB

**Jessica Cardenas..... 11:15 AM, CC- 13**

Presentation Title: Survivin's Role in the Regulated Secretory Pathway for Insulin  
 Research Mentor: Rachel Altura  
 Research Institution: Brown University  
 Home Institution: Mount St. Mary's College  
 Co-Authors: Mike Holloway and Rachel Altura, Brown University  
 AB

**Lizzette Castillo .....3:45 PM, CC-23**

Presentation Title: Hi-Fidelity Recovery of Bioaerosols DNA  
 Research Mentor: Mark Hernandez  
 Research Institution: University of Colorado Boulder  
 Home Institution: CSU Sacramento  
 Co-Authors: Alina Handorean and Mark Hernandez, University of Colorado at Boulder  
 AB

**Marc Castro..... 11:45 AM, CC-22**

Presentation Title: Traveling-Wave Metal-Insulator-Metal Diode for Terahertz Conversion  
 Research Mentor: Garret Modell  
 Research Institution: University of Colorado Boulder  
 Home Institution: University of Texas at San Antonio  
 Co-Authors: Michael Cromar and Garret Modell,  
 University of Colorado at Boulder  
 EN

**Alexander Catchings..... 11:30 AM, CC-25**

Presentation Title: The Neo-Slave Narrative's Utility as an Aesthetic of Humor and National Ethic  
 Research Mentor: Daphne Brooks  
 Research Institution: Princeton University  
 Home Institution: University of Washington  
 Co-Authors: Daphne Brooks, Princeton University  
 HU

**Terrel Champion.....12:15 PM, CC-24**

Presentation Title: A Merciful Re-Envisioning of Race and Capitalism: Morrison and Postmodernism  
 Research Mentor: Daphne Brooks  
 Research Institution: Princeton University  
 Home Institution: Morehouse College  
 Co-Authors: Daphne Brooks, Princeton University  
 HU

**Thekia Cheeseborough.....3:45 PM, CC-26**

Presentation Title: Humans Are Animals Too: Exploring How Persons Assert Themselves After Being Dehumanized  
 Research Mentor: Greg Walton  
 Research Institution: Stanford University  
 Home Institution: Spelman College  
 Co-Authors: Greg Walton, Jennifer Eberhardt and Lauren Howe, Stanford University School of Humanities & Sciences  
 SS

**Megan Cherry .....3:30 PM, CC-21**

Presentation Title: Integrated Network Approaches to Understanding Indirect Transcription Factor Interactions Associated with Variants of the Mediator Complex  
 Research Mentor: Debra Goldberg  
 Research Institution: University of Colorado Boulder  
 Home Institution: Massachusetts Institute of Technology  
 Co-Authors: Debra Goldberg and Suzanne Gallagher,  
 University of Colorado at Boulder  
 PS

**Stephanie Christie..... 11:30 AM, CC-11**

Presentation Title: Analyzing the Genetic Variability and Reverse Transcriptase Drug Resistance Mutations in HIV-1 Infected Individuals in Yaounde, Cameroon  
 Research Mentor: Phillipe Nyambi  
 Research Institution: New York University Sackler Institute  
 Home Institution: Brooklyn College CUNY  
 Co-Authors: Phillipe Nyambi, Luzia Mayr and Lucy Agyingi, New York University  
 AB

**Stacy Christopher .....4:00 PM, CC-16**

Presentation Title: The Role of FGF8 and FGFR1 in Mouse Hypothalamic Development  
 Research Mentor: Stacy Christopher  
 Research Institution: University of Colorado Boulder  
 Home Institution: Cornell University  
 Co-Authors: Pei-San Tsai and Scott Kavanaugh,  
 University of Colorado at Boulder  
 BB

**Danielle Cicka.....3:15 PM, CC-15**

Presentation Title: The Overexpression of the Myopathic Matrin-3 S85C Mutant in C2C12 Myogenic Cells  
 Research Mentor: Elizabeth McNally  
 Research Institution: University of Chicago  
 Home Institution: Washington University in St. Louis  
 Co-Authors: Elizabeth McNally and Fredric DePreux,  
 University of Chicago  
 BB

**Jonathan Cohen .....3:15 PM, CC-17**

Presentation Title: Ethanol Inhibition of Adenylate Cyclase Decreases the Phosphorylation State of Alpha 7 Nicotinic Acetylcholine Receptors  
 Research Mentor: Jonathan Cohen  
 Research Institution: University of Chicago  
 Home Institution: Brown University  
 Co-Authors: John McDaid, University of Chicago  
 BB

**Elvia Cortes ..... 11:15 AM, CC-23**

Presentation Title: Modular BoxWing UAV  
 Research Mentor: Brian Argrow  
 Research Institution: University of Colorado Boulder  
 Home Institution: CSU Los Angeles  
 Co-Authors: Brian Argrow, University of Colorado at Boulder  
 EN

**Jessica Cottrell..... 11:45 AM, CC-25**

Presentation Title: Implications of the Black Male Body:  
An Analysis of the Societal Texts for the Young  
African American Male  
Research Mentor: Tera Hunter  
Research Institution: Princeton University  
Home Institution: Saint Edward's University  
Co-Authors: Tera Hunter, Princeton University  
HU

**Selena Crowley.....4:00 PM, CC-25**

Presentation Title: Native Nations' Allocation of  
Resources: Link to Development  
Research Mentor: Robert Shapiro  
Research Institution: Columbia University  
Home Institution: Fisk University  
Co-Authors: Robert Y. Shapiro, Columbia University  
PE

**Mack Curry IV ..... 11:30 AM, CC-27**

Presentation Title: The Study of Black English  
Vernacular: Its Usage in Literature and Music,  
and the Incorporation of This Dialect into English  
Teaching Curriculums  
Research Mentor: Tsitsi Jaji  
Research Institution: University of Pennsylvania  
Home Institution: Hampton University  
Co-Authors: Randolph Walker, Hampton University;  
Tsitsi Jaji, University of Pennsylvania  
HU

**Dina Dajani.....5:45 PM, CC-13**

Presentation Title: Molecular Interactions of IQGAP2  
and its Role in Mechanosensing  
Research Mentor: Doug Robinson  
Research Institution: Johns Hopkins University  
Home Institution: University of Miami  
Co-Authors: Vasudha Srivastava and Douglas  
Robinson, Johns Hopkins University  
BB

**Omar Davila Jr .....12:15 PM, CC-25**

Presentation Title: The Impact of Feeling Understood  
and Validated on Student Performance  
Research Mentor: Margaret Clark  
Research Institution: Yale University  
Home Institution: CSU Monterey Bay  
Co-Authors: Margaret Clark, Mark Graham and Oriana  
Aragon, Yale University  
SS

**Taylor Davine.....5:45 PM, CC-25**

Presentation Title: Examining the Relationship Between  
Rumination and Perceived Stress Among Ethnic  
Adolescent Females  
Research Mentor: Susan Nolen-Hoeksema  
Research Institution: Yale University  
Home Institution: UC San Diego  
Co-Authors: Susan Nolen-Hoeksema, Yale University  
SS

**Mark Davis .....12:15 PM, CC-22**

Presentation Title: Imaging Monolayer ZrO<sub>2</sub> on a Si  
Substrate  
Research Mentor: Fred Walker  
Research Institution: Yale University  
Home Institution: Lehman College CUNY  
Co-Authors: Fred Walker and Divine Kumah, Yale  
University  
PS

**Tahirah Dean .....5:15 PM, CC-26**

Presentation Title: The Unheard Voice: American  
Muslims Struggle for Political Inclusion  
Research Mentor: Robert Shapiro  
Research Institution: Columbia University  
Home Institution: University of North Texas  
Co-Authors: Robert Y. Shapiro, Columbia University  
PE

**Rebecca Denton ..... 11:15 AM, CC-24**

Presentation Title: Oriental Objects: Silks, Sultans, and  
the Threat to "Englishness" in *Jane Eyre*  
Research Mentor: Timothy Campbell  
Research Institution: University of Chicago  
Home Institution: University of Miami  
Co-Authors: Timothy Campbell, University of Chicago  
HU

**Ashley Diaz .....3:45 PM, CC-15**

Presentation Title: The Role of Presenilin-1 (PSEN-1)  
in Surfactant Production in Type II Lung Epithelial  
Cells  
Research Mentor: Heber Nielsen  
Research Institution: Tufts University BioMedical  
Sciences  
Home Institution: Florida International University  
Co-Authors: Najla Fiaturi, John Castellot and Heber  
Nielsen, Tufts University School of Graduate  
Biomedical Sciences  
BB



**Martha Dua-Awereh.....4:45 PM, CC-17**

Presentation Title: Activation of STAT-5 by the Extracellular Factor Neuromedin U is JAK2-dependent

Research Mentor: Martin Carroll

Research Institution: University of Pennsylvania

Home Institution: Brooklyn College CUNY

Co-Authors: Martin Carroll and Susan Shetzline, University of Pennsylvania

AB

**Christopher Duncan-Lewis.....4:00 PM, CC-22**

Presentation Title: Cell Viability and Morphology on Nanopatterned Bulk Metallic Glass Surfaces

Research Mentor: Themis Kyriakides

Research Institution: Yale University

Home Institution: University of Pennsylvania

Co-Authors: Themis Kyriakides and Jagannath Padmanabhan, Yale University

AB

**Cayla Echols.....5:15 PM, CC-24**

Presentation Title: Unveiling the Mechanisms of Race Perception: How Affective Priming Reveals the Effects of Individuation Training on Implicit Prejudice

Research Mentor: Jasmin Cloutier

Research Institution: University of Chicago

Home Institution: Tuskegee University

Co-Authors: Jasmin Cloutier and Tianyi Li, University of Chicago

SS

**Reinalyn Echon.....5:15 PM, CC-27**

Presentation Title: Thought Speed, Depression, and Goal Pursuit

Research Mentor: Emily Pronin

Research Institution: Princeton University

Home Institution: CSU Fullerton

Co-Authors: Emily Pronin and Kaite Yang, Princeton University

SS

**Christopher Ecker..... 11:30 AM, CC-13**

Presentation Title: Tumor Suppressor APC's Regulation of GSK-3

Research Mentor: Peter Klein

Research Institution: University of Pennsylvania

Home Institution: University of Maryland, Baltimore County

Co-Authors: Peter Klein and Alexander Valvezan, University of Pennsylvania

BB

**Chloe Edmonds ..... 11:45 AM, CC-27**

Presentation Title: Education and Violence: Children, Schooling, and Genocide in Germany and Rwanda

Research Mentor: Maud Mandel

Research Institution: Brown University

Home Institution: Keene State College..... HU

**Norrell Edwards.....12:30 PM, CC-24**

Presentation Title: What is African American Literature? An Analysis and Critique of Kenneth Warren's Argument on the Death of African American Literature

Research Mentor: Ann Cheng

Research Institution: Princeton University

Home Institution: Hunter College

Co-Authors: Anne Cheng, Princeton University

HU

**Jordan Encarnacion ..... 11:45 AM, CC-17**

Presentation Title: Sex Differences in FosB Expression after Acute Administration of Cocaine, Methamphetamine, and Cannabinoids (WIN-55) in the Prefrontal Cortex of Rats

Research Mentor: Vanya Quinones-Jenab

Research Institution: Hunter College

Home Institution: Allegheny College

Co-Authors: Courtney Daly and Vanya Quinones-Jenab, Hunter College

BB

**Darren Esparza .....2:45 PM, CC-25**

Presentation Title: DREAMers or Immigrants? A Textual Analysis of President Obama's Support for the DREAM Act

Research Mentor: Arlene Davila

Research Institution: New York University

Home Institution: CSU Northridge

Co-Authors: Arlene Davila, New York University

HU

**Tazmin Falan.....3:30 PM, CC-27**

Presentation Title: Do Questionnaire Measures of Children's Prosocial Behavior Predict Altruism in the Dictator Game?

Research Mentor: Julia Kim-Cohen

Research Institution: Yale University

Home Institution: Chaminade University of Honolulu

Co-Authors: Julia Kim-Cohen, Yale University

SS

**Rene Farfan ..... 11:30 AM, CC-23**

Presentation Title: Realization of Periodic Metamaterials to Practical Three-Dimensional Structures  
 Research Mentor: Mahmoud I. Hussein  
 Research Institution: University of Colorado Boulder  
 Home Institution: California State Polytechnic University  
 Co-Authors: Mahmoud I. Hussein and Michael Frazier, University of Colorado at Boulder  
 EN

**Emily Fernández García ..... 12:15 PM, CC-17**

Presentation Title: Characterization of  $\alpha 4\beta 2$  and  $\alpha 7$  nAChRs as Therapeutic Targets for the Development of Nicotine Cessation Treatments that Alleviate Anxiety During Withdrawal  
 Research Mentor: Julie Blendy  
 Research Institution: University of Pennsylvania  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Nicole Yohn and Julie A. Blendy, University of Pennsylvania  
 AB

**Legna Figueroa-Cosme ..... 11:30 AM, CC-21**

Presentation Title: Formation of Silver Secondary Particles in Solution Phase  
 Research Mentor: Robert Hurt  
 Research Institution: Brown University  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Jingyu Liu, Brown University; Zhongying Wang, Brooklyn College; Robert Hurt, Brown University  
 EN

**Rachel Foster ..... 2:45 PM, CC-17**

Presentation Title: Hippocampal Brain-Derived Neurotrophic Factor Expression in Response to Alcohol Consumption and Voluntary Exercise  
 Research Mentor: Marissa Ehringer  
 Research Institution: University of Colorado Boulder  
 Home Institution: Mount Holyoke College  
 Co-Authors: Marissa Ehringer and Francesc Xavier Gallego Moreno, University of Colorado at Boulder  
 BB

**Angelica Frausto ..... 5:30 PM, CC-27**

Presentation Title: The Effectiveness of Computer-Based Interventions for Depression: A Meta-Analysis  
 Research Mentor: Angela Duckworth  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Rochester  
 Co-Authors: Ann Marie Roepke and Angela Lee Duckworth, University of Pennsylvania  
 SS

**Kafi Friday ..... 2:45 PM, CC-12**

Presentation Title: The Effect of Prenatal Maternal Immune Activation on Inhibitory Network Activity in Adult Offspring Medial Prefrontal Cortex  
 Research Mentor: Christoph Kellendonk  
 Research Institution: Columbia University  
 Home Institution: Brooklyn College CUNY  
 Co-Authors: Sarah E. Canetta and Christoph Kellendonk, Columbia University  
 AB

**Netanel Ghatan ..... 3:15 PM, CC-16**

Presentation Title: In Search of Neural Syntax in the Hippocampus  
 Research Mentor: György Buzsáki  
 Research Institution: New York University Sackler Institute  
 Home Institution: New York University  
 Co-Authors: György Buzsáki, New York University  
 BB

**Candace Ghent ..... 3:45 PM, CC-21**

Presentation Title: Exploring the Mediator Complex using Functional Similarity of Proteins  
 Research Mentor: Debra Goldberg  
 Research Institution: University of Colorado Boulder  
 Home Institution: North Carolina A&T State University  
 Co-Authors: Debra Goldberg, University of Colorado at Boulder  
 PS

**Kyle Gipson ..... 11:45 AM, CC-24**

Presentation Title: The Contours of the New World: The Problem of Particularity in Richard Wright's *Native Son*  
 Research Mentor: Phillip Harper  
 Research Institution: New York University Sackler Institute  
 Home Institution: Bard College  
 HU

**Shelby Goicochea ..... 5:15 PM, CC- 15**

Presentation Title: Optimization of Beta-Cyclodextrin Binding to Lipofuscin in Retinal Pigment Epithelium  
 Research Mentor: Marcelo Nociari  
 Research Institution: Weill Cornell Medical College  
 Home Institution: University of Florida  
 Co-Authors: Marcelo Nociari and Enrique Rodriguez-Boulán, Weill Cornell/Rockefeller/Sloan-Kettering  
 BB



**Lyanne Gomez .....5:30 PM, CC-14**

Presentation Title: Structural Studies of CTCF  
Research Mentor: Ronen Marmorstein  
Research Institution: University of Pennsylvania  
Home Institution: UPR-Rio Piedras  
Co-Authors: Ronen Marmorstein and Jasna Maksimoska, University of Pennsylvania  
BB

**Darren Gordon .....5:30 PM, CC-23**

Presentation Title: To Reach Fast or to Reach Slow?  
That is the Question  
Research Mentor: Helen Huang  
Research Institution: University of Colorado Boulder  
Home Institution: University of Michigan-Ann Arbor  
Co-Authors: Alaa Ahmed and Helen Huang, University of Colorado at Boulder  
AB

**Talia Guardia.....3:15 PM, CC-11**

Presentation Title: Analyzing the Mutations in the  
TBX5 Gene in Patients with Holt-Oram Syndrome  
Research Mentor: Shuibing Chen  
Research Institution: Weill Cornell Medical College  
Home Institution: Barry University  
Co-Authors: Shuibing Chen, Zaniar Ghazizadeh and Farrank Fattahi, Weill Cornell Graduate School of Medical Sciences  
BB

**Mamikon Gulian.....12:15 PM, CC-23**

Presentation Title: Well-posedness for a Perturbed KdV Equation  
Research Mentor: Justin Holmer  
Research Institution: Brown University  
Home Institution: University of Maryland, Baltimore County  
Co-Authors: Justin Holmer, Brown University  
PS

**Robert Gutierrez.....4:45 PM, CC-11**

Presentation Title: Quantitative Measurement of Live Cells and Their Gene Expression  
Research Mentor: Eric Darling  
Research Institution: Brown University  
Home Institution: Santa Barbara City College  
Co-Authors: Vera C. Fonseca, Hetal Desai and Eric M. Darling, Brown University  
AB

**Kristin Ha.....3:00 PM, CC-11**

Presentation Title: Localization of the Telomerase RNA in Human Cells  
Research Mentor: Diego Loayza  
Research Institution: Hunter College  
Home Institution: Brandeis University  
Co-Authors: Diego Loayza and Sampada Kalan, Hunter College  
BB

**Kristen Harris .....5:15 PM, CC-13**

Presentation Title: Determining the Presence of the Protein Seahorse in the Nucleus  
Research Mentor: Zhaoxia Sun  
Research Institution: Yale University  
Home Institution: Amherst College  
Co-Authors: Zhaoxia Sun and Sowjanya Kallakuri, Yale University  
BB

**Mark Harris.....12:15 PM, CC-27**

Presentation Title: College Is for Me: Educational Socialization of African American Adolescent Males and Its Impact on Their College Matriculation  
Research Mentor: Waldo Johnson  
Research Institution: University of Chicago  
Home Institution: Grambling State University  
Co-Authors: Waldo Johnson and Jelani McEwen, University of Chicago  
SS

**Sara Harris .....3:00 PM, CC-24**

Presentation Title: Mothers' Co-Residence with Children in Lesotho: Changing the Perspective  
Research Mentor: Susan Short  
Research Institution: Brown University  
Home Institution: Washington University in St. Louis  
SS

**Theresa Henry.....3:00 PM, CC-27**

Presentation Title: Development Accounting Revisited  
Research Mentor: Pete Klenow  
Research Institution: Stanford University  
Home Institution: University of Georgia  
Co-Authors: Peter Klenow, Stanford University School of Humanities & Sciences  
SS

**Christian Hernandez .....12:00 PM, CC-21**

Presentation Title: Centrifuge Testing to Evaluate  
Seismic Lateral Earth Pressures on Buried  
Reservoirs  
Research Mentor: Shideh Dashti  
Research Institution: University of Colorado Boulder  
Home Institution: UPR-Mayaguez  
Co-Authors: Shideh Dashti, Majid Ghayoomi and  
Ashkaan Hushmand, University of Colorado at  
Boulder

EN

**Mateo Hernandez .....12:30 PM, CC-11**

Presentation Title: Investigation of the HIV-2  
5'-Untranslated Region  
Research Mentor: Michael Summers  
Research Institution: University of Maryland, Baltimore  
County  
Home Institution: University of South Florida  
Co-Authors: Michael Summers, Yuanyuan Liu and  
Venki Ramakrishnan, University of Maryland,  
Baltimore County

BB

**Nicholas Hernandez .....4:00 PM, CC-15**

Presentation Title: Localization and Trafficking of  
Phosphorylated BACE1 in the Endocytic Pathway  
Research Mentor: Gopal Thinakaran  
Research Institution: University of Chicago  
Home Institution: University of South Florida  
Co-Authors: Nicholas Hernandez, Celia Fernandez and  
Gopal Thinakaran, University of Chicago.....

BB

**Isabel Hinestrosa..... 11:30 AM, CC-14**

Presentation Title: Effect of mTORC1/2 Inhibition on T  
Lymphocyte Responses in a Breast Cancer Mouse  
Model  
Research Mentor: Robert Schneider  
Research Institution: New York University Sackler  
Institute  
Home Institution: Boston University  
Co-Authors: Robert Schneider and Viviana Volta, New  
York University

BB

**Chevon Holmes.....2:45 PM, CC-27**

Presentation Title: The Turnpike Era and Farming  
in Colonial New England 1750-1850: A Time  
of Economic Transition or Transformation to a  
Market-Economy?  
Research Mentor: Amity Doolittle  
Research Institution: Yale University  
Home Institution: Mount Holyoke College  
Co-Authors: Amity A. Doolittle, Yale University  
HU

**Alex Holness.....3:00 PM, CC-22**

Presentation Title: Tracking Humans During Flocking  
Experiments: Determining Leadership and How it  
Relates to Centrality Measures  
Research Mentor: Naomi Leonard  
Research Institution: Princeton University  
Home Institution: University of Maryland, Baltimore  
County  
Co-Authors: Naomi Leonard and George Young,  
Princeton University

EN

**Ira Iosub .....5:30 PM, CC-11**

Presentation Title: The Transcriptional Regulation  
of Interferon-Stimulated Genes: Elucidating the  
Mechanisms Involved at the Deacetylation Level  
Research Mentor: David Levy  
Research Institution: New York University Sackler  
Institute  
Home Institution: Jacobs University Bremen  
Co-Authors: David Levy and Isabelle Levy, New York  
University

BB

**Akia Jackson.....5:00 PM, CC-24**

Presentation Title: The Effects of Slavery on Children's  
Perspectives Toward Skin Color  
Research Mentor: Gerald Early  
Research Institution: Washington University in St. Louis  
Home Institution: Xavier University of Louisiana  
Co-Authors: Gerald Early and Wendy Anderson,  
Washington University in St. Louis.....

HU

**Kaitlyn Jeanis .....2:45 PM, CC-21**

Presentation Title: A Study of MS2 Molecular Damage  
Due to Wavelength Specific UV Irradiation  
Research Mentor: Karl Linden  
Research Institution: University of Colorado Boulder  
Home Institution: University of Central Florida  
Co-Authors: Karl Linden and Sara Beck, University of  
Colorado at Boulder

ES

**Emily Jenab .....4:45 PM, CC-26**

Presentation Title: The Benefits of Mindfulness for At-Risk High School Students

Research Mentor: Tracy Dennis

Research Institution: Hunter College

Home Institution: SUNY Stony Brook

Co-Authors: Laura O'Toole and Tracy Dennis, Hunter College

SS

**Hugo Jenab .....5:00 PM, CC-11**

Presentation Title: An Investigation of Post-Menopausal Cardiovascular Illness through Quantification of Neural Capillaries

Research Mentor: Joseph Pierce

Research Institution: Weill Cornell Graduate School

Home Institution: SUNY Purchase

Co-Authors: Joseph Pierce, Teresa Milner and Tracey Van Kempen, Weill Cornell Graduate School of Medical Sciences

AB

**Nilsa Jenkins Luna .....3:00 PM, CC-14**

Presentation Title: Investigating the Regulatory Role of MicroRNAs in the Life Span of *C. elegans*

Research Mentor: Frank Slack

Research Institution: Yale University

Home Institution: Rutgers University

Co-Authors: Frank Slack and Sachi Inukai, Yale University

BB

**Dante' Johnson .....3:15 PM, CC-22**

Presentation Title: Activate Your Anxiety Network

Research Mentor: Christopher Lowry

Research Institution: University of Colorado Boulder

Home Institution: Louisiana State University-Baton Rouge

Co-Authors: Christopher Lowry and Nina Donner, University of Colorado at Boulder

AB

**Hadiya Jones ..... 11:15 AM, CC-25**

Presentation Title: Social Media, Awkward Black Girl, and Alternative Images of Blackness

Research Mentor: Adrienne Brown

Research Institution: University of Chicago

Home Institution: Spelman College

Co-Authors: Adrienne Brown and Mary Adekoya, University of Chicago

HU

**Maria Jones .....5:00 PM, CC-16**

Presentation Title: Multimodal Control of Orientation Under Conditions of Toxicity in Bullfrog Tadpoles

Research Mentor: Andrea Simmons

Research Institution: Brown University

Home Institution: Missouri State University

Co-Authors: Andrea Simmons and Erika Alexander, Brown University

BB

**Elizabeth Kang .....3:45 PM, CC-27**

Presentation Title: Power in the Workplace

Research Mentor: Dr. Deborah Gruenfeld

Research Institution: Stanford University

Home Institution: University of Idaho

Co-Authors: Deborah Gruenfeld and Lucia Guillory, Stanford University School of Humanities & Sciences

SS

**Hannah Kim .....5:45 PM, CC-24**

Presentation Title: On the Philosophy of Time: Block Theory and Human Experience

Research Mentor: Mark Crimmins

Research Institution: Stanford University

Home Institution: Emory University

Co-Authors: Mark Crimmins, Stanford University School of Humanities & Sciences

HU

**Roderick King ..... 11:30 AM, CC-17**

Presentation Title: The Role of PKMzeta in the Reinstatement of Cocaine Seeking

Research Mentor: Robert Pierce

Research Institution: University of Pennsylvania

Home Institution: Delaware State University

Co-Authors: Christopher Pierce, University of Pennsylvania

BB

**Sravanthi Koduri .....5:15 PM, CC-21**

Presentation Title: Determining the Interaction between CG11025 and dPKD2 in the S2 Cell Line

Research Mentor: Terry Watnick

Research Institution: Johns Hopkins University

Home Institution: Drexel University

Co-Authors: Weizhe Li and Terry Watnick, Johns Hopkins University

AB

**Joshua Kogan .....3:30 PM, CC-14**

Presentation Title: *Caenorhabditis elegans* as a Model for Inducing Cell Death in Germline Tumors  
 Research Mentor: Jill Bargonetti-Chavarria  
 Research Institution: Hunter College  
 Home Institution: Oberlin College  
 Co-Authors: Jill Bargonetti-Chavarria, Sandy Gamss and Daniel Martin, Hunter College  
 BB

**Arnaud Konan .....4:00 PM, CC-21**

Presentation Title: Analysis of Spatial Correlation in Shotgun Cellular System  
 Research Mentor: Timothy Brown  
 Research Institution: University of Colorado Boulder  
 Home Institution: University of Denver  
 Co-Authors: Timothy Brown and Prasanna Madhusudhanan, University of Colorado at Boulder  
 PS

**Anthony Kronfli.....5:00 PM, CC-15**

Presentation Title: The Role of Glucocorticoid and BDNF Crosstalk in Regulating Serotonin Receptor Expression  
 Research Mentor: Micheal Garabedian  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Marcus Lambert and Michael Garabedian, New York University  
 BB

**Sandya Lakkur .....3:15 PM, CC-21**

Presentation Title: Data Mining of the Human Microbiome  
 Research Mentor: Susan Holmes  
 Research Institution: Stanford University  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Susan Holmes, Stanford University School of Humanities & Sciences  
 PS

**Nelson LaMarche .....3:00 PM, CC-15**

Presentation Title: Characterization of Myosin Dynamics in a *Drosophila* Germband Extension Mutant  
 Research Mentor: Jennifer Zallen  
 Research Institution: Weill Cornell Medical College  
 Home Institution: Cornell University  
 Co-Authors: Jennifer Zallen, Weill Cornell/Rockefeller/Sloan-Kettering; Gillian Siegal, Weill Cornell Graduate School of Medical Sciences  
 BB

**Claudia Lanauze .....3:45 PM, CC-14**

Presentation Title: Saturation Screens to Uncover Genes that Affect Excretory (Renal) Tube Development in *C. elegans*  
 Research Mentor: Meera Sundaram  
 Research Institution: University of Pennsylvania  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Meera Sundaram and Jean Parry, University of Pennsylvania  
 BB

**Daniel Latimer .....12:00 PM, CC-16**

Presentation Title: Loss of Anthrax Toxin Receptors in Mice Leads to Deficient MT1-MMP Activity and May Cause Failure to Thrive Due to Defective Gastrointestinal Function  
 Research Mentor: Pelisa Charles-Horvath  
 Research Institution: Columbia University  
 Home Institution: Rochester Institute of Technology  
 Co-Authors: Jan Kitajewski and Pelisa Charles-Horvath, Columbia University  
 BB

**Lillie Lattimore .....5:45 PM, CC-26**

Presentation Title: Why Did the United States Create a Unified Department of Homeland Security after 9/11?  
 Research Mentor: Brendan O'Leary  
 Research Institution: University of Pennsylvania  
 Home Institution: Spelman College  
 Co-Authors: Brendan O'Leary, University of Pennsylvania  
 PE

**David Leon ..... 11:15 AM, CC-16**

Presentation Title: Gastric Band Release Rapidly Impacts Eating Behavior, Satiety Hormones and Weight  
 Research Mentor: Fritz Francois  
 Research Institution: New York University Sackler Institute  
 Home Institution: College of New Jersey  
 Co-Authors: Fritz Francois, New York University  
 AB

**Sarah Leone.....3:15 PM, CC-14**

Presentation Title: Analysis of Midbody Remnant Internalization During *Caenorhabditis elegans* Embryogenesis  
 Research Mentor: Jeremy Nance  
 Research Institution: New York University Sackler Institute  
 Home Institution: Villanova University  
 Co-Authors: Jeremy Nance and Ann Wehman, New York University  
 BB

**Joseph Leshin .....5:00 PM, CC-22**

Presentation Title: Exercise and Psychological Inertia  
 Research Mentor: James Gross  
 Research Institution: Stanford University  
 Home Institution: California State Polytechnic University  
 Co-Authors: James J. Gross and Guarav Suri, Stanford University School of Humanities & Sciences  
 SS

**Melissa Lester .....5:15 PM, CC-12**

Presentation Title: Determining if Differences in the Catalytic Activity of Diacylglycerol kinase zeta and alpha Control the Suppression of ERK Phosphorylation in T cell Receptor Signaling  
 Research Mentor: Gary Koretzky  
 Research Institution: University of Pennsylvania  
 Home Institution: Temple University  
 Co-Authors: Rohan Joshi and Gary Koretzky, University of Pennsylvania  
 BB

**Laura Leung .....5:45 PM, CC-21**

Presentation Title: Development of a Rapid Quantification Assay to Measure Target Inhibition in MPN Patient Samples  
 Research Mentor: Priya Koppikar  
 Research Institution: Weill Cornell Medical College  
 Home Institution: Smith College  
 Co-Authors: Priya Koppikar and Ross L. Levine, Weill Cornell/Rockefeller/Sloan-Kettering  
 AB

**Dan Li ..... 11:15 AM, CC-14**

Presentation Title: SPINK1 Expression in Prostate Cancers and Its Effects on Other Transcriptions Factors  
 Research Mentor: Yu Chen  
 Research Institution: Weill Cornell Medical College  
 Home Institution: Harvard University  
 Co-Authors: Yu Chen and Shipra Shukla, Weill Cornell/Rockefeller/Sloan-Kettering  
 BB

**Marianne Ligon .....5:45 PM, CC-12**

Presentation Title: In vitro Tools for Identifying SFB Signals that Stimulate Th17 Cell Development  
 Research Mentor: Dan Littman  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Georgia  
 Co-Authors: Dan R. Littman and Joshua Ziel, New York University  
 AB

**Quinlyn Little Owl.....5:30 PM, CC-16**

Presentation Title: The Incidents of Radon Level on the Apsaalooke Reservation in Montana  
 Research Mentor: Neva Tall Bear  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Little Big Horn College  
 Co-Authors: Neva Tall Bear, StellJo Passes and Marisol Doporto, Montana State University -Bozeman  
 AB

**Jie Bin Liu .....3:45 PM, CC-11**

Presentation Title: Identification of Clock-controlled mRNAs that Regulate Eclosion Rhythm in the Prothoracic Gland of *Drosophila melanogaster*  
 Research Mentor: F Rob Jackson  
 Research Institution: Tufts University BioMedical Sciences  
 Home Institution: Colby College  
 Co-Authors: Rob Jackson and Yanmei Huang, Tufts University School of Graduate Biomedical Sciences  
 BB

**Xiang Liu ..... 11:45 AM, CC-15**

Presentation Title: Elucidating How *Staphylococcus aureus* Leukotoxin AB Targets and Kills Mammalian Cell Through Structure-function Analysis  
 Research Mentor: Victor Torres  
 Research Institution: New York University Sackler Institute  
 Home Institution: Emory University  
 Co-Authors: Victor Torres and Ashley Dumont, New York University  
 BB

**Nathan Lo .....12:15 PM, CC-11**

Presentation Title: Immune Complex Vaccine for the Production of Broad Neutralizing Antibodies Against HIV  
 Research Mentor: Catarina Hioe  
 Research Institution: New York University Sackler Institute  
 Home Institution: Rice University  
 Co-Authors: Catarina Hioe and Michael Tuen, New York University  
 AB

**Shelby Lohr .....3:15 PM, CC-26**

Presentation Title: The Evolution of Evangelicalism  
Through Early American Texts  
Research Mentor: Shelby Lohr  
Research Institution: Brown University  
Home Institution: Georgia State University  
Co-Authors: Linford Fisher, Brown University  
SS

**Juan Lopez .....3:15 PM, CC-12**

Presentation Title: Characterization of the Kinetics of  
Mutant T178I in Embryonic Myosin  
Research Mentor: Leslie Leinwand  
Research Institution: University of Colorado Boulder  
Home Institution: University of Miami  
Co-Authors: Leslie Leinwand and John Deacon,  
University of Colorado at Boulder  
BB

**Shiying Lu .....4:00 PM, CC-13**

Presentation Title: Does Mediator Complex Subunit  
12 Have a Regulatory Role in Hematopoietic Stem  
Cell Differentiation?  
Research Mentor: Iannis Aifantis  
Research Institution: New York University Sackler  
Institute  
Home Institution: Jacobs University Bremen  
Co-Authors: Iannis Aifantis and Beatriz Aranda-  
Orgilles, New York University  
BB

**Tommaso Lucchesi .....4:00 PM, CC-11**

Presentation Title: Impact of Sister Chromatid  
Cohesion in Telomeric Function in u2os Cells  
Research Mentor: Susan Smith  
Research Institution: New York University Sackler  
Institute  
Home Institution: New York University  
Co-Authors: Susan Smith and Mahesh Ramamoorthy,  
New York University  
BB

**Sarah Lund ..... 11:30 AM, CC-12**

Presentation Title: Induction of Toll-Like Receptor  
9 Signaling as a Method for Ameliorating  
Neuropathology in an Alzheimer's Disease Mouse  
Model  
Research Mentor: Thomas Wisniewski  
Research Institution: New York University Sackler  
Institute  
Home Institution: Massachusetts Institute of  
Technology  
Co-Authors: Thomas Wisniewski and Henrieta  
Scholtzova, New York University  
AB

**Kelsey Maness .....2:45 PM, CC-23**

Presentation Title: Mechanism of Inflammasome  
Stimulation by *Listeria monocytogenes* in Human  
Myeloid Dendritic Cells  
Research Mentor: Nina Bhardwaj  
Research Institution: New York University Sackler  
Institute  
Home Institution: Mount Holyoke College  
Co-Authors: Nina Bhardwaj, Elizabeth Miller and  
Meredith Spadaccia, New York University  
AB

**Rukhinda Maqsood .....5:15 PM, CC-11**

Presentation Title: Construction of a Constitutive  
PolIII Vector for Mediating RNA Interference of  
Developmental Genes in *Dictyostelium discoideum*  
Research Mentor: Robert Dottin  
Research Institution: Hunter College  
Home Institution: Hunter College  
Co-Authors: Robert Dottin and Marie McAnuff, Hunter  
College  
BB

**Gabriel Marrero .....2:45 PM, CC-13**

Presentation Title: Characterization of Tau  
Autoantibodies in Human Plasma  
Research Mentor: Einar Sigurdsson  
Research Institution: New York University Sackler  
Institute  
Home Institution: UPR-Rio Piedras  
Co-Authors: Einar Sigurdsson, New York University  
AB

**William Marrero Ortiz .....5:00 PM, CC-17**

Presentation Title: Synthesis of Fluorescent Choline  
Kinase Inhibitors  
Research Mentor: Edward Delikatny  
Research Institution: University of Pennsylvania  
Home Institution: UPR-Rio Piedras  
Co-Authors: Anatoliy V. Popov, Sean P. Arlauckas and  
Edward J. Delikatny, University of Pennsylvania  
AB

**Brian Mbamelu ..... 11:45 AM, CC-13**

Presentation Title: A Role for Notch in Traf6 Regulation  
Research Mentor: Warren Pear  
Research Institution: University of Pennsylvania  
Home Institution: City College of New York  
Co-Authors: Warren Pear, Yumi Ohtani and Will Bailis,  
University of Pennsylvania  
BB



**Sean McAdams Luna .....12:30 PM, CC-26**

Presentation Title: Public Opinion Change in the  
Transnational Context: The Link Between Social  
Change and Migrant Networks  
Research Mentor: Robert Shapiro  
Research Institution: Columbia University  
Home Institution: Brown University  
Co-Authors: Robert Shapiro, Narayani Lasala Blanco  
and Amber Spry, Columbia University  
PE

**Tomas Meijome.....5:30 PM, CC-12**

Presentation Title: Characterizing Factors of the  
Melanoma Tumor Microenvironment Involved in  
Exhaustion of Natural Killer Cells  
Research Mentor: Nina Bhardwaj  
Research Institution: New York University Sackler  
Institute  
Home Institution: Indiana University Purdue University  
Co-Authors: Nina Bhardwaj, Ines Pires da Silva and  
Anne Gallois, New York University  
AB

**Allatah Mekile.....5:15 PM, CC-17**

Presentation Title: The Role of Trim 2 Polymorphisms  
in Restricting Junin Infection  
Research Mentor: Susan Ross  
Research Institution: University of Pennsylvania  
Home Institution: East Stroudsburg University of  
Pennsylvania  
Co-Authors: Susan R. Ross and Spiros Stavrou,  
University of Pennsylvania  
AB

**Jessica Mendez .....2:45 PM, CC-24**

Presentation Title: Revolutionary Women in the Young  
Lords Party: Radical Internationalism, Black Power  
and Feminism, 1968-1974  
Research Mentor: Samuel Roberts  
Research Institution: Columbia University  
Home Institution: City College of New York  
Co-Authors: Samuel K. Roberts and James T. Roane,  
Columbia University  
HU

**Mikki Mesfin.....3:30 PM, CC-12**

Presentation Title: Localizing Expression of c-myc  
Within the Embryonic Brain  
Research Mentor: Jerry Stitzel  
Research Institution: University of Colorado Boulder  
Home Institution: University of Colorado Boulder  
Co-Authors: Jerry Stitzel, University of Colorado at  
Boulder  
BB

**Tamir Mickens .....5:45 PM, CC-14**

Presentation Title: The Role of TRPV4 in the  
Development and Injury of Fetal Type II Epithelial  
Cells Exposed to Mechanical Stretch  
Research Mentor: Juan Esteban  
Research Institution: Brown University  
Home Institution: Morehouse College  
Co-Authors: Juan Sanchez-Esteban, Brown University;  
Pritha Nayak and Yulian Wang, Women & Infants  
Hospital

AB

**Danielle Miyagishima.....12:15 PM, CC-12**

Presentation Title: Temporal Differentiation of  
Neocortical Interneuron Progenitor Cells  
Research Mentor: Songhai Shi  
Research Institution: Weill Cornell Medical College  
Home Institution: New Mexico State University  
Co-Authors: Songhai Shi, Khadeejah T. Sultan and  
Keith N. Brown, Weill Cornell/Rockefeller/Sloan-  
Kettering

BB

**Bretney Moore .....3:00 PM, CC-26**

Presentation Title: Rigidity Means Death: Intersections  
in the Work of Bessie Head and Gloria Anzaldua  
Research Mentor: Jose David Sadivar  
Research Institution: Stanford University  
Home Institution: Hunter College  
Co-Authors: Jose David Saldivar, Stanford University  
School of Humanities & Sciences  
HU

**Joshua Moore .....12:30 PM, CC-12**

Presentation Title: Determining Cellular Localization of  
hTDP-43 during Beta-amyloid Plaque Formation  
Research Mentor: Chris Link  
Research Institution: University of Colorado Boulder .....  
University of Texas at Austin  
Home Institution: Christopher Link, University of  
Co-Authors: Colorado at Boulder  
BB

**Yoelkys Morales .....4:45 PM, CC-12**

Presentation Title: T-Cell Exhaustion in DBA/2 and  
BALB/c Mice after Infection with Babesia Microti  
Research Mentor: Henry Wortis  
Research Institution: Tufts University BioMedical  
Sciences  
Home Institution: Williams College  
Co-Authors: Henry Wortis, Tufts University School of  
Graduate Biomedical Sciences  
AB



**Jessica Morgan .....2:45 PM, CC-15**

Presentation Title: The Kinesin II Family Motor Protein, KIF17, Contributes to Microtubule Stabilization and Actin Polymerization in Epithelial Cells  
 Research Mentor: Geri Kreitzer  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: CSU Fullerton  
 Co-Authors: Geri Kreitzer, Weill Cornell Graduate School of Medical Sciences  
 BB

**Tyler Moroles .....5:30 PM, CC-26**

Presentation Title: The Invisible Hand on the American Dream: The IMF's Influence Over Migration to the United States  
 Research Mentor: Robert Shapiro  
 Research Institution: Columbia University  
 Home Institution: DePaul University  
 Co-Authors: Robert Shapiro, Narayani Lasala Blanco and Amber Spry, Columbia University  
 PE

**Kristy Mungal .....3:00 PM, CC-23**

Presentation Title: Non-Invasive In vivo Imaging of a Subcutaneous Melanoma Model Provides an In-depth View of Tumor Growth Dynamics  
 Research Mentor: Daniel Turnbull  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Trinidad and Tobago  
 Co-Authors: Daniel Turnbull, Ben Bartelle and Giselle Suero, New York University  
 AB

**Paul Muniz .....5:00 PM, CC-26**

Presentation Title: The Effectiveness of the Distribution of Resources in Law Schools' Public Interest Programs  
 Research Mentor: David Grusky  
 Research Institution: Stanford University  
 Home Institution: SUNY College at Geneseo  
 Co-Authors: David Grusky and Swetha Ballakrishnen, Stanford University School of Humanities & Sciences  
 SS

**Conor Murphy .....5:45 PM, CC-15**

Presentation Title: Analysis of the J alpha-C alpha Introns Function in Transgenic Mice  
 Research Mentor: Benjamin Ortiz  
 Research Institution: Hunter College  
 Home Institution: York College of Pennsylvania  
 Co-Authors: Benjamin Ortiz and Martina Kucerova-Levisohn, Hunter College  
 BB

**Johanna Nifosi..... 11:15 AM, CC-21**

Presentation Title: Measuring Immune Development in Larval Amphibians to Understand Age-Dependent Susceptibility to Infection by *Riberoia ondatrae* (Class Trematoda)  
 Research Mentor: Pieter Johnson  
 Research Institution: University of Colorado Boulder  
 Home Institution: Universidad Metropolitana  
 Co-Authors: Pieter Johnson and Bethany Hoye, University of Colorado at Boulder  
 ES

**Tomas Nivon .....4:00 PM, CC-27**

Presentation Title: Bankruptcy Distress Cost Analysis with Derivatives  
 Research Mentor: Darrell Duffie  
 Research Institution: Stanford University  
 Home Institution: Hunter College  
 Co-Authors: Darrell Duffie and Kristoffer Laursen, Stanford University School of Humanities & Sciences  
 SS

**Oluremi Ojo .....3:30 PM, CC-11**

Presentation Title: Alternative Lengthening of Telomeres in Embryonic Development  
 Research Mentor: Oluremi Ojo  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Georgia  
 Co-Authors: David Keefe and Keri Kalmbach, New York University  
 BB

**Michael Okoreeh..... 11:45 AM, CC-14**

Presentation Title: Optimizing Biomarkers to Identify MTAP Deficiency in Cancer  
 Research Mentor: Olufunmilayo Olopade  
 Research Institution: University of Chicago  
 Home Institution: UC Riverside  
 Co-Authors: Olufunmilayo Olopade, Tatyana Grushko and Mariann Coyle, University of Chicago  
 BB

**Royce Onyimba.....5:15 PM, CC-16**

Presentation Title: The Role of TIPE3 in Gut Epithelial Inflammation  
 Research Mentor: Youhai Chen  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Youhai Chen and Honghong Sun, University of Pennsylvania  
 BB

**Cecelia Oparah .....5:30 PM, CC-24**

Presentation Title: Race, Identity, and Transnational Connections among the Nigerian Second Generation

Research Mentor: Patricia Fernández-Kelly

Research Institution: Princeton University

Home Institution: Princeton University

Co-Authors: Patricia Fernández-Kelly, Princeton University

SS

**Dalila Ordonez.....12:00 PM, CC-11**

Presentation Title: Potential Antioxidant Effects of SDG Treatment on HIV-mediated Neurotoxicity

Research Mentor: Kelly Jordan-Sciutto

Research Institution: University of Pennsylvania

Home Institution: Hunter College

Co-Authors: Jennifer King, Akin Odeleye and Kelly Jordan-Sciutto, University of Pennsylvania

AB

**Stephanie Ortiz .....12:30 PM, CC-16**

Presentation Title: cFos Immunoreactivity as a Result of Maternal Malnutrition and Stress

Research Mentor: Stephanie Ortiz

Research Institution: University of Pennsylvania

Home Institution: UPR-Rio Piedras

Co-Authors: Teresa Reyes, University of Pennsylvania

BB

**Veronica Parra .....3:45 PM, CC-17**

Presentation Title: The Identification of Inhibitory Beta-Amyloid Compounds Using a High-Throughput Assay

Research Mentor: Michael Stowell

Research Institution: University of Colorado Boulder

Home Institution: University of Denver

Co-Authors: Michael Stowell, Daniel J. Adams and Daniel Gulbranson, University of Colorado at Boulder

BB

**Varun Patel.....3:45 PM, CC-13**

Presentation Title: Intra-Subject Variability in Attention-Deficit Hyperactivity Disorder

Research Mentor: Xavier Castellanos

Research Institution: New York University Sackler Institute

Home Institution: University of Pennsylvania

Co-Authors: Xavier Castellanos and Nicoletta Adamo, New York University

BB

**Aparecio Peggins.....12:30 PM, CC-17**

Presentation Title: Cocaine Use Reduction with Buprenorphine - CURB

Research Mentor: Mark Burke

Research Institution: Howard University

Home Institution: Morehouse College

Co-Authors: William Lawson, Howard University

SS

**Anairis Perez .....12:00 PM, CC-26**

Presentation Title: Linked Struggle: Finding Community through Art History

Research Mentor: Gwendolyn DuBois Shaw

Research Institution: University of Pennsylvania Arts & Sciences

Home Institution: Florida State University

Co-Authors: Gwendolyn DuBois Shaw, University of Pennsylvania

HU

**Benjamin Pollak.....12:30 PM, CC-22**

Presentation Title: Nonpolymorphic Phase Transitions in Bulk Metallic Glasses

Research Mentor: Corey O'Hern

Research Institution: Yale University

Home Institution: Washington University in St. Louis

Co-Authors: Corey O'Hern and Minglei Wang, Yale University

PS

**Melissa Powell .....4:45 PM, CC-25**

Presentation Title: Private Speech During Delay of Gratification

Research Mentor: Gregory Walton

Research Institution: Stanford University

Home Institution: CSU Monterey Bay

Co-Authors: Kyla Haimovitz, Stanford University School of Engineering; Gregory Walton, Stanford University School of Humanities & Sciences

SS

**Carlos Puentes .....4:45 PM, CC-22**

Presentation Title: Predicting the Benefit of Antidepressant Medication Relative to Placebo Using Patient Characteristics

Research Mentor: Robert DeRubeis

Research Institution: University of Pennsylvania

Home Institution: University of Central Florida

Co-Authors: Nicholas Forand and Robert DeRubeis, University of Pennsylvania; Jay Fournier, Western Psychiatric Institute and Clinic

SS

**Emmanuel Quaidoo .....12:15 PM, CC-16**

Presentation Title: Optogenetic Stimulation of the  
BNST in Mice Induces Feeding  
Research Mentor: Dayu Lin  
Research Institution: New York University Sackler  
Institute  
Home Institution: Columbia University  
Co-Authors: Dayu Lin, New York University  
BB

**Krystina Quow .....3:15 PM, CC-23**

Presentation Title: Sperm Cell Transfer and Automated  
Sperm Search Using Laser Microdissection  
Research Mentor: Joel Oppenheim  
Research Institution: New York University Sackler  
Institute  
Home Institution: Duke University  
Co-Authors: Zoran Budmilja and Grace Axler-DiPerte,  
New York University; Sevasty Papakanakis, Hunter  
College  
AB

**Charrise Ramkissoon .....3:30 PM, CC-23**

Presentation Title: Validation of IVIM-DWI Diffusion  
Parameters through Histology Quantification  
Research Mentor: Sungheon Kim  
Research Institution: New York University Sackler  
Institute  
Home Institution: University of Trinidad and Tobago  
Co-Authors: Sungheon Kim and Jin Zhang, New York  
University  
AB

**Brittany Rauzan ..... 11:30 AM, CC-22**

Presentation Title: Soft Nanoimprint Lithography Using  
Bulk Metallic Glass for Fabrication of Polymer-  
Based Solar Cells with Enhanced Performance  
Research Mentor: Chinedum Osuji  
Research Institution: Yale University  
Home Institution: Allegheny College  
Co-Authors: Candice Pelligra and Chinedum Osuji,  
Yale University  
EN

**Candy Reid ..... 11:45 AM, CC-21**

Presentation Title: Design and Fabrication of a High  
Throughput Combinatorial Electrochemical  
Testing System  
Research Mentor: Andre Taylor  
Research Institution: Yale University  
Home Institution: University of Central Florida  
Co-Authors: Andre Taylor and Ryan Sekol, Yale  
University  
EN

**Felix Reyes .....3:30 PM, CC-16**

Presentation Title: Temporal Variables in  
Dopaminergic-mediated Plasticity of Auditory  
Cortical Circuits  
Research Mentor: Robert Froemke  
Research Institution: New York University Sackler  
Institute  
Home Institution: Instituto Tecnológico de Santo  
Domingo  
Co-Authors: Robert Froemke and Ioana Carcea, New  
York University  
BB

**Anthony Rivera ..... 11:45 AM, CC-16**

Presentation Title: Survey of Time Budgeting and  
Feeding Preferences in Black-tailed Prairie Dogs  
Research Mentor: Timothy Seastedt  
Research Institution: University of Colorado Boulder  
Home Institution: Brown University  
Co-Authors: Timothy Seastedt, University of Colorado  
at Boulder  
BB

**Stephanie Rivera ..... 11:15 AM, CC-17**

Presentation Title: The Role of HDAC6 on Cigarette  
Smoke-Induced Endothelial Barrier Dysfunction  
and Deacetylation of  $\alpha$ -Tubulin  
Research Mentor: Qing Lu  
Research Institution: Brown University  
Home Institution: UPR-Rio Piedras  
Co-Authors: Qing Lu, Sharon Rounds and Julie  
Newton, Brown University  
BB

**Juan Rivera Correa ..... 11:15 AM, CC-11**

Presentation Title: Interferon-Stimulated Genes Restrict  
Replication of Human Rhinoviruses  
Research Mentor: Christian Schindler  
Research Institution: Columbia University  
Home Institution: UPR-Rio Piedras  
Co-Authors: Michael Schreiber and Christian W.  
Schindler, Columbia University  
AB

**Ramon Rodriguez .....5:15 PM, CC-14**

Presentation Title: Mechanisms of KATP Channel  
Endocytosis  
Research Mentor: William Coetzee  
Research Institution: New York University Sackler  
Institute  
Home Institution: Brown University  
Co-Authors: William Coetzee and Monique Foster,  
New York University  
BB

**Roberto Rodriguez ..... 11:30 AM, CC-24**

Presentation Title: Violent Inscriptions, Psychic Wounds: Politics, Violence, Psychosis in Horacio Castellano Moya's *Insensatez*  
 Research Mentor: Miguel Martinez  
 Research Institution: University of Chicago  
 Home Institution: Hampshire College  
 Co-Authors: Miguel Martinez, University of Chicago HU

**Matthew Rollins ..... 11:45 AM, CC-12**

Presentation Title: Effect of SIV in the Brain: Impact of SIV Infection on Neurogenesis in a Pediatric Rhesus Macaque Model  
 Research Mentor: Mark Burke  
 Research Institution: Howard University  
 Home Institution: Washington and Jefferson College  
 Co-Authors: Kristina Abel, University of North Carolina Chapel Hill; Mark Burke and Kimberly Curtis, Howard University  
 AB

**Jorge Rosario ..... 4:00 PM, CC-14**

Presentation Title: Development of Novel RNA Delivery Method via Self-Assembled Nanopieces  
 Research Mentor: Qian Chen  
 Research Institution: Brown University  
 Home Institution: Massachusetts Institute of Technology  
 Co-Authors: Qian Chen, Yupeng Chen and Tianbin Zhou, Brown University  
 AB

**Adam Ross ..... 4:45 PM, CC-13**

Presentation Title: Modifications of Conserved Lysine and Serine Residues Contribute to the Regulatory Activities of Nkx2.2  
 Research Mentor: Lori Sussel  
 Research Institution: Columbia University  
 Home Institution: University of San Francisco  
 Co-Authors: James Papizan and Lori Sussel, Columbia University  
 BB

**Guillaume Roubaix ..... 2:45 PM, CC-11**

Presentation Title: Implication of HPIP in the Chromosome Segregation  
 Research Mentor: Angus Wilson  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Paris Diderot  
 Co-Authors: Angus Wilson and Ju-Youn Kim, New York University  
 BB

**Estee Rubien-Thomas ..... 12:00 PM, CC-17**

Presentation Title: Cognitive and Neuroplastic Effects of Chronic Morphine and Morphine Withdrawal in Mice  
 Research Mentor: Irwin Lucki  
 Research Institution: University of Pennsylvania  
 Home Institution: Wesleyan University  
 Home Institution: Bethany Brookshire and Irwin Lucki, Co-Authors: University of Pennsylvania  
 AB

**Rachel Rudlaff ..... 3:00 PM, CC-13**

Presentation Title: Malarial Anemia: The Role of Homeostasis and Autoimmunity  
 Research Mentor: Ana Rodriguez  
 Research Institution: New York University Sackler Institute  
 Home Institution: Michigan State University  
 Co-Authors: Ana Rodriguez and Cristina Fernandez Arias, New York University  
 AB

**Guy Sakamoto ..... 3:15 PM, CC- 24**

Presentation Title: A Systematic Review of Research on the Consequences of Maternal Incarceration for Children  
 Research Mentor: Christopher Wildeman  
 Research Institution: Yale University  
 Home Institution: Chaminade University of Honolulu  
 Co-Authors: Christopher Wildeman, Yale University  
 SS

**Lina Sanchez ..... 12:15 PM, CC-15**

Presentation Title: Survival of Host-Passaged *Vibrio cholerae* Under Various Stress Conditions  
 Research Mentor: Andrew Camilli  
 Research Institution: Tufts University BioMedical Sciences  
 Home Institution: Clark University  
 Co-Authors: Faith Wallace-Gadsden and Andrew Camilli, Tufts University School of Graduate Biomedical Sciences  
 BB

**Emilce Santana ..... 3:30 PM, CC-24**

Presentation Title: Re-examining the Educational Outcomes of U.S. Hispanic/Latino Children of Immigrants  
 Research Mentor: Angel Harris  
 Research Institution: Princeton University  
 Home Institution: University of Pennsylvania  
 Co-Authors: Angel L. Harris, Princeton University  
 SS

**Patricia Mae Santos .....3:45 PM, CC-16**

Presentation Title: Identifying RNA Sequestered by Pathologic TDP43 in Frontotemporal Lobar Dementia and Amyotrophic Lateral Sclerosis  
 Research Mentor: Patricia Santos  
 Research Institution: University of Pennsylvania  
 Home Institution: Brown University  
 Co-Authors: Edward B. Lee, University of Pennsylvania  
 BB

**Melanie Santos-Marrero.....12:30 PM, CC-14**

Presentation Title: Does TGF-beta Inhibition Increase Immunogenic Cell Death in Irradiated Cancer Cells?  
 Research Mentor: Mary Helen Barcellos-Hoff  
 Research Institution: New York University Sackler Institute  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Mary Helen Barcellos-Hoff, Ilenia Pellicciotta and Derek Francis, New York University  
 AB

**Jonathon Savage .....2:45 PM, CC-26**

Presentation Title: Product Place(ment): Spatial Branding and the Unfamiliar Geography of Materialism in Don DeLillo and Colson Whitehead  
 Research Mentor: Patrick Deer  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of North Texas  
 Co-Authors: Patrick Deer, New York University  
 HU

**Blake Scott.....12:15 PM, CC-13**

Presentation Title: Barx1 and Wnt Signaling: The Characterization of a Homeobox Gene in Gastric Carcinogenesis  
 Research Mentor: Stephen Meltzer  
 Research Institution: Johns Hopkins University  
 Home Institution: East Central University  
 Co-Authors: Stephen Meltzer, John Abraham and Jee Hoon Song, Johns Hopkins University  
 BB

**Anthony Scruse.....12:00 PM, CC-15**

Presentation Title: An Exploration of Peptidomimicry by an Antibacterial Natural Product  
 Research Mentor: Jason Sello  
 Research Institution: Brown University  
 Home Institution: Morehouse College  
 Co-Authors: Jason Sello and Daniel Carney, Brown University  
 BB

**Christine Semple.....12:00 PM, CC-25**

Presentation Title: The Cool: Blackface, Hip hop, and Geishas  
 Research Mentor: Key Jo Lee  
 Research Institution: Yale University  
 Home Institution: Howard University  
 Co-Authors: Key Jo Lee, Yale University  
 HU

**Kelissa Shillingford.....5:30 PM, CC-17**

Presentation Title: Inhibition of Calcineurin by DSCR1 Over-expression or Cyclosporin A and Their Effect on Proliferation via the ras Pathway  
 Research Mentor: Sandra Ryeom  
 Research Institution: University of Pennsylvania  
 Home Institution: Hunter College  
 Co-Authors: Sandra Ryeom and Alice Zhou, University of Pennsylvania  
 AB

**Angelica Simmons .....5:30 PM, CC-13**

Presentation Title: Changes in Expression of Equine Genes Involved in Laminitis Pathology  
 Research Mentor: Vivian Cheung  
 Research Institution: University of Pennsylvania  
 Home Institution: Louisiana State University-Baton Rouge  
 Co-Authors: Vivian Cheung, Hannah Galantino-Homer and Brittany Gregory, University of Pennsylvania  
 BB

**LaTonya Simon .....3:30 PM, CC-22**

Presentation Title: Directing Motor Axon Outgrowth Using Hydrogels  
 Research Mentor: Kristi Anseth  
 Research Institution: University of Colorado Boulder  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Kristi Anseth and Mirza Peljto, University of Colorado at Boulder  
 AB

**April Sosa ..... 11:15 AM, CC-12**

Presentation Title: Severe Traumatic Brain Injury in Rats Affects Markers of Memory Maintenance and Neurodegeneration  
 Research Mentor: Peter Serrano  
 Research Institution: Hunter College  
 Home Institution: George Washington University  
 Co-Authors: Aissatou Diallo, Maria Pereira-Figueiredo and Peter Serrano, Hunter College  
 AB



**Emilio Soto.....12:30 PM, CC-13**

Presentation Title: Epigenetic Regulation of Notch Signaling  
 Research Mentor: Tao Sun  
 Research Institution: Weill Cornell Medical College  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Tao Sun and Janet Hong, Weill Cornell Graduate School of Medical Sciences  
 BB

**Melissa Spear.....12:00 PM, CC-13**

Presentation Title: The Role of Leucine-Rich Repeat (in Flightless I) Interacting Protein-1 in the Wnt/ $\beta$ -catenin Pathway  
 Research Mentor: Kathleen Sullivan  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Texas at El Paso  
 Co-Authors: Kathleen E. Sullivan, University of Pennsylvania  
 BB

**Jaimie Stewart .....4:45 PM, CC-21**

Presentation Title: Enzyme-Degradable Hydrogel System Modeled by Microparticles  
 Research Mentor: Stephanie Bryant  
 Research Institution: University of Colorado Boulder  
 Home Institution: University of Illinois at Chicago  
 Co-Authors: Stacey Skaalure and Stephanie Bryant, University of Colorado at Boulder  
 AB

**Hudson Stoner .....4:45 PM, CC-14**

Presentation Title: Gamma Sarcoglycan-mediated Signal Transduction in Skeletal Muscle  
 Research Mentor: Elisabeth Barton  
 Research Institution: University of Pennsylvania  
 Home Institution: Allegheny College  
 Co-Authors: Elisabeth Barton and Janelle Spinazzola, University of Pennsylvania  
 BB

**Camille Suarez ..... 11:30 AM, CC-26**

Presentation Title: The NAACP and the Origin of Cold War Civil Rights: The Effect of Cold War Federal Policy on the Civil Rights Movement, 1945-1948  
 Research Mentor: James Roane  
 Research Institution: Columbia University  
 Home Institution: University of Notre Dame  
 Co-Authors: Samuel K. Roberts and James T. Roane, Columbia University  
 HU

**Isaiah Sypher .....4:45 PM, CC-23**

Presentation Title: Analyzing Motivational Factors in Depression  
 Research Mentor: Ian Gotlib  
 Research Institution: Stanford University  
 Home Institution: Wesleyan University  
 Co-Authors: Ian Gotlib, Stanford University School of Humanities & Sciences  
 SS

**Christy Taylor .....4:45 PM, CC-16**

Presentation Title: An Investigation of the Molecular and Mechanical Regulation of Cell Migration in *Drosophila*  
 Research Mentor: Michelle Starz-Gaiano  
 Research Institution: University of Maryland, Baltimore County  
 Home Institution: University of Miami  
 Co-Authors: Jinal Sheth, Amanda Monahan and Michelle Starz-Gaiano, University of Maryland, Baltimore County  
 BB

**Noor Tell.....12:30 PM, CC- 23**

Presentation Title: Calculating Surface Area of Fractal Bacterial Flocs  
 Research Mentor: David Bortz  
 Research Institution: University of Colorado Boulder  
 Home Institution: Wesleyan University  
 Co-Authors: David Bortz, University of Colorado at Boulder  
 PS

**Brooke Thomas ..... 11:15 AM, CC-26**

Presentation Title: Substance Over Style: Reconsidering Chicago's Black Elite between 1930-1960  
 Research Mentor: Adam Green  
 Research Institution: University of Chicago  
 Home Institution: Spelman College  
 Co-Authors: Adam Green, University of Chicago  
 HU

**Paul Tran .....12:15 PM, CC-26**

Presentation Title: Standing on the Edge of Each Other's Battles: Race, Higher Education, & the Third World Freedom Struggle, 1976-1996  
 Research Mentor: Liza Cariaga-Lo  
 Research Institution: Harvard University  
 Home Institution: Brown University  
 Co-Authors: Liza Cariaga-Lo, Harvard University Arts and Sciences; Naoko Shibusawa and Francoise Hamlin, Brown University  
 HU

**Tyehimba Turner .....5:00 PM, CC-14**

Presentation Title: Identifying Novel Metabolic Pathways Involved in Rebaudioside A Breakdown and Transport in Wild Type Microbes  
 Research Mentor: Tyehimba Turner  
 Research Institution: University of Chicago  
 Home Institution: Dominican University  
 Co-Authors: Sean Crosson and Aretha Fiebig, University of Chicago  
 BB

**David Turner III .....12:30 PM, CC-27**

Presentation Title: Minority Students, Financial Aid, and the Finish Line: College Access and Completion in Texas  
 Research Mentor: Stella Flores  
 Research Institution: Vanderbilt University  
 Home Institution: CSU Dominguez Hills  
 Co-Authors: Stella Flores and Toby Park, Vanderbilt University  
 SS

**Osaze Udeagbala.....5:45 PM, CC-11**

Presentation Title: Real-Time Single-Molecule Visualization of Prokaryotic Transcriptional Regulation  
 Research Mentor: Osaze Udeagbala  
 Research Institution: Memorial Sloan Kettering Cancer Center  
 Home Institution: Cooper Union  
 Co-Authors: Alexandros Pertsinidis, Weill Cornell/Rockefeller/Sloan-Kettering  
 BB

**Glenda Ullauri .....3:45 PM, CC-25**

Presentation Title: Global Environmentalism in the Rio+20 Conference: Political Crisis in the Making of a Sustainable Future  
 Research Mentor: Bret Gustafson  
 Research Institution: Washington University in St. Louis  
 Home Institution: City College of New York  
 Co-Authors: Bret Gustafson, Washington University in St. Louis  
 SS

**Alexander Vega ..... 11:45 AM, CC-11**

Presentation Title: HIV-2 Nucleocapsid Protein  
 Research Mentor: Michael Summers  
 Research Institution: University of Maryland, Baltimore County  
 Home Institution: University of West Florida  
 Co-Authors: Michael F. Summers, YuanYuan Liu and Venki Ramakrishnan, University of Maryland, Baltimore County  
 BB

**Janice Vicenty.....5:00 PM, CC-21**

Presentation Title: MARCKS Peptide's Phenylalanine Role in Sensing Membrane Curvature  
 Research Mentor: Hang (Hubert) Yin  
 Research Institution: University of Colorado Boulder  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Hang Yin and Leslie Morton, University of Colorado at Boulder  
 AB

**Vanessa Vieira .....5:00 PM, CC-27**

Presentation Title: Investigating the Movement Prediction Function of the Cerebellum  
 Research Mentor: Eric Lang  
 Research Institution: New York University Sackler Institute  
 Home Institution: UMass Dartmouth  
 Co-Authors: Eric Lang, New York University  
 SS

**Emile Vieta .....3:45 PM, CC-22**

Presentation Title: Silver Nanoparticle-based Imaging Agents for Breast X-ray Imaging  
 Research Mentor: Andrew Maidment  
 Research Institution: University of Pennsylvania.....UPR-Mayaguez  
 Home Institution: Roshan Karunamuni, Andrew  
 Co-Authors: Tsourkas and Andrew Maidment, University of Pennsylvania  
 AB

**Cynthia Villacis.....3:30 PM, CC-25**

Presentation Title: Partisan Taunting in Congress  
 Research Mentor: Justin Grimmer  
 Research Institution: Stanford University  
 Home Institution: University of San Diego  
 Co-Authors: Justin Grimmer, Stanford University School of Humanities & Sciences; Gary King and Chiara Superti, Harvard University Arts and Sciences  
 SS

**Marcos Villarreal ..... 11:15 AM, CC-15**

Presentation Title: How Mycobacterium vaccae May Cure Chronic Depression  
 Research Mentor: Chris Lowry  
 Research Institution: University of Colorado Boulder  
 Home Institution: Boston University  
 Co-Authors: Christopher Lowry and Nina Donner, University of Colorado at Boulder  
 AB



**Peter Vitale .....12:15 PM, CC-21**

Presentation Title: Chemistry of Graphene Oxide  
 Research Mentor: Charles Drain  
 Research Institution: Hunter College  
 Home Institution: Iona College  
 Co-Authors: Charles Michael Drain, Matthew Jurow  
 and Brian Hageman, Hunter College  
 PS

**Julie Walker .....3:00 PM, CC-21**

Presentation Title: A Fingertip Haptic Feedback Device  
 for Remote Palpation with a BioTac Sensor  
 Research Mentor: Katherine Kuchenbecker  
 Research Institution: University of Pennsylvania  
 Home Institution: Rice University  
 Co-Authors: Katherine Kuchenbecker, Will McMahan  
 and Jennifer Hui, University of Pennsylvania  
 EN

**Sarah Wellington .....5:15 PM, CC-25**

Presentation Title: Reclaiming the Sun: Depictions of  
 Female as Sexual and Mythical in Modern Japanese  
 Literature  
 Research Mentor: Indra Levy  
 Research Institution: Stanford University  
 Home Institution: Portland State University  
 Co-Authors: Indra Levy and Joanna Sturiano, Stanford  
 University School of Humanities & Sciences  
 HU

**Janelle White ..... 11:15 AM, CC-27**

Presentation Title: Intra-Racial Stratification in Chicago  
 During the Civil Rights Era: The Role of Public  
 Education  
 Research Mentor: Janelle White  
 Research Institution: University of Chicago  
 Home Institution: University of Washington  
 Co-Authors: Ken Warren, University of Chicago  
 HU

**Zollie White III .....12:15 PM, CC-14**

Presentation Title: Cross-Regulation of Activin A and  
 TGF-beta in Breast Cancer  
 Research Mentor: Sandra Demaria  
 Research Institution: New York University Sackler  
 Institute  
 Home Institution: Morehouse College  
 Co-Authors: Claire Vanpouille-Box and Sandra  
 Demaria, New York University  
 AB

**Kathleen Whiteley .....5:00 PM, CC-25**

Presentation Title: What the Oral Tradition Means  
 to Contemporary Indigenous Communities:  
 Supporting a UNESCO Grant to Preserve Ojibwe  
 First Nations' Cultural Landscapes  
 Research Mentor: Tim Powell  
 Research Institution: University of Pennsylvania  
 Home Institution: UC Berkeley  
 Co-Authors: Tim Powell, University of Pennsylvania  
 SS

**Jasmine Whiteside .....3:45 PM, CC-24**

Presentation Title: What If I Think I Can?  
 Understanding the Impact of Positive Thinking on  
 the Future Success of Children in Rural China  
 Research Mentor: Emily Hannum  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Southern Mississippi  
 Co-Authors: Emily Hannum, University of  
 Pennsylvania  
 SS

**Christina Williams.....4:00 PM, CC-24**

Presentation Title: U.S. Foreign Policy Towards Latin  
 America: Pursuing the National Interest (Or Not?)  
 Research Mentor: Robert Shapiro  
 Research Institution: Columbia University  
 Home Institution: Trinity College  
 Co-Authors: Robert Y. Shapiro, Narayani LaSala Blanco  
 and Amber Spry, Columbia University  
 PE

**Olamide Williams.....3:15 PM, CC-25**

Presentation Title: Wilsonian Foreign Policy and the  
 Paradox of Globalization  
 Research Mentor: Paul Frymer  
 Research Institution: Princeton University  
 Home Institution: Columbia University  
 Co-Authors: Paul Frymer, Princeton University  
 SS

**Clara Woods.....4:00 PM, CC-17**

Presentation Title: Effects of Hypertension on the  
 Subcellular Density of the NMDA Receptor in  
 Corticotropin Releasing Factor Type 1 Receptor  
 Containing Neurons in the Mouse Rostral  
 Ventrolateral Medulla  
 Research Mentor: Michael Glass  
 Research Institution: Weill Cornell Medical College  
 Home Institution: University of Pittsburgh  
 Co-Authors: Michael Glass, Weill Cornell/Rockefeller/  
 Sloan-Kettering  
 BB

**Christine Wu .....4:45 PM, CC-27**

Presentation Title: Subcomponents of Negative Affect  
and Cortisol Reactivity

Research Mentor: Mariann Weierich

Research Institution: Hunter College

Home Institution: Boston College

Co-Authors: Mariann Weierich and Seungyeon Annie  
Lyu, Hunter College

SS

**Diana Yusim .....5:45 PM, CC-23**

Presentation Title: Tri-Institutional MD-PhD Program  
at Weill Cornell/Rockefeller/Sloan-Kettering:  
Outcome Analysis at 40 Years after Inception

Research Mentor: Ruth Gotian

Research Institution: Weill Cornell Medical College

Home Institution: City College of New York

Co-Authors: Ruth Gotian and Olaf Andersen,  
Weill Cornell/Rockefeller/Sloan-Kettering Tri-  
Institutional MD-PhD Program; Laura Liberman,  
Memorial Sloan-Kettering Cancer Center

AB

**Jorge Zarate Rodriguez..... 11:30 AM, CC-16**

Presentation Title: Sub-therapeutic Antibiotic  
Treatment and High Fat Diet Alter Murine Body  
Composition

Research Mentor: Martin Blaser

Research Institution: New York University Sackler  
Institute

Home Institution: New York UniversityCo-Authors:  
Laura Cox and Martin Blaser, New York University

AB

## POSTER PRESENTATIONS BY NUMBER

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

|    |                                 |    |                                                                                                                   |
|----|---------------------------------|----|-------------------------------------------------------------------------------------------------------------------|
| 1  | <b>Alexander Ballard</b>        | AB | Basal Cell Carcinoma, Hedgehog Signaling, and YAP                                                                 |
| 2  | <b>Tyler Beckler</b>            | AB | Gene Expression Analysis in a Genetic Locus Involved in the Recovery from Peripheral Artery Disease               |
| 3  | <b>Heysol Bermudez Cabrera</b>  | AB | Motor Adaptation and Brain Activation following Sudden or Gradual Application of Visual Distortions               |
| 4  | <b>Oladoyin Iranloye</b>        | AB | Generation of epitope-tagged Wnts                                                                                 |
| 5  | <b>Symone Jordan</b>            | AB | The Role of AMPA Receptor Plasticity in Cocaine Conditioned Place Preference                                      |
| 6  | <b>Ernest Nelson</b>            | AB | Monocyte-to-Macrophage Differentiation after Endothelial Transmigration                                           |
| 7  | <b>Valeria Reyes Ruiz</b>       | AB | Investigating the InlF-Vimentin Interaction and its Importance for Listeria monocytogenes Brain Infection         |
| 8  | <b>Antonio Roberts</b>          | AB | The Well-Being of Adolescents in Vulnerable Environments (WAVE): An Analysis of Adolescent Life in East Baltimore |
| 9  | <b>Adriana Santiago-Miranda</b> | AB | Surface Nano-topography Enhances Cardiac Tissue Functions on Poly(lactic-co-glycolic acid) Scaffolds              |
| 10 | <b>Angel Solis</b>              | AB | The Stability of Gastrophilin-1 and Its Affinity to Bacteria                                                      |
| 11 | <b>Janielle Taylor</b>          | AB | Analysis of the Development of Synaptic Connections in the Postnatal Cochlea                                      |
| 12 | <b>Torrieana Triplett</b>       | AB | The Interaction between the Peripheral Nervous System and Immune Cells during Inflammation                        |
| 13 | <b>Jaime Vaquer-Alicea III</b>  | AB | Effect of APP Transmembrane Domain Stability on its Processive Proteolysis by the Gamma-secretase Complex         |
| 14 | <b>Benjamin Walker</b>          | AB | Silencing Hyperactive Neurons: Genetic Engineering a Treatment for Temporal Lobe Epilepsy and Neuropathic Pain    |
| 15 | <b>StellJo Passes</b>           | AB | The Incidents of Radon Level on the Apsaalooke Reservation in Montana                                             |
| 16 | <b>Sadia Afroz</b>              | BB | Structural Studies of an RNA Frameshifting Motif in HIV-1                                                         |
| 17 | <b>Bailey Airoidi</b>           | BB | Regulation of Biofilm Formation in Pseudomonas fluorescens                                                        |
| 18 | <b>Jocelyn Akamune</b>          | BB | The Localization of TAR-DNA Binding Protein in Mouse Testes                                                       |
| 19 | <b>Erick Bayala</b>             | BB | MADS-box Protein Interactions and Subcellular Localization                                                        |
| 20 | <b>Hannibal Black</b>           | BB | Autophagic and Apoptotic Response of Rat Lung Microvascular Endothelial Cells to Cigarette Smoke Extract          |
| 21 | <b>Stephanie Cevallos</b>       | BB | Does EGFL7 Control Notch Signaling in the Bone Marrow?                                                            |
| 22 | <b>Kassi Crocker</b>            | BB | Hippo Pathway's Role in Ovarian Development in Drosophila                                                         |
| 23 | <b>Denarius Frazier</b>         | BB | The Role of Fibroblast growth factor 8 (Fgf8) Signaling in Asymmetric Cardiac Morphogenesis in Zebrafish          |
| 24 | <b>Sherif Gerges</b>            | BB | Utilizing Statistical Analysis to Correlate Methylobacterium Growth Rates with Differing Carbon Sources           |
| 25 | <b>Adan Horta</b>               | BB | Expression and Distribution Patterns of Peptides along the Gastrointestinal Tract                                 |
| 26 | <b>Oluwabusayo Lana</b>         | BB | Expression Analysis of Bk Calcium Channel in Cardiomyocyte                                                        |
| 27 | <b>Brooke Lewis</b>             | BB | Evaluation of Isonicotinamide as an Activator of SIRT3 deacetylase                                                |
| 28 | <b>Emily Lingeman</b>           | BB | Taking in Divalent Metals: Functional Studies of Nramp Transporters                                               |
| 29 | <b>Xiaoyu Liu</b>               | BB | Localization of a Contextual Fear Memory Trace after Extinction                                                   |
| 30 | <b>Daniel Lumpuy</b>            | BB | Application of Triplet State Quencher Linked Dyes to Super Resolution Imaging                                     |

|    |                               |    |                                                                                                                      |
|----|-------------------------------|----|----------------------------------------------------------------------------------------------------------------------|
| 31 | <b>Paula Marín Acevedo</b>    | BB | Mechanisms of Stromal Regulation of Breast Cancer Cell miRNAs which Contribute to Metastasis                         |
| 32 | <b>Kristy Merloni</b>         | BB | Recognition of Damage in Mitochondria by Ubiquitin Receptors in the Mitophagy Pathway                                |
| 33 | <b>Loron Neil</b>             | BB | The Expression of Transient Receptor Potential Melastatin 7 (TRPM 7) in Human Alveolar Basal Epithelial (A549) Cells |
| 34 | <b>Maeva Nyandjo</b>          | BB | Positive Selection of Antibody-Labeled Brain Cells through Magnetic Separation                                       |
| 35 | <b>Temidayo Orederu</b>       | BB | Model-Based vs. Model-Free Reinforcement Learning                                                                    |
| 36 | <b>Nora Ortega</b>            | BB | Role of the Protein Tyrosine Phosphatase Shp2 in Human Heart Disease                                                 |
| 37 | <b>Erica Pursell</b>          | BB | Measuring Flexibility of the Inner Ear Sensory Epithelium: Is Stiffness Associated With Regeneration?                |
| 38 | <b>Keroles Saleh</b>          | BB | Functional Study of Translation Recoding in SARS and MLV Viruses                                                     |
| 39 | <b>Crystal Taylor</b>         | BB | Social Regulation of PKMzeta in African Cichlid Fish                                                                 |
| 40 | <b>Phillip Thomas</b>         | BB | Screening for Novel Interactions between Chromatin Proteins and Histone Modifications                                |
| 41 | <b>Debra Whorms</b>           | BB | Understanding the Role of the Ketogenic-Ketolytic Axis during Periods of Low Carbohydrate Supply                     |
| 42 | <b>Saiah Yates</b>            | BB | Investigation of the Requirement of Hepcidin Antimicrobial Peptide for the Anemia of Inflammation                    |
| 43 | <b>Michael Thompson</b>       | HU | Altered Dominant Chords in Chopin                                                                                    |
| 44 | <b>Kerisha Burke</b>          | PS | Exploring Variations of Graphs with Triangulated n-gons as Vertices: Connectivity & an Upper Bound on the Diameter   |
| 45 | <b>David Cherry</b>           | PS | Coarse-grained Modeling and Simulation of Actin Filaments                                                            |
| 46 | <b>Abbie Gibson</b>           | PS | Oscillators in Cellular Automaton                                                                                    |
| 47 | <b>Blossom Metevier</b>       | PS | Assessing How Visualization Styles Influence Statistical Reasoning in Medical Science                                |
| 48 | <b>Michelle Vaisman</b>       | PS | Conductance Properties of Single Atomic Layer Exfoliated Graphene Near Nanohole Edges                                |
| 49 | <b>Joseph Vokt</b>            | PS | Developing a framework for ab Initio inhibitor design                                                                |
| 50 | <b>Tre Wells</b>              | PS | Actin Dynamics at Multiple Resolutions: A Comparison of Methods to Produce Coarse-Grained Models                     |
| 51 | <b>Naimah Jennings</b>        | PE | A Model for Success or Profit: Educational Investment in Latin America as a Means of Sustainable Development         |
| 52 | <b>Paige Biller</b>           | SS | Ready or Not? Relating Parent-Teacher Beliefs to Kindergarten Outcomes                                               |
| 53 | <b>Victoria Bledsoe</b>       | SS | Evaluation of the Harvard University Native American Program's Recruitment Support Efforts                           |
| 54 | <b>Alessandra Caruso</b>      | SS | The Influences of Traumatic Life Events and PTSD on Young Mothers' Mind-Mindedness                                   |
| 55 | <b>Nadia Centeno Alvarado</b> | SS | Electrophysiological Changes in Spanish Learners: a Longitudinal Language Learning Study                             |
| 56 | <b>Myrna Cintron-Valentin</b> | SS | ERP Measures of L2 Processing during Lexical Decision Making Task in Naive Spanish Learners                          |
| 57 | <b>Alicia Clark</b>           | SS | Mathematical Discourse Communities: Enhancing Experiences for English Language Learners                              |
| 58 | <b>McKenna Corlis</b>         | SS | Exploring the Relation of Preschool Language and Behavior Problems on Academic Readiness                             |

|    |                          |    |                                                                                                                                                        |
|----|--------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 59 | <b>Mercedes Dunn</b>     | SS | Data Collection with New Immigrants Participating in Live Well, a Community-Based Participatory Research Study                                         |
| 60 | <b>Tushmit Hasan</b>     | SS | The Relation between Academic Choice and Student Engagement in Fifth Grade Mathematics Classrooms                                                      |
| 61 | <b>Alesha Henderson</b>  | SS | Targeting 18-24 Year Old Daughters of BRCA1/2 Mutation Carriers: How do We Reach and Support Young Women at High Risk for Breast and Ovarian Cancer?   |
| 62 | <b>Ashley Jenson</b>     | SS | SENSE Theatre: Peer Mediation for the Treatment and Measurement of Social Interaction in Autism                                                        |
| 63 | <b>Devin Karbowicz</b>   | SS | The Enjoyment of Shared Online Experiences                                                                                                             |
| 64 | <b>Seanna Leath</b>      | SS | Examining Associations between Racial Socialization, Racial Identity, and School Adjustment among Bi-Racial Adolescents                                |
| 65 | <b>Janina Maratita</b>   | SS | Exoneration: Flaws in the Criminal Justice System and their Effects on the Falsely Accused                                                             |
| 66 | <b>Thomas Quiroz</b>     | SS | Lesions of Dorsolateral Striatum and Dorsomedial Striatum Disrupt Habit Formation in Instrumental Learning                                             |
| 67 | <b>Nicole Ryan</b>       | SS | What's Love Got to Do with It: How Partner Relationship Quality Affects the Association between Child Maltreatment and Adolescent Risk-taking Behavior |
| 68 | <b>Onaje Smartt</b>      | SS | Demographic Risk and Disruptive Behavior: Are the number of Adults in the Home Related to Teacher-Child Intervention Outcomes?                         |
| 69 | <b>Michelle Stith</b>    | SS | Banking Time and Child Time: Quality of Teacher-Child Interactions and the Role of Child Characteristics                                               |
| 70 | <b>Caroline Titan</b>    | SS | Different Strokes for Different Folks: The Differences within Teacher-Parent Readiness Beliefs                                                         |
| 71 | <b>Alana Tunstel</b>     | SS | Relationships between Explicit Narrative Instruction, Vocabulary, and Narrative Language Skills in Preschool                                           |
| 72 | <b>Brian Walsh</b>       | SS | Education as an Investment in Public Safety: A Case Example of the Prison University Project at San Quentin                                            |
| 73 | <b>Charles Wilkes</b>    | SS | Measuring Conceptions of Statistics: An Analysis of Items and Respondent Patterns                                                                      |
| 74 | <b>Yasmin Zakiniaiez</b> | SS | Amphetamine Effects on Default Mode Network during Emotional Processing in Healthy Young Adults                                                        |
| 75 | <b>Nicole Yamase</b>     | ES | Growth and Competition of Anadyomene in Biscayne Bay, Florida<br>Research Mentor: Diego Lirman                                                         |
| 76 | <b>Andre Jordan</b>      | AB | Alleviation of Neuropathic Pain through Intraspinal Injection of [Ser1] histogranin and Endomorphin-2 Genes in Rats                                    |
| 77 | <b>Rice Poster</b>       | ES | Effects of Ocean Acidification on Mesocosm Coral Calcification Rates                                                                                   |

## POSTER PRESENTATIONS BY NAME

### Sadia Afroz, 16 ..... 9:45-10:45 AM

Presentation Title: Structural Studies of an RNA  
Frameshifting Motif in HIV-1  
Research Mentor: Victoria D'Souza  
Research Institution: Harvard University  
Home Institution: Hunter College  
Carolina Salguero and Victoria D'Souza, Harvard  
University Arts and Sciences

### Bailey Airoidi, 17 ..... 8:45-9:45 AM

Presentation Title: Regulation of Biofilm Formation in  
*Pseudomonas fluorescens*  
Research Mentor: George O'Toole  
Research Institution: Dartmouth College  
Home Institution: St. Lawrence University  
Co-Authors: Chelsea Boyd and George O'Toole,  
Dartmouth College

### Jocelyn Akamune, 18 ..... 9:45-10:45 AM

Presentation Title: The Localization of TAR-DNA  
Binding Protein in Mouse Testes  
Research Mentor: Prabhakara Reddi  
Research Institution: University of Virginia School of  
Medicine  
Home Institution: University of Maryland, Baltimore  
County  
Co-Authors: Prabhakara Reddi and Hari Osuru,  
University of Virginia - BioMedical Sciences

### Alexander Ballard, 1 ..... 8:45-9:45 AM

Presentation Title: Basal Cell Carcinoma, Hedgehog  
Signaling, and YAP  
Research Mentor: Fernando Camargo  
Research Institution: Harvard University, Division of  
Medical Sciences  
Home Institution: University of Maryland, Baltimore  
County  
Co-Authors: Fernando Camargo, Harvard University  
Stem Cell Institute and Children's Hospital Boston;  
Karin Schlegelmilch, Children's Hospital Boston

### Erick Bayala, 19 ..... 8:45-9:45 AM

Presentation Title: MADS-box Protein Interactions and  
Subcellular Localization  
Research Mentor: Elena Kramer  
Research Institution: Harvard University  
Home Institution: UPR-Humacao  
Co-Authors: Elena Kramer, Lynn Holappa and Cheng-  
Chiang Wu, Harvard University Arts and Sciences

### Tyler Beckler, 2 ..... 9:45-10:45 AM

Presentation Title: Gene Expression Analysis in a  
Genetic Locus Involved in the Recovery from  
Peripheral Artery Disease  
Research Mentor: Tyler Beckler  
Research Institution: University of Virginia School of  
Medicine  
Home Institution: Gardner-Webb University  
Co-Authors: Madeline Sargent, Ayotunde Dokun and  
Brian Annex, University of Virginia - BioMedical  
Sciences

### Heysol Bermudez Cabrera, 3 ..... 8:45-9:45 AM

Presentation Title: Motor Adaptation and Brain  
Activation following Sudden or Gradual  
Application of Visual Distortions  
Research Mentor: Jerome Sanes  
Research Institution: Brown University  
Home Institution: Hunter College  
Co-Authors: Jerome Sanes, Patrick Bedard and Thomas  
Kishkovich, Brown University

### Paige Biller, 52 ..... 9:45-10:45 AM

Presentation Title: Ready or Not? Relating Parent-  
Teacher Beliefs to Kindergarten Outcomes  
Research Mentor: James Wyckoff  
Research Institution: University of Virginia School of  
Education  
Home Institution: University of Central Florida  
Co-Authors: Daphna Bassok, University of Virginia -  
Education Sciences

### Hannibal Black, 20 ..... 9:45-10:45 AM

Presentation Title: Autophagic and Apoptotic Response  
of Rat Lung Microvascular Endothelial Cells to  
Cigarette Smoke Extract  
Research Mentor: Elizabeth Harrington  
Research Institution: Brown University  
Home Institution: Claflin University  
Co-Authors: Elizabeth Harrington and Huetran Duong,  
Brown University

### Victoria Bledsoe, 53 ..... 8:45-9:45 AM

Presentation Title: Evaluation of the Harvard University  
Native American Program's Recruitment Support  
Efforts  
Research Mentor: Dennis Norman  
Research Institution: Harvard University  
Home Institution: Morgan State University  
Co-Authors: Dennis Norman, Jason Packineau and  
Shelly Lowe, Harvard University Arts and Sciences



**Kerisha Burke, 44..... 9:45-10:45 AM**

Presentation Title: Exploring Variations of Graphs with Triangulated n-gons as Vertices: Connectivity & an Upper Bound on the Diameter  
 Research Mentor: Benson Farb  
 Research Institution: University of Chicago  
 Home Institution: Howard University  
 Co-Authors: Benson Farb and Bena Tshishiku, University of Chicago

**Alessandra Caruso, 54..... 9:45-10:45 AM**

Presentation Title: The Influences of Traumatic Life Events and PTSD on Young Mothers' Mind-Mindedness  
 Research Mentor: Ann Easterbrooks  
 Research Institution: Tufts University  
 Home Institution: Georgetown University  
 Co-Authors: Ann Easterbrooks and Jana Chaudhuri, Tufts University

**Nadia Centeno Alvarado, 55..... 8:45-9:45 AM**

Presentation Title: Electrophysiological Changes in Spanish Learners: a Longitudinal Language Learning Study  
 Research Mentor: Phillip Holcomb  
 Research Institution: Tufts University  
 Home Institution: UPR-Cayey  
 Co-Authors: Katherine J. Midgley, He Pu and Isabella Slaby, Tufts University

**Stephanie Cevallos, 21..... 8:45-9:45 AM**

Presentation Title: Does EGFL7 Control Notch Signaling in the Bone Marrow?  
 Research Mentor: Heidi Stuhlmann  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Hunter College  
 Co-Authors: Donna Nichol and Heidi Stuhlmann, Weill Cornell Graduate School of Medical Sciences

**David Cherry, 45..... 8:45-9:45 AM**

Presentation Title: Coarse-grained Modeling and Simulation of Actin Filaments  
 Research Mentor: Nina Hinrichs  
 Research Institution: University of Chicago  
 Home Institution: Morehouse College  
 Co-Authors: Esmael Haddadian, University of Chicago

**Myrna Cintron-Valentin, 56 ..... 9:45-10:45 AM**

Presentation Title: ERP Measures of L2 Processing during Lexical Decision Making Task in Naive Spanish Learners  
 Research Mentor: Phillip Holcomb  
 Research Institution: Tufts University  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Katherine Midgley, He Pu and Isabella Slaby, Tufts University

**Alicia Clark, 57 ..... 8:45-9:45 AM**

Presentation Title: Mathematical Discourse Communities: Enhancing Experiences for English Language Learners  
 Research Mentor: Sara Rimm-Kaufman  
 Research Institution: University of Virginia School of Education  
 Home Institution: Hampton University  
 Co-Authors: Sara Rimm-Kaufman and Eileen Merritt, University of Virginia - Education Sciences

**McKenna Corlis, 58 ..... 9:45-10:45 AM**

Presentation Title: Exploring the Relation of Preschool Language and Behavior Problems on Academic Readiness  
 Research Mentor: Anita McGinty  
 Research Institution: University of Virginia School of Education  
 Home Institution: Pacific Lutheran University  
 Co-Authors: Anita McGinty and Lindsay Forston, University of Virginia - Education Sciences

**Kassi Crocker, 22..... 9:45-10:45 AM**

Presentation Title: Hippo Pathway's Role in Ovarian Development in Drosophila  
 Research Mentor: Cassnadra Extavour  
 Research Institution: Harvard University  
 Home Institution: Truman State University  
 Co-Authors: Didem Sarikaya and Cassandra Extavour, Harvard University Arts and Sciences

**Mercedes Dunn, 59..... 8:45-9:45 AM**

Presentation Title: Data Collection with New Immigrants Participating in Live Well, a Community-Based Participatory Research Study  
 Research Mentor: Rebecca Boulos  
 Research Institution: Tufts University  
 Home Institution: Spelman College  
 Co-Authors: Rebecca Boulos, Tufts University - Boston campus



**Denarius Frazier, 23..... 8:45-9:45 AM**

Presentation Title: The Role of Fibroblast growth factor 8 (Fgf8) Signaling in Asymmetric Cardiac Morphogenesis in Zebrafish  
 Research Mentor: Rebecca Burdine  
 Research Institution: Princeton University  
 Home Institution: Morehouse College  
 Co-Authors: Rebecca D. Burdine and Jessica Williams, Princeton University

**Sherif Gerges, 24..... 9:45-10:45 AM**

Presentation Title: Utilizing Statistical Analysis to Correlate Methylobacterium Growth Rates with Differing Carbon Sources  
 Research Mentor: Christopher Marx  
 Research Institution: Harvard University  
 Home Institution: Montclair State University  
 Co-Authors: Christopher Marx, Nigel Delaney and Paige Swanson, Harvard University Arts and Sciences

**Abbie Gibson, 46..... 9:45-10:45 AM**

Presentation Title: Oscillators in Cellular Automaton  
 Research Mentor: Diane Souvaine  
 Research Institution: Tufts University  
 Home Institution: Appalachian State University  
 Co-Authors: Diane Souvaine, Tufts University

**Tushmit Hasan, 60..... 9:45-10:45 AM**

Presentation Title: The Relation between Academic Choice and Student Engagement in Fifth Grade Mathematics Classrooms  
 Research Mentor: Sara Rimm-Kaufman  
 Research Institution: University of Virginia School of Education  
 Home Institution: University of Pennsylvania  
 Co-Authors: Eileen Merritt and Sara Rimm-Kaufman, University of Virginia - Education Sciences

**Alesha Henderson, 61..... 8:45-9:45 AM**

Presentation Title: Targeting 18-24 Year Old Daughters of BRCA1/2 Mutation Carriers: How do We Reach and Support Young Women at High Risk for Breast and Ovarian Cancer?  
 Research Mentor: Andrea Patenaude  
 Research Institution: Harvard University  
 Home Institution: Spelman College  
 Co-Authors: Andrea Patenaude, Dana-Farber Cancer Institute

**Adan Horta, 25..... 8:45-9:45 AM**

Presentation Title: Expression and Distribution Patterns of Peptides along the Gastrointestinal Tract  
 Research Mentor: Stephen Liberles  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Vanderbilt University  
 Co-Authors: Stephen Liberles, Harvard Medical School; David Storchlic, Harvard University Div. of Medical Sciences

**Oladoyin Iranloye, 4..... 9:45-10:45 AM**

Presentation Title: Generation of epitope-tagged Wnts  
 Research Mentor: Xi He  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: North Carolina Central University  
 Co-Authors: Xi He, Children's Hospital Boston and Harvard Medical School; Bryan McDonald and Xinjun Zhang, Children's Hospital Boston

**Naimah Jennings, 51..... 8:45-9:45 AM**

Presentation Title: A Model for Success or Profit: Educational Investment in Latin America as a Means of Sustainable Development  
 Research Mentor: Amy Whitish-Temple  
 Research Institution: Harvard University  
 Home Institution: Spelman College  
 Co-Authors: Amy Whitish-Temple, LASPAU

**Ashley Jenson, 62..... 9:45-10:45 AM**

Presentation Title: SENSE Theatre: Peer Mediation for the Treatment and Measurement of Social Interaction in Autism  
 Research Mentor: Blythe Corbett  
 Research Institution: Vanderbilt University  
 Home Institution: Howard University  
 Co-Authors: David Simon and Blythe A. Corbett, Vanderbilt University

**Andre Jordan Poster, 76.....9:45am - 10:45am**

Presentation Title: Alleviation of Neuropathic Pain through Intraspinal Injection of [Ser1]histogranin and Endomorphin-2 Genes in Rats  
 Research Mentor: Jacqueline Sagen  
 Research Institution: University of Miami  
 Home Institution: Brooklyn College CUNY  
 Co-Authors: Stanislava Jergova, University of Miami and Shyam Gajavelli University of Miami

**Symone Jordan, 5 ..... 8:45-9:45 AM**

Presentation Title: The Role of AMPA Receptor  
Plasticity in Cocaine Conditioned Place Preference  
Research Mentor: Anjali Rajadhyaksha  
Research Institution: Weill Cornell Medical College  
Home Institution: Bowie State University  
Co-Authors: Kathryn C. Schierberl and Dr. Anjali  
Rajadhyaksha, Weill Cornell Graduate School of  
Medical Sciences

**Devin Karbowicz, 63 ..... 8:45-9:45 AM**

Presentation Title: The Enjoyment of Shared Online  
Experiences  
Research Mentor: Daniel Gilbert  
Research Institution: Harvard University  
Home Institution: Princeton University  
Co-Authors: Daniel T. Gilbert and Bethany Burum,  
Harvard University Arts and Sciences

**Oluwabusayo Lana, 26..... 9:45-10:45 AM**

Presentation Title: Expression Analysis of Bk Calcium  
Channel in Cardiomyocyte  
Research Mentor: Richard Clements  
Research Institution: Brown University  
Home Institution: University of Maryland, Baltimore  
County  
Co-Authors: Brenda Cardeiro and Richard Clements,  
Brown University

**Seanna Leath, 64 ..... 9:45-10:45 AM**

Presentation Title: Examining Associations between  
Racial Socialization, Racial Identity, and School  
Adjustment among Bi-Racial Adolescents  
Research Mentor: Velma Murry  
Research Institution: Vanderbilt University  
Home Institution: Pomona College  
Co-Authors: Velma Murry and Sonya Myers, Vanderbilt  
University

**Brooke Lewis, 27 ..... 8:45-9:45 AM**

Presentation Title: Evaluation of Isonicotinamide as an  
Activator of SIRT3 deacetylase  
Research Mentor: Anthony Sauve  
Research Institution: Weill Cornell Graduate School  
Home Institution: Alcorn State University  
Co-Authors: Anthony Sauve and Dou Youn, Weill  
Cornell Graduate School of Medical Sciences

**Emily Lingeman, 28..... 9:45-10:45 AM**

Presentation Title: Taking in Divalent Metals:  
Functional Studies of Nramp Transporters  
Research Mentor: Rachelle Gaudet  
Research Institution: Harvard University  
Home Institution: University of Wisconsin Madison  
Co-Authors: Lukas B. Bane and Rachelle Gaudet,  
Harvard University Arts and Sciences

**Xiaoyu Liu, 29 ..... 8:45-9:45 AM**

Presentation Title: Localization of a Contextual Fear  
Memory Trace after Extinction  
Research Mentor: Leon Reijmers  
Research Institution: Tufts University BioMedical  
Sciences  
Home Institution: SUNY Stony Brook  
Co-Authors: Leon Reijmers and Stéphanie Trouche,  
Tufts University School of Graduate Biomedical  
Sciences

**Daniel Lumpuy, 30..... 9:45-10:45 AM**

Presentation Title: Application of Triplet State  
Quencher Linked Dyes to Super Resolution  
Imaging  
Research Mentor: Daniel Lumpuy  
Research Institution: Harvard University  
Home Institution: Florida International University  
Co-Authors: Xiaowei Zhuang and Joshua Vaughan,  
Harvard University Arts and Sciences

**Janina Maratita, 65 ..... 8:45-9:45 AM**

Presentation Title: Exoneration: Flaws in the Criminal  
Justice System and their Effects on the Falsely  
Accused  
Research Mentor: Janina Maratita  
Research Institution: Harvard University  
Home Institution: Chaminade University of Honolulu  
Co-Authors: Dehlia Umunna, Harvard University Arts  
and Sciences

**Paula Marín Acevedo, 31 ..... 8:45-9:45 AM**

Presentation Title: Mechanisms of Stromal Regulation  
of Breast Cancer Cell miRNAs which Contribute to  
Metastasis  
Research Mentor: Antoine Karnoub  
Research Institution: Harvard University, Division of  
Medical Sciences  
Home Institution: UPR-Rio Piedras  
Co-Authors: Benjamin Cui and Antoine Karnoub,  
Beth Israel Deaconess Medical Center, Harvard  
Medical School

**Kristy Merloni, 32..... 9:45-10:45 AM**

Presentation Title: Recognition of Damage in Mitochondria by Ubiquitin Receptors in the Mitophagy Pathway  
 Research Mentor: Virginia Guarani-Pereira  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Providence College  
 Co-Authors: Wade Harper and Virginia Guarani-Pereira, Harvard Medical School

**Blossom Metevier, 47..... 8:45-9:45 AM**

Presentation Title: Assessing How Visualization Styles Influence Statistical Reasoning in Medical Science  
 Research Mentor: Remco Chang  
 Research Institution: Tufts University  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Alvitta Ottley and Remco Chang, Tufts University

**Loron Neil, 33 ..... 8:45-9:45 AM**

Presentation Title: The Expression of Transient Receptor Potential Melastatin 7 (TRPM 7) in Human Alveolar Basal Epithelial (A549) Cells  
 Research Mentor: Francoise Freye  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Cornell University  
 Co-Authors: Stephan Worgall and Yaqin Xu, Weill Cornell Graduate School of Medical Sciences

**Ernest Nelson, 6 ..... 9:45-10:45 AM**

Presentation Title: Monocyte-to-Macrophage Differentiation after Endothelial Transmigration  
 Research Mentor: Guillermo Garcia-Cardena  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Morehouse College  
 Co-Authors: Guillermo Garcia-Cardena, Harvard Medical School & Brigham and Women's Hospital; Alexis Turjman, Harvard University, GSAS/SEAS

**Maeva Nyandjo, 34 ..... 9:45-10:45 AM**

Presentation Title: Positive Selection of Antibody-Labeled Brain Cells through Magnetic Separation  
 Research Mentor: Takao Hensch  
 Research Institution: Harvard University  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Takao Hensch and Yohei Kobayashi, Harvard University Arts and Sciences

**Temidayo Oredru, 35 ..... 8:45-9:45 AM**

Presentation Title: Model-Based vs. Model-Free Reinforcement Learning  
 Research Mentor: Wael Asaad  
 Research Institution: Brown University  
 Home Institution: Hunter College  
 Co-Authors: Wael Asaad, Brown University

**Nora Ortega, 36..... 9:45-10:45 AM**

Presentation Title: Role of the Protein Tyrosine Phosphatase Shp2 in Human Heart Disease  
 Research Mentor: Maria Kontaridis  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: University of Texas at El Paso  
 Co-Authors: Maria Kontaridis, Harvard Medical School and Beth Israel Deaconess Medical Center; Kimberly Keith, Beth Israel Deaconess Medical Center

**StellJo Passes, 15 ..... 8:45-9:45 AM**

Presentation Title: The Incidents of Radon Level on the Apsaalooke Reservation in Montana  
 Research Mentor: Neva Tall Bear  
 Research Institution: Little Big Horn College  
 Home Institution: Little Big Horn College  
 Co-Authors: Neva Tall Bear, Quinlynn Little Own and Marisol Doporto, Little Big Horn College

**Erica Pursell, 37 ..... 8:45-9:45 AM**

Presentation Title: Measuring Flexibility of the Inner Ear Sensory Epithelium: Is Stiffness Associated With Regeneration?  
 Research Mentor: Jeffrey Corwin  
 Research Institution: University of Virginia School of Education  
 Home Institution: University of Arizona  
 Co-Authors: Jeffrey T. Corwin and Benjamin R. Thiede, University of Virginia - BioMedical Sciences

**Thomas Quiroz, 66 ..... 9:45-10:45 AM**

Presentation Title: Lesions of Dorsolateral Striatum and Dorsomedial Striatum Disrupt Habit Formation in Instrumental Learning  
 Research Mentor: David Bucci  
 Research Institution: Dartmouth College  
 Home Institution: California State Polytechnic University  
 Co-Authors: David Bucci and Andrea M. Robinson, Dartmouth College

**Valeria Reyes Ruiz, 7..... 8:45-9:45 AM**

Presentation Title: Investigating the InlF-Vimentin Interaction and its Importance for *Listeria monocytogenes* Brain Infection  
 Research Mentor: Darren Higgins  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: UPR-Humacao  
 Co-Authors: Darren Higgins and Elizabeth Halvorsen, Harvard University Div. of Medical Sciences

**Mallory Rice Poster, 77..... 8:45am -9:45am**

Presentation Title: Effects of Ocean Acidification on Mesocosm Coral Calcification Rates  
 Research Mentor: Chris Langdon  
 Research Institution: University of Miami  
 Home Institution: Sonoma State University

**Antonio Roberts, 8..... 9:45-10:45 AM**

Presentation Title: The Well-Being of Adolescents in Vulnerable Environments (WAVE): An Analysis of Adolescent Life in East Baltimore  
 Research Mentor: Freya Sonenstein  
 Research Institution: Johns Hopkins University  
 Home Institution: Xavier University of Louisiana  
 Co-Authors: Freya Sonenstein, Beth Marshall and Kristin N. Mmari, Johns Hopkins University

**Nicole Ryan, 67..... 8:45-9:45 AM**

Presentation Title: What's Love Got to Do with It: How Partner Relationship Quality Affects the Association between Child Maltreatment and Adolescent Risk-taking Behavior  
 Research Mentor: Ann Easterbrooks  
 Research Institution: Tufts University  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Jana Chaudhuri and Ann Easterbrooks, Tufts University

**Keroles Saleh, 38..... 9:45-10:45 AM**

Functional Study of Translation Recoding in SARS and MLV Viruses  
 Research Mentor: Victoria D'Souza  
 Research Institution: Harvard University  
 Home Institution: Hunter College  
 Co-Authors: Victoria D'souza and Michael Dureny, Harvard University Arts and Sciences

**Adriana Santiago-Miranda, 9 ..... 8:45-9:45 AM**

Presentation Title: Surface Nano-topography Enhances Cardiac Tissue Functions on Poly(lactic-co-glycolic acid) Scaffolds  
 Research Mentor: Thomas Webster  
 Research Institution: Brown University  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Thomas Webster and David Stout, Brown University

**Onaje Smartt, 68 ..... 9:45-10:45 AM**

Presentation Title: Demographic Risk and Disruptive Behavior: Are the number of Adults in the Home Related to Teacher-Child Intervention Outcomes?  
 Research Mentor: Amanda Wilford  
 Research Institution: University of Virginia School of Education  
 Home Institution: Hampton University  
 Co-Authors: Amanda Williford, Catherine Sanger (M.Ed) and Karyn Hartz (M.Ed), University of Virginia - Education Sciences

**Angel Solis, 10..... 9:45-10:45 AM**

Presentation Title: The Stability of Gastrokine-1 and Its Affinity to Bacteria  
 Research Mentor: Angel Solis  
 Research Institution: University of Chicago  
 Home Institution: Carleton College  
 Co-Authors: David Boone, University of Chicago

**Michelle Stith, 69 ..... 8:45-9:45 AM**

Presentation Title: Banking Time and Child Time: Quality of Teacher-Child Interactions and the Role of Child Characteristics  
 Research Mentor: Amanda Williford  
 Research Institution: University of Virginia School of Education  
 Home Institution: North Carolina A&T State University  
 Co-Authors: Amanda Williford, Catherine Sanger and Karyn Hartz, University of Virginia - Education Sciences

**Crystal Taylor, 39..... 8:45-9:45 AM**

Presentation Title: Social Regulation of PKMzeta in African Cichlid Fish  
 Research Mentor: Peter Serrano  
 Research Institution: Hunter College  
 Home Institution: University of Miami  
 Co-Authors: Heike Neumeister, Thomas Preuss and Peter Serrano, Hunter College

**Janielle Taylor, 11 ..... 8:45-9:45 AM**

Presentation Title: Analysis of the Development of Synaptic Connections in the Postnatal Cochlea  
 Research Mentor: Janielle Taylor  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Emory University  
 Co-Authors: Gabriel Corfas, Harvard Medical School and Children's Hospital Boston; Guoqiang Wan, Children's Hospital Boston

**Phillip Thomas, 40 ..... 9:45-10:45 AM**

Presentation Title: Screening for Novel Interactions between Chromatin Proteins and Histone Modifications  
 Research Mentor: Sean Taverna  
 Research Institution: Johns Hopkins University  
 Home Institution: North Carolina A&T State University  
 Co-Authors: Romeo Papazyan, Tonya Gilbert and Sean Taverna, Johns Hopkins University

**Michael Thompson, 43 ..... 8:45-9:45 AM**

Presentation Title: Altered Dominant Chords in Chopin  
 Research Mentor: Steven Rings  
 Research Institution: University of Chicago  
 Home Institution: University of Notre Dame  
 Co-Authors: Steven Rings, University of Chicago

**Caroline Titan, 70 ..... 9:45-10:45 AM**

Presentation Title: Different Strokes for Different Folks: The Differences within Teacher-Parent Readiness Beliefs  
 Research Mentor: Daphna Bassok  
 Research Institution: University of Virginia School of Education  
 Home Institution: University of Michigan-Ann Arbor  
 Co-Authors: Daphna Bassok, University of Virginia - Education Sciences

**Torrieana Triplett, 12..... 9:45-10:45 AM**

Presentation Title: The Interaction between the Peripheral Nervous System and Immune Cells during Inflammation  
 Research Mentor: Clifford Woolf  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Agnes Scott College  
 Co-Authors: Clifford Woolf, Isaac Chiu and Nader Ghasemlou, Harvard University Div. of Medical Sciences

**Alana Tunstel, 71 ..... 8:45-9:45 AM**

Presentation Title: Relationships between Explicit Narrative Instruction, Vocabulary, and Narrative Language Skills in Preschool  
 Research Mentor: Anita McGinty  
 Research Institution: University of Virginia School of Education  
 Home Institution: Spelman College  
 Co-Authors: Anita McGinty and Lindsay Forston, University of Virginia - Education Sciences

**Michelle Vaisman, 48..... 9:45-10:45 AM**

Presentation Title: Conductance Properties of Single Atomic Layer Exfoliated Graphene Near Nanohole Edges  
 Research Mentor: Michelle Vaisman  
 Research Institution: Harvard University  
 Home Institution: UC Berkeley  
 Co-Authors: David Bell, Robert Westervelt and Sagar Bhandari, Harvard University Arts and Sciences

**Jaime Vaquer-Alicea III, 13 ..... 8:45-9:45 AM**

Presentation Title: Effect of APP Transmembrane Domain Stability on its Processive Proteolysis by the Gamma-secretase Complex  
 Research Mentor: Michael Wolfe  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Marty Fernández, Harvard University Div. of Medical Sciences; Michael Wolfe, Harvard Medical School and Brigham and Women's Hospital

**Joseph Vokt, 49..... 8:45-9:45 AM**

Presentation Title: Developing a framework for ab Initio inhibitor design  
 Research Mentor: Heather Kulik  
 Research Institution: Stanford University Engineering  
 Home Institution: Cornell University  
 Co-Authors: Heather Kulik and Todd Martinez, Stanford University School of Humanities & Sciences

**Benjamin Walker, 14..... 9:45-10:45 AM**

Presentation Title: Silencing Hyperactive Neurons: Genetic Engineering a Treatment for Temporal Lobe Epilepsy and Neuropathic Pain  
 Research Mentor: Edward Perez-Reyes  
 Research Institution: University of Virginia School of Medicine  
 Home Institution: Purdue University  
 Co-Authors: Edward Perez-Reyes, University of Virginia - BioMedical Sciences



**Brian Walsh, 72 ..... 9:45-10:45 AM**

Presentation Title: Education as an Investment in Public Safety: A Case Example of the Prison University Project at San Quentin  
Research Mentor: Kaia Stern  
Research Institution: Harvard University  
Home Institution: Chaminade University of Honolulu  
Co-Authors: Kaia Stern, Harvard University Arts and Sciences

**Yasmin Zakiniaez, 74..... 9:45-10:45 AM**

Presentation Title: Amphetamine Effects on Default Mode Network during Emotional Processing in Healthy Young Adults  
Research Mentor: Tara White  
Research Institution: Brown University  
Home Institution: Hunter College  
Co-Authors: Tara White, Uraina Clark and Lawrence Sweet, Brown University

**Tre Wells, 50 ..... 9:45-10:45 AM**

Presentation Title: Actin Dynamics at Multiple Resolutions: A Comparison of Methods to Produce Coarse-Grained Models  
Research Mentor: Esmael Haddadian  
Research Institution: University of Chicago  
Home Institution: Morehouse College  
Co-Authors: Esmael Haddadian, University of Chicago

**Debra Whorms, 41 ..... 8:45-9:45 AM**

Presentation Title: Understanding the Role of the Ketogenic-Ketolytic Axis during Periods of Low Carbohydrate Supply  
Research Mentor: Peter Crawford  
Research Institution: Washington University in St. Louis  
Home Institution: York College CUNY  
Co-Authors: Peter Crawford and David Cotter, Washington University in St. Louis

**Charles Wilkes, 73 ..... 8:45-9:45 AM**

Presentation Title: Measuring Conceptions of Statistics: An Analysis of Items and Respondent Patterns  
Research Mentor: Richard Lehrer  
Research Institution: Vanderbilt University  
Home Institution: Morehouse College  
Co-Authors: Richard Lehrer and Seth Jones, Vanderbilt University

**Nicole Yamase Poster, 75 ..... 8:45am-9:45am**

Presentation Title: Growth and Competition of Anadyomene in Biscayne Bay, Florida  
Research Mentor: Diego Lirman  
Research Institution: University of Miami  
Home Institution: Chaminade University of Honolulu

**Saiah Yates, 42 ..... 9:45-10:45 AM**

Presentation Title: Investigation of the Requirement of Hepcidin Antimicrobial Peptide for the Anemia of Inflammation  
Research Mentor: Cindy Roy  
Research Institution: Johns Hopkins University  
Home Institution: University of Maryland, Baltimore County  
Co-Authors: Laurette Femnou, Jacqueline M. Langdon and Cindy N. Roy, Johns Hopkins University



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## Teshell Greene

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## WHO'S WHO AT THE SYMPOSIUM



**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.



**Geneva H. Baxter**

*Spelman College*

Geneva Hampton Baxter is Associate Dean of Undergraduate Studies at Spelman College. An alumna of Spelman, she received her MA in literature from the University of Wisconsin (Madison) and her Ph.D. from Georgia State University in American Literature and Rhetoric. As Associate Dean, she coordinates the First-year Experience program and provides oversight for the First-Generation Scholars program. She has served the College in numerous capacities, including Self-Study editor, member of the Honors Program Committee, Curriculum Committee, and Academic Honesty Committee. She has served as faculty coordinator for the Benjamin E. Mays Institute, a diversity leadership consortium with Morehouse and Bates College and as a UNCF faculty mentor. A summer program coordinator of Leadership Alliance since 2009, she serves on its Membership Committee.



**Jabbar R. Bennett**

*Brown University*

Dr. Bennett serves as associate dean of the Graduate School, associate dean for diversity in the Division of Biology and Medicine, and clinical assistant professor of medicine at The Warren Alpert Medical School of Brown University. In the Graduate School he is responsible for recruitment and coordinating professional development activities for graduate students and postdocs. In the Division of Biology and Medicine Dr. Bennett oversees the recruitment and advancement of medical students, faculty and trainees who are members of underrepresented groups. 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. 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.



**Travis Boyce**

*University of Northern Colorado*

Dr. Travis Boyce (2001 Yale University SR-EIP fellow) is an Assistant Professor of Africana Studies and Social Sciences. He holds a B.A. in history (2002) from Claflin University, a M.A. in history (2004) and a Ph.D. in Cultural Studies (2009) from Ohio University. His area of expertise is in the history of education; particularly, African American college presidents during the mid-twentieth century. He has articles published (or forthcoming) in the *Journal of Black Studies*, *Journal of Pan African Studies* and the *African American National Biography*. He has also reviewed books for the *Journal of Negro Education* and contributed chapters to edited books. In addition to his faculty duties at UNC, he was recently elected vice-chair of the Liberal Arts Council, co-advisor to Mortar Board Collegiate Honor Society, a member of the editorial board of the Undergraduate Research Journal and serves as a Faculty in Residence for Housing and Residential Education.



### **Dawn Brown**

*Companion Animal Product Development, Elanco*

Dawn P.G. Brown is currently a Research Scientist at Eli Lilly and Company in Indianapolis, Indiana. Her responsibilities include the design and implementation of strategies for the development of Companion Animal products for the Elanco Animal Health division. Prior to this, she was a Post-doctoral Scientist where she focused on the discovery of novel markers of drug development for Osteoarthritis and Alzheimer's disease in the laboratory. This was an extension of the work she completed in graduate school at Indiana University School of Medicine where she earned her Ph.D. in Biochemistry and Molecular

Biology. For four years, her research focus was *Understanding Cisplatin Drug Resistance in Human Ovarian Cancer*. This research afforded her the publication of multiple peer reviewed articles. She currently serves in the community through her work with non-profit organizations such as NOBCCHE and MANRRS, which seek to recruit and support minorities interested in the Sciences. She is also a member of Alpha Kappa Alpha Sorority, Inc. and part of the Hunger Initiative at Eli Lilly where she serves in the Indianapolis community as a volunteer.



### **Liza Cariaga-Lo**

*Harvard University*

In July 2012, Dr. Cariaga-Lo assumed the position of Associate Provost for Academic Development and Diversity at Brown University. Liza Cariaga-Lo was 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.

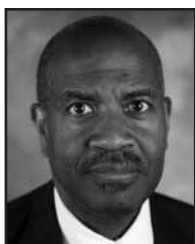


### **Candace Carroll**

*St. Jude's Children Research Hospital*

Candace E. Carroll was a Leadership Alliance participant in 2003 at Cornell University and earned her Bachelor's of Science in Biology from Tougaloo College in 2005. She then pursued her Ph.D. in Biomedical Sciences at the University of Missouri-Columbia, where she investigated natural compounds with chemopreventive and chemotherapeutic potential in progesterin-dependent breast cancer. Currently, Dr. Carroll is a postdoctoral fellow at St. Jude Children's Research Hospital investigating the Hedgehog signaling pathway using *Drosophila melanogaster* as a model system. She is a member of AACR, The

Genetics Society for America, and the Society for Developmental Biology and is a UNCF/Merck Postdoctoral Fellow. Dr. Carroll also serves on the postdoctoral council at St. Jude as vice chair of Minority, Women and International Affairs as well as the Career Development vice chair for the 2011-2012 academic year; and was recently elected Chair of the St. Jude Postdoctoral Council for the 2012-2013 academic year. Dr. Carroll is passionate about teaching and mentoring the next generation of scientists and is excited to be a part of the 2012 LANS.



### **Lloyd E. Douglas**

*The University of North Carolina at Greensboro*

Lloyd E. Douglas is the Associate Director of the Office of Sponsored Programs at the University of North Carolina at Greensboro. Prior to coming to UNCG, he was the Assistant to the Vice President for Research at the University of Nevada, Reno, after a long career as a Federal employee. Although that career carried him through a variety of disciplines, it began and ended with his being a mathematician, with the Naval Underwater Systems Center and the National Science Foundation, respectively. Lloyd has a passion for enabling undergraduate research and was instrumental in expanding those opportunities

when handling the REU program in the mathematical sciences. He currently serves as First Vice President of the Mathematical Association of America. Lloyd received his B.S. degree in Mathematics from the City College of New York and his M.S. in Mathematics from Miami University.





**Mary Farwell**  
**East Carolina University**

Mary is Professor of Biology and Director of Undergraduate Research and has carried out research on apoptosis in non-cancer breast cells as well as oxidative stress in fish with Master's and undergraduate students. She has had grant funding from the NIH-AREA program as well as NC Sea Grant for her research. She was recently awarded an NSF S-STEM grant and is co-PI on a grant for STEM outreach for middle school girls. She teaches cell biology and biochemistry, as well as courses in mentoring (for graduate students) and research (for honors students). Mary has served on grant review panels for NIH and the American Heart Association. She has served as a Council for Undergraduate Research (CUR) Biology councilor and a facilitator for CUR's Proposal Writing Institute and Proposal Development Workshops. She received her ScB in Biology from Brown University and PhD in Biochemistry from UC-Berkeley.



**Saul Fisher**  
*Mercy College*

Saul Fisher is Executive Director of Grants and Academic Initiatives, and Visiting Associate Professor of Philosophy, at Mercy College. Previously, he served as Interim Associate Provost for Academic Standards and Research. Before joining Mercy College, Fisher was Associate Provost and Adjunct Associate Professor of Philosophy at Hunter College (CUNY); Director of Fellowship Programs of the American Council of Learned Societies; and program officer at The Andrew W. Mellon Foundation, where his portfolio centered on instruction and curricular reform, information technology, and American universities abroad. Fisher received his AB in political science and philosophy from Columbia University, MA in philosophy from Rice University, and PhD in philosophy from the CUNY Graduate Center. He is recipient of Fulbright and Graham Foundation awards. He is a past president of HOPOS—the International Society for the History of Philosophy of Science and past chair of the American Philosophical Association's Committee on Non-Academic Careers.



**Tiffani Fonseca**  
*American Society for Microbiology*

Tiffani Fonseca is the Fellowship Programs Coordinator in the Education Department of the American Society for Microbiology (ASM). She is responsible for five fellowship programs: the ASM/CDC Postdoctoral Research Fellowship, the ASM Robert D. Watkins Graduate Fellowship, the ASM Undergraduate Research Fellowship, the ASM-Undergraduate Research Capstone, 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.



**Alisha Gaines**  
*Florida State University*

Alisha Gaines is Assistant Professor of English at Florida State University. She earned a PhD in English and certificate in African and African American Studies from Duke University in 2009. Before joining the faculty at FSU, she was a Carter G. Woodson Postdoctoral Fellow at the University of Virginia. She is currently drafting her book manuscript, *Black Like We Imagine Ourselves: Spectacular Fantasies of Race and Nation*. The project rethinks the political consequences of empathy by examining mid-to-late twentieth and twenty-first century narratives of racial impersonation enabled by the spurious alibi of racial reconciliation. She examines the memoirs of temporarily black Ray Sprigle, Grace Halsell, and John Howard Griffin alongside advertising campaigns, photography, and film. Her interdisciplinary teaching interests include African American literature and culture, black queer theory, media and performance studies, and New Southern studies. A life-long fan of Michael Jackson, she will teach a seminar on the iconic artist in Fall 2012.





### **Sophia Gayle**

*Yale University*

Sophia Gayle is currently a 5th year graduate student in the lab of Dr. Tian Xu within the Yale Genetics Department. Her work involves utilizing the piggyBac transposon to identify molecules contributing to self-renewal and differentiation in human embryonic stem cells. Sophia received her B.S. at Duke University, where her undergraduate thesis led to second authorship of the paper “Loss of *Drosophila melanogaster* p21-activated kinase 3 Suppresses Defects in Synapse Structure and Function Caused by spastin Mutations.” Sophia is a former Gates Millennium Scholar, participant in the Summer

Undergraduate Research Fellowship at Dartmouth University, and has been involved in mentoring New Haven middle school students through Yale’s Science Education Outreach Program. In her free time, Sophia enjoys hiking, gardening, and reading fanfiction.



### **Kenneth Gibbs**

*National Science Foundation*

Kenneth Gibbs, Jr., Ph.D., is a AAAS Science & Technology Policy Fellow at the National Science Foundation in the Directorate for Education and Human Resources (EHR), Division of Human Resource Development (HRD). Prior to the AAAS fellowship, he was a graduate student and postdoc at Stanford in Garry Nolan’s lab where his research focused on the intersections of cell signaling, stem cell biology and cancer biology. While at Stanford, he worked to improve the training experiences for all students, with an emphasis on increasing the participation of trainees from traditionally underrepresented

backgrounds. He hopes to return to academia where he can have an impactful career and can combine his passions for service, teaching and research. Originally from Durham, NC, he received his B.S. in biochemistry and molecular biology summa cum laude from the University of Maryland, Baltimore County where he was a Meyerhoff, MARC, and HHMI scholar.



### **Leislle Godo-Solo**

*Institute for Recruitment of Teachers*

Ms. Godo-Solo has served as the Associate Director of the Institute for Recruitment of Teachers (IRT) since 2002. She holds a B.A. in Spanish from Cleveland State University and a M.A. degree in Spanish Literature from the University of Rhode Island. In 2007, Ms. Godo-Solo received an Ed.S. degree in Counseling and Student Affairs from Western Kentucky University. Her thesis, “*Success Rates of Minority Educator Recruitment and Retention (MERR) Scholarship Recipients and Other Education Majors*,” documents the efficacy of the MERR Scholarship Program and the importance of teacher education

pipelines. Additionally, Ms. Godo-Solo has nine years of combined experience as a high school Spanish teacher and recruiter of undergraduate teacher education candidates. Currently, as the Associate Director of IRT, Mrs. Godo-Solo plays an integral role in recruiting and counseling talented students who are preparing for graduate school admission. She is deeply passionate about educational access, mentoring, and programs that ensure students’ success in graduate school.



### **Ruth Gotian**

*Weill Cornell/Rockefeller/Sloan-Kettering*

Ruth Gotian is the Administrative Director of the Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional MD-PhD Program for over 15 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 served on the National MD-PhD Steering Committee of the Association of American Medical Colleges (AAMC) and is on the National MD-PhD Communications Committee.



### **Frederick Gregory**

*Morehouse College*

Frederick Gregory is Program Manager for the John H. Hopps Jr. Defense Research Scholars Program at Morehouse College in Atlanta. In this position he mentors and coordinates efforts to support the research training of undergraduate S.T.E.M. scholars. He is also a 2011-2012 Fellow of the Keystone Symposia on Molecular and Cellular Biology. Dr. Gregory received his B.S. degree in Biology from Morehouse College and his Ph.D. in Neurobiology from UCLA. He was also an IRACDA teaching postdoctoral fellow in Pharmacology at Emory University and visiting postdoctoral scholar in Molecular Physiology and Biophysics at University of Iowa. His recent work on protein interactions in sensory hair cells has been featured in *Nature Neuroscience*. It focused on a novel interaction that controls trafficking and modifies the electrical activity of L-type voltage gated  $\text{Ca}^{2+}$  channels.



### **Mark Hernandez**

*University of Colorado at Boulder*

Mark Hernandez received all his degrees, and did a post-doctoral tenure in the Civil and Environmental Engineering Department at the University of Colorado at Berkeley. After several years of civil engineering practice, he joined the University of Colorado faculty in 1996, where he is now a full professor. Dr. Hernandez is a registered professional engineer, and maintains a modest consulting practice based on a generation of his research which lies in characterizing the biological aspects of air pollution—both indoors and out. An expert on the quantitation and remediation of bioaerosols, his research group has most recently focused on determining design metrics for large scale aerosol disinfection systems using novel HVAC designs, UV, and weak electric fields. Outdoor aerobiological characterization work has focused on large scale disasters including bioaerosols generated by major metropolitan floods, the quarantined City of New Orleans following Hurricane Katrina, and coastal Louisiana following the deep water Horizon oil spill. Dr. Hernandez is currently a member of National Research Council committees to review risk assessments of biological warfare laboratories maintained by the US military, and the US Department of Homeland Security Agricultural Defense facilities.



### **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.



### **Marcus B Jones**

*J. Craig Venter Institute*

Dr. Marcus B. Jones is an Assistant Professor within the Infectious Disease and Genomic Medicine groups at JCVI, where he specializes in a wide variety of gene expression and biomarker discovery studies. His scientific research focuses on employing “omics” technologies to understand various human disease, microbial infection models and the evolution of antibiotic resistance. Dr. Jones received his bachelor’s degree at Southern University and A&M College in Baton Rouge, LA in 2000. He received his Ph.D. in Microbiology in 2005 studying in the laboratory of Dr. Martin J. Blaser in The Sackler Institute at New York University School of Medicine. Dr. Jones did his post-doctoral training at The Institute for Genomic Research (TIGR) from 2005-2006 in the laboratory of Dr. Scott N. Peterson in the Pathogen Functional Genomics Resource Center (PFGRC) prior to joining the JCVI. Dr. Jones was the recipient of the UNCF/Merck Graduate Dissertation Fellowship, the David and Lucile Packard Foundation Graduate Fellowship, two-time recipient of the Aspen Health Forum Fellowship and the Keystone Symposium Fellowship.



### **Shirley Malcom**

*American Association for the Advancement of Science (AAAS)*

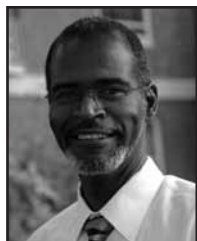
Shirley Malcom is Head of the Directorate for Education and Human Resources Programs of the American Association for the Advancement of Science (AAAS). The directorate includes AAAS programs in education, activities for underrepresented groups, and public understanding of science and technology. Dr. Malcom serves on several boards—including the Heinz Endowments and the H. John Heinz III Center for Science, Economics and the Environment—and is an honorary trustee of the American Museum of Natural History. In 2006 she was named as co-chair (with Leon Lederman) of the National Science Board Commission on 21st Century Education in STEM. She serves as a Regent of Morgan State University and as a trustee of Caltech. In addition, she has chaired a number of national committees addressing education reform and access to scientific and technical education, careers and literacy. Dr. Malcom is a former trustee of the Carnegie Corporation of New York. She is a fellow of the AAAS and the American Academy of Arts and Sciences. She served on the National Science Board, the policymaking body of the National Science Foundation, from 1994 to 1998, and from 1994-2001 served on the President’s Committee of Advisors on Science and Technology. Dr. Malcom received her doctorate in ecology from Pennsylvania State University; master’s degree in zoology from the University of California, Los Angeles; and bachelor’s degree with distinction in zoology from the University of Washington. She also holds 15 honorary degrees and in 2003 received the Public Welfare Medal of the National Academy of Sciences, the highest award given by the Academy.



### **Jessian L. Munoz**

*New Jersey Medical School (NJMS)*

Jessian L. Munoz is a fourth year MD-PhD candidate at the Graduate School of Biomedical Sciences at NJMS. He has completed a dual concentration in Neuroscience and Stem Cell Biology. Before coming to NJMS, Jessian graduated from the University of Puerto Rico-Cayey with a B.S. in Biology. Jessian is currently training in the lab of Dr. Pranela Rameshwar within the Department of Medicine-Division of Hematology/Oncology. His thesis research combines a model with human Mesenchymal Stem Cells to understand neurodevelopmental pathways by small RNA molecules and to extrapolate the findings to understand chemoresistance of glioblastoma. Jessian has already published original and review articles. Jessian is the recipient of several awards: NJMS-Alumni Association Research Fellowship (2010), Drs. George and Helene Hill Endowed Scholarship (2011) FM Kirby Neurosciences Fellow (2011), NACME Sloan PhD scholar (2011), as well as the NJMS Early Scientist Award for Excellence (2012). Jessian is currently the President of the NJMS Graduate Student Association.



### **Darryl Murray**

*NIH Office of Intramural and Education*

Dr. Murray is a native of Birmingham, Alabama. He attended Alabama State University in Montgomery Alabama, where he earned a B.A. degree in Biology and a Masters degree in Microbiology. Subsequently, he earned a Ph.D. in Biology from Johns Hopkins University in Baltimore, Maryland. He conducted his postdoctoral training in the Laboratory of Genetics at the National Institute on Aging (NIA), where his work involved chromatin remodeling and gene regulation. He later became the NIA Intramural Research

Program's Postdoctoral Recruitment Specialist and Associate Training Director. There, he conducted recruitment activities for postdoctoral fellows, clinical fellows, staff scientists, staff clinicians, tenure track scientists, and upper level technical staff and designed and implements training and career development initiatives. He currently works in the NIH Office of Intramural and Education, where he is Director of the NIH Undergraduate Scholarship Program (UGSP). The NIH UGSP targets students from disadvantaged backgrounds, who have a commitment to careers in biomedical, behavioral and social sciences research. Here, he also participates in the design and implementation of career development projects for NIH trainees.



### **Christine O'Brien**

*National Academy of Science*

Chris O'Brien has worked at the Fellowships Office of the Policy and Global Affairs Division of the National Academies since the mid-1970's. She has been involved in the administration of numerous fellowship programs, varying in level from predoctoral through postdoctoral and varying by funding source (public and private). Since 1979, Chris has worked primarily on the Ford Foundation Predoctoral, Dissertation, and Postdoctoral Fellowship Programs. The total of Ford Fellowship awards (administered by the National Academies) recently reached 2700. Chris and Joan Rosenthal were co-founders of the

Fellowship Roundtable in 1995.



### **Joel Oppenheim**

*New York University School of Medicine*

Dr. Joel D. Oppenheim is a Professor of Microbiology and presently serves as the Senior Associate Dean for Biomedical Sciences and Director of the Sackler Institute of Graduate Biomedical Sciences at NYU School of Medicine. In these positions he oversees all PhD (>300 students) and Postdoctoral (>400) trainees and Research Programs. He serves on the NYU School of Medicine's MD and MD/PhD. Admissions Committees and chairs the Ph.D. Admissions Committee. He is the founder and director of the NYU's Summer Undergraduate Research and Postdoctoral Programs, and the founder of the "What

Can You Be With a PhD?" Symposium, the largest university based career development program for predoctoral students and postdoctoral fellows in the country. He has served on many national advisory committees (AAMC, NIH, NRC, NSF, ASM, Leadership Alliance). In 2010 Dr. Oppenheim was the recipient of the AAAS (American Association of the Advancement of Sciences) Life Time Mentoring Award, one of the nations highest mentoring awards.



### **Damani Piggott**

*Johns Hopkins University*

Dr. Damani Piggott is a Postdoctoral Fellow in the Division of Infectious Diseases and Department of Epidemiology at Johns Hopkins University. Dr. Piggott received his B.S. degree in Biology and Spanish from Morehouse College in 1997, and subsequently attained his Ph.D. in Immunology in 2004 and his M.D. degree in 2005 from Yale University. He completed a residency program in Internal Medicine and Pediatrics at Yale New Haven Hospital in 2009. His prior research activities have included the study of CD4 T cell immunity, HIV and syphilis infection within U.S. correctional facilities, and African

trypanosomiasis in Mali. He has also served as a volunteer clinician for HIV and HIV/Tuberculosis co-infected patients in South Africa. His current research centers on understanding the epidemiologic and immunologic basis of the intersection of HIV and aging among Injection Drug Users. Dr. Piggott participated in the Leadership Alliance SR-EIP in 1994 and 1995 at Brown University.





### **Nicole Ramsey**

*Weill Cornell Medical College*

A native New Yorker, Nicole Ramsey, has returned home to become an MD-PhD Student in the Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional MD-PhD Program. Currently in her fifth year of the program, Nicole's thesis work focuses on drug discovery for the malaria parasite *Plasmodium falciparum* (Pf) and establishing the sAC-like enzyme, Pf adenylyl cyclase  $\beta$ , as a relevant drug target. Prior to this, she graduated magna cum laude from Howard University with a Bachelor of Science in Biology (Chemistry and Mathematics minor). Nicole is committed to diversifying the pool of future doctors, scientists, and physician-scientists. She participates in mentoring and teaching through programs such as especially Motivating Action through Community Health Outreach, where she serves as co-Program Director. Her awards of distinction and professional memberships include UNCF/Merck Graduate Dissertation Fellowship, Laureate Scholarship, David L. McLaughlin Undergraduate Research Award, Alpha Kappa Alpha Sorority, Inc., and Sigma Xi Scientific Research Society.



### **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.



### **K. Rashid Rumah**

*Weill Cornell/Rockefeller/Sloan Kettering Tri-I*

Rashid Rumah is a fourth-year MD/ PhD candidate at the Weill Cornell/ Rockefeller/Sloan Kettering Tri-Institutional MD/PhD program in New York City. He received his B.S. degree in Biology from Stanford University in 2006, spent two years as laboratory technician at Stanford, and then continued on to pursue his doctoral degrees at the Tri-I in 2008. Rashid currently studies Multiple Sclerosis, with a particular interest in creating a new animal model for the disease.



### **Edgardo Sanabria-Valentín**

*Staff Scientist at Sample6 Technologies*

Edgardo is part of the product development team at Sample6 Technologies, which develops fast and easy-to-use sensors for harmful bacteria. Since he joined a year and a half ago as the first full-time hire, Sample6 has raised over \$5 million from investors, and is currently in the early stages of testing their first product: a diagnostic tool that can detect the foodborne bacterial pathogen *Listeria* on the same day the sample is collected. Edgardo obtained his Bachelor's degree from Universidad de Puerto Rico-Mayagüez, where he majored in Industrial Microbiology. He received his doctoral degree from NYU-School of Medicine, where his work focused on understanding the adaptations that some bacteria undergo to become part of its host's microbiota in the laboratory of Dr. Martin Blaser. While at NYU, Edgardo was a recipient of a Leadership Alliance-Schering-Plough Graduate Fellowship and a NIGMS Predoctoral Fellowship and served on several occasions as the graduate student advisor the NYU-Sackler SURP. He has also worked as an Adjunct Professor and Grant Reviewer at John Jay College in NYC. After graduating from NYU, Edgardo joined Dr. Roberto Kolter's lab at Harvard Medical School as a Postdoctoral Fellow. There he worked developing techniques to search for new compounds that had the potential to inhibit bacterial biofilm formation, potentially improving the activity of antimicrobial compounds like antibiotics and disinfectants.



### **Nancy Schwartz**

*University of Chicago*

Dr. Nancy Schwartz is Associate Dean for Postdoctoral Affairs and Co-director of the Office of Graduate Affairs, having served as Dean for Graduate and Postdoctoral Affairs in the Division of Biological Sciences for more than 25 years. She has served on several NIH study sections, foundation review boards and editorial boards, the AAMC-GREAT Steering Committee, Chair of both Graduate Deans and Postdoc Leaders groups, and the Founding Advisory Board of the NPA. She is director of the Kennedy Research Center, the NICHD M.D./Ph.D. training Program, HHMI Med into Grad Program, and NIGMS Post-bac (PREP). She has had continuous NIH R01 research funding, received both a MERIT award and a Mentor of Excellence from NIH, and is Director of an NIH Program Project and a P30 Center. Dr. Schwartz's functions and responsibilities in graduate and postdoctoral education and program administration have focused on evolving and complex educational needs of emerging researchers in the life sciences.



### **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.



### **Patrice Spitalnik**

*Columbia University*

Patrice F. Spitalnik, M.D. is an Associate Professor of Clinical Pathology and Cell Biology at Columbia University College of Physicians and Surgeons. She is the Assistant Director of the M.D.-Ph.D. Program and teaches general pathology and surgical pathology to second and third year medical students, as well as to M.D.-Ph.D. students. She is the Section Director of the first year medical student histology course. She recently created a new course for M.D.-Ph.D. students on "Responsible Conduct of Research" in addition to a new lecture series, "Grand Rounds for Graduate Students." She is interested in medical education related to the interface between basic research and clinical medicine and the training of physician-scientists. Dr. Spitalnik earned her medical degree from the University of Chicago, and was awarded research fellowships from NIH and the University of Pennsylvania Medical School. She has also been awarded numerous honors for her career in teaching.





**Howard A. Stone**  
*Princeton University*

Dr. Howard A. Stone is the Donald R. Dixon '69 and Elizabeth W. Dixon Professor in Mechanical and Aerospace Engineering in the School of Engineering and Applied Science at Princeton University. Howard Stone received his B.S. from the UC Davis in 1982 and his Ph.D. in chemical engineering from the Caltech in 1988. He joined the Harvard faculty in 1989 after spending one year as a post-doctoral fellow at Cambridge University. In 2009 he moved to Princeton University. His research interests are in the motions of fluids, and his studies, including experiments and theory, span engineering, physics, chemistry, biology and applied mathematics. At Harvard Howard received the Joseph R. Levenson Memorial Award for undergraduate teaching and the Phi Beta Kappa Undergraduate Teaching Prize, while at Princeton in 2011 Howard received an Engineering Council Teaching Prize. He is a fellow of the American Physical Society and past chair of the Division of Fluid Dynamics. In 2008 he received the first G.K. Batchelor Prize in fluid dynamics, in 2009 he was elected to the National Academy of Engineering, and in 2011 he was elected to the American Academy of Arts and Sciences.



**Brian P. Sullivan**  
*Washington University in St. Louis*

Mr. Sullivan is the Executive Director of the Medical Scientist Training Program (MSTP) at Washington University (WUSTL), the largest MD-PhD program in the country. Mr. Sullivan was a founding officer of the MD-PhD Section of the AAMC GREAT Group; he also serves as the Secretary-Treasurer of the National Association of MD-PhD Programs. In 2002, Mr. Sullivan established WUSTL's BioMedRAP, a summer research program for minority and disadvantaged undergraduates. Mr. Sullivan earned a B.S. in Political Science and a M.S. in Spanish Literature from St. Louis University. He also earned a M.B.A. from Washington University



**Lawrence Tabak**

Lawrence A. Tabak, D.D.S., Ph.D., was appointed as the Principal Deputy Director of the NIH on August 23, 2010. He has served as co-chair of several trans-NIH activities, including the NIH-wide initiative to enhance peer-review, and played a leadership role in coordinating the agency's response to the American Recovery and Reinvestment Act. From 2000 to 2010 he was Director of the National Institute of Dental and Craniofacial Research. Prior to joining the NIH, Dr. Tabak was the senior associate dean for research and professor of dentistry and biochemistry and biophysics in the School of Medicine and Dentistry at the University of Rochester. A former NIH MERIT recipient, Dr. Tabak's major research focus has been on glycoprotein biosynthesis and function. He continues to lead an active research laboratory within the NIH intramural program in addition to his administrative duties. Dr. Tabak is a native of Brooklyn, New York, received his undergraduate degree from City College of the City University of New York, his D.D.S. from Columbia University, and a Ph.D. from the University of Buffalo. He is a fellow of the American Association for the Advancement of Science and a member of the Institute of Medicine of the National Academies.



**Sheila Thomas**  
*Harvard University*

Dr. Sheila Thomas is a faculty member in the Division of Medical Sciences PhD Programs and the Department of Medicine at Harvard Medical School and serves as Assistant Dean for Diversity and Minority Affairs for Harvard University's Graduate School of Arts and Sciences. In her faculty and administrative roles, she teaches and mentors PhD and MD-PhD students as well as undergraduates. Dr. Thomas serves on various committees focused on different aspects of graduate education and is a member of the admissions committees for the Division of Medical Sciences PhD programs and Harvard Medical School's MD-PhD program. She previously served as faculty co-director of the Summer Honors Undergraduate Research Program and is now faculty director of this program. In her new role as Assistant Dean, she oversees the diversity efforts for Harvard University's 57 PhD programs and is committed to creating, identifying and implementing initiatives to diversify the Academy at all levels.



### **Susie Valaitis**

*Institute for Broadening Participation*

Susie Valaitis is Senior Associate Director of the Institute for Broadening Participation. She has worked for eight years with IBP, the National Science Foundation (NSF) and NASA to support students in STEM pathways and increase participation at all levels of STEM education. Her previous experience includes work in land conservation and providing community development and support to residents of Maine's year-round island communities. She has more than twelve years of experience in nonprofit administration, project development and implementation, community development, website and materials design and implementation. She has studied community planning and development at the graduate level, holds a Certificate in Mediation, and earned a BA in British and American Literature from Brown University.



### **Eric Villegas**

*National Exposure Research Laboratory (EPA)*

Dr. Eric Villegas is a research microbiologist with the US Environmental Protection Agency. He was a former MARC-fellow at CSU, Northridge, and one of the first to participate in the Leadership Alliance SR-EIP at Yale University. He received his doctorate degree at the University of Pennsylvania School Of Medicine studying host factors regulating immune responses to parasitic diseases. He continued his training as post-doctoral fellow at UC Berkeley where he developed novel approaches to identify host pathways involved in immune evasion mechanisms during infection. Dr. Villegas is currently the Lead Parasitologist at the USEPA responsible for developing tools to understand human health risks associated with exposure to parasites like, *Cryptosporidium*, *Giardia*, and *Toxoplasma gondii* in our drinking water. He has served as executive editor and reviewer for various peer-reviewed journals, presented in numerous international scientific conferences, and published many papers on immunological and environmental consequences from exposure to waterborne parasites.



### **Aileen Walter**

*National Action Council for Minorities in Engineering*

Aileen Walter began her second stint at NACME as vice president, Scholarships and University Relations. In this capacity, she is responsible for the management and direction of all NACME scholarship programs and scholarship management services. She has developed and implemented NACME's Scholars' Program, an initiative that includes a partnership with more than 40 colleges and universities. She also administers the Alfred P. Sloan Minority Ph.D. and Indigenous Graduate Partnerships, a grant of \$40 million. Both programs are focused on increasing the number of underrepresented American minorities who earn Ph.D. degrees in mathematics, the natural sciences, and engineering. Walter has more than 20 years of experience in scholarship management and in developing successful college and university partnerships to increase the representation of underrepresented minorities. She currently serves as a member of the Association of Public and Land-Grant Universities—Minority Male STEM Initiative Task Force, the Advisory Council for the University of Colorado's Broadening Opportunity through Leadership and Diversity Initiative, Cornell University's Diversity Programs in Engineering Advisory Council and has served on the boards of the National Society of Black Engineers and the Society of Hispanic Professional Engineers. Walter holds a B.A. degree in English Literature from Montclair State College and a M.A. degree in Higher Education Administration from New York University.



### **Thomas J. Webster**

*Brown University*

Thomas J. Webster is an associate professor for the School of Engineering and Department of Orthopaedics at Brown University. His degrees are in chemical engineering from the University of Pittsburgh (B.S., 1995) and in biomedical engineering from Rensselaer Polytechnic Institute (M.S., 1997; Ph.D., 2000). His research addresses the design, synthesis, and evaluation of nanophase materials (that is, materials with fundamental length scales less than 100 nm) as more effective biomedical materials. His research on nanomedicine has received attention in recent media publications including MSNBC (October 10, 2005), NBC Nightly News (May 14, 2007), PBS DragonFly TV (covered across the US during the winter, 2008), and ABC Nightly News via the Ivanhoe Medical Breakthrough Segment (covered across the US during the winters of 2008 and separate research segments in 2010 and 2011). His work has been on display at the London and Boston Science Museums.



### **Erica Williams**

*Spelman College*

Erica Lorraine Williams is an Assistant Professor in the Department of Sociology and Anthropology at Spelman College. She earned her Ph.D in Cultural Anthropology from Stanford University in 2010, and her B.A. in Anthropology and Africana Studies from New York University in 2002. Her research explores the cultural and sexual politics of the transnational tourism industry in Salvador, Bahia, Brazil. During the Spring 2012 semester, she was a Mellon/HBCU Fellow at the Franklin Humanities Institute at Duke University. Her forthcoming book, *Ambiguous Entanglements: Sex, Race, and Tourism in*

Salvador, Brazil, won the National Women's Studies Association/University of Illinois Press First Book Prize. She has also published in *Policing Pleasure: Global Reflections on Sex Work and Public Policy* (Kelly and Dewey 2011, NYU Press); and the *Encyclopedia of Globalization* (2012). She is also Co-Director of a five-week summer study abroad program in Salvador, and an occasional feminist blogger for *Ms. Magazine*.



### **John Wilson**

*Dillard University*

John E. Wilson is the Director of the Minority Health and Health Disparities Research Center and Professor of Biology at Dillard University. Prior to this appointment, Dr. Wilson served as Dean, Division of the Natural Sciences and Public Health. He also has served as the associate dean in the School of Graduate Studies and Research, associate professor in the Department of Anatomy and Physiology and associate professor in the Department of Foundation Sciences at Meharry Medical College. Dr. Wilson's career interests have focused on academic advisement, career counseling and advancing outreach

programs that encourage students of underrepresented minority groups to pursue careers in science. Dr. Wilson research interest focused on the cell biology and parasitology mechanism in molecular interactions of host and parasitic systems. His current research focuses on the assessment of science teaching and learning and health education in community-based participatory research. 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-Pre-doctoral Fellowship, and completed postdoctoral research training at Stanford University and the Institute for Research on Learning where he was a recipient of a Carnegie Fellowship in Science Education.

## THE LEADERSHIP ALLIANCE EXECUTIVE OFFICE STAFF



**Medeva Ghee**

*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 2011, Dr. Ghee was appointed the Executive Director of the Leadership Alliance.



**Deborah Collins**

*Associate Director*

Dr. Deborah Collins received her Ph.D. in educational research and policy analysis from Virginia Tech in 1984. While at Virginia Tech, she was Co-Director of the Vocational Education Evaluation in Virginia program, which later involved her in the development and funding of two national research projects through the National Center for Research in Vocational Education at Berkley/Virginia Tech. As Co-Project Director, her research focused on longitudinal assessment of vocational enrollment patterns on academic program achievement and postsecondary enrollments. At the same time, she co-directed a research project exploring the linkages between educational evaluation and planning in vocational education. Dr. Collins later collaborated with colleagues in the sociology department to create and administer Virginia Tech's Center for Survey Research, through which she worked with researchers and policy analysts across multiple disciplines to pursue and support funded research and regional public policy initiatives. In 1997, she came to Brown University as the Director of Research and Evaluation, leading two cycles of research activities for the Regional Educational Laboratory at Brown University (LAB). During her tenure at The Education Alliance, the Research and Evaluation division annually fielded up to 20 contract and grant initiatives, including multi-year national research awards through NSF, NIH and the U.S. Department of Education.



**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 22 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 quality education for disadvantaged children, especially in urban communities. 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 2012 PLANNING COMMITTEE**

|                                  |                                                                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Jabbar Bennett</b><br>(Chair) | Associate Dean, Graduate School<br>Associate Dean, Division of Biology and Medicine<br>Brown University                                                      |
| <b>Earnestine Baker</b>          | Assistant to the Vice President, Institutional Advancement<br>Executive Director, Meyerhoff Scholarship Program<br>University of Maryland – Baltimore County |
| <b>Marcus Jones</b>              | Assistant Professor<br>J. Craig Venter Institute<br>Doctoral Scholar Advisor                                                                                 |
| <b>Florence Kempner</b>          | MARC Program Coordinator<br>Brooklyn College                                                                                                                 |
| <b>Patricia Lee-Robinson</b>     | Associate Professor of Biology<br>Chaminade University of Honolulu                                                                                           |
| <b>Barbara Nesmith</b>           | Acting Assistant Director GSAS Office of Diversity<br>Columbia University                                                                                    |
| <b>Chinonye Nnakwe</b>           | Director of Graduate Diversity Recruitment<br>University of Chicago<br>Doctoral Scholar Advisor                                                              |
| <b>Rahmelle Thompson</b>         | Director, Dr. John H. Hopps Research Scholar Program<br>Morehouse College                                                                                    |
| <b>Maria DoVale</b>              | <i>Ex Officio Member</i><br>Executive Assistant/Project Coordinator<br>Leadership Alliance Executive Office                                                  |

## **LEADERSHIP ALLIANCE STAFF**

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| <b>Medeva Ghee</b>     | Executive Director                                  |
| <b>Deborah Collins</b> | Associate Director                                  |
| <b>Barbara Kahn</b>    | Coordinator for Graduate and Undergraduate Programs |
| <b>Maria DoVale</b>    | Executive Assistant/Project Coordinator             |

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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, business and the public sector.

## MEMBER INSTITUTIONS

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