

CULTIVATING EXCELLENCE AND EMPOWERING GREAT MINDS



LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM 2013

July 26–28 • Hilton Stamford Hotel & Executive Meeting Center

WELCOME TO THE 2013 LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM



Medeva Ghee
Executive Director

On behalf of the Leadership Alliance, it gives me great pleasure to welcome you to the 2013 Leadership Alliance National Symposium (LANS)! This event never ceases to inspire as it features the intellectual capacity and fortitude of diverse scholars and researchers from across the country.

The theme of this symposium, *Cultivating Great Minds and Inspiring Excellence*, conveys the sustained efforts of the Leadership Alliance to prepare the next generation of innovators and critical thinkers to respond to society's most complex challenges. By leveraging your diverse skills and perspectives, we firmly believe that each of you has the potential to develop novel solutions to address climate change, advance national and global health goals, and explore new paradigms that shape our thinking in the humanities and social sciences. The Leadership Alliance is proud to support and nurture your educational and career aspirations.

For more than two decades, the collective efforts of the Leadership Alliance have resulted in the production of more than 300 alumni who have obtained their PhD or MD-PhD degrees, ensured the enrollment of students into competitive graduate training programs and sustained relationships with leaders in academia, the public and private sectors. This extensive and diverse network of role models and mentors is at your disposal to help clarify your academic and career pathways in order to cultivate your intellectual curiosity and inspire and motivate you to new heights. Make the most of LANS, where you have the distinct opportunity to communicate and discuss your ideas in a supportive environment, hone your networking skills and think critically about your future.

As we welcome you to the Leadership Alliance National Symposium, I implore you to fully immerse yourself in this exceptional experience and, in so doing, commit yourself to excellence, realize the value of your potential and be the inspiration for the world to emulate!

Have a great symposium!



Jabbar R. Bennett
*Chair, Symposium
Planning Committee*

Greetings and welcome to the 2013 Leadership Alliance National Symposium (LANS)! We hope that this experience will serve as a wonderful capstone to your summer research immersion.

Last year we celebrated our 20th anniversary and reflected upon two decades of supporting research, cultivating scholarship and inspiring academic excellence among some of America's best, brightest and most diverse scholars. This year our goal is to further cultivate magnificent minds and inspire intellectuals for greater distinction.

As always, the LANS Planning Committee worked diligently over the past year to offer you the most engaging, enriching and empowering Symposium possible. 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 event 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. More than ever before, we are tenaciously committed to train, mentor and inspire young, diverse scholars. 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.

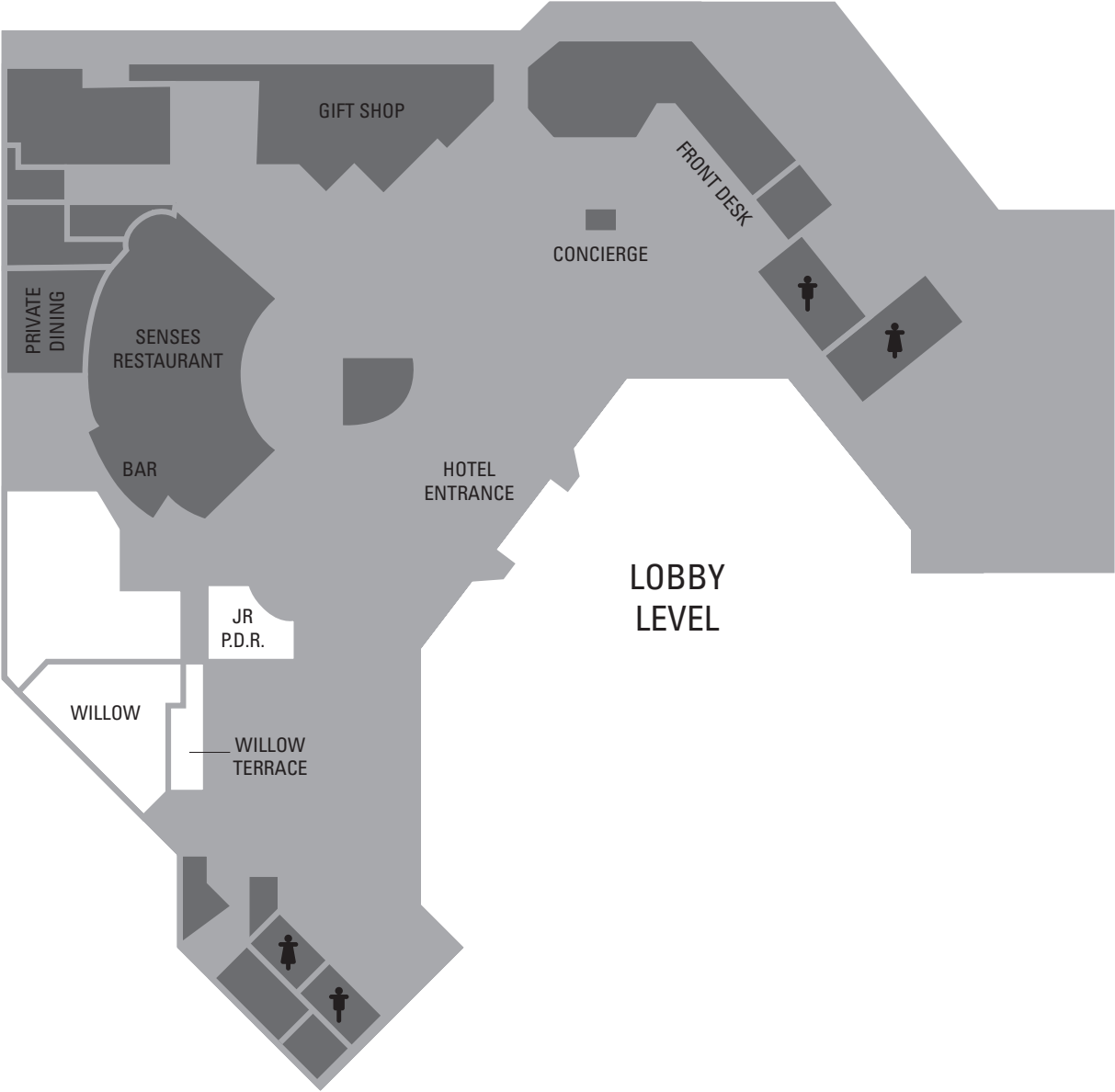
Best wishes and make it memorable!

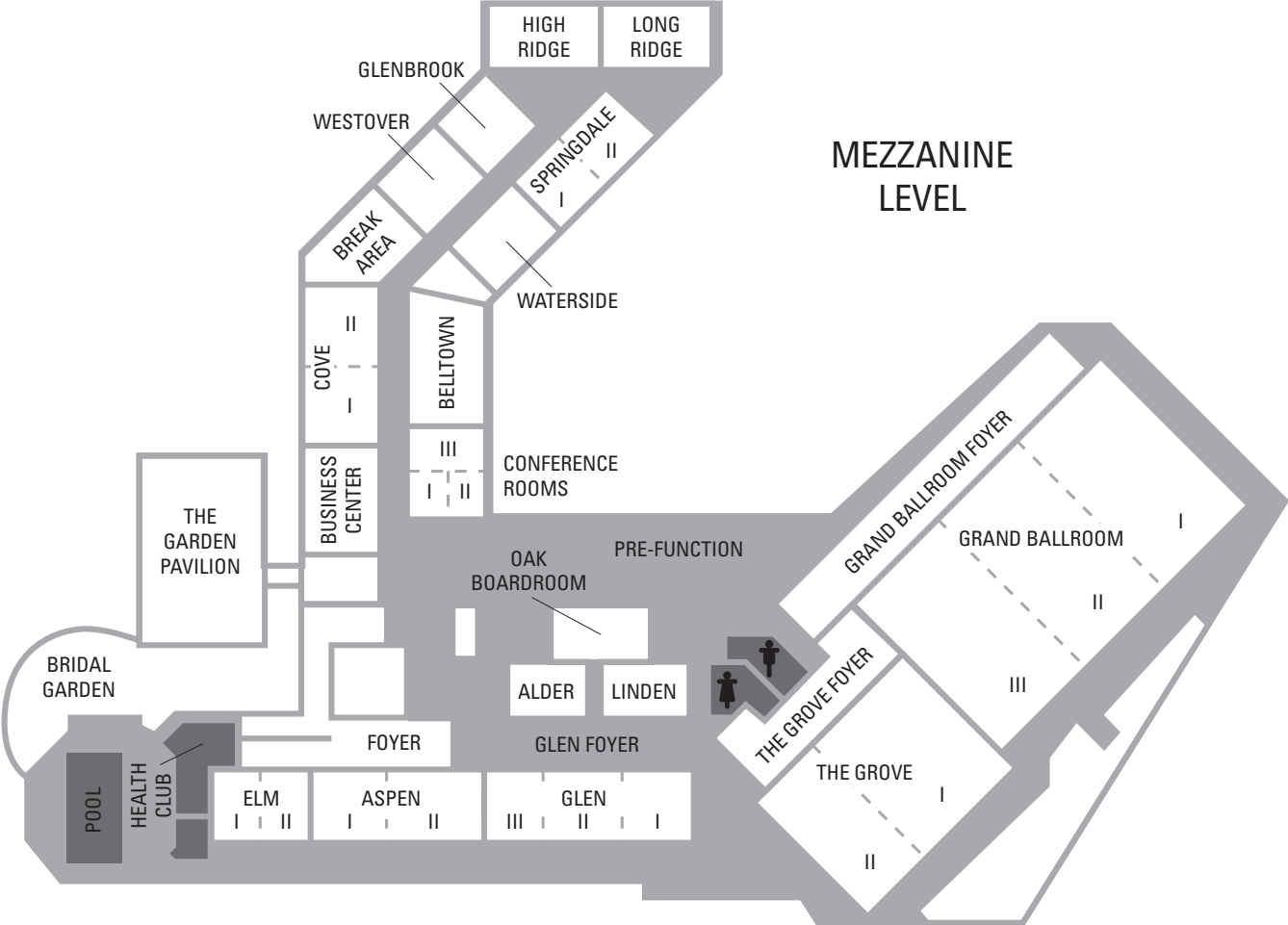
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PRESENTATION CATEGORIES KEY

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>





SYMPOSIUM AT-A-GLANCE

Time	General Sessions	Undergraduate Sessions	Graduate Sessions	Doctoral Scholars	Coordinators, Mentors, Guests, Administrators
Day 1 - Orientation, Networking & Alumni Career Panel					
11:00am - 3:00pm	Registration				
11:00am - 3:00pm		PowerPoint Presentation Upload I			
12:00pm - 2:30pm	Informal Networking Lunch				
2:00pm-3:00pm			Moderators Training Graduate Students		
3:00pm -4:15pm		Funding Sessions by Discipline			
3:00pm -5:15pm			Grantsmanship 101 Graduate Students and Doctoral Scholars		
4:20pm -5:15pm		Orientation/Networking Sessions by Discipline			
5:30pm - 6:30pm		*NEW* Graduate Research Fellowship Programs Undergraduate Seniors, First and Second Year Graduate Students in STEM			
5:30pm - 6:30pm		PowerPoint Presentation Upload II		Meet & Greet with Program Officers Doctoral Scholars	
7:00pm - 9:15pm	Dinner/Welcome/Alumni Research & Career Panel Presentations				
9:30pm - 10:30pm			Reception for Doctoral Scholars, Faculty Mentors, Coordinators, Graduate Students		
Day 2 - Student Presentations & Panel Discussions					
9:00am - 3:00pm	Registration				
7:30am - 8:45am		Poster Setup			
7:15am-8:30am			Coordinators Community Meeting and Group Photo		
7:30am - 8:30am		Networking Breakfasts	Breakfast for Graduate Students and Doctoral Scholars: *NEW* Professional Societies: Making the Best of Professional Connections		
8:45am - 9:45am	Student Poster Presentations Session I (Odd Poster Numbers)				
9:45am - 10:45am	Student Poster Presentations Session II (Even Poster Numbers)				
11:15am - 12:45pm	Student Oral Presentations Session I -Only BioSciences & Applied BioSciences Present				
1:00pm - 2:30pm		Lunch Panel: The Graduate School Experience (PhD Program)	Lunch for Graduate Students and Doctoral Scholars: *NEW* Utilizing Professional Development, Social Support, Mentoring, and Networking for Success		
		Lunch Panel: The Graduate School Experience (MD-PhD Program)			
2:45pm - 4:15pm	Student Oral Presentations Session II - All disciplines will present				
4:20pm - 4:30pm	Break/Snack/Professional Headshots*				
4:45pm - 6:00pm	Student Oral Presentations Session III - All disciplines will present				
6:00pm - 6:45pm	Group Photos: Mellon Initiative Cohort/Individual Professional Headshots/Free Time				
7:00pm - 9:00pm	Dinner & Keynote Speaker				
9:00pm - 12:00am	Dance Party				
Day 3 - Recruiting Fair & Next Steps					
7:30am - 10:00am					Exhibitors Set-up for Recruiting Fair
8:00am - 9:45am	Graduate School Application & Interview Process Breakfast Panels	Breakfast Panel: BioSciences	Breakfast for Graduate Students and Doctoral Scholars: *NEW* Using Social Media to Effectively Enhance Your Future		
		Breakfast Panel: MD-PhD			
		Breakfast Panel: Social Sciences & Humanities			
		Breakfast Panel: Engineering & Physical Sciences			
10:00am - 11:30am			Leadership Alliance Doctoral Scholar Network		
10:00am - 12:00pm	Recruiting Fair/Exhibitors				
12:00pm - 1:00pm	Fill out Surveys/Closing Remarks/Adjournment				

**Headshots can be taken all day Saturday.*

AGENDA 2013

■ FRIDAY, JULY 26

11:00AM – 3:00PM

Leadership Alliance Conference Registration Mezzanine

11:00AM – 3:00PM

PowerPoint Upload Session I Alder

12:00PM – 2:30PM

Informal Networking Lunch – Everyone Garden Pavilion

2:00PM – 3:00PM

Moderators Training The Glen

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

Undergraduates:

3:00PM – 4:15PM

Funding Your Education by Discipline

4:20PM – 5:15PM

Orientation/Networking Session by Discipline

Biosciences Grand Ballroom I

Moderators: Sheila Thomas, Assistant Professor of Medicine, Assistant Dean of Diversity and Minority Affairs for GSAS and DMS, Harvard University; Nikia Laurie, Assistant Professor, Ann & Robert H. Lurie Children's Hospital of Chicago Research Center, Northwestern University Feinberg School of Medicine

Funding Your Education Panel:

Erika Barr, Special Projects Coordinator, Office of Intramural Training and Education, NIH

Tiffani Fonseca, Fellowships Programs Coordinator, ASM

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

Social Sciences and Humanities Grand Ballroom II

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 Your Education Panel:

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

Chris Cash, Director of Student Assistance Programs, Institute for Broadening Participation

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

Engineering and Physical Sciences Grove II

Moderator: Michelle Nearon, Assistant Dean Office for Diversity and Equal Opportunity, Yale University

Funding Your Education Panel:

Aileen Walter, Vice President, Scholarships and University Relations, National Action Council for Minorities in Engineering

Sara Xayarath Hernandez, Director of Diversity Programs, Engineering College, Cornell University/ Institute for Broadening Participation

Don Brunson, Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University

3:00PM – 5:15PM

Developing Grantsmanship SkillsGrove I
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 Carolina university/CUR

5:30PM – 6:30PM

(New) Graduate Research Fellowship Programs (GRFP) Grove II
(This session is for seniors, first and second year graduate students - STEM)

Moderator: Pushpa Murthy, Program Director, Graduate Research Fellowship Programs, National Science Foundation

5:30PM – 6:45PM

Power Point Upload Session II Alder

5:30PM – 6:30PM

Doctoral Scholars Meet & GreetAspen

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

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

Tiffani Fonseca, Fellowships Programs Coordinator, ASM

Nicole Restrict, Fellowships Manager, Assistant Director, Abe Fellowship Program, Social Science Research Council

Anastacia Berzat, Scientific Program Manager, Office of Education, Diversity & Inclusion, Novartis Institutes for Biomedical Research

Laina King, Director of Diversity in Life Science Programs, Keystone Symposia

Chris Cash, Director of Student Assistance Programs, Institute for Broadening Participation

Rebecca Keiser, Associate Deputy Administrator for Strategy and Policy, NASA

Mary Crowe, Associate Provost of Experiential Learning, Florida Southern College, Council on Undergraduate Research

Brooke Bruthers, Diversity Programs Coordinator, The American Physiological Society

Erika Barr, Special Projects Coordinator, Office of Intramural Training and Education, NIH

7:00PM – 9:15PM

Welcome, Dinner, Alumni Career PanelGrand Ballroom I & II

Moderator: Chinonye Nnakwe, Director of Graduate Diversity Recruitment, University of Chicago

Panelists:

Kisha Piggott, Ophthalmology and Visual Sciences MD-PhD, Washington University in St. Louis

Eric Villegas, Research Microbiologist, U.S. Environmental Protection Agency

Alyssa Garcia, Assistant Professor of Women's Studies, Pennsylvania State University

La Marr Jurelle Bruce, African American Studies and American Studies, Yale University

9:30PM – 10:30PM

ReceptionGrove I

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

■ SATURDAY, JULY 27

9:00AM – 3:00PM

Leadership Alliance Conference Registration Mezzanine

7:15AM – 8:30AM

Coordinators Community Meeting/Group Photo..... Elm

7:30AM – 8:30AM

Posters Setup Garden Pavilion

8:30AM – 6:00PM

Professional Headshots Charter Oak

7:30AM – 8:30AM

Undergraduate Networking Breakfasts

Biosciences Grand Ballroom I

Social Sciences and Humanities Grand Ballroom II

Engineering and Physical Sciences Grove II

Networking Breakfast: Doctoral Scholars & Graduate Students

(New) Professional Societies: Making the Best of Professional Connections Grove I

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

Panelists:

Caryl McFarlane, Sr. Program Officer/Director Mellon Y& Pickering Programs, Woodrow Wilson National Fellowship Foundation

Laina King, Director of Diversity in Life Science Programs, Keystone Symposia

Nicole Restrict, Fellowships Manager, Assistant Director, Abe Fellowship Program, Social Science Research Council

Pamela Scott-Johnson, Psychology Associate Professor & Chair of Psychology, Morgan State University

Tiffani Fonseca, Fellowships Programs Coordinator, ASM

Brooke Bruthers, Diversity Programs Coordinator, The American Physiological Society

8:45AM – 10:45AM

Student Poster Presentations..... Garden Pavilion

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

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

11:15AM – 12:45PM

Student Oral Presentations Session I

Biosciences: Elm I, Elm II, Aspen I, Aspen II, Glen I, Glen II, Glen III, Alder

Social Sciences & Humanities: Springdale II

Lunch served 1:00 pm.

Sessions conducted from 1:30 – 2:30 pm.

1:00PM – 2:30PM

Panel Discussion for Undergraduates Interested in the PhD:Grand Ballroom I

The Graduate School Experience

Moderator: Pamela Scott-Johnson, Interim Dean of the College of Liberal Arts, Morgan State University

Panelists:

Larry Perry, Religious Studies, University of Virginia

Jose Solis, Civil Engineering, University of Colorado Boulder

Jewell Debnam, Cultural 20th Century, Michigan State University

Teresa Ramirez, Molecular Pharmacology and Physiology, Brown University

1:00PM – 2:30PM

Panel Discussion for Undergraduates Interested in the MD-PhD: Grand Ballroom II
 The Graduate School Experience

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

Panelists:

Andrew Drysdale, MD-PhD Candidate, Weill Cornell Medical College

Jose-Marc Techner, MD-PhD Candidate, Northwestern University Feinberg School of Medicine

Maria Sacta, MD-PhD Candidate, Weill Cornell Medical College

Tashalee Brown, MD-PhD Candidate, Weill Cornell Medical College

1:00PM – 2:30PM

(New) Panel Discussion for Graduate Students and Doctoral Scholars:Grove I & II
 Utilizing Professional Development, Social Support, Mentoring, and Networking for Success

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

Panelists:

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

Professional Development – Deborah Collins, Associate Director, The Leadership Alliance

Social Support – Louise Hainline, Professor Psychology, Brooklyn College

Networking – Tyrone Barksdale, Assistant to the Provost/Special Projects Analyst, Howard University

Post Doc - Eric Villegas, Research Microbiologist, National Exposure Research laboratory (EPA)

Industry - Anastacia Berzat, Scientific Program Manager at Novartis Institutes for Biomedical Research

2:45PM – 4:15PM

Student Oral Presentations Session II

Biosciences: Elm I, Elm II, Aspen I, Aspen II, Glen I, Glen II, Glen III, Alder

Social Sciences & Humanities: Belltown, Cove I, Cove II, Waterside, Springdale I, Springdale II

Engineering & Physical Science: Westover, Glenbrook, High Ridge, Long Ridge

~~~~ Break, 4:20 pm – 4:40 pm ~~~~

**4:45PM – 6:00PM**

Student Oral Presentations Session III

Bioscience: Elm I, Elm II, Aspen I, Aspen II, Glen I, Glen II, Glen III, Alder

Social Sciences & Humanities: Belltown, Cove I, Cove II, Waterside, Springdale I, Springdale II

Engineering & Physical Science: Westover, Glenbrook, High Ridge, Long Ridge

**6:00PM – 6:45PM**

Leadership Alliance Mellon Initiative Group Photo.....TBA by photographer

**7:00PM**

Dinner, Keynote Speaker .....Grand Ballroom I & II

**Dr. Terrell Strayhorn**, Professor, Researcher, Provocateur, The Ohio State University

**9:00PM – 12:00AM**

Dance ..... Grove

## ■ SUNDAY, JULY 28

**7:30AM – 10:00AM**

Exhibitors Set-up for Recruiting Fair .....Grand Ballroom III

~ 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 & Interview Process

Biosciences .....Grand Ballroom I

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

**Panelists:**

**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 .....Grand Ballroom II

**Moderator:** Ruth Gotian, Administrative Director, Tri-Institutional MD-PhD Program, Weill Cornell Medical College

**Panelists:**

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

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

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

**Michelle Grundy**, Assistant Director of the MSTP, Vanderbilt University

Social Sciences and Humanities .....The Glen

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

**Panelists:**

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

**Karen Jackson-Weaver**, Associate Dean of Academic Affairs and Diversity, Princeton University

Engineering and Physical Sciences .....The Elm

**Moderator:** Michelle Nearon, Assistant Dean Office for Diversity and Equal Opportunity, Yale University

**Panelists:**

**Don Brunson**, Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University

**Sonya Gwak**, Associate Director for Student Affairs and Graduate Admissions, University of Pennsylvania

**(New)** Using Social Media to Effectively Enhance Your Future

Graduate Student & Doctoral Scholar Breakfast.....The Aspen I & II

**Moderator:** Mary Crowe, Associate Provost of Experiential Learning, Florida Southern College, Council on Undergraduate Research

Faculty Breakfast .....Alder

**10:00AM – 12:00PM**

Recruiting Fair .....Grand Ballroom III

**10:00AM – 11:30AM**

Leadership Alliance Doctoral Scholar Network.....Cove

**12:00PM – 1:00PM**

Fill out surveys, Closing Remarks, Adjournment.....Grand Ballroom I & II

# TERRELL L. STRAYHORN

## *Keynote Speaker*

TERRELL L. STRAYHORN, PH.D.



Dr. Terrell Lamont Strayhorn is Associate Professor of Higher Education at The Ohio State University in the School of Educational Policy & Leadership within the College of Education and Human Ecology, where he also serves as Director of the Center for Inclusion, Diversity, & Academic Success (IDEAs), Faculty Research Associate in the Kirwan Institute for the Study of Race & Ethnicity, Senior Research Associate in the Todd A. Bell National Resource Center for African American Males, and faculty affiliate in the Departments of Black Studies, Sexuality Studies, and Engineering Education.

Professor Strayhorn maintains an active and highly visible research agenda focusing on major policy issues in education: student access and achievement, equity and diversity,

impact of college on students, and student learning and development. Acclaimed higher education researcher and policy analyst, Strayhorn has authored 7 books and monographs including *The Evolving Challenges of Black College Students* (Stylus Publishing, 2010), *College Students' Sense of Belonging* (Routledge, 2012), *Living at the Intersections* (IAP, 2013) over 40 book chapters, and more than 80 refereed journal articles, reviews, and scientific reports. He is a highly sought after public speaker and presenter; to date, he has authored over 150 international, national, and state conference papers or keynotes. Named “one of the most highly visible new scholars in his field,” by the *Journal of Blacks in Higher Education*, Strayhorn has received numerous national awards and honors; he was recently named one of the nation's Top Emerging Scholars by *Diverse Issues in Higher Education* and one of the “Top 20 in Education” by *BusinessFirst*. Strayhorn is co-editor of *Spectrum: A Journal on Black Men*, published by Indiana University Press; associate editor of the *Journal of Higher Education*, and serves on several editorial boards. Grants totaling more than \$2 million have supported his research program including funds from the U.S. Department of Education, National Science Foundation, and several professional associations.

# 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 | AB | <b>Hayford Agyemang</b>      | Myelination and Pediatric SIV (Simian Immunodeficiency Virus)                                                                                                                               | Glen III |
| 11:15 AM | AB | <b>Aja Crim-Logan</b>        | Computer Based Treatment for Cognitive Behavioral Therapy                                                                                                                                   | Glen II  |
| 11:15 AM | BB | <b>Kevin De Jesus</b>        | Elucidating a Mitochondrial Protective Transcriptional Network                                                                                                                              | Aspen II |
| 11:15 AM | BB | <b>Michelle Okoreeh</b>      | MTAP Inactivation in Cancer                                                                                                                                                                 | Alder    |
| 11:15 AM | AB | <b>Uchenna Okoro</b>         | Characterization and Screening of Monoclonal Antibodies Targeting Abnormal Protein Conformations                                                                                            | Elm I    |
| 11:15 AM | AB | <b>Angel Ortiz Rodriguez</b> | Interferon-gamma Mediated Degradation of HemeOxygenase-1 (HO-1) Via Induction of the Immunoproteasome in Human Primary Macrophages: Implications for HIV Associated Neurocognitive Disorder | Aspen I  |
| 11:15 AM | BB | <b>Folasade Sofela</b>       | Effects of Hypoxia on gamma-Secretase Activity in Neuronal Cells                                                                                                                            | Glen I   |
| 11:15 AM | AB | <b>Camila Uechi</b>          | Investigating the Mechanisms of Atrial Fibrillation Through the Use of Computational Human Atrial Models                                                                                    | Elm II   |
| 11:30 AM | BB | <b>Kristian Black</b>        | Development of Fluorescent RNA Biosensors for the Quantification of Intracellular Metabolites                                                                                               | Aspen II |
| 11:30 AM | AB | <b>Timothy Borjas</b>        | The Effect of Necrostatin-1 on Pancreatic Inflammation and Cancer                                                                                                                           | Alder    |
| 11:30 AM | AB | <b>Joshua Cole</b>           | Elucidating the Modulatory Effects of Flaxseed-derived Lignans on Protein Expression of Macrophage Co-receptors: Implications for HIV Neuroprotection                                       | Aspen I  |
| 11:30 AM | AB | <b>Jeffrey Luery</b>         | Diurnal Changes of Neuron Excitability Within the Suprachiasmatic Nucleus Using Voltage-Sensitive Dye Imaging                                                                               | Glen III |
| 11:30 AM | AB | <b>Luis Millán-Barea</b>     | Francisella Infectivity Potentiator Protein B FipB, and FipA are Important Protectors Against Incorrect Disulfide Bond Formation Caused by Copper Stress in Francisella novicida            | Elm I    |
| 11:30 AM | AB | <b>Isabel Morgan</b>         | Socioeconomic Status and Child Cognitive Outcomes at Age 7; Maternal Cortisol as a Possible Mediator                                                                                        | Glen II  |
| 11:30 AM | BB | <b>Babajide Oluwadare</b>    | Determining the Contribution of Fibroblast Connexin Expression to the Conduction Properties of Injured Cardiac Tissue                                                                       | Elm II   |
| 11:30 AM | BB | <b>Kelsey Wanhainen</b>      | Structural and Biophysical Studies of TREM2 in Neurological Diseases                                                                                                                        | Glen I   |
| 11:45 AM | BB | <b>Laura Agosto-Rosa</b>     | Signal-Induced Alternative Splicing in Primary T Cells and Cell Lines                                                                                                                       | Aspen II |

|          |    |                                 |                                                                                                                                                                                                                         |          |
|----------|----|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 11:45 AM | BB | <b>Cristhian Cadena</b>         | Impact of Defective Viral Genomes Sequence Modifications in Their Immunostimulatory Activity                                                                                                                            | Aspen I  |
| 11:45 AM | BB | <b>Cecile Gaston</b>            | Novel Role of the Neuronal Guidance Cue, Netrin-1 in Abdominal Aortic Aneurysm Formation                                                                                                                                | Glen III |
| 11:45 AM | BB | <b>Joshua Rosario Sepulveda</b> | Structure Analysis of Human Red Cell Spectrin Using Homobifunctional Crosslinkers and High Resolution Mass Spectrometry                                                                                                 | Elm I    |
| 11:45 AM | BB | <b>Alicia Sanchez</b>           | Arginine Vasopressin Neurons in Suprachiasmatic Nucleus of Transgenic Mice Deficient in FGF8 and FGFR1                                                                                                                  | Glen I   |
| 11:45 AM | BB | <b>Javier Sierra-Pagán</b>      | Characterization of the Role of Hdac3 and Hopx in Cardiac Cell Differentiation In Vitro                                                                                                                                 | Elm II   |
| 11:45 AM | BB | <b>Andrei Smid</b>              | Skp2 E3-ligase Inhibitors as Probes for Cell Cycle Analysis in Cancer                                                                                                                                                   | Alder    |
| 11:45 AM | AB | <b>Zoe Spafford</b>             | The Spacial Organization of Skilled Behavior Within an Identified Neural Circuit                                                                                                                                        | Glen II  |
| 12:00 PM | BB | <b>Rajshekhar Basak</b>         | The Mechanism of Acrolein-Induced Lung Endothelial Permeability                                                                                                                                                         | Elm II   |
| 12:00 PM | BB | <b>Lindsey Brier</b>            | Assessing the Effects of RNase H rRNA Depletion on Technical Variability in RNA Sequencing Experiments                                                                                                                  | Aspen II |
| 12:00 PM | BB | <b>Erran Briggs II</b>          | The Study of the HIV-1 5'UTR Monomer-Dimer Equilibrium by Native Size Exclusion Chromatography                                                                                                                          | Aspen I  |
| 12:00 PM | BB | <b>Timothy Brown</b>            | Insect Cell Expression and Purification of PTEN -- A Key Signaling Phosphatase and Tumor Suppressor                                                                                                                     | Alder    |
| 12:00 PM | AB | <b>Rachel Lee</b>               | Ultrasonic Actuation Reduces Brain Inflammatory Response to Neural Microelectrode Insertion                                                                                                                             | Glen III |
| 12:00 PM | BB | <b>Bryan Morales</b>            | Assessing the Effects of Sleep Homeostasis in Activity-Dependent Plasticity: The Spatiotemporal Expression of Plasticity-Related Proteins Within a Sleep Deprivation Study Using the Model Organism <i>Mus musculus</i> | Glen II  |
| 12:00 PM | BB | <b>Pauline Xu</b>               | Quantitative Phosphoproteomic Analysis Using High-Resolution Tandem Mass Spectrometry                                                                                                                                   | Elm I    |
| 12:00 PM | BB | <b>Amy Zhang</b>                | A Quirky Inhibitory Circuit in the Cerebral Cortex                                                                                                                                                                      | Glen I   |
| 12:15 PM | BB | <b>Stephanie Castillo</b>       | Dissecting Interactions Between BamA and BamD Via Binding and Fluorescence Studies                                                                                                                                      | Elm I    |
| 12:15 PM | BB | <b>Irene Lee</b>                | Use of Immune Complex Vaccine as a Novel Immunogen to Generate Broad HIV-1 Neutralizing Antibodies                                                                                                                      | Aspen I  |
| 12:15 PM | AB | <b>Robert Myers</b>             | Neoplastic Transformation of Neural Precursor Cells to Model Glioblastoma Multiforme (GBM)                                                                                                                              | Glen I   |
| 12:15 PM | BB | <b>Diana Nwokoye</b>            | Spatial and Temporal Expression Patterns of MBD2: Protein Implicated in Autistic-like Phenotypes                                                                                                                        | Glen II  |
| 12:15 PM | AB | <b>Natalia Quijano-Cardé</b>    | MR-Visible Lipids as a Biomarker of Cell Stress in Prostate Cancer Cells Treated With Anticancer Drugs                                                                                                                  | Alder    |



|          |    |                              |                                                                                                                                         |               |
|----------|----|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 12:15 PM | BB | <b>Zakariyah Sharif-Sidi</b> | Bioinformatic Analysis of the Transcription Factors Involved in Cochlear Synapse Formation                                              | Aspen II      |
| 12:15 PM | BB | <b>Emilio Soto</b>           | The Role of Sensory Cortex in Cue-induced Relapse to Drug Addiction                                                                     | Glen III      |
| 12:15 PM | BB | <b>Kyle Tucker</b>           | Cell Cycle Effects of Delta Np63 alpha and SAMD9L on Lung Squamous Cell Carcinoma                                                       | Elm II        |
| 12:30 PM | HU | <b>Andrew Anguiano</b>       | The Economy of Online Courtship: Memoirs of Desperation and Fabrication in Internet-Mediated Dating                                     | Springdale II |
| 12:30 PM | AB | <b>Sandy Chan</b>            | Effect of Aspirin on Microhemorrhage Diameters in Rodent Brains                                                                         | Glen II       |
| 12:30 PM | BB | <b>Arianna Espinoza</b>      | Using Fluorescence Anisotropy to Understand How MARCKS-ED Peptide Binds to Microvesicles                                                | Elm I         |
| 12:30 PM | AB | <b>Marilyn Le</b>            | The Effects of Reverse Transcriptase Inhibitors on LINE-1 Retrotransposon Expression in Human Fibroblasts                               | Aspen I       |
| 12:30 PM | AB | <b>LeaAnn Love</b>           | African American Women and Triple Negative Breast Cancer: Examining the Stigmas of Self Touching that Prevent Its Early Detection       | Alder         |
| 12:30 PM | AB | <b>Madeline Pelz</b>         | Imaging and Characterization of Hippocampal Circuits Implicated in Temporal Lobe Epilepsy                                               | Glen I        |
| 12:30 PM | BB | <b>Carlos Santos-Perez</b>   | DAX1 and WT1: Novel Regulatros of the LH $\beta$ Transcription                                                                          | Aspen II      |
| 12:30 PM | BB | <b>Ephrath Tesfaye</b>       | Changes in the Synaptic Plasticity of the Hypothalamic Paraventricular Nucleus Following Hypertension in the AOF Menopausal Mouse Model | Glen III      |
| 12:30 PM | BB | <b>Saiah Yates</b>           | Phosphorylation of Threonine 45 of Histone H3 and the Effects of Alanine and Aspartic Acid Mutations                                    | Elm II        |
| 2:45 PM  | BB | <b>Gifty Addae</b>           | Investigating Novel Proteins And MicroRNAs In Leukemogenesis                                                                            | Aspen I       |
| 2:45 PM  | HU | <b>Anncaroline Clark</b>     | Harm Reduction in the United States: The Early Development of New York City's Syringe and Needle Exchange Policy, 1985-1989             | Cove I        |
| 2:45 PM  | BB | <b>Rebecca de Frates</b>     | The Role of Cdc42 in Cerebellar Granule Cell Development                                                                                | Alder         |
| 2:45 PM  | PS | <b>Aisha Dorta</b>           | A Quantitative Analysis of the Biological Terraformation of a Planet                                                                    | Glenbrook     |
| 2:45 PM  | BB | <b>Bianca Flores</b>         | The Effects of Mycobacterium vaccae on Serotonergic Systems, Immune Activation, and Behavior in the Forced Swim Test                    | Elm I         |
| 2:45 PM  | HU | <b>Cynthia Garcia</b>        | Reclaiming Space and Preserving Cultural History in the Mission District of San Francisco                                               | Waterside     |
| 2:45 PM  | SS | <b>Jemima Georges</b>        | An Examination of the Impacts Prehistoric Cahokians Had on Their Natural Environment                                                    | Belltown      |
| 2:45 PM  | AB | <b>Claudio Macias</b>        | Self-assembled Supramolecular Nanobelts for Antibiotic Delivery                                                                         | Glen I        |
| 2:45 PM  | HU | <b>Carrie Moore</b>          | Fitting into the Story: Western Romance and Blackness in Toni Morrison's "Tar Baby"                                                     | Cove II       |



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| 2:45 PM | ES | Mary Ng           | Characterizing Precipitation in East Africa                                                                                          | Westover      |
| 2:45 PM | BB | Adewola Osunsade  | Assessing the Functionality of Protein Kinase C Isozymes Using Wildtype and Constitutively Active Forms of PKC-alpha and PKC-epsilon | Aspen II      |
| 2:45 PM | HU | Darien Pollock    | 21st Century American Street Philosophy and the Philosophy of Mass Incarceration                                                     | Springdale I  |
| 2:45 PM | BB | Daniel Powell     | Elucidating Cellular and Molecular Mechanisms of Estrogen Dependent TAF4B Upregulation                                               | Glen III      |
| 2:45 PM | SS | Melisa Rojas      | Examining Reciprocal Communication in Youth with Autism Spectrum Disorders Following a Peer-Mediated Theatre Intervention            | Springdale II |
| 2:45 PM | AB | LaTonya Simon     | Synthesis and Characterization of Photodegradable Oxime Derived Microparticles                                                       | Glen II       |
| 2:45 PM | BB | Ryan Spector      | The Role of CDC25A in Neuronal Apoptosis                                                                                             | Elm II        |
| 2:45 PM | PS | Anna Stephenson   | Manipulating Atoms to Create Artificial Materials                                                                                    | High Ridge    |
| 2:45 PM | PS | George Torres     | Deconstructing Graphs and Their Eigenspectra                                                                                         | Long Ridge    |
| 3:00 PM | AB | Raymond Barry     | The Effects of the Microbiome on Health and Disease                                                                                  | Glen I        |
| 3:00 PM | HU | Henry Capps III   | The Prison Tragedy: The Failure of Narcotics Criminalization in New York City's War on Drugs                                         | Springdale I  |
| 3:00 PM | PS | Corie Jade Carter | Microbial Ecology of Biological Nitrogen Fixation in MT Soils                                                                        | Glenbrook     |
| 3:00 PM | SS | Princess Cobbs    | Health Care Utilization by Young Adults That Have Been Affected by the Criminal Justice System Compared to Those That Have Not       | Springdale II |
| 3:00 PM | HU | Evan Coles        | The Literature of Black Marxism: A Critical Look at Religious Domination                                                             | Cove II       |
| 3:00 PM | HU | Lauren Highsmith  | The Divide: Modernism and Afro-Modernism                                                                                             | Waterside     |
| 3:00 PM | EN | Dorcas Huang      | Modeling Cellular Response to Nanopatterned Bulk Metallic Glasses                                                                    | Long Ridge    |
| 3:00 PM | HU | David Hutchinson  | All I Do Know Is That I Like Being Liked: Conceptualizing Same-Sex Desire in Richard Bruce Nugent's "Gentleman Jigger"               | Cove I        |
| 3:00 PM | BB | Melissa Leung     | Efficacy of the novel JAK2 inhibitor G6, in Myeloproliferative Neoplasms                                                             | Alder         |
| 3:00 PM | BB | Davys Lopez       | Localization of the Polarity Regulator PAC-1 by Components of the Cadherin-Catenin Complex                                           | Aspen II      |
| 3:00 PM | ES | Brian Matilla     | Convection Initiation along the Rocky Mountain Front Range                                                                           | Westover      |
| 3:00 PM | PS | Alexis Morris     | Description of the Behaviors and Electron Correlation in LaNiO3 and NdNiO3 Through First Principles Theory                           | High Ridge    |
| 3:00 PM | SS | Daniel Nissani    | Characterizing Forms of Mathematical Discourse                                                                                       | Belltown      |
| 3:00 PM | BB | Gordon Pheribo    | Optimizing shRNA to Target Specific RNA-Binding Protein Transcripts                                                                  | Aspen I       |
| 3:00 PM | AB | Mayra Rios        | Expression Level of Transient Receptor Potential Vanilloid-4 (TRPV4) in Mice During Lung Development                                 | Elm II        |

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| 3:00 PM | BB | <b>Stephanie Rivera Morales</b> | Plasmodium falciparum Strain Specific Malaria Infection Symptoms and Immunity                                                        | Elm I         |
| 3:00 PM | AB | <b>Andrea Shergalis</b>         | Stabilities of Rhenium Complexes Formed by N2S2 and N3S Ligands                                                                      | Glen II       |
| 3:00 PM | BB | <b>Selamawi Tilahun</b>         | Analysis of Sperm Telomere Length in Men With Clinical Infertility and Its Extensive Variation Within Specimens                      | Glen III      |
| 3:15 PM | AB | <b>Tasnia Ali</b>               | Role of ITGAD in Early Activation of Memory CD4+ T Cells                                                                             | Elm I         |
| 3:15 PM | BB | <b>Kervin Charles</b>           | A Role for R-Ras in Formation of HFS-LTP and Contextual Discrimination Learning via Activation by RasGRF1                            | Aspen II      |
| 3:15 PM | HU | <b>Dayana De La Torre</b>       | Drug Busts in New York City: Law Enforcement and Crime in the 1980s                                                                  | Cove I        |
| 3:15 PM | EN | <b>Miguel Frias</b>             | Seismic Soil Structure Interaction and Lateral Earth Pressures Near Buried Water Reservoir Structures in Southern California         | Westover      |
| 3:15 PM | SS | <b>Jillian Haynes</b>           | Candidate Physiological Markers of Perceived Stress                                                                                  | Springdale II |
| 3:15 PM | AB | <b>Carolina Larrain</b>         | Characterization of Ontogenetic Columns in Reeler Mice                                                                               | Glen III      |
| 3:15 PM | AB | <b>Sydney Lomnes</b>            | Host and Parasite Communities: How Interactions Between Chaetogaster limnaei and Echinostoma sp. Affect Snail Hosts                  | Glen I        |
| 3:15 PM | PS | <b>Peter Lowrie</b>             | X-Ray Vision: Using X-Ray Interference Patterns to Track the Growth of Silicon Oxide Layers                                          | High Ridge    |
| 3:15 PM | AB | <b>Bosoye Olateru-Olagbegi</b>  | The Use of Sodium Nitrite in the Reversal of Vascular Dysfunction                                                                    | Glen II       |
| 3:15 PM | EN | <b>Hassan Omar</b>              | Development of Bulk Metallic Glasses and Experimental Calibration of Blow Molding Procedures                                         | Long Ridge    |
| 3:15 PM | HU | <b>Laura Ortiz</b>              | Witchcraft and Gender in Shakespeare's Tragedies and Histories                                                                       | Cove II       |
| 3:15 PM | SS | <b>Michael Rabadi</b>           | Exploring the Temporal Limits of Visual Processing of Familiar and Unfamiliar Objects at the Subordinate-Category Level              | Belltown      |
| 3:15 PM | BB | <b>Liorimar Ramos Medina</b>    | Role of Hyperacetylation of Histone H4K12 in Modulating Executive Cognitive Functioning in Mice Exposed to Early Life Stress         | Alder         |
| 3:15 PM | ES | <b>Timothy Salazar</b>          | Analyzing Biocontrol Capability; Mecinus janthiniformis and Linaria dalmatica: A Blessed Communion? (ABCs of Weevils and Toadflax)   | Glenbrook     |
| 3:15 PM | SS | <b>Gabriel Augusto Sanchez</b>  | Poverty and Race in the United States                                                                                                | Springdale I  |
| 3:15 PM | BB | <b>Phillip Thomas</b>           | An Unbiased Screen Identifies New Pf1 Interactors With Biological Significance in Chromatin Modification and Transcriptional Control | Aspen I       |

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| 3:15 PM | AB | <b>Raquel Tripp</b>               | Separation of Maternal and Fetal Components of Products of Conception (POC) Using Laser Capture Microdissection and Evaluation of Direct PCR for Paternity Testing in Sexual Assault Cases                                  | Elm II        |
| 3:15 PM | SS | <b>Sade Williams</b>              | Am I Who I Say I Am or What They Say I Am?: Identity Construction in Juvenile Courtroom Proceedings                                                                                                                         | Waterside     |
| 3:30 PM | AB | <b>Aida Alazar</b>                | A Small Molecule Screen To Identify Modulators Of C-cell Development In Zebrafish Embryos                                                                                                                                   | Glen II       |
| 3:30 PM | SS | <b>Morgan Clark</b>               | Not Just a Game: Racialization, Othering and Hypersex in Video Games                                                                                                                                                        | Belltown      |
| 3:30 PM | BB | <b>James Damiano</b>              | Mechanism of JAK2 Autoinhibition Identified by Molecular Dynamics Simulation                                                                                                                                                | Aspen II      |
| 3:30 PM | EN | <b>Jana Dodson</b>                | SEM and EDS Characterization of Bulk Metallic Glass                                                                                                                                                                         | Long Ridge    |
| 3:30 PM | BB | <b>Daniel Guzman</b>              | Analysis of the IgE Response in Nippostrongylus Brasiliensis-Infected Mice                                                                                                                                                  | Glen I        |
| 3:30 PM | HU | <b>Nikeeyia Howell</b>            | Demystifying the Strangeness: An Intertextual Analysis of Mark Twain's No.44, The Mysterious Stranger                                                                                                                       | Cove II       |
| 3:30 PM | EN | <b>Maxwell Kesselly</b>           | Utilization of Solar Energy in Residential Homes to Achieve Complete Net-Zero Energy Solar Homes                                                                                                                            | Westover      |
| 3:30 PM | PS | <b>Melissa Kreider</b>            | Synthesis of a Dense, High Aspect Ratio Zinc Oxide Nanowire Forest Using the PS-PMMA Block Copolymer                                                                                                                        | High Ridge    |
| 3:30 PM | BB | <b>Shannon Litke</b>              | Neurotensin Attenuates the Methamphetamine-Induced Increase in Phosphorylation of DARPP-32, Dopamine and cyclic AMP-Regulated Phosphoprotein, Via the Nitric Oxide/cyclic GMP Signaling Pathway in Striatal Neurons of Mice | Alder         |
| 3:30 PM | BB | <b>Onyemaechi Nwanaji-Enwerem</b> | The Biological Significance of Soluble Co-Inhibitory Receptors, B-/T-Lymphocyte Attenuator (BTLA), and its Ligand, Hepatitis Virus Entry Protein (HVEM), in the Development of Sepsis in Mice                               | Elm I         |
| 3:30 PM | SS | <b>Rafael Perez</b>               | The Effects of Social Stress on HDAC6-Related Proteins                                                                                                                                                                      | Springdale II |
| 3:30 PM | SS | <b>Yaritza Perez</b>              | Learned Helplessness or Tradition: An Examination of the Transgenerational Use and Perspective of Corporal Punishment and Authoritarianism in African American and Hispanic Families                                        | Waterside     |
| 3:30 PM | BB | <b>Adrian Rivera</b>              | siRNA Library Screen of ZMYND11 Interacting Partners                                                                                                                                                                        | Aspen I       |
| 3:30 PM | HU | <b>Emily Rogers</b>               | "Invisible Wounds" or Invisible Politics? Neoliberalism, Post-Traumatic Stress Disorder, and Imagined US Vulnerability in the "War on Terror"                                                                               | Springdale I  |
| 3:30 PM | ES | <b>Franklin Roman-Rodriguez</b>   | Bacterial Cultures From Tadpoles of the Bullfrog Lithobates catesbeianus (Previously Rana catesbeiana)                                                                                                                      | Glenbrook     |
| 3:30 PM | BB | <b>Rochelle Sadeghi</b>           | Spontaneous Changes in Immortalized Mammalian Cell Lines Result in Cell Competition                                                                                                                                         | Glen III      |
| 3:30 PM | BB | <b>Phillip Stephens</b>           | Understanding the Genetic Pathways Controlling Foraging Behavior in C. Elegans Using Double Mutant Analysis                                                                                                                 | Elm II        |

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| 3:30 PM | SS | Andrew Tuck        | Identifying Motivations for Medication Adherence in HIV-Positive Methamphetamine-Using Men Who Have Sex With Men                 | Cove I        |
| 3:45 PM | BB | Jaime Aponte       | Impact of RAGE Deletion and Mitochondrial Biogenesis                                                                             | Elm I         |
| 3:45 PM | EN | Rebecca Betances   | Cellular Responses to Nanopatterned Bulk Metallic Glasses                                                                        | Long Ridge    |
| 3:45 PM | HU | Donald Brown       | Universalism, Particularism, and the Limits Therein: Post-World War II Politics on Race                                          | Springdale I  |
| 3:45 PM | PE | Paul Cato          | Polyphony, Responsibility, & Active Love: A Reconsideration of Dostoevsky's and Lévinas' Philosophies of Love                    | Cove II       |
| 3:45 PM | BB | Avani Comer        | Functional Analysis of Crohn's Disease and Mycobacteria in Ashkenazi Jews                                                        | Glen I        |
| 3:45 PM | BB | Sherry Gee         | Role of ANO-1 in Endothelial Cell Proliferation and Migration                                                                    | Glen III      |
| 3:45 PM | PS | Joseph Geraghty    | Synthesis of Enantiopure Nantenine Analogs as Serotonin 5-HT <sub>2A</sub> Receptor Antagonists                                  | Glenbrook     |
| 3:45 PM | SS | Guadalupe Gonzalez | The Role of Gender and Stage of Acquisition in the Language Processing of L2 Learners                                            | Belltown      |
| 3:45 PM | AB | Natalia Herrera    | Generating an Antibody Against Retinoic Acid Receptor-Related Orphan Receptor Alpha (Rora) to Define its Transcriptional Targets | Aspen I       |
| 3:45 PM | BB | Claudia Lovell     | The Role of BET Proteins in Embryonic Stem Cell Fate Decisions                                                                   | Elm II        |
| 3:45 PM | HU | Danielle McColgan  | Historicizing Health Promotion: Anti-Drug Prevention in New York City From 1978-1989                                             | Cove I        |
| 3:45 PM | SS | Shayna McCormack   | Bipolar Disorder and Medicinal Nonadherence                                                                                      | Springdale II |
| 3:45 PM | BB | Karen Rico         | Relationship Between Acyl-CoA Thioesterase 7 and Saturated Fatty Acid-Induced JNK Activation                                     | Aspen II      |
| 3:45 PM | BB | Kathryn Sanchez    | Assessing Hippocampal Metabolism of MPS VII Mice by High Resolution Respirometry                                                 | Alder         |
| 3:45 PM | PS | Jayilssa Torres    | Co and Zr oxides/ Si (001) Epitaxial Growth and Surface Analysis: Ultra High Vacuum System Validation                            | High Ridge    |
| 3:45 PM | AB | Osaze Udeagbala    | Searching for Drug Leads: A Live Cytotoxicity Assay Against Giardia lamblia                                                      | Glen II       |
| 3:45 PM | EN | Stephen Vicchio    | A Combinatorial Study of the Dealloying of Au/Ag/Pd Metal Alloys For Improved Fuel Cell Catalysts                                | Westover      |
| 3:45 PM | SS | Sagirah Wheeler    | Words of Encouragement: Listening to the Past in Order to Prepare for the Future                                                 | Waterside     |
| 4:00 PM | SS | Emily Artalejo     | Female Paramilitary Experience in Northern Ireland                                                                               | Springdale I  |
| 4:00 PM | SS | William Beischel   | Executive Functioning in Sexually Compulsive Gay and Bisexual Men                                                                | Cove I        |
| 4:00 PM | EN | Alexander Bruch    | High Finesse Cavity for Characterizing the Optical Loss in Thin Films of Barium Titanate                                         | Long Ridge    |

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| 4:00 PM | BB | Can Buldun       | The Effects of Haloperidol, Clozapine and Risperidone on Glutamatergic Synapses                                                           | Alder         |
| 4:00 PM | BB | Marco Carpenter  | Identifying Schizophrenia Associated Gene Targets of the Transcription Factor c-myb                                                       | Glen II       |
| 4:00 PM | AB | Oluwadara Coker  | Investigating the Role of Non-Coding RNAs in Immunoglobulin Heavy Chain Locus Rearrangements                                              | Aspen I       |
| 4:00 PM | BB | Joshua Frenster  | Fluorescent Reporter System for Directing Hematopoietic Lineage Specification                                                             | Glen III      |
| 4:00 PM | EN | Michael Hawkins  | Using Ultraviolet Light to Inactivate the Bacteriophage MS2                                                                               | Glenbrook     |
| 4:00 PM | PS | Lena Ibrahim     | Effects of Rigidity of Bent-Core Liquid Crystal Spacer Groups                                                                             | High Ridge    |
| 4:00 PM | SS | Alexandra Jones  | Examining the Mind of a Student: How Unconscious Biases and Heuristics Influence Academic Decision-Making                                 | Belltown      |
| 4:00 PM | PE | Matthew McCauley | Talking About God: A Univocal Approach                                                                                                    | Waterside     |
| 4:00 PM | BB | Michael Okoreeh  | Novel Regulators of Early B Cell Survival and Proliferation                                                                               | Elm I         |
| 4:00 PM | SS | Coralie Pardo    | Sex Differences in CREB Expression After Administration of Cocaine, Methamphetamine, and Cannabinoids                                     | Springdale II |
| 4:00 PM | BB | Nicholas Pizzi   | Analysis of Hey1 Expression in Lamprey Pharyngeal Arches                                                                                  | Aspen II      |
| 4:00 PM | BB | Sarah Schrader   | Modeling IDH1 Mutations in Neural Cell Types Derived from Human Embryonic Stem Cells                                                      | Elm II        |
| 4:00 PM | SS | Tyler Sharp      | Love Prejudice: An Underestimated Social Problem                                                                                          | Cove II       |
| 4:00 PM | BB | Vaughn Spurrier  | NMR Studies of the Q5A, G6S Unmyristylated Feline Immunodeficiency Virus Matrix Protein                                                   | Glen I        |
| 4:00 PM | PS | Kevin Trujillo   | Developing Photovoltaic Cells Using Semiconducting Polymers – Novel Methods of Harvesting Solar Energy                                    | Westover      |
| 4:45 PM | AB | Javier Castillo  | The Effect of Innate Immune Modulation via Toll-Like Receptor 9 on the Amelioration of Cerebral Amyloid Angiopathy in Alzheimer's Disease | Glen II       |
| 4:45 PM | SS | Stanley Collins  | Social Capital Inside the Courtroom: An Analysis of the Networks That Assist Youth In Navigating the Juvenile Justice System              | Cove II       |
| 4:45 PM | SS | Fartun Dirie     | Antenatal Care and Healthcare Access in Mozambique: An Issue of Spatial Inequality?                                                       | Belltown      |
| 4:45 PM | AB | Damla Gonullu    | The Association Between Peripheral Blood Leukocyte Telomere Length and Female Reproductive Aging                                          | Elm I         |
| 4:45 PM | BB | Jere' Hutson     | Purification and Characterization of TAT-Cre for Ex Vivo Gene Deletion                                                                    | Elm II        |

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| 4:45 PM | AB | <b>Catrina Johnson</b>        | Contribution of the E74-Like Factor 3 to the Toll-Like Receptor-Driven Catabolic Responses in Articular Chondrocytes: Potential Role in Cartilage Destruction in Osteoarthritis | Aspen II      |
| 4:45 PM | AB | <b>Ahmed Malik</b>            | Role of Huntington's Disease Protein in Translation                                                                                                                             | Alder         |
| 4:45 PM | BB | <b>Shenee' Martin</b>         | The Study of TDP-1 and FUST-1 in <i>C. elegans</i> to Understand Their Role in Amyotrophic Lateral Sclerosis                                                                    | Aspen I       |
| 4:45 PM | SS | <b>Dana Muñiz</b>             | The Culture of Work: The Economy of the Sugar Mills and Company Towns at the Caribbean Basin in the 20th Century                                                                | Cove I        |
| 4:45 PM | ES | <b>StellJo Passes</b>         | Radon Project                                                                                                                                                                   | Westover      |
| 4:45 PM | PE | <b>Viviana Rivera-Burgos</b>  | Did Hurricane Sandy Dent the Vote? Evidence From a Large-Scale Study in New York City                                                                                           | Springdale I  |
| 4:45 PM | HU | <b>Veronica Rivera-Negron</b> | (De)Composing the Self: Embodied Imagery, Theatrical Space and Gender in the Performance of Teresa Hernández                                                                    | Springdale II |
| 4:45 PM | SS | <b>Miata Rogers</b>           | The Effect of Academic Resources on College Retention Rates                                                                                                                     | Waterside     |
| 4:45 PM | AB | <b>Amber Shaffer</b>          | Does Depression Lead to Incident Diabetes in African Americans?: The Jackson Heart Study                                                                                        | Glen I        |
| 4:45 PM | AB | <b>Kathryn Wu</b>             | Hypermethylation of CpG Sites Upstream of Hexanucleotide Repeat Expansions in the C9ORF72 Gene of ALS and FTD Patients                                                          | Glen III      |
| 5:00 PM | AB | <b>Kristen Bascombe</b>       | Determining the Source of and Maximizing the Yield from DNA on Touched Objects by Microscopic Visualization and Direct PCR                                                      | Glen III      |
| 5:00 PM | ES | <b>Isatis Cintron</b>         | Real Time in situ Source Characterization for BC in Total Aerosol                                                                                                               | Westover      |
| 5:00 PM | BB | <b>Sean Dougherty</b>         | Hyperoxia Protects Against Isoflurane-induced Apoptosis in the Rat Neonatal Brain                                                                                               | Aspen I       |
| 5:00 PM | AB | <b>Ugomma Eze</b>             | Requirement of FUS in mES-Derived Motor Neuron Survival; Implications for ALS                                                                                                   | Glen II       |
| 5:00 PM | AB | <b>Matthew Gonzalez</b>       | The Role of UCP1 and IAPP in the Progression of Diabetes                                                                                                                        | Glen I        |
| 5:00 PM | BB | <b>Jose Grullon</b>           | Functional Analysis and Localization of NIS, MCT1, and MCT4 Proteins                                                                                                            | Elm II        |
| 5:00 PM | SS | <b>Elsa Hardy</b>             | Cultures of Power: Harlem Children's Zone and Poverty Intervention Efforts                                                                                                      | Cove I        |
| 5:00 PM | PE | <b>Justin Henderson</b>       | Could Your DNA Soon Be in a Federal or State Database?                                                                                                                          | Belltown      |
| 5:00 PM | SS | <b>Steven Jefferson</b>       | China in the World: The Representation of Ethnic Minorities in the Media                                                                                                        | Cove II       |
| 5:00 PM | SS | <b>Katryna Mahoney</b>        | Black Activists in 'White Africa': Exploring sub-Saharan Migrant-Activism in Morocco                                                                                            | Springdale II |
| 5:00 PM | PE | <b>N'Kosi Oates</b>           | Geographic Neighborhood Poverty and Political Participation                                                                                                                     | Springdale I  |



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| 5:00 PM | AB | Fei Peng               | The Role of Aldosterone in Endothelial Cell Migration                                                                       | Elm I         |
| 5:00 PM | HU | Stephon Richardson     | The Black New Left: African-American Radical Groups of the Late 1950s to the Early '60s                                     | Waterside     |
| 5:00 PM | AB | Julian Roby            | Immature Neuron Proliferation in Correlation to Cognition in Aging Vervet Monkeys                                           | Alder         |
| 5:00 PM | AB | Joseph Villanueva      | Joint Repair: Engineering Tissue Scaffolds Using Polyethylene Glycol Hydrogels                                              | Aspen II      |
| 5:15 PM | AB | Nicole Bowman          | High Fat Diet Drives Epigenetic Changes: A Role for DNA Methyltransferase                                                   | Glen III      |
| 5:15 PM | AB | Kaitland Brannon       | Styryl-Based Compounds as Novel Potential Therapeutic Agents for Alzheimer's Disease                                        | Alder         |
| 5:15 PM | SS | Mario Castillo         | Kill/Capture: The Chichimec War in North Central Mexico, 1550-1600                                                          | Springdale II |
| 5:15 PM | BB | Bao Ying Chen          | Defining Protein Phosphatase 2A Complexes and Substrates That Regulate Ethylene Biosynthesis in Arabidopsis                 | Elm II        |
| 5:15 PM | BB | Jessica Hartling       | Iron Responsive Element (IRE)-mRNA Conformation Changes Induced by Manganese Ion (Mn <sup>2+</sup> )                        | Aspen I       |
| 5:15 PM | SS | Noe Lopez              | Living In Between Nations: Discussing Mixtec Transnationalism in the United States and Mexico                               | Cove I        |
| 5:15 PM | SS | Ashley Lowery          | Surveillance of Youth Tobacco Involvement Using Google Trends                                                               | Belltown      |
| 5:15 PM | BB | Aaron Neal             | mRNA Expression of Clock Genes Per1 and Bmal in the Hippocampus and the Amygdala                                            | Glen II       |
| 5:15 PM | PE | Hailey Neubauer        | The Influence of the War on Drugs on Felons' Voting Rights Legislation and Voter Turnout in the South                       | Waterside     |
| 5:15 PM | AB | Nakul Talathi          | NRF2 Expression in Diabetic Wound Healing Tissue                                                                            | Glen I        |
| 5:15 PM | AB | Joshua Taliaferro      | Utilizing Microfluidics to Study Platelet Activity and Thrombus Formation In Vitro                                          | Elm I         |
| 5:15 PM | AB | MacKenzie Taylor       | Novel Bisphosphonates and Osteoblast Differentiation and Mineralization                                                     | Aspen II      |
| 5:15 PM | SS | Tayler Ulmer           | African Immigration to America and the Tri-Concious Identity                                                                | Cove II       |
| 5:15 PM | PE | Princess Williams      | Are More Women Needed in the Congressional Black Caucus?                                                                    | Springdale I  |
| 5:30 PM | BB | Cristina Castro-Rivera | Endosomal Recycling of KATP Channels: The Role of EHD Proteins                                                              | Elm II        |
| 5:30 PM | HU | Taelor Clay            | Impact of Stereotype Threat on Women and Minorities                                                                         | Cove II       |
| 5:30 PM | SS | Nykhala Coston         | The Public Perception of Interracial Dating varies as a Function of Prejudice, Environmental Diversity, and Racial Identity | Cove I        |
| 5:30 PM | BB | Imaani Easthausen      | Synthesis of a Multimodal Imaging Agent for the Visualization of Pancreatic Beta Cells in vivo                              | Glen I        |

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|---------|----|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 5:30 PM | BB | Elshaddai Ephrem    | Role of IRF1 in Lupus: Defining Downstream Targets                                                                                              | Elm I         |
| 5:30 PM | BB | Kafi Friday         | Understanding the Mechanisms of Ceftriaxone-Dependent Regulation of Glutamate Transport in the Brain                                            | Alder         |
| 5:30 PM | BB | Rosa Leon           | Buprenorphine's Potential Antidepressant-like Effects on a Chronic Mild Stress Model                                                            | Aspen I       |
| 5:30 PM | AB | Carolina Lopez      | Regulation of the SYT-SSX2 Fusion Protein by t(X;18) in Synovial Sarcoma                                                                        | Aspen II      |
| 5:30 PM | BB | Andrew Morton       | Targeting HSR1 Affects the Heat Shock Response in Human Brain Cancer Cells                                                                      | Glen II       |
| 5:30 PM | SS | Carlos Puentes      | Does Cognitive Vulnerability to Sleep Loss Relate to Mood Response?                                                                             | Belltown      |
| 5:30 PM | HU | Marlen Rosas        | Protest in Perspective: Prospects of Continuity in Popular Mobilizations in Brazil                                                              | Springdale I  |
| 5:30 PM | BB | Shanira Suazo       | Development of Bioorthogonal Profiling of DNA Methylation (BPDM) Technology to Study the Mechanisms of DNA-Methyltransferases in the Epigenome. | Glen III      |
| 5:30 PM | SS | Brian Walsh         | The Association Between Juvenile Arrest, Health Insurance, and Health Care Utilization                                                          | Waterside     |
| 5:30 PM | HU | Gillian Wood        | The Dangers of Expectant Evaluation: The Problem of Judgment in Washington Square and The Portrait of a Lady                                    | Springdale II |
| 5:45 PM | BB | Jasmine Allen       | Investigating the Potential for Myogenin to Promote the Amplification of MyHC Expressing Adenoviral Vectors                                     | Aspen II      |
| 5:45 PM | SS | Princess Brown      | The Effects of Utilizing Rap Music in Underserved Classrooms to Improve Student Academic Performance                                            | Cove I        |
| 5:45 PM | SS | Dina Dajani         | Decreased Cerebro-Cerebellar Functional Connectivity in Autism                                                                                  | Belltown      |
| 5:45 PM | BB | Felipe Giuste       | Elucidating the Role of Neuromedin U Receptor in Erythropoiesis                                                                                 | Elm I         |
| 5:45 PM | SS | Mark Harris         | Juvenile Socialization and Courtroom Interactions: A Qualitative Analysis of Client Outcomes                                                    | Waterside     |
| 5:45 PM | BB | Nicholas Hernandez  | Effects of Post-Translation Modifications on Rate of BACE1 Internalization                                                                      | Glen I        |
| 5:45 PM | BB | Debria Joe          | BACE1 Localization and Trafficking in Neurons                                                                                                   | Glen II       |
| 5:45 PM | PE | Aurora Llamas       | Re-thinking Cultural Values: A Philosophical Approach to Socialized Inequality                                                                  | Springdale II |
| 5:45 PM | SS | Ariel Mosley        | Why Can't I be Sexy, Smart, and Beautiful Enough?: Examining Women's Internalization of Stigma                                                  | Cove II       |
| 5:45 PM | BB | Kasiemobi Nwaedozie | Methamphetamine, Inflammation and the Ubiquitin/Proteasome Pathway: Impact on Neurodegeneration                                                 | Alder         |
| 5:45 PM | PE | Alfonso Pacheco     | Political Opinion and Congress: A Study on the Failure of Comprehensive Immigration Reform                                                      | Springdale I  |
| 5:45 PM | AB | Ornella Rutagarama  | Detection and Analysis of Genomic Mutations Linked to APOBEC-Mediated Cytidine Deamination                                                      | Glen III      |
| 5:45 PM | BB | Michael Snyder      | Inducible, Reversible Depletion of Endogenous Proteins in Mammalian Cells                                                                       | Elm II        |



## ORAL PRESENTATIONS BY ROOM

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|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Alder, AB/BB</b><br><b>Sharrol Bachas, John Hopkins University, 11:15 - 12:30</b>          |                                                                                                                                                                                                                             |          |
| Michelle Okoreeh                                                                              | MTAP Inactivation in Cancer                                                                                                                                                                                                 | 11:15 AM |
| Timothy Borjas                                                                                | The Effect of Necrostatin-1 on Pancreatic Inflammation and Cancer                                                                                                                                                           | 11:30 AM |
| Andrei Smid                                                                                   | Skp2 E3-ligase Inhibitors as Probes for Cell Cycle Analysis in Cancer                                                                                                                                                       | 11:45 AM |
| Timothy Brown                                                                                 | Insect Cell Expression and Purification of PTEN -- A Key Signaling Phosphatase and Tumor Suppressor                                                                                                                         | 12:00 PM |
| Natalia Quijano-Cardé                                                                         | MR-Visible Lipids as a Biomarker of Cell Stress in Prostate Cancer Cells Treated With Anticancer Drugs                                                                                                                      | 12:15 PM |
| LeaAnn Love                                                                                   | African American Women and Triple Negative Breast Cancer: Examining the Stigmas of Self Touching that Prevent Its Early Detection                                                                                           | 12:30 PM |
| <b>Alder, AB/BB</b><br><b>Ciara Gimblet, University of Pennsylvania, 2:45 - 4:00</b>          |                                                                                                                                                                                                                             |          |
| Rebecca de Frates                                                                             | The Role of Cdc42 in Cerebellar Granule Cell Development                                                                                                                                                                    | 2:45 PM  |
| Melissa Leung                                                                                 | Efficacy of the novel JAK2 inhibitor G6, in Myeloproliferative Neoplasms                                                                                                                                                    | 3:00 PM  |
| Liorimar Ramos Medina                                                                         | Role of Hyperacetylation of Histone H4K12 in Modulating Executive Cognitive Functioning in Mice Exposed to Early Life Stress                                                                                                | 3:15 PM  |
| Shannon Litke                                                                                 | Neurotensin Attenuates the Methamphetamine-Induced Increase in Phosphorylation of DARPP-32, Dopamine and cyclic AMP-Regulated Phosphoprotein, Via the Nitric Oxide/cyclic GMP Signaling Pathway in Striatal Neurons of Mice | 3:30 PM  |
| Kathryn Sanchez                                                                               | Assessing Hippocampal Metabolism of MPS VII Mice by High Resolution Respirometry                                                                                                                                            | 3:45 PM  |
| Can Buldun                                                                                    | The Effects of Haloperidol, Clozapine and Risperidone on Glutamatergic Synapses                                                                                                                                             | 4:00 PM  |
| <b>Alder, AB/BB</b><br><b>Maria Sacta, Weill Cornell Medical College, 4:45 - 5:45</b>         |                                                                                                                                                                                                                             |          |
| Ahmed Malik                                                                                   | Role of Huntington's Disease Protein in Translation                                                                                                                                                                         | 4:45 PM  |
| Julian Roby                                                                                   | Immature Neuron Proliferation in Correlation to Cognition in Aging Vervet Monkeys                                                                                                                                           | 5:00 PM  |
| Kaitland Brannon                                                                              | Styryl-Based Compounds as Novel Potential Therapeutic Agents for Alzheimer's Disease                                                                                                                                        | 5:15 PM  |
| Kafi Friday                                                                                   | Understanding the Mechanisms of Ceftriaxone-Dependent Regulation of Glutamate Transport in the Brain                                                                                                                        | 5:30 PM  |
| Kasiemobi Nwaedozie                                                                           | Methamphetamine, Inflammation and the Ubiquitin/Proteasome Pathway: Impact on Neurodegeneration                                                                                                                             | 5:45 PM  |
| <b>Aspen I, AB/BB</b><br><b>Andrew Drysdale, Weill Cornell Medical College, 11:15 - 12:30</b> |                                                                                                                                                                                                                             |          |
| Angel Ortiz Rodriguez                                                                         | Interferon-gamma Mediated Degradation of HemeOxygenase-1 (HO-1) Via Induction of the Immunoproteasome in Human Primary Macrophages: Implications for HIV Associated Neurocognitive Disorder                                 | 11:15 AM |
| Joshua Cole                                                                                   | Elucidating the Modulatory Effects of Flaxseed-derived Lignans on Protein Expression of Macrophage Co-receptors: Implications for HIV Neuroprotection                                                                       | 11:30 AM |
| Cristhian Cadena                                                                              | Impact of Defective Viral Genomes Sequence Modifications in Their Immunostimulatory Activity                                                                                                                                | 11:45 AM |

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| <b>Erran Briggs II</b>                                                                 | The Study of the HIV-1 5'UTR Monomer-Dimer Equilibrium by Native Size Exclusion Chromatography                                       | <b>12:00 PM</b> |
| <b>Irene Lee</b>                                                                       | Use of Immune Complex Vaccine as a Novel Immunogen to Generate Broad HIV-1 Neutralizing Antibodies                                   | <b>12:15 PM</b> |
| <b>Marilyn Le</b>                                                                      | The Effects of Reverse Transcriptase Inhibitors on LINE-1 Retrotransposon Expression in Human Fibroblasts                            | <b>12:30 PM</b> |
| <b>Aspen I, AB/BB</b><br><b>Tomas Meijome, University of Pennsylvania, 2:45 - 4:00</b> |                                                                                                                                      |                 |
| <b>Gift Addae</b>                                                                      | Investigating Novel Proteins And MicroRNAs In Leukemogenesis                                                                         | <b>2:45 PM</b>  |
| <b>Gordon Pherribo</b>                                                                 | Optimizing shRNA to Target Specific RNA-Binding Protein Transcripts                                                                  | <b>3:00 PM</b>  |
| <b>Phillip Thomas</b>                                                                  | An Unbiased Screen Identifies New Pf1 Interactors With Biological Significance in Chromatin Modification and Transcriptional Control | <b>3:15 PM</b>  |
| <b>Adrian Rivera</b>                                                                   | siRNA Library Screen of ZMYND11 Interacting Partners                                                                                 | <b>3:30 PM</b>  |
| <b>Natalia Herrera</b>                                                                 | Generating an Antibody Against Retinoic Acid Receptor-Related Orphan Receptor Alpha (Rora) to Define its Transcriptional Targets     | <b>3:45 PM</b>  |
| <b>Oluwadara Coker</b>                                                                 | Investigating the Role of Non-Coding RNAs in Immunoglobulin Heavy Chain Locus Rearrangements                                         | <b>4:00 PM</b>  |
| <b>Aspen I, AB/BB</b><br><b>Iboro Umana, University of Chicago, 4:45 - 5:45</b>        |                                                                                                                                      |                 |
| <b>Shene'e Martin</b>                                                                  | The Study of TDP-1 and FUST-1 in C. elegans to Understand Their Role in Amyotrophic Lateral Sclerosis                                | <b>4:45 PM</b>  |
| <b>Sean Dougherty</b>                                                                  | Hyperoxia Protects Against Isoflurane-induced Apoptosis in the Rat Neonatal Brain                                                    | <b>5:00 PM</b>  |
| <b>Jessica Hartling</b>                                                                | Iron Responsive Element (IRE)-mRNA Conformation Changes Induced by Manganese Ion (Mn2+)                                              | <b>5:15 PM</b>  |
| <b>Rosa Leon</b>                                                                       | Buprenorphine's Potential Antidepressant-like Effects on a Chronic Mild Stress Model                                                 | <b>5:30 PM</b>  |
| <b>Aspen II, AB/BB</b><br><b>Monique Foster, New York University, 11:15 - 12:30</b>    |                                                                                                                                      |                 |
| <b>Kevin De Jesus</b>                                                                  | Elucidating a Mitochondrial Protective Transcriptional Network                                                                       | <b>11:15 AM</b> |
| <b>Kristian Black</b>                                                                  | Development of Fluorescent RNA Biosensors for the Quantification of Intracellular Metabolites                                        | <b>11:30 AM</b> |
| <b>Laura Agosto-Rosa</b>                                                               | Signal-Induced Alternative Splicing in Primary T Cells and Cell Lines                                                                | <b>11:45 AM</b> |
| <b>Lindsey Brier</b>                                                                   | Assessing the Effects of RNase H rRNA Depletion on Technical Variability in RNA Sequencing Experiments                               | <b>12:00 PM</b> |
| <b>Zakariyah Sharif-Sidi</b>                                                           | Bioinformatic Analysis of the Transcription Factors Involved in Cochlear Synapse Formation                                           | <b>12:15 PM</b> |
| <b>Carlos Santos-Perez</b>                                                             | DAX1 and WT1: Novel Regulators of the LH $\beta$ Transcription                                                                       | <b>12:30 PM</b> |
| <b>Aspen II, AB/BB</b><br><b>Teresa Ramirez, Brown University, 2:45 - 4:00</b>         |                                                                                                                                      |                 |
| <b>Adewola Osunsade</b>                                                                | Assessing the Functionality of Protein Kinase C Isozymes Using Wildtype and Constitutively Active Forms of PKC-alpha and PKC-epsilon | <b>2:45 PM</b>  |
| <b>Davys Lopez</b>                                                                     | Localization of the Polarity Regulator PAC-1 by Components of the Cadherin-Catenin Complex                                           | <b>3:00 PM</b>  |
| <b>Kervin Charles</b>                                                                  | A Role for R-Ras in Formation of HFS-LTP and Contextual Discrimination Learning via Activation by RasGRF1                            | <b>3:15 PM</b>  |

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| <b>James Damiano</b>                                                               | Mechanism of JAK2 Autoinhibition Identified by Molecular Dynamics Simulation                                                                                                    | <b>3:30 PM</b> |
| <b>Karen Rico</b>                                                                  | Relationship Between Acyl-CoA Thioesterase 7 and Saturated Fatty Acid-Induced JNK Activation                                                                                    | <b>3:45 PM</b> |
| <b>Nicholas Pizzi</b>                                                              | Analysis of Hey1 Expression in Lamprey Pharyngeal Arches                                                                                                                        | <b>4:00 PM</b> |
| <b>Aspen II, AB/BB</b><br><b>Kendra Vann, Vanderbilt University, 4:45 - 5:45</b>   |                                                                                                                                                                                 |                |
| <b>Catrina Johnson</b>                                                             | Contribution of the E74-Like Factor 3 to the Toll-Like Receptor-Driven Catabolic Responses in Articular Chondrocytes: Potential Role in Cartilage Destruction in Osteoarthritis | <b>4:45 PM</b> |
| <b>Joseph Villanueva</b>                                                           | Joint Repair: Engineering Tissue Scaffolds Using Polyethylene Glycol Hydrogels                                                                                                  | <b>5:00 PM</b> |
| <b>MacKenzie Taylor</b>                                                            | Novel Bisphosphonates and Osteoblast Differentiation and Mineralization                                                                                                         | <b>5:15 PM</b> |
| <b>Carolina Lopez</b>                                                              | Regulation of the SYT-SSX2 Fusion Protein by t(X;18) in Synovial Sarcoma                                                                                                        | <b>5:30 PM</b> |
| <b>Jasmine Allen</b>                                                               | Investigating the Potential for Myogenin to Promote the Amplification of MyHC Expressing Adenoviral Vectors                                                                     | <b>5:45 PM</b> |
| <b>Belltown, HU/SS/PE</b><br><b>Cory Hunter, Princeton University, 2:45 - 4:00</b> |                                                                                                                                                                                 |                |
| <b>Jemima Georges</b>                                                              | An Examination of the Impacts Prehistoric Cahokians Had on Their Natural Environment                                                                                            | <b>2:45 PM</b> |
| <b>Daniel Nissani</b>                                                              | Characterizing Forms of Mathematical Discourse                                                                                                                                  | <b>3:00 PM</b> |
| <b>Michael Rabadi</b>                                                              | Exploring the Temporal Limits of Visual Processing of Familiar and Unfamiliar Objects at the Subordinate-Category Level                                                         | <b>3:15 PM</b> |
| <b>Morgan Clark</b>                                                                | Not Just a Game: Racialization, Othering and Hypersex in Video Games                                                                                                            | <b>3:30 PM</b> |
| <b>Guadalupe Gonzalez</b>                                                          | The Role of Gender and Stage of Acquisition in the Language Processing of L2 Learners                                                                                           | <b>3:45 PM</b> |
| <b>Alexandra Jones</b>                                                             | Examining the Mind of a Student: How Unconscious Biases and Heuristics Influence Academic Decision-Making                                                                       | <b>4:00 PM</b> |
| <b>Belltown, HU/SS/PE</b><br><b>Craig Holloway, Yale University, 4:45 - 5:45</b>   |                                                                                                                                                                                 |                |
| <b>Fartun Dirie</b>                                                                | Antenatal Care and Healthcare Access in Mozambique: An Issue of Spatial Inequality?                                                                                             | <b>4:45 PM</b> |
| <b>Justin Henderson</b>                                                            | Could Your DNA Soon Be in a Federal or State Database?                                                                                                                          | <b>5:00 PM</b> |
| <b>Ashley Lowery</b>                                                               | Surveillance of Youth Tobacco Involvement Using Google Trends                                                                                                                   | <b>5:15 PM</b> |
| <b>Carlos Puentes</b>                                                              | Does Cognitive Vulnerability to Sleep Loss Relate to Mood Response?                                                                                                             | <b>5:30 PM</b> |
| <b>Dina Dajani</b>                                                                 | Decreased Cerebro-Cerebellar Functional Connectivity in Autism                                                                                                                  | <b>5:45 PM</b> |
| <b>Cove I, HU/SS/PE</b><br><b>Larry Perry, University of Virginia, 2:45 - 4:00</b> |                                                                                                                                                                                 |                |
| <b>Anne Caroline Clark</b>                                                         | Harm Reduction in the United States: The Early Development of New York City's Syringe and Needle Exchange Policy, 1985-1989                                                     | <b>2:45 PM</b> |
| <b>David Hutchinson</b>                                                            | All I Do Know Is That I Like Being Liked: Conceptualizing Same-Sex Desire in Richard Bruce Nugent's "Gentleman Jigger"                                                          | <b>3:00 PM</b> |
| <b>Dayana De La Torre</b>                                                          | Drug Busts in New York City: Law Enforcement and Crime in the 1980s                                                                                                             | <b>3:15 PM</b> |
| <b>Andrew Tuck</b>                                                                 | Identifying Motivations for Medication Adherence in HIV-Positive Methamphetamine-Using Men Who Have Sex With Men                                                                | <b>3:30 PM</b> |
| <b>Danielle McColgan</b>                                                           | Historicizing Health Promotion: Anti-Drug Prevention in New York City From 1978-1989                                                                                            | <b>3:45 PM</b> |
| <b>William Beischel</b>                                                            | Executive Functioning in Sexually Compulsive Gay and Bisexual Men                                                                                                               | <b>4:00 PM</b> |

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| <b>Cove I, HU/SS/PE</b><br><b>Daisy Camacho, UCLA, 4:45 - 5:45</b>                         |                                                                                                                                                                                  |                 |
| <b>Dana Muñiz</b>                                                                          | The Culture of Work: The Economy of the Sugar Mills and Company Towns at the Caribbean Basin in the 20th Century                                                                 | <b>4:45 PM</b>  |
| <b>Elsa Hardy</b>                                                                          | Cultures of Power: Harlem Children's Zone and Poverty Intervention Efforts                                                                                                       | <b>5:00 PM</b>  |
| <b>Noe Lopez</b>                                                                           | Living In Between Nations: Discussing Mixtec Transnationalism in the United States and Mexico                                                                                    | <b>5:15 PM</b>  |
| <b>Nykhala Coston</b>                                                                      | The Public Perception of Interracial Dating varies as a Function of Prejudice, Environmental Diversity, and Racial Identity                                                      | <b>5:30 PM</b>  |
| <b>Princess Brown</b>                                                                      | The Effects of Utilizing Rap Music in Underserved Classrooms to Improve Student Academic Performance                                                                             | <b>5:45 PM</b>  |
| <b>Cove II, HU/SS/PE</b><br><b>Sarah Ohle, University of Colorado Boulder, 2:45 - 4:00</b> |                                                                                                                                                                                  |                 |
| <b>Carrie Moore</b>                                                                        | Fitting into the Story: Western Romance and Blackness in Toni Morrison's "Tar Baby"                                                                                              | <b>2:45 PM</b>  |
| <b>Evan Coles</b>                                                                          | The Literature of Black Marxism: A Critical Look at Religious Domination                                                                                                         | <b>3:00 PM</b>  |
| <b>Laura Ortiz</b>                                                                         | Witchcraft and Gender in Shakespeare's Tragedies and Histories                                                                                                                   | <b>3:15 PM</b>  |
| <b>Nikeeyia Howell</b>                                                                     | Demystifying the Strangeness: An Intertextual Analysis of Mark Twain's No.44, The Mysterious Stranger                                                                            | <b>3:30 PM</b>  |
| <b>Paul Cato</b>                                                                           | Polyphony, Responsibility, & Active Love: A Reconsideration of Dostoevsky's and Lévinas' Philosophies of Love                                                                    | <b>3:45 PM</b>  |
| <b>Tyler Sharp</b>                                                                         | Love Prejudice: An Underestimated Social Problem                                                                                                                                 | <b>4:00 PM</b>  |
| <b>Cove II, HU/SS/PE</b><br><b>Simon Howard, Tufts University, 4:45 - 5:45</b>             |                                                                                                                                                                                  |                 |
| <b>Stanley Collins</b>                                                                     | Social Capital Inside the Courtroom: An Analysis of the Networks That Assist Youth In Navigating the Juvenile Justice System                                                     | <b>4:45 PM</b>  |
| <b>Steven Jefferson</b>                                                                    | China in the World: The Representation of Ethnic Minorities in the Media                                                                                                         | <b>5:00 PM</b>  |
| <b>Taylor Ulmer</b>                                                                        | African Immigration to America and the Tri-Conscious Identity                                                                                                                    | <b>5:15 PM</b>  |
| <b>Taelor Clay</b>                                                                         | Impact of Stereotype Threat on Women and Minorities                                                                                                                              | <b>5:30 PM</b>  |
| <b>Ariel Mosley</b>                                                                        | Why Can't I be Sexy, Smart, and Beautiful Enough?: Examining Women's Internalization of Stigma                                                                                   | <b>5:45 PM</b>  |
| <b>Elm I, AB/BB</b><br><b>Sofia Gayle, Yale University, 11:15 - 12:30</b>                  |                                                                                                                                                                                  |                 |
| <b>Uchenna Okoro</b>                                                                       | Characterization and Screening of Monoclonal Antibodies Targeting Abnormal Protein Conformations                                                                                 | <b>11:15 AM</b> |
| <b>Luis Millán-Barea</b>                                                                   | Francisella Infectivity Potentiator Protein B FipB, and FipA are Important Protectors Against Incorrect Disulfide Bond Formation Caused by Copper Stress in Francisella novicida | <b>11:30 AM</b> |
| <b>Joshua Rosario Sepulveda</b>                                                            | Structure Analysis of Human Red Cell Spectrin Using Homobifunctional Crosslinkers and High Resolution Mass Spectrometry                                                          | <b>11:45 AM</b> |
| <b>Pauline Xu</b>                                                                          | Quantitative Phosphoproteomic Analysis Using High-Resolution Tandem Mass Spectrometry                                                                                            | <b>12:00 PM</b> |
| <b>Stephanie Castillo</b>                                                                  | Dissecting Interactions Between BamA and BamD Via Binding and Fluorescence Studies                                                                                               | <b>12:15 PM</b> |
| <b>Arianna Espinoza</b>                                                                    | Using Fluorescence Anisotropy to Understand How MARCKS-ED Peptide Binds to Microvesicles                                                                                         | <b>12:30 PM</b> |

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| <b>Elm I, AB/BB</b><br><b>Rhea Richardson, Stanford University, 2:45 - 4:00</b>        |                                                                                                                                                                                               |                 |
| <b>Bianca Flores</b>                                                                   | The Effects of Mycobacterium vaccae on Serotonergic Systems, Immune Activation, and Behavior in the Forced Swim Test                                                                          | <b>2:45 PM</b>  |
| <b>Stephanie Rivera Morales</b>                                                        | Plasmodium falciparum Strain Specific Malaria Infection Symptoms and Immunity                                                                                                                 | <b>3:00 PM</b>  |
| <b>Tasnia Ali</b>                                                                      | Role of ITGAD in Early Activation of Memory CD4+ T Cells                                                                                                                                      | <b>3:15 PM</b>  |
| <b>Onyemaechi Nwanaji-Enwerem</b>                                                      | The Biological Significance of Soluble Co-Inhibitory Receptors, B-/T-Lymphocyte Attenuator (BTLA), and its Ligand, Hepatitis Virus Entry Protein (HVEM), in the Development of Sepsis in Mice | <b>3:30 PM</b>  |
| <b>Jaime Aponte</b>                                                                    | Impact of RAGE Deletion and Mitochondrial Biogenesis                                                                                                                                          | <b>3:45 PM</b>  |
| <b>Michael Okoreeh</b>                                                                 | Novel Regulators of Early B Cell Survival and Proliferation                                                                                                                                   | <b>4:00 PM</b>  |
| <b>Elm I, AB/BB</b><br><b>Carlos Vera, University of Colorado Boulder, 4:45 - 5:45</b> |                                                                                                                                                                                               |                 |
| <b>Damla Gonullu</b>                                                                   | The Association Between Peripheral Blood Leukocyte Telomere Length and Female Reproductive Aging                                                                                              | <b>4:45 PM</b>  |
| <b>Fei Peng</b>                                                                        | The Role of Aldosterone in Endothelial Cell Migration                                                                                                                                         | <b>5:00 PM</b>  |
| <b>Joshua Taliaferro</b>                                                               | Utilizing Microfluidics to Study Platelet Activity and Thrombus Formation In Vitro                                                                                                            | <b>5:15 PM</b>  |
| <b>Elshaddai Ephrem</b>                                                                | Role of IRF1 in Lupus: Defining Downstream Targets                                                                                                                                            | <b>5:30 PM</b>  |
| <b>Felipe Giuste</b>                                                                   | Elucidating the Role of Neuromedin U Receptor in Erythropoiesis                                                                                                                               | <b>5:45 PM</b>  |
| <b>Elm II, AB/BB</b><br><b>Princess Gilbert, UCLA, 11:15 - 12:30</b>                   |                                                                                                                                                                                               |                 |
| <b>Camila Uechi</b>                                                                    | Investigating the Mechanisms of Atrial Fibrillation Through the Use of Computational Human Atrial Models                                                                                      | <b>11:15 AM</b> |
| <b>Babajide Oluwadare</b>                                                              | Determining the Contribution of Fibroblast Connexin Expression to the Conduction Properties of Injured Cardiac Tissue                                                                         | <b>11:30 AM</b> |
| <b>Javier Sierra-Pagán</b>                                                             | Characterization of the Role of Hdac3 and Hopx in Cardiac Cell Differentiation In Vitro                                                                                                       | <b>11:45 AM</b> |
| <b>Rajshekhar Basak</b>                                                                | The Mechanism of Acrolein-Induced Lung Endothelial Permeability                                                                                                                               | <b>12:00 PM</b> |
| <b>Kyle Tucker</b>                                                                     | Cell Cycle Effects of Delta Np63 alpha and SAMD9L on Lung Squamous Cell Carcinoma                                                                                                             | <b>12:15 PM</b> |
| <b>Saiah Yates</b>                                                                     | Phosphorylation of Threonine 45 of Histone H3 and the Effects of Alanine and Aspartic Acid Mutations                                                                                          | <b>12:30 PM</b> |
| <b>Elm II, AB/BB</b><br><b>Santas Rosario, University of Miami, 2:45 - 4:00</b>        |                                                                                                                                                                                               |                 |
| <b>Ryan Spector</b>                                                                    | The Role of CDC25A in Neuronal Apoptosis                                                                                                                                                      | <b>2:45 PM</b>  |
| <b>Mayra Rios</b>                                                                      | Expression Level of Transient Receptor Potential Vanilloid-4 (TRPV4) in Mice During Lung Development                                                                                          | <b>3:00 PM</b>  |
| <b>Raquel Tripp</b>                                                                    | Separation of Maternal and Fetal Components of Products of Conception (POC) Using Laser Capture Microdissection and Evaluation of Direct PCR for Paternity Testing in Sexual Assault Cases    | <b>3:15 PM</b>  |
| <b>Phillip Stephens</b>                                                                | Understanding the Genetic Pathways Controlling Foraging Behavior in C. Elegans Using Double Mutant Analysis                                                                                   | <b>3:30 PM</b>  |
| <b>Claudia Lovell</b>                                                                  | The Role of BET Proteins in Embryonic Stem Cell Fate Decisions                                                                                                                                | <b>3:45 PM</b>  |
| <b>Sarah Schrader</b>                                                                  | Modeling IDH1 Mutations in Neural Cell Types Derived from Human Embryonic Stem Cells                                                                                                          | <b>4:00 PM</b>  |

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|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Elm II, AB/BB</b><br><b>Zakiya Whatley, Duke University, 4:45 - 5:45</b>                             |                                                                                                                     |                 |
| <b>Jere' Hutson</b>                                                                                     | Purification and Characterization of TAT-Cre for Ex Vivo Gene Deletion                                              | <b>4:45 PM</b>  |
| <b>Jose Grullon</b>                                                                                     | Functional Analysis and Localization of NIS, MCT1, and MCT4 Proteins                                                | <b>5:00 PM</b>  |
| <b>Bao Ying Chen</b>                                                                                    | Defining Protein Phosphatase 2A Complexes and Substrates That Regulate Ethylene Biosynthesis in Arabidopsis         | <b>5:15 PM</b>  |
| <b>Cristina Castro-Rivera</b>                                                                           | Endosomal Recycling of KATP Channels: The Role of EHD Proteins                                                      | <b>5:30 PM</b>  |
| <b>Michael Snyder</b>                                                                                   | Inducible, Reversible Depletion of Endogenous Proteins in Mammalian Cells                                           | <b>5:45 PM</b>  |
| <b>Glen I, AB/BB</b><br><b>Michael Burel, New York University, 11:15 - 12:30</b>                        |                                                                                                                     |                 |
| <b>Folasade Sofela</b>                                                                                  | Effects of Hypoxia on gamma-Secretase Activity in Neuronal Cells                                                    | <b>11:15 AM</b> |
| <b>Kelsey Wanhainen</b>                                                                                 | Structural and Biophysical Studies of TREM2 in Neurological Diseases                                                | <b>11:30 AM</b> |
| <b>Alicia Sanchez</b>                                                                                   | Arginine Vasopressin Neurons in Suprachiasmatic Nucleus of Transgenic Mice Deficient in FGF8 and FGFR1              | <b>11:45 AM</b> |
| <b>Amy Zhang</b>                                                                                        | A Quirky Inhibitory Circuit in the Cerebral Cortex                                                                  | <b>12:00 PM</b> |
| <b>Robert Myers</b>                                                                                     | Neoplastic Transformation of Neural Precursor Cells to Model Glioblastoma Multiforme (GBM)                          | <b>12:15 PM</b> |
| <b>Madeline Pelz</b>                                                                                    | Imaging and Characterization of Hippocampal Circuits Implicated in Temporal Lobe Epilepsy                           | <b>12:30 PM</b> |
| <b>Glen I, AB/BB</b><br><b>Kevin Leclerc, Columbia University, 2:45 - 4:00</b>                          |                                                                                                                     |                 |
| <b>Claudio Macias</b>                                                                                   | Self-assembled Supramolecular Nanobelts for Antibiotic Delivery                                                     | <b>2:45 PM</b>  |
| <b>Raymond Barry</b>                                                                                    | The Effects of the Microbiome on Health and Disease                                                                 | <b>3:00 PM</b>  |
| <b>Sydney Lomnes</b>                                                                                    | Host and Parasite Communities: How Interactions Between Chaetogaster limnaei and Echinostoma sp. Affect Snail Hosts | <b>3:15 PM</b>  |
| <b>Daniel Guzman</b>                                                                                    | Analysis of the IgE Response in Nippostrongylus Brasiliensis-Infected Mice                                          | <b>3:30 PM</b>  |
| <b>Avani Comer</b>                                                                                      | Functional Analysis of Crohn's Disease and Mycobacteria in Ashkenazi Jews                                           | <b>3:45 PM</b>  |
| <b>Vaughn Spurrier</b>                                                                                  | NMR Studies of the Q5A, G6S Unmyristylated Feline Immunodeficiency Virus Matrix Protein                             | <b>4:00 PM</b>  |
| <b>Glen I, AB/BB</b><br><b>Ashley Schloss, Yale University, 4:45 - 5:45</b>                             |                                                                                                                     |                 |
| <b>Amber Shaffer</b>                                                                                    | Does Depression Lead to Incident Diabetes in African Americans?: The Jackson Heart Study                            | <b>4:45 PM</b>  |
| <b>Matthew Gonzalez</b>                                                                                 | The Role of UCP1 and IAPP in the Progression of Diabetes                                                            | <b>5:00 PM</b>  |
| <b>Nakul Talathi</b>                                                                                    | NRF2 Expression in Diabetic Wound Healing Tissue                                                                    | <b>5:15 PM</b>  |
| <b>Imaani Easthausen</b>                                                                                | Synthesis of a Multimodal Imaging Agent for the Visualization of Pancreatic Beta Cells in vivo                      | <b>5:30 PM</b>  |
| <b>Nicholas Hernandez</b>                                                                               | Effects of Post-Translation Modifications on Rate of BACE1 Internalization                                          | <b>5:45 PM</b>  |
| <b>Glen II, AB/BB</b><br><b>Mercedes Burns, University of Maryland, Baltimore County, 11:15 - 12:30</b> |                                                                                                                     |                 |
| <b>Aja Crim-Logan</b>                                                                                   | Computer Based Treatment for Cognitive Behavioral Therapy                                                           | <b>11:15 AM</b> |
| <b>Isabel Morgan</b>                                                                                    | Socioeconomic Status and Child Cognitive Outcomes at Age 7; Maternal Cortisol as a Possible Mediator                | <b>11:30 AM</b> |
| <b>Zoe Spafford</b>                                                                                     | The Spacial Organization of Skilled Behavior Within an Identified Neural Circuit                                    | <b>11:45 AM</b> |



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|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Bryan Morales</b>                                                                            | Assessing the Effects of Sleep Homeostasis in Activity-Dependent Plasticity: The Spatiotemporal Expression of Plasticity-Related Proteins Within a Sleep Deprivation Study Using the Model Organism <i>Mus musculus</i> | <b>12:00 PM</b> |
| <b>Diana Nwokoye</b>                                                                            | Spatial and Temporal Expression Patterns of MBD2: Protein Implicated in Autistic-like Phenotypes                                                                                                                        | <b>12:15 PM</b> |
| <b>Sandy Chan</b>                                                                               | Effect of Aspirin on Microhemorrhage Diameters in Rodent Brains                                                                                                                                                         | <b>12:30 PM</b> |
| <b>Glen II, AB/BB</b><br><b>Diana Lizarazo, Brown University, 2:45 - 4:00</b>                   |                                                                                                                                                                                                                         |                 |
| <b>LaTonya Simon</b>                                                                            | Synthesis and Characterization of Photodegradable Oxime Derived Microparticles                                                                                                                                          | <b>2:45 PM</b>  |
| <b>Andrea Shergalis</b>                                                                         | Stabilities of Rhenium Complexes Formed by N2S2 and N3S Ligands                                                                                                                                                         | <b>3:00 PM</b>  |
| <b>Bosoye Olateru-Olagbegi</b>                                                                  | The Use of Sodium Nitrite in the Reversal of Vascular Dysfunction                                                                                                                                                       | <b>3:15 PM</b>  |
| <b>Aida Alazar</b>                                                                              | A Small Molecule Screen To Identify Modulators Of C-cell Development In Zebrafish Embryos                                                                                                                               | <b>3:30 PM</b>  |
| <b>Osaze Udeagbala</b>                                                                          | Searching for Drug Leads: A Live Cytotoxicity Assay Against <i>Giardia lamblia</i>                                                                                                                                      | <b>3:45 PM</b>  |
| <b>Marco Carpenter</b>                                                                          | Identifying Schizophrenia Associated Gene Targets of the Transcription Factor c-myc                                                                                                                                     | <b>4:00 PM</b>  |
| <b>Glen II, AB/BB</b><br><b>Jenniffer Stetler, University of Missouri-Columbia, 4:45 - 5:45</b> |                                                                                                                                                                                                                         |                 |
| <b>Javier Castillo</b>                                                                          | The Effect of Innate Immune Modulation via Toll-Like Receptor 9 on the Amelioration of Cerebral Amyloid Angiopathy in Alzheimer's Disease                                                                               | <b>4:45 PM</b>  |
| <b>Ugomma Eze</b>                                                                               | Requirement of FUS in mES-Derived Motor Neuron Survival; Implications for ALS                                                                                                                                           | <b>5:00 PM</b>  |
| <b>Aaron Neal</b>                                                                               | mRNA Expression of Clock Genes <i>Per1</i> and <i>Bmal</i> in the Hippocampus and the Amygdala                                                                                                                          | <b>5:15 PM</b>  |
| <b>Andrew Morton</b>                                                                            | Targeting HSR1 Affects the Heat Shock Response in Human Brain Cancer Cells                                                                                                                                              | <b>5:30 PM</b>  |
| <b>Debria Joe</b>                                                                               | BACE1 Localization and Trafficking in Neurons                                                                                                                                                                           | <b>5:45 PM</b>  |
| <b>Glen III, AB/BB</b><br><b>Angel Byrd, Brown University, 11:15 - 12:30</b>                    |                                                                                                                                                                                                                         |                 |
| <b>Hayford Agyemang</b>                                                                         | Myelination and Pediatric SIV (Simian Immunodeficiency Virus)                                                                                                                                                           | <b>11:15 AM</b> |
| <b>Jeffrey Luery</b>                                                                            | Diurnal Changes of Neuron Excitability Within the Suprachiasmatic Nucleus Using Voltage-Sensitive Dye Imaging                                                                                                           | <b>11:30 AM</b> |
| <b>Cecile Gaston</b>                                                                            | Novel Role of the Neuronal Guidance Cue, Netrin-1 in Abdominal Aortic Aneurysm Formation                                                                                                                                | <b>11:45 AM</b> |
| <b>Rachel Lee</b>                                                                               | Ultrasonic Actuation Reduces Brain Inflammatory Response to Neural Microelectrode Insertion                                                                                                                             | <b>12:00 PM</b> |
| <b>Emilio Soto</b>                                                                              | The Role of Sensory Cortex in Cue-induced Relapse to Drug Addiction                                                                                                                                                     | <b>12:15 PM</b> |
| <b>Ephrath Tesfaye</b>                                                                          | Changes in the Synaptic Plasticity of the Hypothalamic Paraventricular Nucleus Following Hypertension in the AOF Menopausal Mouse Model                                                                                 | <b>12:30 PM</b> |
| <b>Glen III, AB/BB</b><br><b>Joan Marcano, University of Colorado Boulder, 2:45 - 4:00</b>      |                                                                                                                                                                                                                         |                 |
| <b>Daniel Powell</b>                                                                            | Elucidating Cellular and Molecular Mechanisms of Estrogen Dependent TAF4B Upregulation                                                                                                                                  | <b>2:45 PM</b>  |
| <b>Selamawi Tilahun</b>                                                                         | Analysis of Sperm Telomere Length in Men With Clinical Infertility and Its Extensive Variation Within Specimens                                                                                                         | <b>3:00 PM</b>  |
| <b>Carolina Larrain</b>                                                                         | Characterization of Ontogenetic Columns in Reeler Mice                                                                                                                                                                  | <b>3:15 PM</b>  |
| <b>Rochelle Sadeghi</b>                                                                         | Spontaneous Changes in Immortalized Mammalian Cell Lines Result in Cell Competition                                                                                                                                     | <b>3:30 PM</b>  |

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|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Sherry Gee                                                                                                  | Role of ANO-1 in Endothelial Cell Proliferation and Migration                                                                                     | 3:45 PM |
| Joshua Frenster                                                                                             | Fluorescent Reporter System for Directing Hematopoietic Lineage Specification                                                                     | 4:00 PM |
| <b>Glen III, AB/BB</b><br><b>Ciara Torres Vargas, Columba University, 4:45 - 5:45</b>                       |                                                                                                                                                   |         |
| Kathryn Wu                                                                                                  | Hypermethylation of CpG Sites Upstream of Hexanucleotide Repeat Expansions in the C9ORF72 Gene of ALS and FTD Patients                            | 4:45 PM |
| Kristen Bascombe                                                                                            | Determining the Source of and Maximizing the Yield from DNA on Touched Objects by Microscopic Visualization and Direct PCR                        | 5:00 PM |
| Nicole Bowman                                                                                               | High Fat Diet Drives Epigenetic Changes: A Role for DNA Methyltransferase                                                                         | 5:15 PM |
| Shanira Suazo                                                                                               | Development of Bioorthogonal Profiling of DNA Methylation (BPDm) Technology to Study the Mechanisms of DNA-Methyltransferases in the Epigenome.   | 5:30 PM |
| Ornella Rutagarama                                                                                          | Detection and Analysis of Genomic Mutations Linked to APOBEC-Mediated Cytidine Deamination                                                        | 5:45 PM |
| <b>Glenbrook, PS/EN/ES</b><br><b>Jose Solis, University of Colorado Boulder, 2:45 - 4:00</b>                |                                                                                                                                                   |         |
| Aisha Dorta                                                                                                 | A Quantitative Analysis of the Biological Terraformation of a Planet                                                                              | 2:45 PM |
| Corie Jade Carter                                                                                           | Microbial Ecology of Biological Nitrogen Fixation in MT Soils                                                                                     | 3:00 PM |
| Timothy Salazar                                                                                             | Analyzing Biocontrol Capability; <i>Mecinus janthiniformis</i> and <i>Linaria dalmatica</i> : A Blessed Communion? (ABCs of Weevils and Toadflax) | 3:15 PM |
| Franklin Roman-Rodriguez                                                                                    | Bacterial Cultures From Tadpoles of the Bullfrog <i>Lithobates catesbeianus</i> (Previously <i>Rana catesbeiana</i> )                             | 3:30 PM |
| Joseph Geraghty                                                                                             | Synthesis of Enantiopure Nantenine Analogs as Serotonin 5-HT <sub>2A</sub> Receptor Antagonists                                                   | 3:45 PM |
| Michael Hawkins                                                                                             | Using Ultraviolet Light to Inactivate the Bacteriophage MS2                                                                                       | 4:00 PM |
| <b>High Ridge, PS/EN/ES</b><br><b>Brittney Davis, University of Maryland, Baltimore County, 2:45 - 4:00</b> |                                                                                                                                                   |         |
| Anna Stephenson                                                                                             | Manipulating Atoms to Create Artificial Materials                                                                                                 | 2:45 PM |
| Alexis Morris                                                                                               | Description of the Behaviors and Electron Correlation in LaNiO <sub>3</sub> and NdNiO <sub>3</sub> Through First Principles Theory                | 3:00 PM |
| Peter Lowrie                                                                                                | X-Ray Vision: Using X-Ray Interference Patterns to Track the Growth of Silicon Oxide Layers                                                       | 3:15 PM |
| Melissa Kreider                                                                                             | Synthesis of a Dense, High Aspect Ratio Zinc Oxide Nanowire Forest Using the PS-PMMA Block Copolymer                                              | 3:30 PM |
| Jayilssa Torres                                                                                             | Co and Zr oxides/ Si (001) Epitaxial Growth and Surface Analysis: Ultra High Vacuum System Validation                                             | 3:45 PM |
| Lena Ibrahim                                                                                                | Effects of Rigidity of Bent-Core Liquid Crystal Spacer Groups                                                                                     | 4:00 PM |
| <b>Long Ridge, PS/EN/ES</b><br><b>Dennis Gardner Jr., University of Colorado Boulder, 2:45 - 4:00</b>       |                                                                                                                                                   |         |
| George Torres                                                                                               | Deconstructing Graphs and Their Eigenspectra                                                                                                      | 2:45 PM |
| Dorcas Huang                                                                                                | Modeling Cellular Response to Nanopatterned Bulk Metallic Glasses                                                                                 | 3:00 PM |
| Hassan Omar                                                                                                 | Development of Bulk Metallic Glasses and Experimental Calibration of Blow Molding Procedures                                                      | 3:15 PM |
| Jana Dodson                                                                                                 | SEM and EDS Characterization of Bulk Metallic Glass                                                                                               | 3:30 PM |
| Rebecca Betances                                                                                            | Cellular Responses to Nanopatterned Bulk Metallic Glasses                                                                                         | 3:45 PM |



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| Alexander Bruch                                                                                | High Finesse Cavity for Characterizing the Optical Loss in Thin Films of Barium Titanate                                                      | 4:00 PM  |
| <b>Springdale I, HU/SS/PE</b><br><b>Amaury Sosa, New York University, 2:45 - 4:00</b>          |                                                                                                                                               |          |
| Darien Pollock                                                                                 | 21st Century American Street Philosophy and the Philosophy of Mass Incarceration                                                              | 2:45 PM  |
| Henry Capps III                                                                                | The Prison Tragedy: The Failure of Narcotics Criminalization in New York City's War on Drugs                                                  | 3:00 PM  |
| Gabriel Augusto Sanchez                                                                        | Poverty and Race in the United States                                                                                                         | 3:15 PM  |
| Emily Rogers                                                                                   | "Invisible Wounds" or Invisible Politics? Neoliberalism, Post-Traumatic Stress Disorder, and Imagined US Vulnerability in the "War on Terror" | 3:30 PM  |
| Donald Brown                                                                                   | Universalism, Particularism, and the Limits Therein: Post-World War II Politics on Race                                                       | 3:45 PM  |
| Emily Artalejo                                                                                 | Female Paramilitary Experience in Northern Ireland                                                                                            | 4:00 PM  |
| <b>Springdale I, HU/SS/PE</b><br><b>Felicia Morales, University of Notre Dame, 4:45 - 5:45</b> |                                                                                                                                               |          |
| Viviana Rivera-Burgos                                                                          | Did Hurricane Sandy Dent the Vote? Evidence From a Large-Scale Study in New York City                                                         | 4:45 PM  |
| N'Kosi Oates                                                                                   | Geographic Neighborhood Poverty and Political Participation                                                                                   | 5:00 PM  |
| Princess Williams                                                                              | Are More Women Needed in the Congressional Black Caucus?                                                                                      | 5:15 PM  |
| Marlen Rosas                                                                                   | Protest in Perspective: Prospects of Continuity in Popular Mobilizations in Brazil                                                            | 5:30 PM  |
| Alfonso Pacheco                                                                                | Political Opinion and Congress: A Study on the Failure of Comprehensive Immigration Reform                                                    | 5:45 PM  |
| <b>Springdale II, HU/SS/PE</b><br><b>Cory Hunter, Princeton University, 12:30</b>              |                                                                                                                                               |          |
| Andrew Anguiano                                                                                | The Economy of Online Courtship: Memoirs of Desperation and Fabrication in Internet-Mediated Dating                                           | 12:30 PM |
| <b>Springdale II, HU/SS/PE</b><br><b>Colleen Tripp, Brown University, 2:45 - 4:00</b>          |                                                                                                                                               |          |
| Melisa Rojas                                                                                   | Examining Reciprocal Communication in Youth with Autism Spectrum Disorders Following a Peer-Mediated Theatre Intervention                     | 2:45 PM  |
| Princess Cobbs                                                                                 | Health Care Utilization by Young Adults That Have Been Affected by the Criminal Justice System Compared to Those That Have Not                | 3:00 PM  |
| Jillian Haynes                                                                                 | Candidate Physiological Markers of Perceived Stress                                                                                           | 3:15 PM  |
| Rafael Perez                                                                                   | The Effects of Social Stress on HDAC6-Related Proteins                                                                                        | 3:30 PM  |
| Shayna McCormack                                                                               | Bipolar Disorder and Medicinal Nonadherence                                                                                                   | 3:45 PM  |
| Coralie Pardo                                                                                  | Sex Differences in CREB Expression After Administration of Cocaine, Methamphetamine, and Cannabinoids                                         | 4:00 PM  |
| <b>Springdale II, HU/SS/PE</b><br><b>Devon Wade, Columbia University, 4:45 - 5:45</b>          |                                                                                                                                               |          |
| Veronica Rivera-Negron                                                                         | (De)Composing the Self: Embodied Imagery, Theatrical Space and Gender in the Performance of Teresa Hernández                                  | 4:45 PM  |
| Katryna Mahoney                                                                                | Black Activists in 'White Africa': Exploring sub-Saharan Migrant-Activism in Morocco                                                          | 5:00 PM  |
| Mario Castillo                                                                                 | Kill/Capture: The Chichimec War in North Central Mexico, 1550-1600                                                                            | 5:15 PM  |

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|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Gillian Wood</b>                                                                       | The Dangers of Expectant Evaluation: The Problem of Judgment in Washington Square and The Portrait of a Lady                                                                         | <b>5:30 PM</b> |
| <b>Aurora Llamas</b>                                                                      | Re-thinking Cultural Values: A Philosophical Approach to Socialized Inequality                                                                                                       | <b>5:45 PM</b> |
| <b>Waterside, HU/SS/PE</b><br><b>Jewell Debnam, Columbia University, 4:45 - 5:45</b>      |                                                                                                                                                                                      |                |
| <b>Cynthia Garcia</b>                                                                     | Reclaiming Space and Preserving Cultural History in the Mission District of San Francisco                                                                                            | <b>2:45 PM</b> |
| <b>Lauren Highsmith</b>                                                                   | The Divide: Modernism and Afro-Modernism                                                                                                                                             | <b>3:00 PM</b> |
| <b>Sade Williams</b>                                                                      | Am I Who I Say I Am or What They Say I Am?: Identity Construction in Juvenile Courtroom Proceedings                                                                                  | <b>3:15 PM</b> |
| <b>Yaritza Perez</b>                                                                      | Learned Helplessness or Tradition: An Examination of the Transgenerational Use and Perspective of Corporal Punishment and Authoritarianism in African American and Hispanic Families | <b>3:30 PM</b> |
| <b>Sagirah Wheeler</b>                                                                    | Words of Encouragement: Listening to the Past in Order to Prepare for the Future                                                                                                     | <b>3:45 PM</b> |
| <b>Matthew McCauley</b>                                                                   | Talking About God: A Univocal Approach                                                                                                                                               | <b>4:00 PM</b> |
| <b>Waterside, HU/SS/PE</b><br><b>Narayani Lasala, Princeton University, 2:45 - 3:45</b>   |                                                                                                                                                                                      |                |
| <b>Miata Rogers</b>                                                                       | The Effect of Academic Resources on College Retention Rates                                                                                                                          | <b>4:45 PM</b> |
| <b>Stephon Richardson</b>                                                                 | The Black New Left: African-American Radical Groups of the Late 1950s to the Early '60s                                                                                              | <b>5:00 PM</b> |
| <b>Hailey Neubauer</b>                                                                    | The Influence of the War on Drugs on Felons' Voting Rights Legislation and Voter Turnout in the South                                                                                | <b>5:15 PM</b> |
| <b>Brian Walsh</b>                                                                        | The Association Between Juvenile Arrest, Health Insurance, and Health Care Utilization                                                                                               | <b>5:30 PM</b> |
| <b>Mark Harris</b>                                                                        | Juvenile Socialization and Courtroom Interactions: A Qualitative Analysis of Client Outcomes                                                                                         | <b>5:45 PM</b> |
| <b>Westover, PS/EN/ES</b><br><b>Jenn Demers, Dartmouth College, 2:45-4:00</b>             |                                                                                                                                                                                      |                |
| <b>Mary Ng</b>                                                                            | Characterizing Precipitation in East Africa                                                                                                                                          | <b>2:45 PM</b> |
| <b>Brian Matilla</b>                                                                      | Convection Initiation along the Rocky Mountain Front Range                                                                                                                           | <b>3:00 PM</b> |
| <b>Miguel Frias</b>                                                                       | Seismic Soil Structure Interaction and Lateral Earth Pressures Near Buried Water Reservoir Structures in Southern California                                                         | <b>3:15 PM</b> |
| <b>Maxwell Kesselly</b>                                                                   | Utilization of Solar Energy in Residential Homes to Achieve Complete Net-Zero Energy Solar Homes                                                                                     | <b>3:30 PM</b> |
| <b>Stephen Vicchio</b>                                                                    | A Combinatorial Study of the Dealloying of Au/Ag/Pd Metal Alloys For Improved Fuel Cell Catalysts                                                                                    | <b>3:45 PM</b> |
| <b>Kevin Trujillo</b>                                                                     | Developing Photovoltaic Cells Using Semiconducting Polymers – Novel Methods of Harvesting Solar Energy                                                                               | <b>4:00 PM</b> |
| <b>Westover, PS/EN/ES</b><br><b>Jose Solis, University of Colorado Boulder, 4:45-5:00</b> |                                                                                                                                                                                      |                |
| <b>StellJo Passes</b>                                                                     | Radon Project                                                                                                                                                                        | <b>4:45 PM</b> |
| <b>Isatis Cintron</b>                                                                     | Real Time in situ Source Characterization for BC in Total Aerosol                                                                                                                    | <b>5:00 PM</b> |

# ORAL PRESENTATIONS BY NAME

## **Gifty Addae .....2:45 PM, Aspen I**

Presentation Title: Investigating Novel Proteins And  
MicroRNAs In Leukemogenesis

Research Mentor: Christina Spevak

Research Institution: Weill Cornell Medical College

Home Institution: UMass Boston

Co-Authors: Christopher Park and Christina Spevak,  
Weill Cornell/Rockefeller/Sloan-Kettering

Tri-Institutional

BB

## **Laura Agosto-Rosa .....11:45 AM, Aspen II**

Presentation Signal-Induced Alternative Splicing in  
Primary T Cells and Cell Lines

Research Mentor: Kristen Lynch

Research Institution: University of Pennsylvania

Home Institution: UPR-Rio Piedras

Co-Authors: Kristen W. Lynch, Nicole M. Martínez and  
Michael Mallory, University of Pennsylvania

BB

## **Hayford Agyemang.....11:15 AM, Glen III**

Presentation Title: Myelination and Pediatric SIV  
(Simian Immunodeficiency Virus)

Research Mentor: Mark Burke

Research Institution: Howard University

Home Institution: Gordon State College

Co-Authors: Mark Burke, Howard University

AB

## **Aida Alazar .....3:30 PM, Glen II**

Presentation Title: A Small Molecule Screen To  
Identify Modulators Of C-cell Development  
In Zebrafish Embryos

Research Mentor: Jacques Villefranc

Research Institution: Cornell University

Home Institution: Brown University

Co-Authors: Jacques Villefranc, Viviana Anelli and  
Yariv Houvras, Weill Cornell/Rockefeller/Sloan-

Kettering Tri-Institutional

AB

## **Tasnia Ali..... 3:15 PM, Elm I**

Presentation Title: Role of ITGAD in Early Activation  
of Memory CD4+ T Cells

Research Mentor: Ciara Torres

Research Institution: Columbia University

Home Institution: Rochester Institute of Technology

Co-Authors: Donna Farber and Naomi Yudanin,  
Columbia University

AB

## **Jasmine Allen ..... 5:45 PM, Aspen II**

Presentation Title: Investigating the Potential for  
Myogenin to Promote the Amplification of MyHC  
Expressing Adenoviral Vectors

Research Mentor: Leslie Leinwand

Research Institution: University of Colorado Boulder

Home Institution: University of South Florida

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

BB

## **Andrew Anguiano .....12:30 PM, Springdale II**

Presentation Title: The Economy of Online Courtship:  
Memoirs of Desperation and Fabrication in  
Internet-Mediated Dating

Research Mentor: Wendy Anderson

Research Institution: Washington University in St. Louis

Home Institution: San Jose State University

HU

## **Jaime Aponte..... 3:45 PM, Elm I**

Presentation Title: Impact of RAGE Deletion and  
Mitochondrial Biogenesis

Research Mentor: Ravichandran Ramasamy

Research Institution: New York University

Sackler Institute

Home Institution: UPR-Mayaguez

Co-Authors: Ravichandran Ramasamy, Radha  
Ananthakrishnan and Ann Marie Schmidt, New  
York University - BioMedical Sciences

BB

## **Emily Artalejo..... 4:00 PM, Springdale I**

Presentation Title: Female Paramilitary Experience  
in Northern Ireland

Research Mentor: Brendan O'Leary

Research Institution: University of Pennsylvania

Home Institution: Saint Mary's University

Co-Authors: Brendan O'Leary, University  
of Pennsylvania

SS

## **Raymond Barry..... 3:00 PM, Glen I5**

Presentation Title: The Effects of the Microbiome  
on Health and Disease

Research Mentor: Martin Blaser

Research Institution: New York University

Sackler Institute

Home Institution: University of North Carolina  
Chapel Hill

Co-Authors: Martin Blaser and Guillermo Perez-Perez,  
New York University - BioMedical Sciences; Tadasu  
Iizumi, New York University - Arts & Sciences

AB

**Rajshekhar Basak.....12:00 PM, Elm II**  
 Presentation Title: The Mechanism of Acrolein-Induced Lung Endothelial Permeability  
 Research Mentor: Sharon Rounds  
 Research Institution: Brown University  
 Home Institution: City College of New York  
 Co-Authors: Qing Lu, Sharon Rounds and Julie Newton, Brown University  
 BB

**Kristen Bascombe ..... 5:00 PM, Glen III**  
 Presentation Title: Determining the Source of and Maximizing the Yield from DNA on Touched Objects by Microscopic Visualization and Direct PCR  
 Research Mentor: Grace Axler-DiPerte  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Georgia  
 Co-Authors: Georgia Grace Axler-DiPerte, New York City Office of Chief Medical Examiner  
 AB

**William Beischel .....4:00 PM, Cove I**  
 Presentation Title: Executive Functioning in Sexually Compulsive Gay and Bisexual Men  
 Research Mentor: Jeffrey Parsons  
 Research Institution: Hunter College  
 Home Institution: Loyola University of Chicago  
 Co-Authors: Jeffrey Parsons, Ana Ventuneac and Leona Hess, Hunter College  
 SS

**Rebecca Betances ..... 3:45 PM, Long Ridge**  
 Presentation Title: Cellular Responses to Nanopatterned Bulk Metallic Glasses  
 Research Mentor: Jagannath Padmanabhan  
 Research Institution: Yale University  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Themis Kyriakides and Jagannath Padmanabhan, Yale University  
 EN

**Kristian Black.....11:30 AM, Aspen II**  
 Presentation Title: Development of Fluorescent RNA Biosensors for the Quantification of Intracellular Metabolites  
 Research Mentor: Robert Batey  
 Research Institution: University of Colorado Boulder  
 Home Institution: Louisiana State University-Baton Rouge  
 Co-Authors: Robert Batey and Joan Marciano-Velázquez, University of Colorado at Boulder  
 BB

**Timothy Borjas ..... 11:30 AM, Alder**  
 Presentation Title: The Effect of Necrostatin-1 on Pancreatic Inflammation and Cancer  
 Research Mentor: George Miller  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Pennsylvania  
 Co-Authors: George Miller and Lena Tomkoetter, New York University - BioMedical Sciences  
 AB

**Nicole Bowman..... 5:15 PM, Glen III**  
 Presentation Title: High Fat Diet Drives Epigenetic Changes: A Role for DNA Methyltransferase  
 Research Mentor: Teresa Reyes  
 Research Institution: University of Pennsylvania  
 Home Institution: Bryn Mawr College  
 Co-Authors: Teresa Reyes, Nicola Grissom and Jeese Carlin, University of Pennsylvania  
 AB

**Kaitland Brannon ..... 5:15 PM, Alder**  
 Presentation Title: Styryl-Based Compounds as Novel Potential Therapeutic Agents for Alzheimer's Disease  
 Research Mentor: Thomas Wisniewski  
 Research Institution: New York University Sackler Institute  
 Home Institution: Xavier University of Louisiana  
 Co-Authors: Thomas Wisniewski, Shan Liu and Eileen Do, New York University - BioMedical Sciences  
 AB

**Lindsey Brier..... 12:00 PM, Aspen II**  
 Presentation Title: Assessing the Effects of RNase H rRNA Depletion on Technical Variability in RNA Sequencing Experiments  
 Research Mentor: John Hogenesch  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Houston  
 Co-Authors: John Hogenesch and Nicholas Lahens, University of Pennsylvania  
 BB

**Erran Briggs II .....12:00 PM, Aspen I**  
 Presentation Title: The Study of the HIV-1 5'UTR Monomer-Dimer Equilibrium by Native Size Exclusion Chromatography  
 Research Mentor: Michael Summers  
 Research Institution: University of Maryland, Baltimore County  
 Home Institution: Kalamazoo College  
 Co-Authors: Erran D. Briggs, Kalamazoo College; Sarah A. Monti and Michael F. Summers, University of Maryland, Baltimore County  
 BB

**Donald Brown..... 3:45 PM, Springdale I**

Presentation Title: Universalism, Particularism, and the Limits Therein: Post-World War II Politics on Race  
 Research Mentor: Vaughn Rasberry  
 Research Institution: Stanford University  
 Home Institution: Vaughn Rasberry, Stanford University School of Humanities & Sciences  
 HU

**Princess Brown .....5:45 PM, Cove I**

Presentation Title: The Effects of Utilizing Rap Music in Underserved Classrooms to Improve Student Academic Performance  
 Research Mentor: Constance Ellison  
 Research Institution: Howard University  
 Home Institution: Claflin University  
 Co-Authors: Constance Ellison, Howard University  
 SS

**Timothy Brown..... 12:00 PM, Alder**

Presentation Title: Insect Cell Expression and Purification of PTEN -- A Key Signaling Phosphatase and Tumor Suppressor  
 Research Mentor: Mario Amzel  
 Research Institution: Johns Hopkins University  
 Home Institution: University of Texas at El Paso  
 Co-Authors: Andres Hernandez, Sandra Gabelli and L. Mario Amzel, Johns Hopkins University  
 BB

**Alexander Bruch..... 4:00 PM, Long Ridge**

Presentation Title: High Finesse Cavity for Characterizing the Optical Loss in Thin Films of Barium Titanate  
 Research Mentor: Hong Tang  
 Research Institution: Yale University  
 Home Institution: Elon University  
 Co-Authors: Hong Tang, Xiankai Sun and Xu Han, Yale University  
 EN

**Can Buldun .....4:00 PM, Alder**

Presentation Title: The Effects of Haloperidol, Clozapine and Risperidone on Glutamatergic Synapses  
 Research Mentor: Edward Ziff  
 Research Institution: New York University Sackler Institute  
 Home Institution: Jacobs University Bremen  
 Co-Authors: Edward Ziff, New York University - BioMedical Sciences  
 BB

**Cristhian Cadena ..... 11:45 AM, Aspen I**

Presentation Title: Impact of Defective Viral Genomes Sequence Modifications in Their Immunostimulatory Activity  
 Research Mentor: Carolina Lopez  
 Research Institution: University of Pennsylvania  
 Home Institution: Sam Houston State University  
 Co-Authors: Carolina B. López, Xiomara Mercado-López and Yan Sun, University of Pennsylvania  
 BB

**Henry Capps III ..... 3:00 PM, Springdale I**

Presentation Title: The Prison Tragedy: The Failure of Narcotics Criminalization in New York City's War on Drugs  
 Research Mentor: Samuel Roberts  
 Research Institution: Columbia University  
 Home Institution: University of South Carolina  
 Co-Authors: Samuel K. Roberts, Columbia University  
 HU

**Marco Carpenter.....4:00 PM, Glen II**

Presentation Title: Identifying Schizophrenia Associated Gene Targets of the Transcription Factor c-myc  
 Research Mentor: Jerry Stitzel  
 Research Institution: University of Colorado Boulder  
 Home Institution: Clark University  
 Co-Authors: Jerry Stitzel and Coral Cabrera-Montalvo, University of Colorado at Boulder  
 BB

**Corie Jade Carter ..... 3:00 PM, Glenbrook**

Presentation Title: Microbial Ecology of Biological Nitrogen Fixation in MT Soils  
 Research Mentor: John Peters  
 Research Institution: Montana State University -Bozeman  
 Home Institution: University of Great Falls  
 Co-Authors: John Peters, Ambrien Risingsun and Laura B., Montana State University  
 PS

**Javier Castillo .....4:45 PM, Glen II**

Presentation Title: The Effect of Innate Immune Modulation via Toll-Like Receptor 9 on the Amelioration of Cerebral Amyloid Angiopathy in Alzheimer's Disease  
 Research Mentor: Thomas Wisniewski  
 Research Institution: New York University Sackler Institute  
 Home Institution: Paris 7 University  
 Co-Authors: Thomas Wisniewski and Henrieta Scholtzova, New York University - BioMedical Sciences  
 AB

**Mario Castillo .....5:15 PM, Springdale II**

Presentation Title: Kill/Capture: The Chichimec War  
in North Central Mexico, 1550-1600

Research Mentor: Mark Lycett

Research Institution: University of Chicago

Home Institution: CSU Dominguez Hills

Co-Authors: Mark Lycett and Madeline McLeester,  
University of Chicago

SS

**Stephanie Castillo ..... 12:15 PM, Elm I**

Presentation Title: Dissecting Interactions Between  
BamA and BamD Via Binding and Fluorescence  
Studies

Research Mentor: Marcelo Sousa

Research Institution: University of Colorado Boulder

Home Institution: University of Central Florida

Co-Authors: Marcelo Sousa, University of Colorado  
at Boulder

BB

**Cristina Castro-Rivera .....5:30 PM, Elm II**

Presentation Title: Endosomal Recycling of KATP  
Channels: The Role of EHD Proteins

Research Mentor: William Coetzee

Research Institution: New York University  
Sackler Institute

Home Institution: UPR-Mayaguez

Co-Authors: Monique Foster and William Coetzee,  
New York University - Arts & Sciences

BB

**Paul Cato ..... 3:45 PM, Cove II**

Presentation Title: Polyphony, Responsibility, & Active  
Love: A Reconsideration of Dostoevsky's and  
Lévinas' Philosophies of Love

Research Mentor: Richard Rosengarten

Research Institution: University of Chicago

Home Institution: Swarthmore College

Co-Authors: Richard Rosengarten, University  
of Chicago

PE

**Sandy Chan .....12:30 PM, Glen II**

Presentation Title: Effect of Aspirin on  
Microhemorrhage Diameters in Rodent Brains

Research Mentor: Chris Schaffer

Research Institution: Cornell University

Home Institution: Cornell University

Co-Authors: Morgan Brophy, Chris Schaffer and  
Nozomi Nishimura, Cornell University

AB

**Kervin Charles ..... 3:15 PM, Aspen II**

Presentation Title: A Role for R-Ras in Formation of  
HFS-LTP and Contextual Discrimination Learning  
via Activation by RasGRF1

Research Mentor: Michael Darcy

Research Institution: Tufts University BioMedical Sciences

Home Institution: Michael Darcy and Larry Feig, Tufts  
University School of Graduate Biomedical Sciences

BB

**Bao Ying Chen .....5:15 PM, Elm II**

Presentation Title: Defining Protein Phosphatase 2A  
Complexes and Substrates That Regulate Ethylene  
Biosynthesis in Arabidopsis

Research Mentor: Alison DeLong

Research Institution: Brown University

Home Institution: Grinnell College

Co-Authors: Matthew Booker, Victoria Cabot  
and Alison DeLong, Brown University

BB

**Isatis Cintron ..... 5:00 PM, Westover**

Presentation Title: Real Time in situ Source  
Characterization for BC in Total Aerosol

Research Mentor: Darin Toohey

Research Institution: University of Colorado Boulder

Home Institution: UPR-Rio Piedras

Co-Authors: Darin Toohey, University of Colorado  
at Boulder

ES

**Anne Caroline Clark .....2:45 PM, Cove I**

Presentation Title: Harm Reduction in the United  
States: The Early Development of New York City's  
Syringe and Needle Exchange Policy, 1985-1989

Research Mentor: Samuel Roberts

Research Institution: Columbia University

Home Institution: Smith College

Co-Authors: Samuel K. Roberts, Columbia University  
HU

**Morgan Clark ..... 3:30 PM, Belltown**

Presentation Title: Not Just a Game: Racialization,  
Othering and Hypersex in Video Games

Research Mentor: Karen Jackson-Weaver

Research Institution: Princeton University

Home Institution: Spelman College

Co-Authors: Karen Jackson-Weaver,  
Princeton University

SS



**Taelor Clay ..... 5:30 PM, Cove II**

Presentation Title: Impact of Stereotype Threat  
on Women and Minorities  
Research Mentor: Greg Walton  
Research Institution: Stanford University  
Home Institution: Morgan State University  
Co-Authors: Gregory Walton and Lauren Aguilar,  
Stanford University School of Humanities  
& Sciences  
HU

**Princess Cobbs ..... 3:00 PM, Springdale II**

Presentation Title: Health Care Utilization by Young  
Adults That Have Been Affected by the Criminal  
Justice System Compared to Those That Have Not  
Research Mentor: Christopher Wildeman  
Research Institution: Yale University  
Home Institution: Chaminade University of Honolulu  
Co-Authors: Christopher Wildeman and Emily Wang,  
Yale University  
SS

**Oluwadara Coker ..... 4:00 PM, Aspen I**

Presentation Title: Investigating the Role of  
Non-Coding RNAs in Immunoglobulin  
Heavy Chain Locus Rearrangements  
Research Mentor: Uttiya Basu  
Research Institution: Columbia University  
Home Institution: Rochester Institute of Technology  
Co-Authors: Uttiya Basu, Gerson Rothschild and  
Junghyun Lim, Columbia University  
AB

**Joshua Cole ..... 11:30 AM, Aspen I**

Presentation Title: Elucidating the Modulatory Effects  
of Flaxseed-derived Lignans on Protein Expression  
of Macrophage Co-receptors: Implications for  
HIV Neuroprotection  
Research Mentor: Jennifer King  
Research Institution: University of Pennsylvania  
Home Institution: Boston University  
Co-Authors: Jennifer King, Melpo Christofidou-  
Solomidou and Kelly L. Jordan-Sciutto,  
University of Pennsylvania  
AB

**Evan Coles ..... 3:00 PM, Cove II**

Presentation Title: The Literature of Black Marxism: A  
Critical Look at Religious Domination  
Research Mentor: Karen Jackson-Weaver  
Research Institution: Princeton University  
Home Institution: Princeton University  
Co-Authors: Karen Jackson-Weaver, Princeton University  
HU

**Stanley Collins ..... 4:45 PM, Cove II**

Presentation Title: Social Capital Inside the Courtroom:  
An Analysis of the Networks That Assist Youth In  
Navigating the Juvenile Justice System  
Research Mentor: Carla Shedd  
Research Institution: Columbia University  
Home Institution: Morehouse College  
Co-Authors: Carla Shedd, Columbia University  
SS

**Avani Comer ..... 3:45 PM, Glen I**

Presentation Title: Functional Analysis of Crohn's  
Disease and Mycobacteria in Ashkenazi Jews  
Research Mentor: Monica Bowen  
Research Institution: Yale University  
Home Institution: Rutgers University  
Co-Authors: Monica Bowen, Yale University  
BB

**Nykhala Coston ..... 5:30 PM, Cove I**

Presentation Title: The Public Perception of Interracial  
Dating varies as a Function of Prejudice,  
Environmental Diversity, and Racial Identity  
Research Mentor: Jasmin Cloutier  
Research Institution: University of Chicago  
Home Institution: McKendree University  
Co-Authors: Jasmin Cloutier and Tianyi Li,  
University of Chicago  
SS

**Aja Crim-Logan ..... 11:15 AM, Glen II**

Presentation Title: Computer Based Treatment for  
Cognitive Behavioral Therapy  
Research Mentor: Hedy Kober  
Research Institution: Yale University  
Home Institution: Hunter College  
Co-Authors: Ashley Schloss, Yale University  
AB

**Dina Dajani ..... 5:45 PM, Belltown**

Presentation Title: Decreased Cerebro-Cerebellar  
Functional Connectivity in Autism  
Research Mentor: Stewart Mostofsky  
Research Institution: Johns Hopkins University  
Home Institution: University of Miami  
Co-Authors: Mary Beth Nebel, Deana Crocetti and  
Stewart Mostofsky, Johns Hopkins University  
SS

**James Damiano ..... 3:30 PM, Aspen II**

Presentation Title: Mechanism of JAK2 Autoinhibition  
Identified by Molecular Dynamics Simulation  
Research Mentor: Stevan Hubbard  
Research Institution: New York University  
Sackler Institute  
Home Institution: Harvard University  
Co-Authors: Stevan Hubbard and Kavitha  
Gnanasambandan, New York University -  
BioMedical Sciences

BB

**Rebecca de Frates ..... 2:45 PM, Alder**

Presentation Title: The Role of Cdc42 in Cerebellar  
Granule Cell Development  
Research Mentor: Eve Govek  
Research Institution: Weill Cornell Medical College  
Home Institution: University of Washington  
Co-Authors: Eve Govek and Mary Hatten,  
Rockefeller University

BB

**Kevin De Jesus ..... 11:15 AM, Aspen II**

Presentation Title: Elucidating a Mitochondrial  
Protective Transcriptional Network  
Research Mentor: Cole Haynes  
Research Institution: Weill Cornell Medical College  
Home Institution: UPR-Humacao  
Co-Authors: Cole Haynes, Mark Pellegrino and Amrita  
Nargund, Sloan-Kettering Institute

BB

**Dayana De La Torre ..... 3:15 PM, Cove I**

Presentation Title: Drug Busts in New York City: Law  
Enforcement and Crime in the 1980s  
Research Mentor: Samuel Roberts  
Research Institution: Columbia University  
Home Institution: Williams College  
Co-Authors: Samuel K. Roberts, Columbia University

HU

**Fartun Dirie ..... 4:45 PM, Belltown**

Presentation Title: Antenatal Care and Healthcare  
Access in Mozambique: An Issue of Spatial  
Inequality?

Research Mentor: Michael White  
Research Institution: Brown University  
Home Institution: University of St. Thomas  
Co-Authors: Michael White, Brown University

SS

**Jana Dodson ..... 3:30 PM, Long Ridge**

Presentation Title: SEM and EDS Characterization of  
Bulk Metallic Glass  
Research Mentor: Christine Broadbridge  
Research Institution: Yale University  
Home Institution: Georgetown University  
Co-Authors: Christine Broadbridge, Southern  
Connecticut State University

EN

**Aisha Dorta ..... 2:45 PM, Glenbrook**

Presentation Title: A Quantitative Analysis of the  
Biological Terraformation of a Planet  
Research Mentor: Karen Jackson-Weaver  
Research Institution: Princeton University  
Home Institution: Brooklyn College CUNY  
Co-Authors: Karen Jackson-Weaver, Princeton  
University

PS

**Sean Dougherty ..... 5:00 PM, Aspen I**

Presentation Title: Hyperoxia Protects Against  
Isoflurane-induced Apoptosis in the Rat Neonatal  
Brain  
Research Mentor: Lourdes Martin Hernandez  
Research Institution: New York University  
Sackler Institute  
Home Institution: Virginia Polytechnic Institute  
and State University  
Co-Authors: Lourdes A. Martin Hernandez, Boris  
Biskoun and Thomas JJ Blanck, New York  
University - BioMedical Sciences

BB

**Imaani Easthausen ..... 5:30 PM, Glen I**

Presentation Title: Synthesis of a Multimodal Imaging  
Agent for the Visualization of Pancreatic Beta Cells  
in vivo  
Research Mentor: Thomas Reiner  
Research Institution: Weill Cornell Medical College  
Home Institution: Bard College  
Co-Authors: Jason Lewis, Thomas Reiner and Christian  
Brand, Memorial Sloan Kettering Cancer Center

BB

**Elshaddai Ephrem ..... 5:30 PM, Elm I**

Presentation Title: Role of IRF1 in Lupus: Defining  
Downstream Targets  
Research Mentor: Kathleen Sullivan  
Research Institution: University of Pennsylvania  
Home Institution: Princeton University  
Co-Authors: Kathleen E. Sullivan, Kelly Maurer and Li  
Hua Shi, University of Pennsylvania

BB



**Arianna Espinoza..... 12:30 PM, Elm I**

Presentation Title: Using Fluorescence Anisotropy to Understand How MARCKS-ED Peptide Binds to Microvesicles

Research Mentor: Hang (Hubert) Yin

Research Institution: University of Colorado Boulder

Home Institution: New Mexico Institute of Mining & Technology

Co-Authors: Hang Hubert Yin and Leslie A. Morton, University of Colorado at Boulder

BB

**Ugomma Eze .....5:00 PM, Glen II**

Presentation Title: Requirement of FUS in mES-Derived Motor Neuron Survival; Implications for ALS

Research Mentor: Lei Lu

Research Institution: Columbia University

Home Institution: Drew University

Co-Authors: Neil Shneider, Lei Lu and Sarah Ebstein, Columbia University

AB

**Bianca Flores ..... 2:45 PM, Elm I**

Presentation Title: The Effects of Mycobacterium vaccae on Serotonergic Systems, Immune Activation, and Behavior in the Forced Swim Test

Research Mentor: Christopher Lowry

Research Institution: University of Colorado Boulder

Home Institution: University of Rochester

Co-Authors: Christopher Lowry and Alfredo Zúñiga, University of Colorado at Boulder

BB

**Joshua Frenster ..... 4:00 PM, Glen III**

Presentation Title: Fluorescent Reporter System for Directing Hematopoietic Lineage Specification

Research Mentor: Matthias Stadtfeld

Research Institution: New York University Sackler Institute

Home Institution: Jacobs University Bremen

Co-Authors: Matthias Stadtfeld, New York University - BioMedical Sciences

BB

**Miguel Frias ..... 3:15 PM, Westover**

Presentation Title: Seismic Soil Structure Interaction and Lateral Earth Pressures Near Buried Water Reservoir Structures in Southern California

Research Mentor: Shideh Dashti

Research Institution: University of Colorado Boulder

Home Institution: University of Wisconsin Madison

Co-Authors: Shideh Dashti and Min Zhang, University of Colorado at Boulder

EN

**Kafi Friday ..... 5:30 PM, Alder**

Presentation Title: Understanding the Mechanisms of Ceftriaxone-Dependent Regulation of Glutamate Transport in the Brain

Research Mentor: Michael Robinson

Research Institution: University of Pennsylvania

Home Institution: Brooklyn College CUNY

Co-Authors: Micheal Robinson, Mausam Ghosh and Meredith Lane, University of Pennsylvania

BB

**Cynthia Garcia ..... 2:45 PM, Waterside**

Presentation Title: Reclaiming Space and Preserving Cultural History in the Mission District of San Francisco

Research Mentor: Zephyr Frank

Research Institution: Stanford University

Home Institution: UC Berkeley

Co-Authors: Marcial Gonzalez, University of California, Berkeley; Frank Zephyr, Stanford University School of Humanities & Sciences

HU

**Cecile Gaston ..... 11:45 AM, Glen III**

Presentation Title: Novel Role of the Neuronal Guidance Cue, Netrin-1 in Abdominal Aortic Aneurysm Formation

Research Mentor: Kathryn Moore

Research Institution: New York University Sackler Institute

Home Institution: Paris 7 University

Co-Authors: Kathryn Moore and Bhama Ramkhalawon, New York University - BioMedical Sciences

BB

**Sherry Gee ..... 3:45 PM, Glen III**

Presentation Title: Role of ANO-1 in Endothelial Cell Proliferation and Migration

Research Mentor: Gaurav Choudhary

Research Institution: Brown University

Home Institution: University of Michigan-Ann Arbor

Co-Authors: Gaurav Choudhary, Alexander Vang and Ayed Allawzi, Brown University

BB

**Jemima Georges ..... 2:45 PM, Belltown**

Presentation Title: An Examination of the Impacts Prehistoric Cahokians Had on Their Natural Environment

Research Mentor: John Kelly

Research Institution: Washington University in St. Louis

Home Institution: Brooklyn College CUNY

Co-Authors: John E. Kelly, Washington University in St. Louis

SS

**Joseph Geraghty..... 3:45 PM, Glenbrook**

Presentation Title: Synthesis of Enantiopure Nantenine  
 Analogs as Serotonin 5-HT<sub>2A</sub> Receptor  
 Antagonists  
 Research Mentor: Wayne Harding  
 Research Institution: Hunter College  
 Home Institution: SUNY College at Geneseo  
 Co-Authors: Wayne Harding and Nirav Kapadia,  
 Hunter College  
 PS

**Felipe Giuste..... 5:45 PM, Elm I**

Presentation Title: Elucidating the Role of Neuromedin  
 U Receptor in Erythropoiesis  
 Research Mentor: Martin Carroll  
 Research Institution: University of Pennsylvania  
 Home Institution: Washington University in St. Louis  
 Co-Authors: Martin Carroll and Susan Shetzline,  
 University of Pennsylvania  
 BB

**Damla Gonullu ..... 4:45 PM, Elm I**

Presentation Title: The Association Between Peripheral  
 Blood Leukocyte Telomere Length and Female  
 Reproductive Aging  
 Research Mentor: Damla Gonullu  
 Research Institution: New York University  
 Sackler Institute  
 Home Institution: New York University  
 Co-Authors: Keri Kalmbach and David Keefe, New  
 York University - BioMedical Sciences  
 AB

**Guadalupe Gonzalez..... 3:45 PM, Belltown**

Presentation Title: The Role of Gender and Stage of  
 Acquisition in the Language Processing of L2  
 Learners  
 Research Mentor: Cindy Brantmeier  
 Research Institution: Washington University in St. Louis  
 Home Institution: Bethel University  
 Co-Authors: Cindy Brantmeier, Washington University  
 in St. Louis  
 SS

**Matthew Gonzalez ..... 5:00 PM, Glen I**

Presentation Title: The Role of UCP1 and IAPP in the  
 Progression of Diabetes  
 Research Mentor: Andisheh Abedini  
 Research Institution: New York University  
 Sackler Institute  
 Home Institution: Arizona State University  
 Co-Authors: Ann Marie Schmidt, Andisheh Abedini  
 and Carmen Hurtado del Pozo, New York  
 University - BioMedical Sciences  
 AB

**Jose Grullon ..... 5:00 PM, Elm II**

Presentation Title: Functional Analysis and Localization  
 of NIS, MCT1, and MCT4 Proteins  
 Research Mentor: Jose Grullon  
 Research Institution: Yale University  
 Home Institution: Rutgers University  
 Co-Authors: Andrea Reyna and Nancy Carrasco, Yale  
 University  
 BB

**Daniel Guzman ..... 3:30 PM, Glen I**

Presentation Title: Analysis of the IgE Response in  
 Nippostrongylus Brasiliensis-Infected Mice  
 Research Mentor: Juan Lafaille  
 Research Institution: New York University Sackler  
 Institute  
 Home Institution: Rutgers University  
 Co-Authors: Juan Lafaille, New York University -  
 BioMedical Sciences  
 BB

**Elsa Hardy ..... 5:00 PM, Cove I**

Presentation Title: Cultures of Power: Harlem Children's  
 Zone and Poverty Intervention Efforts  
 Research Mentor: Kimberly DaCosta  
 Research Institution: New York University  
 Home Institution: Wesleyan University  
 Co-Authors: Kimberly DaCosta, New York University -  
 Arts & Sciences; Sarah Mahurin, and Daniel Long,  
 Wesleyan University  
 SS

**Mark Harris..... 5:45 PM, Waterside**

Presentation Title: Juvenile Socialization and  
 Courtroom Interactions: A Qualitative Analysis of  
 Client Outcomes  
 Research Mentor: Carla Shedd  
 Research Institution: Columbia University  
 Co-Authors: Home Institution: Grambling State  
 University  
 Carla Shedd, Columbia University  
 SS

**Jessica Hartling ..... 5:15 PM, Aspen I**

Presentation Title: Iron Responsive Element (IRE)-  
 mRNA Conformation Changes Induced by  
 Manganese Ion (Mn<sup>2+</sup>)  
 Research Mentor: Dixie Goss  
 Research Institution: Hunter College  
 Home Institution: Viterbo University  
 Co-Authors: Dixie Goss and Jia Ma, Hunter College  
 BB

**Michael Hawkins ..... 4:00 PM, Glenbrook**

Presentation Title: Using Ultraviolet Light to Inactivate the Bacteriophage MS2  
 Research Mentor: Karl Linden  
 Research Institution: University of Colorado Boulder  
 Home Institution: Georgia State University  
 Co-Authors: Karl Linden and Sara Beck, University of Colorado at Boulder  
 EN

**Jillian Haynes .....3:15 PM, Springdale II**

Presentation Title: Candidate Physiological Markers of Perceived Stress  
 Research Mentor: Mariann Weierich  
 Research Institution: Hunter College  
 Home Institution: SUNY at Albany  
 Co-Authors: Mariann Weierich, Hunter College  
 SS

**Justin Henderson ..... 5:00 PM, Belltown**

Presentation Title: Could Your DNA Soon Be in a Federal or State Database?  
 Research Mentor: Jennifer Hochschild  
 Research Institution: Harvard University  
 Home Institution: Eastern Kentucky University  
 Co-Authors: Jennifer Hochschild and Maya Sen, Harvard University, Dept. of Government  
 PE

**Nicholas Hernandez ..... 5:45 PM, Glen I**

Presentation Title: Effects of Post-Translation Modifications on Rate of BACE1 Internalization  
 Research Mentor: Gopal Thinakaran  
 Research Institution: University of Chicago  
 Home Institution: University of South Florida  
 Co-Authors: Celia Fernandez and Gopal Thinakaran, University of Chicago  
 BB

**Natalia Herrera .....3:45 PM, Aspen I**

Presentation Title: Generating an Antibody Against Retinoic Acid Receptor-Related Orphan Receptor Alpha (Rora) to Define its Transcriptional Targets  
 Research Mentor: Jason Hall  
 Research Institution: New York University Sackler Institute  
 Home Institution: UC Santa Cruz  
 Co-Authors: Jason Hall and Dan R. Littman, New York University - BioMedical Sciences  
 AB

**Lauren Highsmith.....3:00 PM, Waterside**

Presentation Title: The Divide: Modernism and Afro-Modernism  
 Research Mentor: Charles Kronengold  
 Research Institution: Stanford University  
 Home Institution: Hampton University  
 Co-Authors: Charles Kronengold, Stanford University School of Humanities & Sciences  
 HU

**Nikeeyia Howell..... 3:30 PM, Cove II**

Presentation Title: Demystifying the Strangeness: An Intertextual Analysis of Mark Twain's No.44, The Mysterious Stranger  
 Research Mentor: Kenneth Warren  
 Research Institution: University of Chicago  
 Home Institution: City College of New York  
 Co-Authors: Kenneth Warren, University of Chicago  
 HU

**Dorcas Huang ..... 3:00 PM, Long Ridge**

Presentation Title: Modeling Cellular Response to Nanopatterned Bulk Metallic Glasses  
 Research Mentor: Jenna Balestrini  
 Research Institution: Yale University  
 Home Institution: Columbia University  
 Co-Authors: Jenna Balestrini, Jagannath Padmanabhan and Themis Kyriakides, Yale University  
 EN

**David Hutchinson.....3:00 PM, Cove I**

Presentation Title: All I Do Know Is That I Like Being Liked: Conceptualizing Same-Sex Desire in Richard Bruce Nugent's "Gentleman Jigger"  
 Research Mentor: William Maxwell  
 Research Institution: Washington University in St. Louis  
 Home Institution: Truman State University  
 Co-Authors: William Maxwell, Washington University in St. Louis  
 HU

**Jere' Hutson .....4:45 PM, Elm II**

Presentation Title: Purification and Characterization of TAT-Cre for Ex Vivo Gene Deletion  
 Research Mentor: Michael Atchison  
 Research Institution: University of Pennsylvania  
 Home Institution: Delaware State University  
 Co-Authors: Michael Atchison, Parul Mehra and Vibha Jha, University of Pennsylvania  
 BB

**Lena Ibrahim..... 4:00 PM, High Ridge**

Presentation Title: Effects of Rigidity of Bent-Core Liquid Crystal Spacer Groups  
 Research Mentor: David Walba  
 Research Institution: University of Colorado Boulder  
 Home Institution: University of West Florida  
 Co-Authors: David Walba and Mark Moran, University of Colorado at Boulder  
 PS

**Steven Jefferson..... 5:00 PM, Cove II**

Presentation Title: China in the World: The Representation of Ethnic Minorities in the Media  
 Research Mentor: Emily Hannum  
 Research Institution: University of Pennsylvania  
 Home Institution: Boston College  
 Co-Authors: Emily Hannum and Hua-Yu Sebastian Cherng, University of Pennsylvania  
 SS

**Debria Joe.....5:45 PM, Glen II**

Presentation Title: BACE1 Localization and Trafficking in Neurons  
 Research Mentor: Gopal Thinakaran  
 Research Institution: University of Chicago  
 Home Institution: Xavier University of Louisiana  
 Co-Authors: Gopal Thinakaran, Margaret Lefkow and Celia Fernandez, University of Chicago  
 BB

**Catrina Johnson ..... 4:45 PM, Aspen II**

Presentation Title: Contribution of the E74-Like Factor 3 to the Toll-Like Receptor-Driven Catabolic Responses in Articular Chondrocytes: Potential Role in Cartilage Destruction in Osteoarthritis  
 Research Mentor: Mary Goldring  
 Research Institution: Weill Cornell Medical College  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Mary Goldring and Miguel Otero, The Hospital for Special Surgery  
 AB

**Alexandra Jones ..... 4:00 PM, Belltown**

Presentation Title: Examining the Mind of a Student: How Unconscious Biases and Heuristics Influence Academic Decision-Making  
 Research Mentor: Elizabeth Paluck  
 Research Institution: Princeton University  
 Home Institution: Rutgers University  
 Co-Authors: Elizabeth Paluck, Princeton University  
 SS

**Maxwell Kesselly ..... 3:30 PM, Westover**

Presentation Title: Utilization of Solar Energy in Residential Homes to Achieve Complete Net-Zero Energy Solar Homes  
 Research Mentor: Sonya Smith  
 Research Institution: Howard University  
 Home Institution: Alabama A&M University  
 Co-Authors: Sonya Smith, Howard University  
 EN

**Melissa Kreider ..... 3:30 PM, High Ridge**

Presentation Title: Synthesis of a Dense, High Aspect Ratio Zinc Oxide Nanowire Forest Using the PS-PMMA Block Copolymer  
 Research Mentor: Chinedum Osuji  
 Research Institution: Yale University  
 Home Institution: Massachusetts Institute of Technology  
 Co-Authors: Chinedum Osuji, Candice Pelligra and Diana Hu, Yale University  
 PS

**Carolina Larrain ..... 3:15 PM, Glen III**

Presentation Title: Characterization of Ontogenetic Columns in Reeler Mice  
 Research Mentor: Shuijin He  
 Research Institution: Weill Cornell Medical College  
 Home Institution: University of Wisconsin Madison  
 Co-Authors: Shuijin He, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional  
 AB

**Marilyn Le .....12:30 PM, Aspen I**

Presentation Title: The Effects of Reverse Transcriptase Inhibitors on LINE-1 Retrotransposon Expression in Human Fibroblasts  
 Research Mentor: John Sedivy  
 Research Institution: Brown University  
 Home Institution: University of Rhode Island  
 Co-Authors: John Sedivy and Marco De Cecco, Brown University  
 AB

**Irene Lee .....12:15 PM, Aspen I**

Presentation Title: Use of Immune Complex Vaccine as a Novel Immunogen to Generate Broad HIV-1 Neutralizing Antibodies  
 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 - BioMedical Sciences  
 BB

**Rachel Lee ..... 12:00 PM, Glen III**

Presentation Title: Ultrasonic Actuation Reduces Brain  
Inflammatory Response to Neural Microelectrode  
Insertion

Research Mentor: Catharine Clark

Research Institution: Cornell University

Home Institution: Cornell University

Co-Authors: Catharine Clark, Chris Schaffer and  
Nozomi Nishimura, Cornell University

AB

**Rosa Leon ..... 5:30 PM, Aspen I**

Presentation Title: Buprenorphine's Potential  
Antidepressant-like Effects on a Chronic Mild  
Stress Model

Research Mentor: Irwin Lucki

Research Institution: University of Pennsylvania

Home Institution: Syracuse University

Co-Authors: Irwin Lucki and Edgardo Falcon-Morales,  
University of Pennsylvania

BB

**Melissa Leung ..... 3:00 PM, Alder**

Presentation Title: Efficacy of the novel JAK2 inhibitor  
G6, in Myeloproliferative Neoplasms

Research Mentor: Priya Koppikar

Research Institution: Weill Cornell Medical College

Home Institution: Wesleyan University

Co-Authors: Priya Koppikar, Neha Bhagwat and Ross L.  
Levine, Weill Cornell/Rockefeller/Sloan-Kettering  
Tri-Institutional

BB

**Shannon Litke ..... 3:30 PM, Alder**

Presentation Title: Neurotensin Attenuates the  
Methamphetamine-Induced Increase in  
Phosphorylation of DARPP-32, Dopamine and  
cyclic AMP-Regulated Phosphoprotein, Via the  
Nitric Oxide/cyclic GMP Signaling Pathway in  
Striatal Neurons of Mice

Research Mentor: Jesus Angulo

Research Institution: Hunter College

Home Institution: New York University

Co-Authors: Jesus Angulo and Qingkun Liu, Hunter  
College

BB

**Aurora Llamas ..... 5:45 PM, Springdale II**

Presentation Title: Re-thinking Cultural Values: A  
Philosophical Approach To Socialized Inequality

Research Mentor: Rene Arcilla

Research Institution: New York University

Home Institution: Cornell University

Co-Authors: Rene Arcilla, New York University -  
Arts & Sciences

PE

**Sydney Lomnes ..... 3:15 PM, Glen I**

Presentation Title: Host and Parasite Communities:  
How Interactions Between *Chaetogaster limnaei*  
and *Echinostoma* sp. Affect Snail Hosts

Research Mentor: Pieter Johnson

Research Institution: University of Colorado Boulder

Home Institution: University of Wisconsin La Crosse

Co-Authors: Pieter Johnson, University of Colorado at  
Boulder

AB

**Carolina Lopez ..... 5:30 PM, Aspen II**

Presentation Title: Regulation of the SYT-SSX2 Fusion  
Protein by t(X;18) in Synovial Sarcoma

Research Mentor: Yuanyuan Xie

Research Institution: Weill Cornell Medical College

Home Institution: Florida International University

Co-Authors: Ping Chi, Yuanyuan Xie and Dong Gao,  
Weill Cornell/Rockefeller/Sloan-Kettering Tri-  
Institutional

AB

**Davys Lopez ..... 3:00 PM, Aspen II**

Presentation Title: Localization of the Polarity  
Regulator PAC-1 by Components of the Cadherin-  
Catenin Complex

Research Mentor: Jeremy Nance

Research Institution: New York University Sackler  
Institute

Home Institution: University of Florida

Co-Authors: Jeremy Nance and Diana Klompstra, New  
York University - BioMedical Sciences

BB

**Noe Lopez ..... 5:15 PM, Cove I**

Presentation Title: Living In Between Nations:  
Discussing Mixtec Transnationalism in the United  
States and Mexico

Research Mentor: Evelyn Hu-Dehart

Research Institution: Brown University

Home Institution: UC Santa Barbara

Co-Authors: Evelyn Hu-Dehart, Brown University  
SS

**LeaAnn Love ..... 12:30 PM, Alder**

Presentation Title: African American Women and  
Triple Negative Breast Cancer: Examining the  
Stigmas of Self Touching that Prevent Its Early  
Detection

Research Mentor: Karen Jackson-Weaver

Research Institution: Princeton University

Home Institution: Xavier University of Louisiana

Co-Authors: Robert Knowles and Lydia Rono,  
Princeton University

AB



**Claudia Lovell .....3:45 PM, Elm II**

Presentation Title: The Role of BET Proteins in Embryonic Stem Cell Fate Decisions  
 Research Mentor: Eva Hernando  
 Research Institution: New York University Sackler Institute  
 Home Institution: UC Berkeley  
 Co-Authors: Eva Hernando and Raffaella Di Micco, New York University - BioMedical Sciences  
 BB

**Ashley Lowery..... 5:15 PM, Belltown**

Presentation Title: Surveillance of Youth Tobacco Involvement Using Google Trends  
 Research Mentor: Patricia Cavazos  
 Research Institution: Washington University in St. Louis  
 Home Institution: Jackson State University  
 Co-Authors: Patricia Cavazos-Rehg, Melissa Krauss and Laura Bierut, Washington University in St. Louis  
 SS

**Peter Lowrie ..... 3:15 PM, High Ridge**

Presentation Title: X-Ray Vision: Using X-Ray Interference Patterns to Track the Growth of Silicon Oxide Layers  
 Research Mentor: Fred Walker  
 Research Institution: Yale University  
 Home Institution: Furman University  
 Co-Authors: Fred Walker, Yale University  
 PS

**Jeffrey Luery .....11:30 AM, Glen III**

Presentation Title: Diurnal Changes of Neuron Excitability Within the Suprachiasmatic Nucleus Using Voltage-Sensitive Dye Imaging  
 Research Mentor: Greg Carlson  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Pennsylvania  
 Co-Authors: Jason Gerstner, Rachel White and Greg Carlson, University of Pennsylvania  
 AB

**Claudio Macias ..... 2:45 PM, Glen I**

Presentation Title: Self-assembled Supramolecular Nanobelts for Antibiotic Delivery  
 Research Mentor: Honggang Cui  
 Research Institution: Johns Hopkins University  
 Home Institution: University of Texas at San Antonio  
 Co-Authors: Honggang Cui and Yi-an Lin, Johns Hopkins University  
 AB

**Katryna Mahoney .....5:00 PM, Springdale II**

Presentation Title: Black Activists in 'White Africa': Exploring sub-Saharan Migrant-Activism in Morocco  
 Research Mentor: Keisha-Khan Perry  
 Research Institution: Brown University  
 Home Institution: Spelman College  
 Co-Authors: Keisha-Khan Perry, Brown University  
 SS

**Ahmed Malik .....4:45 PM, Alder**

Presentation Title: Role of Huntington's Disease Protein in Translation  
 Research Mentor: Naoko Tanese  
 Research Institution: New York University Sackler Institute  
 Home Institution: Indiana University Purdue University  
 Co-Authors: Naoko Tanese, New York University - BioMedical Sciences  
 AB

**Shenee' Martin .....4:45 PM, Aspen I**

Presentation Title: The Study of TDP-1 and FUST-1 in *C. elegans* to Understand Their Role in Amyotrophic Lateral Sclerosis  
 Research Mentor: Christopher Link  
 Research Institution: University of Colorado Boulder  
 Home Institution: University of the Virgin Islands  
 Co-Authors: Christopher Link and Ilana Pena-Gonzalez, University of Colorado at Boulder  
 BB

**Brian Matilla ..... 3:00 PM, Westover**

Presentation Title: Convection Initiation along the Rocky Mountain Front Range  
 Research Mentor: Katja Friedrich  
 Research Institution: University of Colorado Boulder  
 Home Institution: Florida International University  
 Co-Authors: Katja Friedrich, University of Colorado at Boulder  
 ES

**Matthew McCauley .....4:00 PM, Waterside**

Presentation Title: Talking About God: A Univocal Approach  
 Research Mentor: Delia Fara  
 Research Institution: Princeton University  
 Home Institution: Johns Hopkins University  
 Co-Authors: Delia G. Fara, Princeton University  
 PE

**Danielle McColgan .....3:45 PM, Cove I**

Presentation Title: Historicizing Health Promotion:  
Anti-Drug Prevention in New York City From  
1978-1989  
Research Mentor: Samuel Roberts  
Research Institution: Columbia University  
Home Institution: Smith College  
Co-Authors: Samuel K. Roberts, Columbia University  
HU

**Shayna McCormack.....3:45 PM, Springdale II**

Presentation Title: Bipolar Disorder and Medicinal  
Nonadherence  
Research Mentor: Karen Weaver  
Research Institution: Princeton University  
Home Institution: Howard University  
Co-Authors: Kenneth Norman, Princeton University  
SS

**Luis Millán-Barea ..... 11:30 AM, Elm I**

Presentation Title: Francisella Infectivity Potentiator  
Protein B FipB, and FipA are Important Protectors  
Against Incorrect Disulfide Bond Formation  
Caused by Copper Stress in Francisella novicida  
Research Mentor: Barbara Mann  
Research Institution: University of Virginia School of  
Medicine  
Home Institution: UPR-Mayaguez  
Co-Authors: Barbara Mann, University of Virginia -  
BioMedical Sciences  
AB

**Carrie Moore..... 2:45 PM, Cove II**

Presentation Title: Fitting into the Story: Western  
Romance and Blackness in Toni Morrison's "Tar  
Baby"  
Research Mentor: Rebecca Wanzo  
Research Institution: Washington University in St. Louis  
Home Institution: University of Southern California  
Co-Authors: Rebecca Wanzo, Washington University in  
St. Louis  
HU

**Bryan Morales.....12:00 PM, Glen II**

Presentation Title: Assessing the Effects of Sleep  
Homeostasis in Activity-Dependent Plasticity: The  
Spatiotemporal Expression of Plasticity-Related  
Proteins Within a Sleep Deprivation Study Using  
the Model Organism *Mus musculus*  
Research Mentor: Marcos Frank  
Research Institution: University of Pennsylvania  
Home Institution: UPR-Rio Piedras  
Co-Authors: Marcos Frank, University of Chicago; Adam  
Watson and Nikolai Zapertov, University of Pennsylvania  
BB

**Isabel Morgan..... 11:30 AM, Glen II**

Presentation Title: Socioeconomic Status and Child  
Cognitive Outcomes at Age 7; Maternal Cortisol as  
a Possible Mediator  
Research Mentor: Stephen Buka  
Research Institution: Brown University  
Home Institution: Mount Holyoke College  
Co-Authors: Stephen Buka, Rachel Scagos and  
Samantha Rosenthal, Brown University  
AB

**Alexis Morris..... 3:00 PM, High Ridge**

Presentation Title: Description of the Behaviors and  
Electron Correlation in  $\text{LaNiO}_3$  and  $\text{NdNiO}_3$   
Through First Principles Theory  
Research Mentor: Sohrab Ismail-Beigi  
Research Institution: Yale University  
Home Institution: Truman State University  
Co-Authors: Sohrab Ismail-Beigi and Andrei  
Malashevich, Yale University  
PS

**Andrew Morton .....5:30 PM, Glen II**

Presentation Title: Targeting HSR1 Affects the Heat  
Shock Response in Human Brain Cancer Cells  
Research Mentor: Evgeny Nudler  
Research Institution: New York University  
Sackler Institute  
Home Institution: Michigan State University  
Co-Authors: Evgeny Nudler and Anissa Igoudjil, New  
York University - BioMedical Sciences  
BB

**Ariel Mosley ..... 5:45 PM, Cove II**

Presentation Title: Why Can't I be Sexy, Smart,  
and Beautiful Enough?: Examining Women's  
Internalization of Stigma  
Research Mentor: John Dovidio  
Research Institution: Yale University  
Home Institution: CSU Sacramento  
Co-Authors: Jack Dovidio, Yale University  
SS

**Dana Muñiz.....4:45 PM, Cove I**

Presentation Title: The Culture of Work: The Economy  
of the Sugar Mills and Company Towns at the  
Caribbean Basin in the 20th Century  
Research Mentor: Jeremy Adelman  
Research Institution: Princeton University  
Home Institution: UPR-Rio Piedras  
Co-Authors: Jeremy Adelman, Princeton University  
SS



**Robert Myers..... 12:15 PM, Glen I**

Presentation Title: Neoplastic Transformation of Neural Precursor Cells to Model Glioblastoma Multiforme (GBM)

Research Mentor: Viviane Tabar

Research Institution: Weill Cornell Medical College

Home Institution: College of New Jersey

Co-Authors: Viviane Tabar and Kosuke Funato, Memorial Sloan-Kettering Cancer Center

AB

**Aaron Neal .....5:15 PM, Glen II**

Presentation Title: mRNA Expression of Clock Genes Per1 and Bmal in the Hippocampus and the Amygdala

Research Mentor: Robert Spencer

Research Institution: University of Colorado Boulder

Home Institution: North Carolina A&T State University

Co-Authors: Robert Spencer and Lauren Chun, University of Colorado at Boulder

BB

**Hailey Neubauer .....5:15 PM, Waterside**

Presentation Title: The Influence of the War on Drugs on Felons' Voting Rights Legislation and Voter Turnout in the South

Research Mentor: Claudine Gay

Research Institution: Harvard University

Home Institution: University of Oklahoma

Co-Authors: Claudine Gay, Harvard University, Dept. of Government

PE

**Mary Ng..... 2:45 PM, Westover**

Presentation Title: Characterizing Precipitation in East Africa

Research Mentor: Katja Friedrich

Research Institution: University of Colorado Boulder

Home Institution: Barnard College

Co-Authors: Katja Friedrich, University of Colorado at Boulder

ES

**Daniel Nissani ..... 3:00 PM, Belltown**

Presentation Title: Characterizing Forms of Mathematical Discourse

Research Mentor: Richard Lehrer

Research Institution: Vanderbilt University

Home Institution: Northwestern University

Co-Authors: Richard Lehrer and Amy Holmes, Vanderbilt University

SS

**Kasiemobi Nwaedozie .....5:45 PM, Alder**

Presentation Title: Methamphetamine, Inflammation and the Ubiquitin/Proteasome Pathway: Impact on Neurodegeneration

Research Mentor: Maria Pereira

Research Institution: Hunter College

Home Institution: Clark University

Co-Authors: Teneka Louis and Maria Figueiredo-Pereira, Hunter College

BB

**Onyemaechi Nwanaji-Enwerem ..... 3:30 PM, Elm I**

Presentation Title: The Biological Significance of Soluble Co-Inhibitory Receptors, B-/T-Lymphocyte Attenuator (BTLA), and its Ligand, Hepatitis Virus Entry Protein (HVEM), in the Development of Sepsis in Mice

Research Mentor: Alfred Ayala

Research Institution: Brown University

Home Institution: University of North Carolina Chapel Hill

Co-Authors: Alfred Ayala and Yaping Chen, Brown University

BB

**Diana Nwokoye.....12:15 PM, Glen II**

Presentation Title: Spatial and Temporal Expression Patterns of MBD2: Protein Implicated in Autistic-like Phenotypes

Research Mentor: Zhaolan Zhou

Research Institution: University of Pennsylvania

Home Institution: University of Florida

Co-Authors: Zhaolan Zhou and Kathleen Wood, University of Pennsylvania

BB

**N'Kosi Oates..... 5:00 PM, Springdale I**

Presentation Title: Geographic Neighborhood Poverty and Political Participation

Research Mentor: Dorian Warren

Research Institution: Columbia University

Home Institution: University of Delaware

Co-Authors: Dorian T. Warren, Robert Y. Shapiro and Narayani LaSala Blanco, Columbia University

PE

**Michael Okoreeh..... 4:00 PM, Elm I**

Presentation Title: Novel Regulators of Early B Cell Survival and Proliferation

Research Mentor: Keith Hamel

Research Institution: University of Chicago

Home Institution: UC Riverside

Co-Authors: Keith Hamel and Marcus Clark, University of Chicago

BB

**Michelle Okoreeh..... 11:15 AM, Alder**

Presentation Title: MTAP Inactivation in Cancer  
 Research Mentor: Olufunmilayo Olopade  
 Research Institution: University of Chicago  
 Home Institution: UC Riverside  
 Co-Authors: Olufunmilayo Olopade and Jim  
 Fackenthal, University of Chicago; Robert Chilcote,  
 University of California, Irvine  
 BB

**Uchenna Okoro..... 11:15 AM, Elm I**

Presentation Title: Characterization and Screening  
 of Monoclonal Antibodies Targeting Abnormal  
 Protein Conformations  
 Research Mentor: Thomas Wisniewski  
 Research Institution: New York University Sackler  
 Institute  
 Home Institution: University of Maryland, Baltimore  
 County  
 Co-Authors: Thomas Wisniewski, New York University  
 - BioMedical Sciences  
 AB

**Bosoye Olateru-Olagbegi ..... 3:15 PM, Glen II**

Presentation Title: The Use of Sodium Nitrite in the  
 Reversal of Vascular Dysfunction  
 Research Mentor: Douglas Seals  
 Research Institution: University of Colorado Boulder  
 Home Institution: Michigan State University  
 Co-Authors: Douglas Seals, Allison DeVan and Jessica  
 Santos, University of Colorado at Boulder  
 AB

**Babajide Oluwadare..... 11:30 AM, Elm II**

Presentation Title: Determining the Contribution of  
 Fibroblast Connexin Expression to the Conduction  
 Properties of Injured Cardiac Tissue  
 Research Mentor: Gregory Morley  
 Research Institution: New York University Sackler  
 Institute  
 Home Institution: University of Georgia  
 Co-Authors: Gregory Morley and Vanessa Mahoney,  
 New York University - BioMedical Sciences  
 BB

**Hassan Omar..... 3:15 PM, Long Ridge**

Presentation Title: Development of Bulk Metallic  
 Glasses and Experimental Calibration of Blow  
 Molding Procedures  
 Research Mentor: Jan Schroers  
 Research Institution: Yale University  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Jan Schroers, Yanhui Liu and Sung Woo  
 Sohn, Yale University  
 EN

**Laura Ortiz..... 3:15 PM, Cove II**

Presentation Title: Witchcraft and Gender in  
 Shakespeare's Tragedies and Histories  
 Research Mentor: Rebeca Bushnell  
 Research Institution: University of Pennsylvania Arts &  
 Sciences  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Rebecca Bushnell, University of  
 Pennsylvania  
 HU

**Angel Ortiz Rodriguez ..... 11:15 AM, Aspen I**

Presentation Title: Interferon-gamma Mediated  
 Degradation of HemeOxygenase-1 (HO-1) Via  
 Induction of the Immunoproteasome in Human  
 Primary Macrophages: Implications for HIV  
 Associated Neurocognitive Disorder  
 Research Mentor: Dennis Kolson  
 Research Institution: University of Pennsylvania  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Suren Ambegaokar, Alexander Gill and  
 Dennis Kolson, University of Pennsylvania  
 AB

**Adewola Osunsade..... 2:45 PM, Aspen II**

Presentation Title: Assessing the Functionality of  
 Protein Kinase C Isozymes Using Wildtype and  
 Constitutively Active Forms of PKC-alpha and  
 PKC-epsilon  
 Research Mentor: Shuibing Chen  
 Research Institution: Weill Cornell Medical College  
 Home Institution: University of the District of  
 Columbia  
 Co-Authors: Sadaf Amin, Weill Cornell Graduate  
 School of Medical Sciences; Shuibing Chen,  
 Weill Cornell/Rockefeller/Sloan-Kettering Tri-  
 Institutional  
 BB

**Alfonso Pacheco..... 5:45 PM, Springdale I**

Presentation Title: Political Opinion and Congress:  
 A Study on the Failure of Comprehensive  
 Immigration Reform  
 Research Mentor: Robert Shapiro  
 Research Institution: Columbia University  
 Home Institution: Saint Mary's University  
 Co-Authors: Robert Shapiro and Narayani Lasala  
 Blanco, Columbia University  
 PE

**Coralie Pardo .....4:00 PM, Springdale II**

Presentation Title: Sex Differences in CREB  
Expression After Administration of Cocaine,  
Methamphetamine, and Cannabinoids  
Research Mentor: Vanya Quinones-Jenab  
Research Institution: Hunter College  
Home Institution: Amherst College  
Co-Authors: Vanya Quinones-Jenab and Courtney  
Daly, Hunter College  
SS

**StellJo Passes .....4:45 PM, Westover**

Presentation Title: Radon Project  
Research Mentor: Neva TallBear  
Research Institution: Montana State University  
-Bozeman  
Home Institution: Little Big Horn College  
Co-Authors: Neva Tall Bear, Little Big Horn College  
ES

**Madeline Pelz ..... 12:30 PM, Glen I**

Presentation Title: Imaging and Characterization of  
Hippocampal Circuits Implicated in Temporal  
Lobe Epilepsy  
Research Mentor: Douglas Coulter  
Research Institution: University of Pennsylvania  
Home Institution: Skidmore College  
Co-Authors: Douglas Coulter, Shanti Frausto and Mary  
Ellen Kelly, University of Pennsylvania  
AB

**Fei Peng ..... 5:00 PM, Elm I**

Presentation Title: The Role of Aldosterone in  
Endothelial Cell Migration  
Research Mentor: Iris Jaffe  
Research Institution: Tufts University BioMedical  
Sciences  
Home Institution: Smith College  
Co-Authors: Iris Jaffe and Kathleen Barrett, Tufts  
University School of Graduate Biomedical Sciences  
AB

**Rafael Perez.....3:30 PM, Springdale II**

Presentation Title: The Effects of Social Stress on  
HDAC6-Related Proteins  
Research Mentor: Olivier Berton  
Research Institution: University of Pennsylvania  
Home Institution: York College of Pennsylvania  
Co-Authors: Rafael Perez, York College of Pennsylvania;  
Jeanine Jochems and Olivier Berton, University of  
Pennsylvania  
SS

**Yaritza Perez.....3:30 PM, Waterside**

Presentation Title: Learned Helplessness or Tradition:  
An Examination of the Transgenerational Use  
and Perspective of Corporal Punishment and  
Authoritarianism in African American and  
Hispanic Families  
Research Mentor: Karen Jackson-Weaver  
Research Institution: Princeton University  
Home Institution: University of Rochester  
Co-Authors: Joel Cooper, Princeton University  
SS

**Gordon Pheribo .....3:00 PM, Aspen I**

Presentation Title: Optimizing shRNA to Target Specific  
RNA-Binding Protein Transcripts  
Research Mentor: Stephen Liebhaber  
Research Institution: University of Pennsylvania  
Home Institution: Carnegie Mellon University  
Co-Authors: Xinjun Ji and Stephen Liebhaber,  
University of Pennsylvania  
BB

**Nicholas Pizzi..... 4:00 PM, Aspen II**

Presentation Title: Analysis of Hey1 Expression in  
Lamprey Pharyngeal Arches  
Research Mentor: Daniel Medeiros  
Research Institution: University of Colorado Boulder  
Home Institution: University of New Hampshire  
(Durham)  
Co-Authors: Daniel Medeiros and Maria Cattell,  
University of Colorado at Boulder  
BB

**Darien Pollock ..... 2:45 PM, Springdale I**

Presentation Title: 21st Century American Street  
Philosophy and the Philosophy of Mass  
Incarceration  
Research Mentor: Michael Weisberg  
Research Institution: University of Pennsylvania  
Home Institution: Morehouse College  
Co-Authors: Michael Weisberg and Alexander  
Guerrero, University of Pennsylvania  
HU

**Daniel Powell ..... 2:45 PM, Glen III**

Presentation Title: Elucidating Cellular and Molecular  
Mechanisms of Estrogen Dependent TAF4B  
Upregulation  
Research Mentor: Richard Frieman  
Research Institution: Brown University  
Home Institution: University of Utah  
Co-Authors: Jennifer Wardell and Richard Freiman,  
Brown University  
BB

**Carlos Puentes ..... 5:30 PM, Belltown**

Presentation Title: Does Cognitive Vulnerability to Sleep Loss Relate to Mood Response?  
 Research Mentor: David Dinges  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Central Florida  
 Co-Authors: David Dinges, University of Pennsylvania  
 SS

**Natalia Quijano-Cardé ..... 12:15 PM, Alder**

Presentation Title: MR-Visible Lipids as a Biomarker of Cell Stress in Prostate Cancer Cells Treated With Anticancer Drugs  
 Research Mentor: Edward J. Delikatny  
 Research Institution: University of Pennsylvania  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Michael Chiorazzo, Anatoliy Popov and Edward Delikatny, University of Pennsylvania  
 AB

**Michael Rabadi ..... 3:15 PM, Belltown**

Presentation Title: Exploring the Temporal Limits of Visual Processing of Familiar and Unfamiliar Objects at the Subordinate-Category Level  
 Research Mentor: David Sheinberg  
 Research Institution: Brown University  
 Home Institution: New York University  
 Co-Authors: David L. Sheinberg and Samuel L. Johnson, Brown University  
 SS

**Liorimar Ramos Medina ..... 3:15 PM, Alder**

Presentation Title: Role of Hyperacetylation of Histone H4K12 in Modulating Executive Cognitive Functioning in Mice Exposed to Early Life Stress  
 Research Mentor: Claudia Schmauss  
 Research Institution: Columbia University  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Claudia Schmauss, Columbia University  
 BB

**Stephon Richardson..... 5:00 PM, Waterside**

Presentation Title: The Black New Left: African-American Radical Groups of the Late 1950s to the Early '60s  
 Research Mentor: Keisha-Kahn Perry  
 Research Institution: Brown University  
 Home Institution: Clark University  
 Co-Authors: Keisha-Khan Y. Perry, Brown University  
 HU

**Karen Rico..... 3:45 PM, Aspen II**

Presentation Title: Relationship Between Acyl-CoA Thioesterase 7 and Saturated Fatty Acid-Induced JNK Activation  
 Research Mentor: Michael Wolfgang  
 Research Institution: Johns Hopkins University  
 Home Institution: University of Arizona  
 Co-Authors: Karen Rico, Caitlyn Bowman and Michael Wolfgang, Johns Hopkins University  
 BB

**Mayra Rios ..... 3:00 PM, Elm II**

Presentation Title: Expression Level of Transient Receptor Potential Vanilloid-4 (TRPV4) in Mice During Lung Development  
 Research Mentor: Juan Esteban Sanchez  
 Research Institution: Brown University  
 Home Institution: Canada College  
 Co-Authors: Juan Esteban Sanchez and Yulian Wang, Brown University  
 AB

**Adrian Rivera..... 3:30 PM, Aspen I**

Presentation Title: siRNA Library Screen of ZMYND11 Interacting Partners  
 Research Mentor: Roger Greenberg  
 Research Institution: University of Pennsylvania  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Laura Butler, University of Pennsylvania; Katri Pylkas, University of Oulu, Finland; Roger Greenberg, University of Pennsylvania  
 BB

**Stephanie Rivera Morales..... 3:00 PM, Elm I**

Presentation Title: Plasmodium falciparum Strain Specific Malaria Infection Symptoms and Immunity  
 Research Mentor: Oralee Branch  
 Research Institution: New York University  
 Sackler Institute  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Oralee Branch, New York University - BioMedical Sciences  
 BB

**Viviana Rivera-Burgos ..... 4:45 PM, Springdale I**

Presentation Title: Did Hurricane Sandy Dent the Vote? Evidence From a Large-Scale Study in New York City  
 Research Mentor: Robert Shapiro  
 Research Institution: Columbia University  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Robert Shapiro and Narayani LaSala Blanco, Columbia University  
 PE

**Veronica Rivera-Negron.....4:45 PM, Springdale II**

Presentation Title: (De)Composing the Self: Embodied Imagery, Theatrical Space and Gender in the Performance of Teresa Hernández  
 Research Mentor: Marcial Godoy-Anativia  
 Research Institution: New York University  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Marcial Godoy-Anativia, Hemispheric Institute of Performance and Politics  
 HU

**Julian Roby.....5:00 PM, Alder**

Presentation Title: Immature Neuron Proliferation in Correlation to Cognition in Aging Vervet Monkeys  
 Research Mentor: Mark Burke  
 Research Institution: Howard University  
 Home Institution: Wiley College  
 Co-Authors: Mark Burke, Howard University  
 AB

**Emily Rogers .....3:30 PM, Springdale I**

Presentation Title: “Invisible Wounds” or Invisible Politics? Neoliberalism, Post-Traumatic Stress Disorder, and Imagined US Vulnerability in the “War on Terror”  
 Research Mentor: Sharon Marcus  
 Research Institution: Columbia University  
 Home Institution: Sarah Lawrence College  
 Co-Authors: Sharon Marcus, Columbia University  
 HU

**Miata Rogers .....4:45 PM, Waterside**

Presentation Title: The Effect of Academic Resources on College Retention Rates  
 Research Mentor: Karen Jackson-Weaver  
 Research Institution: Princeton University  
 Home Institution: Oberlin College  
 Co-Authors: Karen Jackson-Weaver, Princeton University  
 SS

**Melisa Rojas .....2:45 PM, Springdale II**

Presentation Title: Examining Reciprocal Communication in Youth with Autism Spectrum Disorders Following a Peer-Mediated Theatre Intervention  
 Research Mentor: Blythe Corbett  
 Research Institution: Vanderbilt University  
 Home Institution: Pomona College  
 Co-Authors: Blythe Corbett and David Simon, Vanderbilt University  
 SS

**Franklin Roman-Rodriguez..... 3:30 PM, Glenbrook**

Presentation Title: Bacterial Cultures From Tadpoles of the Bullfrog *Lithobates catesbeianus* (Previously *Rana catesbeiana*)  
 Research Mentor: Valerie McKenzie  
 Research Institution: University of Colorado Boulder  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Doug Woodhams and Valerie McKenzie, University of Colorado at Boulder  
 ES

**Joshua Rosario Sepulveda .....11:45 AM, Elm I**

Presentation Title: Structure Analysis of Human Red Cell Spectrin Using Homobifunctional Crosslinkers and High Resolution Mass Spectrometry  
 Research Mentor: David Speicher  
 Research Institution: University of Pennsylvania  
 Home Institution: UPR-Cayey  
 Co-Authors: David Speicher, Sandra Harper and Sira Sriswasdi, University of Pennsylvania  
 BB

**Marlen Rosas.....5:30 PM, Springdale I**

Presentation Title: Protest in Perspective: Prospects of Continuity in Popular Mobilizations in Brazil  
 Research Mentor: Jeremy Adelman  
 Research Institution: Princeton University  
 Home Institution: Columbia University  
 Co-Authors: Jeremy Adelman, Princeton University  
 HU

**Ornella Rutagarama .....5:45 PM, Glen III**

Presentation Title: Detection and Analysis of Genomic Mutations Linked to APOBEC-Mediated Cytidine Deamination  
 Research Mentor: Susan Ross  
 Research Institution: University of Pennsylvania  
 Home Institution: Rochester Institute of Technology  
 Co-Authors: Ornella Rutagarama, Spyridon Stavrou and Susan S. Ross, University of Pennsylvania  
 AB

**Rochelle Sadeghi.....3:30 PM, Glen III**

Presentation Title: Spontaneous Changes in Immortalized Mammalian Cell Lines Result in Cell Competition  
 Research Mentor: Ben Stanger  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Central Florida  
 Co-Authors: Alfredo Penzo-Méndez and Ben Z. Stanger, University of Pennsylvania  
 BB



**Timothy Salazar ..... 3:15 PM, Glenbrook**

Presentation Title: Analyzing Biocontrol Capability;  
Mecinus janthiniformis and Linaria dalmatica: A  
Blessed Communion? (ABCs of Weevils and  
Toadflax)  
Research Mentor: Timothy Seastedt  
Research Institution: University of Colorado Boulder  
Home Institution: University of Chicago  
Co-Authors: Timothy Seastedt, University of Colorado  
at Boulder  
ES

**Alicia Sanchez ..... 11:45 AM, Glen I**

Presentation Title: Arginine Vasopressin Neurons  
in Suprachiasmatic Nucleus of Transgenic Mice  
Deficient in FGF8 and FGFR1  
Research Mentor: Pei-San Tsai  
Research Institution: University of Colorado Boulder  
Home Institution: Saint Mary's University  
Co-Authors: Scott Kavanaugh, University of Colorado  
at Boulder  
BB

**Gabriel Augusto Sanchez ..... 3:15 PM, Springdale I**

Presentation Title: Poverty and Race in the United  
States  
Research Mentor: Matthew Snipp  
Research Institution: Stanford University  
Home Institution: UCLA  
Co-Authors: Matthew Snipp, Stanford University  
School of Humanities & Sciences  
SS

**Kathryn Sanchez ..... 3:45 PM, Alder**

Presentation Title: Assessing Hippocampal Metabolism  
of MPS VII Mice by High Resolution Respirometry  
Research Mentor: John Wolfe  
Research Institution: University of Pennsylvania  
Home Institution: New Mexico State University  
Co-Authors: Michael Parente, Erzsebet Polyak and John  
Wolfe, University of Pennsylvania  
BB

**Carlos Santos-Perez ..... 12:30 PM, Aspen II**

Presentation Title: DAX1 and WT1: Novel Regulatros  
of the LHB Transcription  
Research Mentor: Margaret Shupnik  
Research Institution: University of Virginia School  
of Medicine  
Home Institution: UPR-Cayey  
Co-Authors: Margaret Shupnik, Josefa Andrade  
and Debalina Bagchi, University of Virginia -  
BioMedical Sciences  
BB

**Sarah Schrader ..... 4:00 PM, Elm II**

Presentation Title: Modeling IDH1 Mutations in Neural  
Cell Types Derived from Human Embryonic Stem  
Cells  
Research Mentor: Dimitris Placantonakis  
Research Institution: New York University Sackler  
Institute  
Home Institution: Western Kentucky University  
Co-Authors: Aram S. Modrek, Thomas A. Neubert and  
Dimitris G. Placantonakis, New York University -  
BioMedical Sciences  
BB

**Amber Shaffer ..... 4:45 PM, Alder**

Presentation Title: Does Depression Lead to Incident  
Diabetes in African Americans?: The Jackson Heart  
Study  
Research Mentor: Wen-Chih Hank WU  
Research Institution: Brown University  
Home Institution: Tougaloo College  
Co-Authors: Tracey Traveria, Annie Gjelsvik and Wen-  
chih Wu, Brown University  
AB

**Zakariyah Sharif-Sidi ..... 12:15 PM, Aspen II**

Presentation Title: Bioinformatic Analysis of the  
Transcription Factors Involved in Cochlear Synapse  
Formation  
Research Mentor: Jianxin Bao  
Research Institution: Washington University in St. Louis  
Home Institution: University of Chicago  
Co-Authors: Jianxin Bao and Ruqiang Liang,  
Washington University in St. Louis  
BB

**Tyler Sharp ..... 4:00 PM, Cove II**

Presentation Title: Love Prejudice: An Underestimated  
Social Problem  
Research Mentor: Nicole Shelton  
Research Institution: Princeton University  
Home Institution: University of Delaware  
Co-Authors: Nicole Shelton, Princeton University  
SS

**Andrea Shergalis ..... 3:00 PM, Glen II**

Presentation Title: Stabilities of Rhenium Complexes  
Formed by N2S2 and N3S Ligands  
Research Mentor: Lynn Francesconi  
Research Institution: Hunter College  
Home Institution: University of Akron  
Co-Authors: Lynn Francesconi and Samuel Groveman,  
Hunter College  
AB

**Javier Sierra-Pagán ..... 11:45 AM, Elm II**

Presentation Title: Characterization of the Role of Hdac3 and Hopx in Cardiac Cell Differentiation In Vitro

Research Mentor: Jonathan Epstein

Research Institution: University of Pennsylvania

Home Institution: UPR-Rio Piedras

Co-Authors: Kurt A. Engleka and Jonathan A. Epstein, University of Pennsylvania

BB

**LaTonya Simon .....2:45 PM, Glen II**

Presentation Title: Synthesis and Characterization of Photodegradable Oxime Derived Microparticles

Research Mentor: LaTonya Simon

Research Institution: University of Colorado Boulder

Home Institution: University of Maryland, Baltimore County

Co-Authors: Kristi Anseth and Michael Fleming, University of Colorado at Boulder

AB

**Andrei Smid ..... 11:45 AM, Alder**

Presentation Title: Skp2 E3-ligase Inhibitors as Probes for Cell Cycle Analysis in Cancer

Research Mentor: Leslie Gold

Research Institution: New York University Sackler Institute

Home Institution: Jacobs University Bremen

Co-Authors: Leslie Gold and Savvas Pavlides, New York University - BioMedical Sciences

BB

**Michael Snyder.....5:45 PM, Elm II**

Presentation Title: Inducible, Reversible Depletion of Endogenous Proteins in Mammalian Cells

Research Mentor: Andrew Holland

Research Institution: Johns Hopkins University

Home Institution: Boston University

Co-Authors: Andrew Holland, Johns Hopkins University

BB

**Folasade Sofela.....11:15 AM, Glen I**

Presentation Title: Effects of Hypoxia on gamma-Secretase Activity in Neuronal Cells

Research Mentor: Yueming Li

Research Institution: Weill Cornell Medical College

Home Institution: Harvard University

Co-Authors: Yueming Li and Danica Chiu, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional

BB

**Emilio Soto..... 12:15 PM, Glen III**

Presentation Title: The Role of Sensory Cortex in Cue-induced Relapse to Drug Addiction

Research Mentor: Robert Froemke

Research Institution: New York University Sackler Institute

Home Institution: UPR-Rio Piedras

Co-Authors: Robert Froemke and Kishore Kuchibhotla, New York University - BioMedical Sciences

BB

**Zoe Spafford ..... 11:45 AM, Glen II**

Presentation Title: The Spatial Organization of Skilled Behavior Within an Identified Neural Circuit

Research Mentor: Micheal Long

Research Institution: New York University Sackler Institute

Home Institution: University of Maryland, Baltimore County

Co-Authors: Michael Long, New York University - BioMedical Sciences

AB

**Ryan Spector .....2:45 PM, Elm II**

Presentation Title: The Role of CDC25A in Neuronal Apoptosis

Research Mentor: Lloyd Greene

Research Institution: Columbia University

Home Institution: Rochester Institute of Technology

Co-Authors: Lloyd Greene and Stav Kemeny, Columbia University

BB

**Vaughn Spurrier..... 4:00 PM, Glen I**

Presentation Title: NMR Studies of the Q5A, G6S Unmyristylated Feline Immunodeficiency Virus Matrix Protein

Research Mentor: Michael Summers

Research Institution: University of Maryland, Baltimore County

Home Institution: Temple University

Co-Authors: Michael Summers and Lola Brown, University of Maryland, Baltimore County

BB



**Phillip Stephens .....3:30 PM, Elm II**

Presentation Title: Understanding the Genetic Pathways  
Controlling Foraging Behavior in *C. Elegans* Using  
Double Mutant Analysis

Research Mentor: Cori Bargmann

Research Institution: Weill Cornell Medical College

Home Institution: Morehouse College

Co-Authors: Steven Flavell and Cori Bargmann,  
Weill Cornell/Rockefeller/Sloan-Kettering Tri-  
Institutional

BB

**Anna Stephenson ..... 2:45 PM, High Ridge**

Presentation Title: Manipulating Atoms to Create  
Artificial Materials

Research Mentor: Hari Manoharan

Research Institution: Stanford University

Home Institution: University of Notre Dame

Co-Authors: Hari Manoharan, Stanford University  
School of Humanities & Sciences; Kenjiro Gomes,  
University of Notre Dame

PS

**Shanira Suazo..... 5:30 PM, Glen III**

Presentation Title: Development of Bioorthogonal  
Profiling of DNA Methylation (BPDM)  
Technology to Study the Mechanisms of DNA-  
Methyltransferases in the Epigenome

Research Mentor: Minkui Luo

Research Institution: Weill Cornell Medical College

Home Institution: Clarkson University

Co-Authors: Minkui Luo and Kabirul Islam, Memorial  
Sloan Kettering Cancer Center

BB

**Nakul Talathi..... 5:15 PM, Glen I**

Presentation Title: NRF2 Expression in Diabetic Wound  
Healing Tissue

Research Mentor: Daniel Ceradini

Research Institution: New York University Sackler  
Institute

Home Institution: University of Georgia

Co-Authors: Daniel Ceradini, New York University -  
BioMedical Sciences

AB

**Joshua Taliaferro ..... 5:15 PM, Elm I**

Presentation Title: Utilizing Microfluidics to Study  
Platelet Activity and Thrombus Formation In Vitro

Research Mentor: Lawrence Brass

Research Institution: University of Pennsylvania

Home Institution: Princeton University

Co-Authors: Lawrence Brass, John Welsh and Sang  
Min, University of Pennsylvania

AB

**MacKenzie Taylor ..... 5:15 PM, Aspen II**

Presentation Title: Novel Bisphosphonates and  
Osteoblast Differentiation and Mineralization

Research Mentor: Thorsten Kirsch

Research Institution: New York University Sackler  
Institute

Home Institution: Michigan State University

Co-Authors: Thorsten Kirsch, New York University -  
BioMedical Sciences

AB

**Ephrath Tesfaye..... 12:30 PM, Glen III**

Presentation Title: Changes in the Synaptic Plasticity  
of the Hypothalamic Paraventricular Nucleus  
Following Hypertension in the AOF Menopausal  
Mouse Model

Research Mentor: Teresa Milner

Research Institution: Weill Cornell Graduate School

Home Institution: Cornell University

Co-Authors: Teresa Milner and Jose Lopes, Weill  
Cornell Graduate School of Medical Sciences

BB

**Phillip Thomas.....3:15 PM, Aspen I**

Presentation Title: An Unbiased Screen Identifies  
New Pfl Interactors With Biological Significance  
in Chromatin Modification and Transcriptional  
Control

Research Mentor: Gregory David

Research Institution: New York University  
Sackler Institute

Home Institution: North Carolina A&T State University

Co-Authors: Richard Graveline, Saie Yoin Choi and  
Gregory David, New York University - BioMedical  
Sciences

BB

**Selamawi Tilahun ..... 3:00 PM, Glen III**

Presentation Title: Analysis of Sperm Telomere Length in Men With Clinical Infertility and Its Extensive Variation Within Specimens

Research Mentor: David Keefe

Research Institution: New York University

Sackler Institute

Home Institution: James Madison University

Co-Authors: Danielle Antunes, Keri Kalmbach and David Keefe, New York University - BioMedical Sciences

BB

**George Torres..... 2:45 PM, Long Ridge**

Presentation Title: Deconstructing Graphs and Their Eigenspectra

Research Mentor: Benson Farb

Research Institution: University of Chicago

Home Institution: Harvard University

Co-Authors: Benson Farb, University of Chicago; Abel Mirsak, California Institute of Technology

PS

**Jayilssa Torres..... 3:45 PM, High Ridge**

Presentation Title: Co and Zr oxides/ Si (001) Epitaxial Growth and Surface Analysis: Ultra High Vacuum System Validation

Research Mentor: Eric Altman

Research Institution: Yale University

Home Institution: UPR-Cayey

Co-Authors: Georg Simon and Eric Altman, Yale University

PS

**Raquel Tripp.....3:15 PM, Elm II**

Presentation Title: Separation of Maternal and Fetal Components of Products of Conception (POC) Using Laser Capture Microdissection and Evaluation of Direct PCR for Paternity Testing in Sexual Assault Cases

Research Mentor: Grace Axler-Diperte

Research Institution: New York University Sackler Institute

Home Institution: College of William & Mary

Co-Authors: Zoran Budimlija and Grace Axler-DiPerte, New York City Office of Chief Medical Examiner

AB

**Kevin Trujillo..... 4:00 PM, Westover**

Presentation Title: Developing Photovoltaic Cells Using Semiconducting Polymers – Novel Methods of Harvesting Solar Energy

Research Mentor: Luping Yu

Research Institution: University of Chicago

Home Institution: Loyola University of Chicago

Co-Authors: Luping Yu and Luyao Lu, University of Chicago

PS

**Andrew Tuck.....3:30 PM, Cove I**

Presentation Title: Identifying Motivations for Medication Adherence in HIV-Positive Methamphetamine-Using Men Who Have Sex With Men

Research Mentor: Jeffrey Parsons

Research Institution: Hunter College

Home Institution: University of Michigan-Ann Arbor

Co-Authors: Jeffrey Parsons, Tyrel Starks and Leona Hess, Hunter College

SS

**Kyle Tucker..... 12:15 PM, Elm II**

Presentation Title: Cell Cycle Effects of Delta Np63 alpha and SAMD9L on Lung Squamous Cell Carcinoma

Research Mentor: Joaquin Espinosa

Research Institution: University of Colorado Boulder

Home Institution: Lafayette College

Co-Authors: Joaquin Espinosa and Corrie Lynn Gallant-Behm, University of Colorado at Boulder

BB

**Osaze Udeagbala.....3:45 PM, Glen II**

Presentation Title: Searching for Drug Leads: A Live Cytotoxicity Assay Against Giardia lamblia

Research Mentor: Ana Rodriguez

Research Institution: New York University Sackler Institute

Home Institution: Cooper Union

Co-Authors: Ana Rodriguez and Jessey Erath, New York University - BioMedical Sciences

AB

**Camila Uechi..... 11:15 AM, Elm II**

Presentation Title: Investigating the Mechanisms of Atrial Fibrillation Through the Use of Computational Human Atrial Models  
 Research Mentor: David Christini  
 Research Institution: Weill Cornell Medical College  
 Home Institution: University of Maryland, College Park  
 Co-Authors: David Christini and Trine Krogh-Madsen, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional

AB

**Tayler Ulmer ..... 5:15 PM, Cove II**

Presentation Title: African Immigration to America and the Tri-Conscious Identity  
 Research Mentor: Matthew Guterl  
 Research Institution: Brown University  
 Home Institution: Spelman College

SS

**Stephen Vicchio ..... 3:45 PM, Westover**

Presentation Title: A Combinatorial Study of the Dealloying of Au/Ag/Pd Metal Alloys For Improved Fuel Cell Catalysts  
 Research Mentor: Andre Taylor  
 Research Institution: Yale University  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Jinyang Li, Ryan Sekol and Andre Taylor, Yale University

EN

**Joseph Villanueva ..... 5:00 PM, Aspen II**

Presentation Title: Joint Repair: Engineering Tissue Scaffolds Using Polyethylene Glycol Hydrogels  
 Research Mentor: Joseph Villanueva  
 Research Institution: University of Colorado Boulder  
 Home Institution: University of New Mexico  
 Co-Authors: Stephanie J. Bryant, Justine J. Roberts and Mark D. Swartzlander, University of Colorado at Boulder

AB

**Brian Walsh ..... 5:30 PM, Waterside**

Presentation Title: The Association Between Juvenile Arrest, Health Insurance, and Health Care Utilization  
 Research Mentor: Christopher Wildeman  
 Research Institution: Yale University  
 Home Institution: Chaminade University of Honolulu  
 Co-Authors: Christopher Wildeman and Emily Wang, Yale University

SS

**Kelsey Wanhainen.....11:30 AM, Glen I**

Presentation Title: Structural and Biophysical Studies of TREM2 in Neurological Diseases  
 Research Mentor: Tom Brett  
 Research Institution: Washington University in St. Louis  
 Home Institution: Colgate University  
 Co-Authors: Tom Brett, Washington University in St. Louis

BB

**Sagirah Wheeler.....3:45 PM, Waterside**

Presentation Title: Words of Encouragement: Listening to the Past in Order to Prepare for the Future  
 Research Mentor: Amy Hillier  
 Research Institution: University of Pennsylvania Arts & Sciences  
 Home Institution: Morgan State University  
 Co-Authors: Amy Hillier, University of Pennsylvania; Stephanie Boddie, University of Pittsburgh

SS

**Princess Williams ..... 5:15 PM, Springdale I**

Presentation Title: Are More Women Needed in the Congressional Black Caucus?  
 Research Mentor: Matthew Platt  
 Research Institution: Harvard University  
 Home Institution: Jackson State University  
 Co-Authors: Matthew Platt, Harvard University, Dept. of Government

PE

**Sade Williams.....3:15 PM, Waterside**

Presentation Title: Am I Who I Say I Am or What They Say I Am?: Identity Construction in Juvenile Courtroom Proceedings  
 Research Mentor: Carla Shedd  
 Research Institution: Columbia University  
 Home Institution: Middlebury College  
 Co-Authors: Carla Shedd, Columbia University

SS

**Gillian Wood.....5:30 PM, Springdale II**

Presentation Title: The Dangers of Expectant Evaluation: The Problem of Judgment in Washington Square and The Portrait of a Lady  
 Research Mentor: Ross Posnock  
 Research Institution: Columbia University  
 Home Institution: Williams College  
 Co-Authors: Ross Posnock, Columbia University

HU

**Kathryn Wu..... 4:45 PM, Glen III**

Presentation Title: Hypermethylation of CpG Sites  
Upstream of Hexanucleotide Repeat Expansions in  
the C9ORF72 Gene of ALS and FTD Patients  
Research Mentor: Edward Lee  
Research Institution: University of Pennsylvania  
Home Institution: Swarthmore College  
Co-Authors: Edward Lee and Elaine Liu, University of  
Pennsylvania  
AB

**Pauline Xu ..... 12:00 PM, Elm I**

Presentation Title: Quantitative Phosphoproteomic  
Analysis Using High-Resolution Tandem Mass  
Spectrometry  
Research Mentor: Thomas Neubert  
Research Institution: New York University Sackler  
Institute  
Home Institution: University of Maryland,  
Baltimore County  
Co-Authors: Thomas Neubert, Paule Hoedt and Steven  
Blais, New York University - BioMedical Sciences  
BB

**Saiah Yates ..... 12:30 PM, Elm II**

Presentation Title: Phosphorylation of Threonine 45 of  
Histone H3 and the Effects of Alanine and Aspartic  
Acid Mutations  
Research Mentor: Danny Reinberg  
Research Institution: New York University Sackler  
Institute  
Home Institution: University of Maryland,  
Baltimore County  
Co-Authors: Danny Reinberg and Eric Campos, New  
York University - BioMedical Sciences  
BB

**Amy Zhang..... 12:00 PM, Glen I**

Presentation Title: A Quirky Inhibitory Circuit in the  
Cerebral Cortex  
Research Mentor: Barry Connors  
Research Institution: Brown University  
Home Institution: Carnegie Mellon University  
Co-Authors: Arthur Sugden, Barry Connors and  
Saundra Patrick, Brown University  
BB

## POSTER PRESENTATIONS BY NUMBER

BB = Basic Biosciences  
AB = Applied Biosciences

EN = Engineering  
PE = Policy & Ethics

PS = Physical Science  
ES = Earth Science

SS = Social Science  
HU = Humanities

|    |                             |    |                                                                                                                                                                                                                                     |
|----|-----------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | <b>Jesus Acevedo</b>        | AB | Effect of the Microtubule Targeting Drug Eribulin, on Microtubule Dynamics in Breast Cancer Cell Lines                                                                                                                              |
| 2  | <b>Tiwaloluwa Ajibewa</b>   | AB | Correlation Between Clinical and Field Test for Balance in Human Subjects                                                                                                                                                           |
| 3  | <b>Zachery Austin</b>       | AB | Characterization of Novel Factors that Activate the Type III Interferon Promoter                                                                                                                                                    |
| 4  | <b>Alexander Ballard</b>    | AB | A Study of KLF1 in Erythropoietin Treated TF1 Cells as a Model of Anemia of Inflammation                                                                                                                                            |
| 5  | <b>Jermaine Blakley</b>     | AB | The Prevention of Pancreatic Cancer by the Inhibition of Phosphatidylinositol-3-Kinase (PI-3K): The Induction of Cellular Suicide in the Endocrine Gland of the Pancreas for the Development of a Highly Selective Cancer Treatment |
| 6  | <b>Jazmin Branch</b>        | AB | Closing The Gap: Stress as a Contributor to Racial/Ethnic Disparities in Infant Mortality                                                                                                                                           |
| 7  | <b>Karina Castro</b>        | AB | Transgenerational Behavioral and Morphological Deficits Due to Alcohol and/or Tobacco Nitrosamine Exposures                                                                                                                         |
| 8  | <b>Artesse Conley</b>       | AB | Developmental Biology: Absence Seizures                                                                                                                                                                                             |
| 9  | <b>Roberto De La Rosa</b>   | AB | Sensorimotor Rhythms in the Motor Cortex of a Rhesus Macaque Performing a Motor Task Through a Brain-Machine Interface                                                                                                              |
| 10 | <b>Breann De Santiago</b>   | AB | Rotten Eggs' H <sub>2</sub> S Acting on Human Airway Smooth Muscle Mechanics                                                                                                                                                        |
| 11 | <b>Samantha Dizon</b>       | AB | The Impact of Adherence on Health Related Quality of Life in Patients with Cystic Fibrosis                                                                                                                                          |
| 12 | <b>Leena Doolabh</b>        | AB | Imaging Tumor Endothelial Cells with Lectin Nanoparticles                                                                                                                                                                           |
| 13 | <b>Marcus Florez</b>        | AB | Epigenetic Influences on T Cell Differentiation and Function                                                                                                                                                                        |
| 14 | <b>Ruthly Francois</b>      | AB | Understand the Tumorigenesis of Breast Cancer                                                                                                                                                                                       |
| 15 | <b>Samuel Garcia</b>        | AB | Targeted Sequencing of Novel Genes Associated with Airway Reactivity from a Genome Wide Association Study Performed on Lung Health Study Data                                                                                       |
| 16 | <b>Robert Gutierrez</b>     | AB | Nanopiece: A Stabilizing and Protecting Vehicle for Molecular Beacon Delivery                                                                                                                                                       |
| 17 | <b>Ridwan Hassen</b>        | AB | The Role of Phospholipase A2 in Neuronal Development                                                                                                                                                                                |
| 18 | <b>Danielle Hindes</b>      | AB | Evaluating the Role of the Lipofuscin Bisretinoid A2E in Age Related Macular Degeneration and the Characterization of the Candidate Drug Beta-Cyclodextrin                                                                          |
| 19 | <b>Danielle Hyatt</b>       | AB | The Role of Laminar Shear Stress on Endothelial Cells                                                                                                                                                                               |
| 20 | <b>Danyelle Johnson</b>     | AB | Identifying C-Kit Cardiac Stem Cells in Post-Myocardial Infarcted Heart                                                                                                                                                             |
| 21 | <b>Joshua Jones</b>         | AB | Development of a KSHV Bacterial Artificial Chromosome Clone to Evaluate LANA's Role in Episome Maintenance                                                                                                                          |
| 22 | <b>Oluwabusayo Lana</b>     | AB | Traumatic Brain Injury: Quantifying Atrophy of the Hippocampus and the Cortex                                                                                                                                                       |
| 23 | <b>Kayla Lapier</b>         | AB | The Expression of Aquaporin 3b During Nervous System Development in Embryos of <i>Xenopus laevis</i>                                                                                                                                |
| 24 | <b>Aranza Portugal Leon</b> | AB | The Effects of a Nutrition Education Program on Nutrition Knowledge, Attitudes, and Behaviors Among Elementary School Children in New York City                                                                                     |
| 25 | <b>Danielle Miyagishima</b> | AB | Effects of Camptothecin on Survivability of Dorsal Root Ganglion                                                                                                                                                                    |
| 26 | <b>Ilkhan Paulino Cenit</b> | AB | Evaluation of IRGM Gene Expression and Reference Genes in Epstein-Barr Virus-Transformed Lymphoblastoid Cell Lines                                                                                                                  |
| 27 | <b>Pedro Perez</b>          | AB | Identification of Novel Survival of Motor Neuron Protein Stabilizers                                                                                                                                                                |

|    |                            |    |                                                                                                                                                |
|----|----------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------|
| 28 | <b>Eshaan Rao</b>          | AB | Smoothened Inhibitor, LDE225, Induces Apoptosis in Medulloblastoma Cells Through Activation of the Intrinsic Apoptotic Pathway                 |
| 29 | <b>Andres Rosario</b>      | AB | Breast Cancer Specimen Imaging to Detect Residual Cancer During Surgery                                                                        |
| 30 | <b>Marcus Vandall</b>      | AB | Purification of Escherichia coli Cascade                                                                                                       |
| 31 | <b>Kadar Vannoy</b>        | AB | An Analysis to Determine Association of Deimination With Aging                                                                                 |
| 32 | <b>Sahim Wallace</b>       | AB | Development of a Cell Based Assay for Characterizing Clostridium novyi Induced Inflammation in Mice                                            |
| 33 | <b>Raymond White</b>       | AB | Multilocus Variable Number Tandem Repeat Analysis (MLVA) of Extended Spectrum Beta-Lactamase (ESBL)-producing Strains of Klebsiella Pneumoniae |
| 34 | <b>Ifeolu Akinola</b>      | BB | Gene Therapy: Retinitis Pigmentosa                                                                                                             |
| 35 | <b>Korleki Akiti</b>       | BB | GABAergic Neurons in the Ventral Tegmental Area Modulate Reward Expectation During Associative Learning                                        |
| 36 | <b>Yonathan Ararso</b>     | BB | Melanoma-derived Factors TGF $\beta$ 1 and VEGF-A Suppress Anti-Tumor Immunity by Interfering with Dendritic Cell Maturation and Activation    |
| 37 | <b>Maria Banuelos</b>      | BB | Discerning the Role of Self-Identity Proteins in Isolates of the Pathogen Proteus mirabilis                                                    |
| 38 | <b>Erick Bayala</b>        | BB | Use of the Gal4/UAS System to Study the Functional Evolution of Novel Genes in Drosophila Species                                              |
| 39 | <b>Kirollos Bechay</b>     | BB | Characterization and Elucidation of DNA Compaction in the Developing Embryo                                                                    |
| 40 | <b>Vivian Chioma</b>       | BB | The Prevalence of Dopamine D2 Receptors in Striatal Cholinergic Interneurons                                                                   |
| 41 | <b>Achala Chittor</b>      | BB | Cth1 is a Potential Regulator of Nodal Signaling in Zebrafish                                                                                  |
| 42 | <b>Kathryn Coe</b>         | BB | Measuring the Effects of Desmosterol on the Activity of the Hepatitis C Virus Replicase                                                        |
| 43 | <b>Laura Craciun</b>       | BB | The Classification of Interneurons in the Thalamic Reticular Nucleus                                                                           |
| 44 | <b>Marylyn Creer</b>       | BB | Studying Protein Interactions Among Aquilegia MADS-Box Transcription Factors                                                                   |
| 45 | <b>Kayla Davis</b>         | BB | Characterizing the Role of SNX9 in Autophagosome Maturation                                                                                    |
| 46 | <b>Josephine Gonzales</b>  | BB | Validating Genetic Tools for Suppressing Major Oxidative DNA Damage-Repairing Proteins                                                         |
| 47 | <b>Nicole Hernandez</b>    | BB | Regulation of Mitochondrial Release From Microtubules During Cell Division                                                                     |
| 48 | <b>Elvina Hogan</b>        | BB | Galectin-3 Production for Cancer Studies                                                                                                       |
| 49 | <b>Linda Honaker</b>       | BB | It's Getting Hot in Here: Structural and Functional Studies on Thermo-Sensitive Ion Channels                                                   |
| 50 | <b>Tonee' Jones</b>        | BB | Characterizing the Function of Mycobacterium Tuberculosis Efflux Pumps in a Mycobacterium Smegmatis Overexpression System                      |
| 51 | <b>Jennifer Kamara</b>     | BB | Interrogation of Lipid-Protein Interactions Involved in Cellular Uptake of Lipid Nanoparticle-Formulated siRNA                                 |
| 52 | <b>Wilhemina Koomson</b>   | BB | The Role of Microtubule Regulation During Synaptic Development                                                                                 |
| 53 | <b>Mark Lampert</b>        | BB | Cystic Fibrosis Cell Proliferation Rates                                                                                                       |
| 54 | <b>Sarah Manmiller</b>     | BB | Determining the Significance of Trim28 for Twist1-induced Epithelial-mesenchymal Transition                                                    |
| 55 | <b>Sara Marin</b>          | BB | Gene Mutations Associated With Familial Acute Myeloid Leukemia                                                                                 |
| 56 | <b>Eileen Martinez</b>     | BB | Inter-Bacterial Interactions With Pseudomonas Aeruginosa and the Role of oprF in Host Phagocyte Association                                    |
| 57 | <b>Peter Mercado-Reyes</b> | BB | Study on the Long-term Effects of Antipsychotics: The Impact of Sustained D2 Neuron Activity on Motor Learning and Motor Performance           |



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|----|--------------------------------|----|---------------------------------------------------------------------------------------------------------------------|
| 58 | <b>Javier Morales-Gonzalez</b> | BB | Is mTOR Steady State PI3K Dependent?                                                                                |
| 59 | <b>Saige Pompura</b>           | BB | Characterizing the Caenorhabditis elegans Systemic RNAi Protein SID-2                                               |
| 60 | <b>Monica Quinones-Frias</b>   | BB | Investigation of the Mechanism of Gamma-Secretase C-terminal Trimming of Amyloid Beta                               |
| 61 | <b>Vani Ravichandran</b>       | BB | Overexpress Yourself: It's Good For The Heart!                                                                      |
| 62 | <b>Valeria Reyes Ruiz</b>      | BB | Investigating the Role of AHNAK and Sfpq Host Cell Receptors for Listeria Monocytogenes Invasion                    |
| 63 | <b>Gaddiel Rodriguez</b>       | BB | A High Throughput Assay for SAMHD1 Activity                                                                         |
| 64 | <b>Lloydine Runsabove</b>      | BB | Characterization of Nitrogen Fixing Cyanobacteria for Organic Bio-fertilizer                                        |
| 65 | <b>Tanisha Saini</b>           | BB | Testing the Contribution of Chromosome Anchoring to Efficient DNA Transport During Sporulation in Bacillus Subtilis |
| 66 | <b>Elisa Sanchez</b>           | BB | Regulation of ERRA by the Molecular Motor Protein KIF17                                                             |
| 67 | <b>Mary Soliman</b>            | BB | Development of a Comprehensive Approach to Maldi Imaging                                                            |
| 68 | <b>Raiha Tahir</b>             | BB | Investigation of Protein-Protein Interactions Within the Yeast Histone Acetyltransferase Complex NuA3               |
| 69 | <b>Meaghan Valliere</b>        | BB | Purification of the Native Orphan Response Regulator, HP 1043, From Helicobacter pylori                             |
| 70 | <b>Lindsey Wirsing</b>         | BB | Gene Expression Analysis of the Human IL1RN Gene Using Real-Time PCR                                                |
| 71 | <b>Theodore Zaki</b>           | BB | Optimization of RNA Extraction and Purification Protocols from Small Cell Samples                                   |
| 72 | <b>Melissa Carr-Reynolds</b>   | BB | Potential Mechanisms Underlying Stress Effects on Neurogenesis                                                      |
| 73 | <b>Jeffrey Brown</b>           | ES | Variations of Phosphate Concentration on Cyanobacterial Biofertilizer Production                                    |
| 74 | <b>Sasha Rivers</b>            | ES | Soil Ecology of the American Prairie Reserve                                                                        |
| 75 | <b>Darius Stanton</b>          | ES | Pelagic Microbial Community Structure Along an Estuarine Gradient in Narragansett Bay                               |
| 76 | <b>Jacob Alvarez</b>           | EN | Determining the Cause of Performance Decline of a PEM Fuel Cell                                                     |
| 77 | <b>Cynthia Barajas</b>         | EN | Real-Time Hardware Identification of Single Ion Channel Gating                                                      |
| 78 | <b>DeMarcus Crews</b>          | PS | Development of an H-bond Donor Catalyst for Beta-Selective Glycosylation of 2-Deoxycarbohydrates                    |
| 79 | <b>Jean Guillaume</b>          | PS | Blending Finite Element with Penalty Immersed Boundary to Investigate Hemodynamics in the Aorta                     |
| 80 | <b>Tiffany King</b>            | PS | Analysis of Proton Transport in [Fe-Fe] Hydrogenase Through an Activated Secondary Water Channel                    |
| 81 | <b>William Marrero-Ortiz</b>   | PS | Synthesis of a Stereoselective and Functionalized All-Hydrocarbon Stapled Peptide Olefin                            |
| 82 | <b>Josh Taylor</b>             | PS | Providing Safe and Reliable Interfacing from Vehicle-to-Vehicle Using W.A.V.E.                                      |
| 83 | <b>Tre Wells</b>               | PS | Data Envelopment Analysis and Its Application to Public School Systems                                              |
| 84 | <b>Lisbeth Acosta</b>          | SS | Influence of Home Visiting Program on Young Mothers' Parental Stress and Corporal Punishment                        |
| 85 | <b>Tangeria Adams</b>          | SS | The Effects of Physical Exercise Duration on Social and Attentional Impairments in a Rat Model of ADHD              |
| 86 | <b>Samantha Angell</b>         | SS | What's in a Word? Associations Between Teacher Word Choice and Observed Effectiveness                               |
| 87 | <b>Chi-Hang Au</b>             | SS | Marijuana Legalization: Effects on Youth Aggressive Behavior                                                        |



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|-----|------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------|
| 88  | <b>Nia Blackwolf</b>         | SS | Native American Need for Alcohol Treatment; Abuse Squared                                                                                  |
| 89  | <b>Caitlin Brown</b>         | SS | Exploring Discrepancies in Teacher and Student Perceptions of Emotional Support in the Classroom                                           |
| 90  | <b>Johanel Caceres</b>       | SS | Does Mother's and Father's Time in the U.S. Influence Second-Generation Children's Vocabulary in English and Spanish                       |
| 91  | <b>Mariela Castro</b>        | SS | ¡Mijo, You Can Co It!: Exploring the Relationship Between Maternal Expectations and Effortful Control Among Second Generation Preschoolers |
| 92  | <b>Cheryl Coleman</b>        | SS | Testing PAAS Intervention Effects on Rural African American Youths' Academic Aspiration                                                    |
| 93  | <b>Jose Cuchilla</b>         | SS | Social Support and Health Behavior: Exploring Associations to Diabetes among the Hispanic Community                                        |
| 94  | <b>Jennifer Garraway</b>     | SS | Stimulant Effects on Emotion in Healthy Volunteers                                                                                         |
| 95  | <b>Charity Crowell</b>       | SS | Stressed Out in the Classroom? Predictors of Stress and Links to Teacher Quality                                                           |
| 96  | <b>Aasha Jackson</b>         | SS | This Is Us: Teaching High School Students to Conduct Research in Their Communities                                                         |
| 97  | <b>Jessica Manfredi</b>      | SS | This Is Us: Teaching High School Students to Conduct Research in Their Communities                                                         |
| 98  | <b>Micah Melia</b>           | SS | Do State Standardized Graduation Requirements Improve Minority Student Outcomes?: The Case of the Michigan Merit Curriculum                |
| 99  | <b>Victoria Quinones</b>     | SS | Understanding the Pathway to Suicide: The Role of Planning for Suicide                                                                     |
| 100 | <b>Caio Santos Rodrigues</b> | SS | Individual differences in intentionality judgments for victims differing in social status                                                  |
| 101 | <b>Alexis Staver</b>         | SS | The Relation Between Child Maltreatment and Socioemotional Development of Children in the First Two Years of Their Life                    |
| 102 | <b>Krystal Thomas</b>        | SS | Unpacking the Black Box of Coaching Conferences: The Link Between Teacher and Classroom Characteristics and Coaches' Approach to Feedback  |
| 103 | <b>Jeremiah Williams</b>     | SS | Position Dependence of Human Visual Object Recognition                                                                                     |
| 104 | <b>Aspen Yoo</b>             | SS | Investigating Orientation Invariance in Visual Object Recognition                                                                          |
| 105 | <b>Maria Martinez</b>        | SS | Position Dependency in Object Recognition                                                                                                  |

## POSTER PRESENTATIONS BY NAME

### **Jesus Acevedo, 1 ..... 8:45-9:45 AM**

Presentation Title: Effect of the Microtubule Targeting Drug Eribulin, on Microtubule Dynamics in Breast Cancer Cell Lines

Research Mentor: Alexandre Matov

Research Institution: Weill Cornell Graduate School

Home Institution: UPR-Rio Piedras

Co-Authors: Alexandre Matov, Weill Cornell Graduate School of Medical Sciences

### **Lisbeth Acosta, 84 ..... 9:45-10:45 AM**

Presentation Title: Influence of Home Visiting Program on Young Mothers' Parental Stress and Corporal Punishment

Research Mentor: Jana Chaudhuri

Research Institution: Tufts University

Home Institution: UMass Amherst

Co-Authors: Ann Easterbrooks and Jana Chaudhuri, Tufts University

### **Tangeria Adams, 85 ..... 8:45-9:45 AM**

Presentation Title: The Effects of Physical Exercise Duration on Social and Attentional Impairments in a Rat Model of ADHD

Research Mentor: David Bucci

Research Institution: Dartmouth College

Home Institution: Brooklyn College CUNY

Co-Authors: Andrea Robinson and David Bucci, Dartmouth College

### **Tiwaloluwa Ajibewa, 2 ..... 9:45-10:45 AM**

Presentation Title: Correlation Between Clinical and Field Test for Balance in Human Subjects

Research Mentor: Joseph Signorile

Research Institution: University of Miami

Home Institution: University of Minnesota Morris

Co-Authors: Joseph Signorile and Karin Dowen, University of Miami

### **Ifeolu Akinnola, 34 ..... 9:45-10:45 AM**

Presentation Title: Gene Therapy: Retinitis Pigmentosa

Research Mentor: Constance Cepko

Research Institution: Harvard University, Division of Medical Sciences

Home Institution: University of Maryland, Baltimore County

Co-Authors: Evedangi Sample and Constance Cepko, Harvard Medical School, Dept. of Genetics

### **Korleki Akiti, 35 ..... 8:45-9:45 AM**

Presentation Title: GABAergic Neurons in the Ventral Tegmental Area Modulate Reward Expectation During Associative Learning

Research Mentor: Nao Uchida

Research Institution: Harvard University

Home Institution: Princeton University

Co-Authors: Neir Eshel, Harvard Medical School, Neuroscience Program; Nao Uchida, Harvard University, Dept. of Molecular and Cellular Biology

### **Jacob Alvarez, 76 ..... 9:45-10:45 AM**

Presentation Title: Determining the Cause of Performance Decline of a PEM Fuel Cell

Research Mentor: Christopher Edwards

Research Institution: Stanford University Engineering

Home Institution: University of Maryland, Baltimore County

Co-Authors: Christopher Edwards and Carol Regalbuto, Stanford University School of Engineering

### **Samantha Angell, 86 ..... 9:45-10:45 AM**

Presentation Title: What's in a Word? Associations Between Teacher Word Choice and Observed Effectiveness

Research Mentor: Jennifer LoCasale-Crouch

Research Institution: University of Virginia School of Education

Home Institution: Ripon College

Co-Authors: Amy Roberts and Jennifer LoCasale-Crouch, University of Virginia - Education Sciences

### **Yonathan Ararso, 36 ..... 9:45-10:45 AM**

Presentation Title: Melanoma-derived Factors TGF $\beta$ 1 and VEGF-A Suppress Anti-Tumor Immunity by Interfering with Dendritic Cell Maturation and Activation

Research Mentor: Jie Jiang

Research Institution: Weill Cornell Graduate School

Home Institution: Hampden-Sydney College

Co-Authors: Kristian Hargadon, Hampden-Sydney College

### **Chi-Hang Au, 87 ..... 8:45-9:45 AM**

Presentation Title: Marijuana Legalization: Effects on Youth Aggressive Behavior

Research Mentor: Daniel Player

Research Institution: University of Virginia School of Education

Home Institution: Liberty University

Co-Authors: Daniel Player and Disha Venkatesan, University of Virginia - Education Sciences

**Zachery Austin, 3..... 8:45-9:45 AM**

Presentation Title: Characterization of Novel Factors that Activate the Type III Interferon Promoter  
 Research Mentor: Emmanuel Thomas  
 Research Institution: University of Miami  
 Home Institution: Morehouse College  
 Co-Authors: Emmanuel Thomas, University of Miami

**Alexander Ballard, 4..... 9:45-10:45 AM**

Presentation Title: A Study of KLF1 in Erythropoietin Treated TF1 Cells as a Model of Anemia of Inflammation  
 Research Mentor: Cindy Roy  
 Research Institution: Johns Hopkins University  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Jackie M. Langdon, Brian J. McCranor and Dr. Cindy N. Roy, Johns Hopkins University

**Maria Banuelos, 37..... 8:45-9:45 AM**

Presentation Title: Discerning the Role of Self-Identity Proteins in Isolates of the Pathogen *Proteus mirabilis*  
 Research Mentor: Karine Gibbs  
 Research Institution: Harvard University  
 Home Institution: University of Redlands  
 Co-Authors: Lia Cardarelli, Martha Zepeda and Karine Gibbs, Harvard University, Dept. of Molecular and Cellular Biology

**Cynthia Barajas, 77..... 8:45-9:45 AM**

Presentation Title: Real-Time Hardware Identification of Single Ion Channel Gating  
 Research Mentor: Jacob Rosenstein  
 Research Institution: Brown University  
 Home Institution: California State Polytechnic University  
 Co-Authors: Jacob Rosenstein, Brown University

**Erick Bayala, 38..... 9:45-10:45 AM**

Presentation Title: Use of the Gal4/UAS System to Study the Functional Evolution of Novel Genes in *Drosophila* Species  
 Research Mentor: Cassandra Extavour  
 Research Institution: Harvard University  
 Home Institution: UPR-Humacao  
 Co-Authors: Cassandra Extavour and Tripti Gupta, Harvard University, Dept. of Organismic and Evolutionary Biology

**Kirollos Bechay, 39..... 8:45-9:45 AM**

Presentation Title: Characterization and Elucidation of DNA Compaction in the Developing Embryo  
 Research Mentor: Susan Mango  
 Research Institution: Harvard University  
 Home Institution: UC Irvine  
 Co-Authors: Susan Mango and Huei Mei Chen, Harvard University, Dept. of Molecular and Cellular Biology

**Nia Blackwolf, 88..... 9:45-10:45 AM**

Presentation Title: Native American Need for Alcohol Treatment; Abuse Squared  
 Research Mentor: George Haynes  
 Research Institution: Montana State University - Bozeman  
 Home Institution: Montana State University - Bozeman  
 Co-Authors: George Haynes, Montana State University

**Jermaine Blakley, 5..... 8:45-9:45 AM**

Presentation Title: The Prevention of Pancreatic Cancer by the Inhibition of Phosphatidylinositol-3-Kinase (PI-3K): The Induction of Cellular Suicide in the Endocrine Gland of the Pancreas for the Development of a Highly Selective Cancer Treatment  
 Research Mentor: Karen Jackson-Weaver  
 Research Institution: Princeton University  
 Home Institution: Morehouse College  
 Co-Authors: Celeste Nelson, Princeton University

**Jazmin Branch, 6..... 9:45-10:45 AM**

Presentation Title: Closing The Gap: Stress as a Contributor to Racial/Ethnic Disparities in Infant Mortality  
 Research Mentor: Micere Keels  
 Research Institution: University of Chicago  
 Home Institution: Washington University in St. Louis  
 Co-Authors: Micere Keels, University of Chicago

**Caitlin Brown, 89..... 8:45-9:45 AM**

Presentation Title: Exploring Discrepancies in Teacher and Student Perceptions of Emotional Support in the Classroom  
 Research Mentor: Jason Downer  
 Research Institution: University of Virginia School of Education  
 Home Institution: Southern Oregon University  
 Co-Authors: Sadie Hasbrouck and Jason Downer, University of Virginia - Education Sciences

**Jeffrey Brown, 73..... 8:45-9:45 AM**

Presentation Title: Variations of Phosphate Concentration on Cyanobacterial Biofertilizer Production  
 Research Mentor: Rich Macur  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Montana State University -Bozeman  
 Co-Authors: Rich Macur, Lloydine Runsabove and Lisa Weeks, Montana State University

**Johanel Caceres, 90 ..... 9:45-10:45 AM**

Presentation Title: Does Mother's and Father's Time in the U.S. Influence Second-Generation Children's Vocabulary in English and Spanish  
 Research Mentor: Natalia Palacios  
 Research Institution: University of Virginia School of Education  
 Home Institution: Skidmore College  
 Co-Authors: Ashley Simpson, Natalia Palacios and Amanda Kibler, University of Virginia - Education Sciences

**Melissa Carr-Reynolds, 72 ..... 9:45-10:45 AM**

Presentation Title: Potential Mechanisms Underlying Stress Effects on Neurogenesis  
 Research Mentor: Kevin Bath  
 Research Institution: Brown University  
 Home Institution: Spelman College  
 Co-Authors: Kevin Bath, Brown University

**Karina Castro, 7 ..... 8:45-9:45 AM**

Presentation Title: Transgenerational Behavioral and Morphological Deficits Due to Alcohol and/or Tobacco Nitrosamine Exposures  
 Research Mentor: Suzanne de la Monte  
 Research Institution: Brown University  
 Home Institution: Saint John's University  
 Co-Authors: Suzanne de la Monte and Teresa Ramirez, Brown University; Tomas Andreani, Pitzer College

**Mariela Castro, 91..... 8:45-9:45 AM**

Presentation Title: ¡Mijo, You Can Co It!: Exploring the Relationship Between Maternal Expectations and Effortful Control Among Second Generation Preschoolers  
 Research Mentor: Natalia Palacios  
 Research Institution: University of Virginia School of Education  
 Home Institution: University of Nevada, Reno  
 Co-Authors: Ashley Simpson, Natalia Palacios and Amanda Kibler, University of Virginia - Education Sciences

**Vivian Chioma, 40 ..... 9:45-10:45 AM**

Presentation Title: The Prevalence of Dopamine D2 Receptors in Striatal Cholinergic Interneurons  
 Research Mentor: Daniel McGehee  
 Research Institution: University of Chicago  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Daniel McGehee and Austin Lim, University of Chicago

**Achala Chittor, 41 ..... 8:45-9:45 AM**

Presentation Title: Cth1 is a Potential Regulator of Nodal Signaling in Zebrafish  
 Research Mentor: Alexander Schier  
 Research Institution: Harvard University  
 Home Institution: Williams College  
 Co-Authors: Alexander Schier and James Gagnon, Harvard University, Dept. of Molecular and Cellular Biology

**Kathryn Coe, 42..... 9:45-10:45 AM**

Presentation Title: Measuring the Effects of Desmosterol on the Activity of the Hepatitis C Virus Replicase  
 Research Mentor: Priscilla Yang  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Colby College  
 Co-Authors: alerie Villareal and Priscilla Yang, Harvard Medical School, Dept. of Microbiology and Immunobiology

**Cheryl Coleman, 92..... 9:45-10:45 AM**

Presentation Title: Testing PAAS Intervention Effects on Rural African American Youths' Academic Aspiration  
 Research Mentor: Velma Murry  
 Research Institution: Vanderbilt University  
 Home Institution: Claflin University  
 Co-Authors: Velma Murry and Na Liu, Vanderbilt University

**Artesse Conley, 8..... 9:45-10:45 AM**

Presentation Title: Developmental Biology: Absence Seizures  
 Research Mentor: Karen Jackson-Weaver  
 Research Institution: Princeton University  
 Home Institution: Morehouse College  
 Co-Authors: Rodney Priestley, Princeton University

**Laura Craciun, 43 ..... 8:45-9:45 AM**

Presentation Title: The Classification of Interneurons  
in the Thalamic Reticular Nucleus  
Research Mentor: Barry Connors  
Research Institution: Brown University  
Home Institution: New York University  
Co-Authors: Barry Connors, Brown University

**Marylyn Creer, 44 ..... 9:45-10:45 AM**

Presentation Title: Studying Protein Interactions  
Among Aquilegia MADS-Box Transcription  
Factors  
Research Mentor: Elena Kramer  
Research Institution: Harvard University  
Home Institution: Alabama A&M University  
Co-Authors: Elena Kramer and Lynn Holappa,  
Harvard University, Dept. of Organismic and  
Evolutionary Biology

**DeMarcus Crews, 78 ..... 9:45-10:45 AM**

Presentation Title: Development of an H-bond Donor  
Catalyst for Beta-Selective Glycosylation of  
2-Deoxycarbohydrates  
Research Mentor: Eric Jacobsen  
Research Institution: Harvard University  
Home Institution: Morehouse College  
Co-Authors: Eric Jacobsen, Kaid Harper and Dan  
Lehnher, Harvard University, Dept. of Chemistry

**Charity Crowell, 95 ..... 8:45-9:45 AM**

Presentation Title: EStressed Out in the Classroom?  
Predictors of Stress and Links to Teacher Quality  
Research Mentor: Jennifer LoCasale-Crouch  
Research Institution: University of Virginia School  
of Education  
Home Institution: University of Alabama-Tuscaloosa  
Co-Authors: Amy Roberts and Jennifer LoCasale-  
Crouch, University of Virginia - Education Sciences

**Jose Cuchilla, 93 ..... 8:45-9:45 AM**

Presentation Title: Social Support and Health Behavior:  
Exploring Associations to Diabetes among the  
Hispanic Community  
Research Mentor: Micere Keels  
Research Institution: University of Chicago  
Home Institution: California State Polytechnic  
University, Pomona  
Co-Authors: Micere Keels, University of Chicago

**Kayla Davis, 45 ..... 8:45-9:45 AM**

Presentation Title: Characterizing the Role of SNX9  
in Autophagosome Maturation  
Research Mentor: Wade Harper  
Research Institution: Harvard University, Division  
of Medical Sciences  
Home Institution: Oklahoma State University  
Co-Authors: Laura Pontano-Vaites and Wade Harper,  
Harvard Medical School, Dept. of Cell Biology

**Roberto De La Rosa, 9 ..... 8:45-9:45 AM**

Presentation Title: Sensorimotor Rhythms in the Motor  
Cortex of a Rhesus Macaque Performing a Motor  
Task Through a Brain-Machine Interface  
Research Mentor: Nicholas Hatsopoulos  
Research Institution: University of Chicago  
Home Institution: Brown University  
Co-Authors: Nicholas Hatsopoulos, Karthikeyan  
Balasubramanian and Mukta Vaidya, University  
of Chicago

**Breann De Santiago, 10 ..... 9:45-10:45 AM**

Presentation Title: Rotten Eggs' H<sub>2</sub>S Acting on Human  
Airway Smooth Muscle Mechanics  
Research Mentor: Steven An  
Research Institution: Johns Hopkins University  
Home Institution: Whittier College  
Co-Authors: Steven An and Robert Fitzgerald, Johns  
Hopkins University

**Samantha Dizon, 11 ..... 8:45-9:45 AM**

Presentation Title: The Impact of Adherence on Health  
Related Quality of Life in Patients with Cystic  
Fibrosis  
Research Mentor: Michelle Eakin  
Research Institution: Johns Hopkins University  
Home Institution: Loyola University  
Co-Authors: Michelle Eakin and Kristin Riekert, Johns  
Hopkins University

**Leena Doolabh, 12 ..... 9:45-10:45 AM**

Presentation Title: Imaging Tumor Endothelial Cells  
with Lectin Nanoparticles  
Research Mentor: Arvind Pathak  
Research Institution: Johns Hopkins University  
Home Institution: University of Delaware  
Co-Authors: Karen Hong, Yoshinori Kato and Arvind  
Pathak, Johns Hopkins University

**Marcus Florez, 13..... 8:45-9:45 AM**

Presentation Title: Epigenetic Influences on T Cell Differentiation and Function  
 Research Mentor: Franco D'Alessio  
 Research Institution: Johns Hopkins University  
 Home Institution: University of Kansas  
 Co-Authors: Benjamin Singer and Franco D'Alessio, Johns Hopkins University

**Ruthly Francois, 14..... 9:45-10:45 AM**

Presentation Title: Understand the Tumorigenesis of Breast Cancer  
 Research Institution: Novartis Institutes for BioMedical Research  
 Co-Authors: Victor Lin, Ning Guo and Yi Yang, Novartis Institutes for BioMedical Research

**Samuel Garcia, 15..... 8:45-9:45 AM**

Presentation Title: Targeted Sequencing of Novel Genes Associated with Airway Reactivity from a Genome Wide Association Study Performed on Lung Health Study Data  
 Research Mentor: Kathleen Barnes  
 Research Institution: Johns Hopkins University  
 Home Institution: University of Texas at El Paso  
 Co-Authors: Nicholas Rafaels, Rasika Mathias and Kathleen Barnes, Johns Hopkins University

**Jennifer Garraway, 94..... 9:45-10:45 AM**

Presentation Title: Stimulant Effects on Emotion in Healthy Volunteers  
 Research Mentor: Tara White  
 Research Institution: Brown University  
 Home Institution: Hunter College  
 Co-Authors: Mikalei Gordon and Tara White, Brown University

**Josephine Gonzales, 46..... 9:45-10:45 AM**

Presentation Title: Validating Genetic Tools for Suppressing Major Oxidative DNA Damage-Repairing Proteins  
 Research Mentor: Priyamvada Rai  
 Research Institution: University of Miami  
 Home Institution: CSU San Marcos  
 Co-Authors: Priyamvada Rai, Anisleidys Munoz and Brooke Zarouri, University of Miami

**Jean Guillaume, 79..... 8:45-9:45 AM**

Presentation Title: Blending Finite Element with Penalty Immersed Boundary to Investigate Hemodynamics in the Aorta  
 Research Mentor: Johnny Guzman  
 Research Institution: Brown University  
 Home Institution: Brooklyn College CUNY  
 Co-Authors: Johnny Guzman, Samy Wu and Anthony Pellegrino, Brown University

**Robert Gutierrez, 16..... 9:45-10:45 AM**

Presentation Title: Nanopiece: A Stabilizing and Protecting Vehicle for Molecular Beacon Delivery  
 Research Mentor: Qian Chen  
 Research Institution: Brown University  
 Home Institution: Santa Barbara City College  
 Co-Authors: Yupeng Chen and Qian Chen, Brown University

**Ridwan Hassen, 17..... 8:45-9:45 AM**

Presentation Title: The Role of Phospholipase A2 in Neuronal Development  
 Research Mentor: Bryan Luikart  
 Research Institution: Dartmouth College  
 Home Institution: Emory University  
 Co-Authors: Bryan Luikart and Katie Fricano, Dartmouth College

**Nicole Hernandez, 47..... 8:45-9:45 AM**

Presentation Title: Regulation of Mitochondrial Release From Microtubules During Cell Division  
 Research Mentor: Tom Schwarz  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: UC Irvine  
 Co-Authors: Thomas Schwarz, Harvard Medical School, Children's Hospital; Jarom Chung, Harvard Medical School, Biological and Biomedical Sciences Program

**Danielle Hindes, 18..... 9:45-10:45 AM**

Presentation Title: Evaluating the Role of the Lipofuscin Bisretinoid A2E in Age Related Macular Degeneration and the Characterization of the Candidate Drug Beta-Cyclodextrin  
 Research Mentor: Marcelo Nociari  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: SUNY College at Fredonia  
 Co-Authors: Marcelo Nociari, Weill Cornell Graduate School of Medical Sciences



**Elvina Hogan, 48..... 9:45-10:45 AM**

Presentation Title: Galectin-3 Production for Cancer Studies  
 Research Mentor: Mary Cloninger  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Little Big Horn College  
 Co-Authors: Mary Cloninger and Anna Michel, Montana State University

**Linda Honaker, 49 ..... 8:45-9:45 AM**

Presentation Title: It's Getting Hot in Here: Structural and Functional Studies on Thermo-Sensitive Ion Channels  
 Research Mentor: Rachelle Gaudet  
 Research Institution: Harvard University  
 Home Institution: San Diego State University  
 Co-Authors: Ute Hellmich, Harvard University, Dept. of Molecular and Cellular Biology; Luciann Cuenca, Harvard Medical School, Biological and Biomedical Sciences Program; Rachelle Gaudet, Harvard University, Dept. of Molecular and Cellular Biology

**Danielle Hyatt, 19 ..... 8:45-9:45 AM**

Presentation Title: The Role of Laminar Shear Stress on Endothelial Cells  
 Research Mentor: Sina Rabbany  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Gonzaga University  
 Co-Authors: Sina Y. Rabbany, Weill Cornell Graduate School of Medical Sciences

**Aasha Jackson, 96..... 9:45-10:45 AM**

Presentation Title: This Is Us: Teaching High School Students to Conduct Research in Their Communities  
 Research Mentor: Kimberley Wilson  
 Research Institution: Tufts University  
 Home Institution: Brown University  
 Co-Authors: Jessica Manfredi and Kimberley Wilson, Tufts University

**Danyelle Johnson, 20 ..... 9:45-10:45 AM**

Presentation Title: Identifying C-Kit Cardiac Stem Cells in Post-Myocardial Infarcted Heart  
 Research Mentor: Kim Kelly  
 Research Institution: University of Virginia School of Medicine  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Siva Sai Krishna Dasa, University of Virginia - BioMedical Sciences

**Joshua Jones, 21 ..... 8:45-9:45 AM**

Presentation Title: Development of a KSHV Bacterial Artificial Chromosome Clone to Evaluate LANA's Role in Episome Maintenance  
 Research Mentor: Kenneth Kaye  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: University of Maine  
 Co-Authors: Franceline Juillard, Brigham and Women's Hospital; Kenneth Kaye, Harvard Medical School, Brigham and Women's Hospital

**Tonee' Jones, 50 ..... 9:45-10:45 AM**

Presentation Title: Characterizing the Function of Mycobacterium Tuberculosis Efflux Pumps in a Mycobacterium Smegmatis Overexpression System  
 Research Mentor: Alissa Myrick  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Morehouse College  
 Co-Authors: Alissa Myrick and Brian Schuster, Harvard School of Public Health; Eric Rubin, Harvard School of Public Health, Dept. of Immunology and Infectious Disease

**Jennifer Kamara, 51 ..... 8:45-9:45 AM**

Presentation Title: Interrogation of Lipid-Protein Interactions Involved in Cellular Uptake of Lipid Nanoparticle-Formulated siRNA  
 Research Institution: Novartis Institutes for BioMedical Research  
 Co-Authors: Andrea Pomerantz, Novartis Institutes for BioMedical Research

**Tiffany King, 80 ..... 9:45-10:45 AM**

Presentation Title: Analysis of Proton Transport in [Fe-Fe] Hydrogenase Through an Activated Secondary Water Channel  
 Research Mentor: Aaron Dinner  
 Research Institution: University of Chicago  
 Home Institution: University of North Carolina Chapel Hill  
 Co-Authors: Martin McCullagh, Aaron Dinner and Greg Voth, University of Chicago

**Wilhemina Koomson, 52..... 9:45-10:45 AM**

Presentation Title: The Role of Microtubule Regulation During Synaptic Development  
 Research Mentor: Jennifer Long  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Princeton University  
 Co-Authors: Jennifer B. Long and David Van Vactor, Harvard Medical School, Dept. of Cell Biology



**Mark Lampert, 53 ..... 8:45-9:45 AM**

Presentation Title: Cystic Fibrosis Cell Proliferation Rates  
 Research Mentor: Stefan Worgall  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Ohio State University  
 Co-Authors: Stefan Worgall, Weill Cornell Graduate School of Medical Sciences

**Oluwabusayo Lana, 22..... 9:45-10:45 AM**

Presentation Title: Traumatic Brain Injury: Quantifying Atrophy of the Hippocampus and the Cortex  
 Research Mentor: Coleen Atkins  
 Research Institution: University of Miami  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Coleen Atkins and David Adaikkalasamy, University of Miami

**Kayla Lapier, 23..... 8:45-9:45 AM**

Presentation Title: The Expression of Aquaporin 3b During Nervous System Development in Embryos of *Xenopus laevis*  
 Research Mentor: Christa Merzdorf  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Montana State University -Bozeman  
 Co-Authors: Christa Merzdorf, Montana State University

**Jessica Manfredi, 97 ..... 8:45-9:45 AM**

Presentation Title: This Is Us: Teaching High School Students to Conduct Research in Their Communities  
 Research Mentor: Kimberly Wilson  
 Research Institution: Tufts University  
 Home Institution: University of Washington  
 Co-Authors: Aasha Jackson and Kimberly Wilson, Tufts University

**Sarah Manmiller, 54 ..... 9:45-10:45 AM**

Presentation Title: Determining the Significance of Trim28 for Twist1-induced Epithelial-mesenchymal Transition  
 Research Mentor: Phuoc Tran  
 Research Institution: Johns Hopkins University  
 Home Institution: York College of Pennsylvania  
 Co-Authors: Phuoc Tran, Sivarajan Chettiar and Anvesh Annadanam, Johns Hopkins University

**Sara Marin, 55..... 8:45-9:45 AM**

Presentation Title: Gene Mutations Associated With Familial Acute Myeloid Leukemia  
 Research Mentor: Lucy Godley  
 Research Institution: University of Chicago  
 Home Institution: University of Miami  
 Co-Authors: Lucy Godley, University of Chicago

**William Marrero-Ortiz, 81..... 8:45-9:45 AM**

Presentation Title: Synthesis of a Stereoselective and Functionalized All-Hydrocarbon Stapled Peptide Olefin  
 Research Mentor: Loren Walensky  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Loren D. Walensky, Harvard Medical School, Dana Farber Cancer Institute; Gregory H. Bird, Dana Farber Cancer Institute

**Eileen Martinez, 56..... 9:45-10:45 AM**

Presentation Title: Inter-Bacterial Interactions With *Pseudomonas Aeruginosa* and the Role of oprF in Host Phagocyte Association  
 Research Mentor: Brent Berwin  
 Research Institution: Dartmouth College  
 Home Institution: Texas A&M International University  
 Co-Authors: Brent Berwin and Rustin Lovewell, Dartmouth College

**Maria Martinez, 105 ..... 8:45-9:45 AM**

Presentation Title: Position Dependency in Object Recognition  
 Research Mentor: George Alvarez  
 Research Institution: Harvard University  
 Home Institution: Barry University  
 Co-Authors: George Alvarez, Harvard University, Dept. of Psychology

**Micah Melia, 98..... 9:45-10:45 AM**

Presentation Title: Do State Standardized Graduation Requirements Improve Minority Student Outcomes?: The Case of the Michigan Merit Curriculum  
 Research Mentor: Daniel Player  
 Research Institution: University of Virginia School of Education  
 Home Institution: University of Kansas  
 Co-Authors: Melinda Adnot, Daniel Player and, University of Virginia - Education Science

**Peter Mercado-Reyes, 57 ..... 8:45-9:45 AM**

Presentation Title: Study on the Long-term Effects of Antipsychotics: The Impact of Sustained D2 Neuron Activity on Motor Learning and Motor Performance  
 Research Mentor: Chris Moore  
 Research Institution: Brown University  
 Home Institution: Purdue University  
 Co-Authors: Nathan Vierling-Claassen, Kevin Bath and Christopher Moore, Brown University

**Danielle Miyagishima, 25..... 8:45-9:45 AM**

Presentation Title: Effects of Camptothecin on  
Survivability of Dorsal Root Ganglion  
Research Mentor: Yung-Chih Cheng  
Research Institution: Harvard University, Division  
of Medical Sciences  
Home Institution: New Mexico State University  
Co-Authors: Yung-Chih Cheng and Clifford Woolf,  
Harvard Medical School, Children's Hospital

**Javier Morales-Gonzalez, 58 ..... 9:45-10:45 AM**

Presentation Title: Is mTOR Steady State PI3K  
Dependent?  
Research Mentor: Cesario Bianchi  
Research Institution: Brown University  
Home Institution: UPR-Rio Piedras  
Co-Authors: Cesario Bianchi, Brown University

**Ilkania Paulino Cenit, 26..... 9:45-10:45 AM**

Presentation Title: Evaluation of IRGM Gene  
Expression and Reference Genes in Epstein-Barr  
Virus-Transformed Lymphoblastoid Cell Lines  
Research Mentor: Steven Brant  
Research Institution: Johns Hopkins University  
Home Institution: Brown University  
Co-Authors: Steven Brant, Yuqiong Wu and Lisa Datta,  
Johns Hopkins University

**Pedro Perez, 27..... 8:45-9:45 AM**

Presentation Title: Identification of Novel Survival of  
Motor Neuron Protein Stabilizers  
Research Institution: Novartis Institutes for  
BioMedical Research  
Co-Authors: Youngah Shin, Marc Hild and Rajeev  
Sivasankaran, Novartis Institutes for BioMedical  
Research

**Saige Pompura, 59 ..... 8:45-9:45 AM**

Presentation Title: Characterizing the Caenorhabditis  
elegans Systemic RNAi Protein SID-2  
Research Mentor: Craig Hunter  
Research Institution: Harvard University  
Home Institution: UC Riverside  
Co-Authors: Lisa Yao, Phil Shiu and Craig Hunter,  
Harvard University, Dept. of Molecular and  
Cellular Biology

**Aranza Portugal Leon, 24..... 9:45-10:45 AM**

Presentation Title: The Effects of a Nutrition Education  
Program on Nutrition Knowledge, Attitudes, and  
Behaviors Among Elementary School Children in  
New York City  
Research Mentor: Kristin Mmari  
Research Institution: Johns Hopkins University  
Home Institution: Brooklyn College CUNY  
Co-Authors: Kristin Mmari and Beth Marshall, Johns  
Hopkins University

**Victoria Quinones, 99..... 8:45-9:45 AM**

Presentation Title: Understanding the Pathway to  
Suicide: The Role of Planning for Suicide  
Research Mentor: Matthew Nock  
Research Institution: Harvard University  
Home Institution: Hunter College  
Co-Authors: Matthew K. Nock and Alexander J.  
Millner, Harvard University, Dept. of Psychology

**Monica Quinones-Frias, 60..... 9:45-10:45 AM**

Presentation Title: Investigation of the Mechanism  
of Gamma-Secretase C-terminal Trimming of  
Amyloid Beta  
Research Mentor: Michael Wolfe  
Research Institution: Harvard University, Division  
of Medical Sciences  
Home Institution: UPR-Rio Piedras  
Co-Authors: Marty Fernandez, Harvard Medical  
School, Biological and Biomedical Sciences  
Program; Michael Wolfe, Harvard Medical School,  
Brigham and Women's Hospital

**Eshaan Rao, 28..... 9:45-10:45 AM**

Presentation Title: Smoothened Inhibitor, LDE225,  
Induces Apoptosis in Medulloblastoma  
Cells Through Activation of the Intrinsic  
Apoptotic Pathway  
Research Mentor: Kat Pak  
Research Institution: Harvard University, Division  
of Medical Sciences  
Home Institution: University of Minnesota-Twin Cities  
Co-Authors: Kat Pak, Harvard Medical School,  
Biological and Biomedical Sciences Program;  
Rosalind Segal, Harvard Medical School, Dana  
Farber Cancer Institute

**Vani Ravichandran, 61 ..... 8:45-9:45 AM**

Presentation Title: Overexpress Yourself: It's Good For The Heart!

Research Mentor: Ruhul Abid

Research Institution: Brown University

Home Institution: University of Maryland, Baltimore County

Co-Authors: Ruhul Abid and Ehtesham Shafique, Brown University

**Valeria Reyes Ruiz, 62..... 9:45-10:45 AM**

Presentation Title: Investigating the Role of AHNK and Sfpq Host Cell Receptors for Listeria Monocytogenes Invasion

Research Mentor: Darren Higgins

Research Institution: Harvard University, Division of Medical Sciences

Home Institution: UPR-Humacao

Co-Authors: Elizabeth M. Halvorsen and Darren E. Higgins, Harvard Medical School, Dept. of Microbiology and Immunobiology

**Sasha Rivers, 74..... 9:45-10:45 AM**

Presentation Title: Soil Ecology of the American Prairie Reserve

Research Mentor: Stephanie Ewing

Research Institution: Montana State University -Bozeman

Home Institution: Salish Kootenai College

Co-Authors: Stephanie Ewing, Montana State University

**Gaddiel Rodriguez, 63..... 8:45-9:45 AM**

Presentation Title: A High Throughput Assay for SAMHD1 Activity

Research Mentor: James Stivers

Research Institution: Johns Hopkins University

Home Institution: Hunter College

Co-Authors: James T. Stivers, Johns Hopkins University

**Andres Rosario, 29..... 8:45-9:45 AM**

Presentation Title: Breast Cancer Specimen Imaging to Detect Residual Cancer During Surgery

Research Mentor: Brian Pogue

Research Institution: Dartmouth College

Home Institution: UPR-Bayamon

Co-Authors: Brian Pogue, Venkataramanan Krishnaswamy and David McClatchy III, Dartmouth College

**Lloydine Runsabove, 64..... 9:45-10:45 AM**

Presentation Title: Characterization of Nitrogen Fixing Cyanobacteria for Organic Bio-fertilizer

Research Mentor: Rich Macur

Research Institution: Montana State University -Bozeman

Home Institution: Chief Dull Knife College

Co-Authors: Rich Macur, Jeffrey Brown and Lisa Weeks, Montana State University

**Tanisha Saini, 65 ..... 8:45-9:45 AM**

Presentation Title: Testing the Contribution of Chromosome Anchoring to Efficient DNA Transport During Sporulation in Bacillus Subtilis

Research Mentor: Brianna Burton

Research Institution: Harvard University

Home Institution: San Francisco State University

Co-Authors: Marina Besprozvannaya and Briana Burton, Harvard University, Dept. of Molecular and Cellular Biology

**Elisa Sanchez, 66 ..... 9:45-10:45 AM**

Presentation Title: Regulation of ERRA by the Molecular Motor Protein KIF17

Research Mentor: Geri Kreitzer

Research Institution: Weill Cornell Graduate School

Home Institution: New Mexico State University

Co-Authors: Geri Kreitzer and Pramodh Seneviratne, Weill Cornell Graduate School of Medical Sciences

**Caio Santos Rodrigues, 100..... 9:45-10:45 AM**

Presentation Title: TIndividual differences in intentionality judgments for victims differing in social status

Research Mentor: Jasmin Cloutier

Research Institution: University of Chicago

Home Institution: Dickinson College

Co-Authors: Jasmin Cloutier and Carlos Cardenas-Iniguez, University of Chicago

**Mary Soliman, 67..... 8:45-9:45 AM**

Presentation Title: Development of a Comprehensive Approach to Maldi Imaging

Research Mentor: David Graham

Research Institution: Johns Hopkins University

Home Institution: UC Irvine

Co-Authors: David Graham and David Colquhoun, Johns Hopkins University

**Darius Stanton, 75 ..... 8:45-9:45 AM**

Presentation Title: Pelagic Microbial Community  
Structure Along an Estuarine Gradient in  
Narragansett Bay

Research Mentor: Jeremy Rich

Research Institution: Brown University

Home Institution: Claflin University

Co-Authors: Catherine M. Luria, Jeremy Rich and  
Heather Leslie, Brown University

**Alexis Staver, 101 ..... 8:45-9:45 AM**

Presentation Title: The Relation Between Child  
Maltreatment and Socioemotional Development of  
Children in the First Two Years of Their Life

Research Mentor: Ann Easterbrooks

Research Institution: Tufts University

Home Institution: San Jose State University

Co-Authors: Ann Easterbrooks and Rachel Katz,  
Tufts University

**Raiha Tahir, 68 ..... 9:45-10:45 AM**

Presentation Title: Investigation of Protein-Protein  
Interactions Within the Yeast Histone  
Acetyltransferase Complex NuA3

Research Mentor: Sean Taverna

Research Institution: Johns Hopkins University

Home Institution: Virginia Commonwealth University

Co-Authors: Tonya Gilbert and Sean Taverna, Johns  
Hopkins University

**Josh Taylor, 82 ..... 9:45-10:45 AM**

Presentation Title: Providing Safe and Reliable  
Interfacing from Vehicle-to-Vehicle Using W.A.V.E.

Research Mentor: Quin Yang

Research Institution: Montana State University -Bozeman

Home Institution: Montana State University -Bozeman

Co-Authors: Quin Yang, Tuan Le and Megan Combs,  
Montana State University

**Krystal Thomas, 102 ..... 9:45-10:45 AM**

Presentation Title: Unpacking the Black Box of  
Coaching Conferences: The Link Between Teacher  
and Classroom Characteristics and Coaches'  
Approach to Feedback

Research Mentor: Jason Downer

Research Institution: University of Virginia School  
of Education

Home Institution: Virginia State University

Co-Authors: Sadie Hasbrouck and Jason Downer,  
University of Virginia - Education Sciences

**Meaghan Valliere, 69 ..... 8:45-9:45 AM**

Presentation Title: Purification of the Native Orphan  
Response Regulator, HP 1043, From *Helicobacter*  
*pylori*

Research Mentor: Paul Hoffman

Research Institution: University of Virginia School  
of Medicine

Home Institution: UMass Amherst

Co-Authors: Igor Olekhovich and Paul Hoffman,  
University of Virginia - BioMedical Sciences

**Marcus Vandall, 30 ..... 9:45-10:45 AM**

Presentation Title: Purification of *Escherichia*  
*coli* Cascade

Research Mentor: Blake Wiedenheft

Research Institution: Montana State University -Bozeman

Home Institution: Fort Belknap College

Co-Authors: Blake Wiedenheft and Sarah Golden,  
Montana State University

**Kadar Vannoy, 31 ..... 8:45-9:45 AM**

Presentation Title: An Analysis to Determine  
Association of Deamination With Aging

Research Mentor: Sanjoy Bhattacharya

Research Institution: University of Miami

Home Institution: Morehouse College

Co-Authors: Sanjoy Bhattacharya, University of Miami;  
Sharon Peng, Gulliver Prep; Elisa Cristino, MAST  
Homestead Campus

**Sahim Wallace, 32 ..... 9:45-10:45 AM**

Presentation Title: Development of a Cell Based Assay  
for Characterizing *Clostridium novyi* Induced  
Inflammation in Mice

Research Mentor: Kenneth Kinzler

Research Institution: Johns Hopkins University

Home Institution: Morehouse College

Co-Authors: Shibin Zhou, Zhaobo Li and Antonio Kim,  
Johns Hopkins University

**Tre Wells, 83 ..... 8:45-9:45 AM**

Presentation Title: Data Envelopment Analysis and Its  
Application to Public School Systems

Research Mentor: William Massey

Research Institution: Princeton University

Home Institution: Morehouse College

Co-Authors: William Massey, Princeton University

**Raymond White, 33 ..... 8:45-9:45 AM**

Presentation Title: Multilocus Variable Number Tandem  
Repeat Analysis (MLVA) of Extended Spectrum  
Beta-Lactamase (ESBL)-producing Strains of  
Klebsiella Pneumoniae  
Research Mentor: Seth Walk  
Research Institution: Montana State University -Bozeman  
Home Institution: Montana State University -Bozeman  
Co-Authors: Seth Walk and Susan Broadway, Montana  
State University

**Jeremiah Williams, 103 ..... 8:45-9:45 AM**

Presentation Title: Position Dependence of Human  
Visual Object Recognition  
Research Mentor: George Alvarez  
Research Institution: Harvard University  
Home Institution: University of Colorado at Denver  
Co-Authors: George Alvarez, Harvard University,  
Dept. of Psychology

**Lindsey Wirsing, 70 ..... 9:45-10:45 AM**

Presentation Title: Gene Expression Analysis of the  
Human IL1RN Gene Using Real-Time PCR  
Research Mentor: Liyong Wang  
Research Institution: University of Miami  
Home Institution: University of New Haven  
Co-Authors: Liyong Wang and Stephanie Page,  
University of Miami

**Aspen Yoo, 104..... 9:45-10:45 AM**

Presentation Title: Investigating Orientation Invariance  
in Visual Object Recognition  
Research Mentor: George Alvarez  
Research Institution: Harvard University  
Home Institution: CSU Fullerton  
Co-Authors: George Alvarez, Harvard University, Dept.  
of Psychology

**Theodore Zaki, 71 ..... 8:45-9:45 AM**

Presentation Title: Optimization of RNA Extraction and  
Purification Protocols from Small Cell Samples  
Research Mentor: Sandeep Datta  
Research Institution: Harvard University, Division  
of Medical Sciences  
Home Institution: UC Irvine  
Co-Authors: Taralyn Tan, Harvard Medical School,  
Program in Neuroscience; Sandeep Robert Datta,  
Harvard Medical School, Dept. of Neurobiology



## NEW DOCTORAL SCHOLARS

The Leadership Alliance congratulates the following doctoral scholars who have recently completed their PhDs or MD-PhDs. These doctoral scholars bring the total number of Leadership Alliance doctoral scholars to 276.

### Ugochi Acholonu, PhD

BS, 2003, Stanford University;  
PhD, 2013, Stanford University

### Gladys Arzola-Colon, PhD

BS, 1999, UPR-Rio Piedras;  
PhD, 2009, Palo Alto University

### Amalia Avila Figueroa, PhD

BS, 2007, UPR-Rio Piedras;  
PhD, 2012, Brown University

### Jacqueline Baca, PhD

BS, 2001, University of Arizona;  
PhD, 2012, University of Wisconsin Madison

### Danielle Brown, PhD

BS, 2001, Cornell University;  
PhD, 2011, UC Davis

### LaNissa Brown-Baker, PhD

BS, 2000, Alabama State University;  
PhD, 2006, Meharry Medical College

### La Marr Bruce, PhD

BA, 2003, Columbia University;  
PhD, 2013, Yale University

### Elvin Thomaseo Burton, PhD

BS, 2003, Jackson State University;  
PhD, 2011, Purdue University

### David Charlot, PhD

BS, 2004, Delaware State University;  
PhD, 2010, UC San Diego

### Miguel Chavez, PhD

BA, 2002, UC Berkeley;  
PhD, 2012, UCLA

### Orly Clerge, PhD

BA, 2005, Wheaton College;  
PhD, 2013, Brown University

### Zenobia Cofer, PhD

BS, 2001, Cornell University;  
PhD, 2012, Thomas Jefferson University

### Thomas Gallegos, PhD

BS, 2002, New Mexico State University;  
PhD, 2010, UC San Diego

### Armando Garcia, PhD

BA, 2006, Brown University;  
PhD, 2012, Cornell University

### David Garcia, PhD

BS, 2004, UC Santa Cruz;  
PhD, 2012, Massachusetts Institute  
of Technology

### Tracey Graham, PhD

BA, 2000, Columbia University;  
PhD, 2013, University of Chicago

### Jesús Hernández, PhD

BA, 2003, Brown University;  
PhD, 2012, University of Southern California

### Javier Hidalgo, PhD

BA, 2005, Reed College;  
PhD, 2011, Princeton University

### Noelle Hutchins, PhD

BS, 2004, University of North Carolina  
Chapel Hill;  
PhD, 2013, Brown University

### Maria Jimenez, PhD

BA, 2003, UC Santa Cruz;  
PhD, 2012, University of Illinois  
at Urbana-Champaign

### Maria Johnson, PhD

BA, 2003, Hampton University;  
PhD, 2010, University of Michigan-  
Ann Arbor

### Guarionex Jordan-Salivia, PhD

BS, 2000, UPR-Rio Piedras;  
PhD, 2012, University of Iowa

### Rebecca Loya, PhD

BA, 2002, Stanford University;  
PhD, 2012, Brandeis University

### Priscilla Maldonado Fussell, PhD

BS, 2004, Cornell University;  
PhD, 2011, New York University

### Consuelo Martinez Reyes, PhD

BA, 2003, UPR-Rio Piedras;  
PhD, 2009, University of Pennsylvania

### Sam McNeal, PhD

BS, 2006, Georgia State University;  
PhD, 2012, Brown University

### Geronda Montalvo, PhD

BS, 2006, Clark Atlanta University;  
PhD, 2012, University of Pennsylvania

### Erica Morales, PhD

BS, 2003, UMass Amherst;  
PhD, 2012, UCLA

### Stephen Nunez, PhD

AB, 2002, Princeton University;  
PhD, 2011, Stanford University

### Khary Polk, PhD

BA, 2000, Oberlin College;  
PhD, 2011, New York University

### Yisa Rumala, PhD

BS, 2006, York College CUNY;  
PhD, 2012, University of Michigan-  
Ann Arbor

### Raymon Shirk, PhD

BS, 2004, Howard University;  
PhD, 2011, Tuskegee University

### Kendra Simpson, PhD

BS, 2006, North Carolina State University;  
PhD, 2012, University of Virginia

### Armádo Tolliver, PhD

BS, 2008, Dillard University;  
PhD, 2013, Jones International University

### Alexandra Valdés-Wochinger, PhD

BS, 2003, UPR-Humacao;  
PhD, 2011, SUNY Stony Brook

### Natalia Valencia, PhD

BA, 2004, UPR-Mayaguez;  
PhD, 2011, UC Berkeley

### Tameka Michelle Walker, PhD

BS, 2004, Alabama State University;  
PhD, 2011, University of Alabama-Huntsville

### Marcia Walker, PhD

BS, 2006, Northwestern University;  
PhD, 2012, University of Chicago

### Metoka Welch, PhD

BA, 2004, University of North Carolina  
Chapel Hill;  
PhD, 2010, University of North Carolina  
Greensboro

### Ling Wong, PhD

BS, 2006, Brown University;  
PhD, 2013, University of California, Davis

## MD-PhD

### Muyiwa Awoniyi, MD-PhD

BS, 2003, Beloit College;  
MD-PhD, 2012, University of Washington

### Odmara Barreto-Chang, MD-PhD

BS, 2001, UPR-Mayaguez;  
MD-PhD, 2010, Stanford University

### Justin Brooks, MD-PhD

BS, 2004, University of Maryland,  
Baltimore County;  
MD-PhD, 2012, Washington University  
in St. Louis



**Kester Haye, MD-PhD**

BS, 2002, Brooklyn College CUNY;  
MD-PhD, 2012, Mt. Sinai School  
of Medicine

**Kisha Piggott, MD-PhD**

BS, 2003, Spelman College;  
MD-PhD, 2011, Emory University

**Tiffany Potter Link, MD-PhD**

BS, 2004, CSU Long Beach;  
MD-PhD, 2012, Johns Hopkins University

**Calvin Williams, MD-PhD**

BS, 2002, University of Maryland,  
Baltimore County;  
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## Amalia Avila Figueroa

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Molecular, Cellular and  
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## Travis Boyce

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## Sophia Suarez

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## WHO'S WHO AT THE SYMPOSIUM



**S. Tyrone Barksdale**

*Howard University*

S. Tyrone Barksdale is a higher education administrator, cancer clinician, professional broadcaster, health policy analyst, motivational speaker and corporate trainer. He presently serves as the Leadership Alliance Summer Program Coordinator for Howard University. He received undergraduate and graduate degrees from Howard University in 1980 and 1983 respectively. Prior to joining the Office of the Provost and Chief Academic Officer in 2000, Mr. Barksdale was assistant professor and program director for the Health Management Program in the College of Pharmacy, Nursing and Allied Health Sciences where he specialized in healthcare administration and managed care policy. Mr. Barksdale aka "Tyrone Stanley," is presently a producer/host and on-air personality for WHUR-FM, Washington, DC where he began his broadcast career more than 30 years ago hosting the Quiet Storm among the station's many programs. He has appeared on numerous other programs on stations such as Sirius/XM and WHUR-FM. Mr. Barksdale serves on boards of directors of several non-profit organizations in the metropolitan Washington Area and has been the recipient of numerous awards and citations from various civic and professional associations.



**Erika Barr**

*National Institutes of Health*

Dr. Barr, a native of North Carolina, received her Bachelors and Masters of Science degrees in Biology from North Carolina Agricultural & Technical State University. Following her undergraduate studies, she taught 6th grade science for the N.C. public school system. In addition to teaching, she served as an assistant coordinator for the Greensboro Area Math and Science Education Center (GAMSEC). The purpose of GAMSEC was to improve the math and science skills of middle and high school students from underrepresented backgrounds. Moreover, there was an emphasis in encouraging the students to pursue an undergraduate degree in a STEM discipline. After receiving her PhD in Biology, Erika completed two postdoctoral fellowships at the Medical Research Council-London School of Hygiene and Tropical Disease in The Gambia, West Africa and at the National Institutes on Aging in Baltimore, MD. Currently, Dr. Barr is the co-director for the Community College Summer Enrichment Program in the Office of Intramural Training & Education. Dr. Barr has a passion for increasing the number of underrepresented individuals in the biomedical sciences.



**Geneva H. Baxter**

*Spelman College*

Geneva H. Baxter, Associate Dean for Undergraduate Studies, assists in providing oversight for the development and implementation of academic standards, policies, and programs. She also works with other offices to provide academic support services for students. She coordinates academic advising for first-year students and the First-year Experience Seminar. She also oversees the College's First-generation Student Success and Leadership Initiative. A member of several professional and civic organizations, Dr. Baxter received her BA degree in English from Spelman College, MA degree in American Literature from the University of Wisconsin and her PhD in American Literature and Rhetoric from Georgia State University.



**Jabbar R. Bennett, Ph.D.**

*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.





### **Anastacia Berzat**

*Novartis Institutes for BioMedical Research*

Anastacia Berzat joined Novartis Institutes for BioMedical Research as a Scientific Program Manager following completion of a postdoctoral fellowship at Memorial Sloan-Kettering Cancer Center. Her work includes the development and implementation of training programs for young scientists. Prior to joining NIBR, Anastacia earned a BS in Biology from Florida A&M University and a PhD in Genetics and Molecular Biology from the University of North Carolina at Chapel Hill. As a recipient of graduate fellowships from the National Cancer Institute and UNC-CH, her work examined the molecular

mechanisms utilized by small GTPases in regulating cellular transformation. At Memorial Sloan-Kettering, Anastacia was awarded an American Cancer Society fellowship to investigate the role of Rho GTPases in driving glioma invasion under the guidance of Professor Alan Hall. Anastacia also completed a program management internship with the New York Academy of Sciences and served as an executive member on several postdoctoral advocacy councils during her fellowship.



### **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. Dr. Boyce's area of expertise is in the history of education; particularly, college presidents at Historically Black Colleges and Universities (HBCUs) during the mid-twentieth century. He has articles published in the *Journal of Pan African Studies*, *Journal of African American Males in Education* and the *African American National Biography*. He has reviewed

books for the *Journal of Negro Education* and *The South Carolina Historical Magazine* and contributed chapters to edited books. In addition to his instructional and professional activities, Dr. Boyce serves as the vice-chair of the Liberal Arts Council, the co-editor for UNC's Undergraduate Research Journal (URJ), co-advisor to the Mortar Board Collegiate Honor Society, advisor to the Future Secondary Educators Alliance, and a Faculty in Residence (South Hall – 2013/14 academic year) for Housing and Residential Education.



### **Tashalee Brown**

*Weill Cornell/Rockefeller/Sloan-Kettering*

Tashalee Brown is currently a 5th year MD/PhD student at Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional MD/PhD Program. She earned her BS in Biomedical Engineering at Johns Hopkins University. After graduation, she performed laboratory research at the National Institute on Aging. Her work has resulted in co-authorship of several papers published in scientific journals, including *Circulation Research*. Tashalee is currently pursuing her PhD in the Christini lab in the Department of Physiology, Biophysics & Systems Biology at Weill Cornell Graduate School of Medical Sciences. Her doctoral

research focuses on investigating arrhythmia mechanisms in cardiac disease using computational modeling and experimental electrophysiology. She is an alumni of the Tri-Institutional Gateway's to the Laboratory program and has served on its admissions committee and as a student mentor.



### **La Marr Jurelle Bruce**

*Yale University*

La Marr Jurelle Bruce earned his B.A. (2003, *cum laude*) in African-American Studies and English from Columbia University and his Ph.D. (2013) in African-American Studies and American Studies from Yale University. His dissertation—now a budding book project—examines how “madness” has been ascribed to Afrodiasporic peoples by Eurocentric and white supremacist regimes across modernity. Furthermore, the project explores how twentieth- and twenty-first-century African-American artists have generated, claimed, and instrumentalized “madness” for radical creativity. He has received grants and honors from

the Beinecke Rare Book and Manuscript Library at Yale University; the Carter G. Woodson Institute at the University of Virginia; the Fund for Lesbian and Gay Studies at Yale University; the Mellon Foundation; the Social Science Research Council; and the Text and Academic Authors Association. Among his hobbies are time travel, nature documentaries, cool-posing, hand-washing, and self-parody.



### **Don Brunson, PhD**

*Vanderbilt University*

Dr. Don Brunson is the Assistant Dean of the Vanderbilt University Graduate School and the Director of the Graduate School's Enhancing Diversity in Graduate Education Program. He is responsible for leading recruitment and retention efforts for Ph.D. students from under-represented minority groups and other diverse student populations in all fields of study and women Ph.D. students majoring in science, technology, engineering, or mathematics fields. He was a MARC Honors Undergraduate Research Training Program at Morgan State University and attended the Massachusetts Institute of Technology (MIT) on a MARC graduate fellowship where he became the first African-American to earn a Ph.D. in Toxicology from MIT. After completing a two-year post-doctoral fellowship in the Department of Pharmacology and Molecular Sciences at the Johns Hopkins University School of Medicine, he altered his career path from scientific research to university administration and has held administrative positions at MIT, Morgan State University, and Vanderbilt University.



### **Brooke Bruthers**

*American Physiological Society*

Brooke Bruthers is Senior Program Manager, Diversity Programs at the American Physiological Society. Her main responsibilities include developing, organizing, and implementing education projects and programs aimed at promoting diversity and career advancement among physiologists from underrepresented groups. This includes several undergraduate summer research fellowship programs (STEP-UP, STRIDE, and IOSP), Minority Travel Fellowship Awards, Steven M. Horvath Professional Opportunity Awards, Porter Physiology Development Fellowship program, and the K-12 Minority Outreach Fellowship program. She works extensively with both the Porter Physiology Development and Minority Affairs and the Women in Physiology Committees on these projects and regularly attends meetings and conferences to give presentations about these programs. In addition, she serves as the Chair of the Staff Recognition Committee. Ms. Bruthers received her B.A. degree in Liberal Arts from West Virginia University.



### **Chris Cash**

*Institute for Broadening Participation*

Chris is the Director of Student Assistance Programs for IBP. Chris identifies and assists promising students in locating and applying to undergraduate summer research and graduate programs at colleges and universities throughout the United States. She has worked for the last several years in the area of marine fisheries education and outreach. She was formerly a marine officer and fellowship coordinator at the Island Institute, a non-profit educational organization located in mid-coast Maine. Chris continues to stay involved with Maine marine projects and initiatives.



### **Roger Chalkley**

*Vanderbilt University*

Roger Chalkley has had an extensive career engaged in both teaching and research. The research was directed towards the issues of gene regulation in different tissues. His group was the first to outline the kinetics of histone modifications, to correctly identify the process of histone distribution at replication and to outline the formaldehyde cross-linking now used extensively in CHIP assays. Chalkley was responsible for designing the Vanderbilt IGP, which has served as a model for many other institutions. In his role as Director of the IGP (1992-2001), he created the Vanderbilt graduate diversity program, which has now led to the awarding of its 50th PhD in biomedical research at this institution. Chalkley has been a senior advisor to the Vanderbilt Bridges program and has served as an advisor to MARC related programs at Arizona State University, Tougaloo College and Savannah State College. He has been director of the Vanderbilt IMSD which has trained over 70 URM students of which >80% have received the PhD or are currently in graduate programs. Over the years, Chalkley has continued his interest in innovative approaches to graduate education both at Vanderbilt and nationally. He was chair of the NRC Workforce Committee on Biomedical Training in 2010.



### **Mary Crowe**

*Florida Southern College*

Dr. Mary Crowe is the Associate Provost of Experiential Education at Florida Southern College and the 2012-2013 President of the Council on Undergraduate Research ([www.cur.org](http://www.cur.org)). Over the course of her career, she has been an ardent supporter of undergraduate research. As a faculty member, she mentored students in her research programs investigating the burrowing behavior of dung beetles and of fiddler and ghost crabs, co-authoring multiple peer reviewed manuscripts with her students. As an administrator at Florida Southern College, the University of North Carolina at Greensboro and at Xavier University of

Louisiana she has worked to implement funding, policies and procedures to remove hurdles for faculty- across all disciplines- to engage undergraduate students in their work. She has received extensive external support for undergraduate research training and broadening participation of under-representative groups in science and mathematical fields.



### **Jewell Debnam**

*Michigan State University*

Jewell Debnam is currently a Doctoral Candidate in the Department of History at Michigan State University. She is a Third Year Graduate Student at Michigan State University and received her B.A. in African American and African Studies and History from the University of Virginia in 2010. Her research fields include United States History since 1865, Labor and Working Class History, African American and African Studies. Debnam has received several fellowships, honors, and awards such as the Madison A. Kuhn Award for United States History from the Department of History at Michigan State University

(2011-2012), the Harry A. Brown Graduate Fellowship in American History from the Department of History at Michigan State University (2013) Her professional affiliations include the Association for the Study of African American Life and History, American Historical Association. She is a historian of twentieth century United States History, Labor and Working Class History, and African American History. Debnam's current research focuses on the intersections of workers' rights and resistance, the modern Civil Rights Movement, the Black Power Movement, and black women's activism.



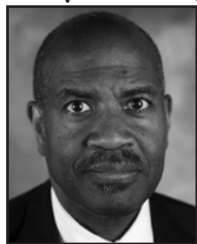
### **Arnaldo Diaz**

*University of Pennsylvania*

Arnaldo Diaz is an Adjunct Assistant Professor in the Department of Pharmacology and the Associate Director of Recruitment and Special Programs at the Perelman School of Medicine, Biomedical Graduate Studies (BGS). Dr. Diaz works collaboratively with the Associate Dean, Administrative Director, and program faculty to develop and implement targeted outreach and recruitment strategies aimed at increasing the total number of students from under-represented backgrounds pursuing PhDs in biomedical graduate programs. Dr. Diaz also co-directs the Summer Undergraduate Internship Program (SUIP) and the

Post-Baccalaureate Research Education Program (PennPREP), and is a member of the PhD Admissions Committee. Dr. Diaz received his B.S. degree in Chemistry from the University of Puerto Rico and Ph.D. degree in Biochemistry and Biophysics from Texas A&M University, and was a NIH Postdoctoral Fellow in Cancer Pharmacology at the University of Pennsylvania.

### **Lloyd E. Douglas**



*The University of North Carolina at Greensboro*

Lloyd E. Douglas is the Associate Director of the Office of Contracts and Grants at the University of North Carolina at Greensboro (UNCG). 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 different 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.



### **Andrew Drysdale**

*Weill Cornell/Rockefeller/Sloan-Kettering*

Andrew Drysdale is a rising 4th-year student in the Tri-Institutional (Weill-Rockefeller-Sloan-Kettering) MD-PhD Program. He is currently completing his PhD in the Sackler Institute of Cornell under the direction of BJ Casey. He studies the development and neuroanatomical basis of impulsivity, focusing on adolescents. He graduated from Pomona College in 2009 and previously worked as a research assistant in molecular biology and cognitive neuroscience laboratories.



### **Mary Farwell**

*East Carolina University*

Mary Farwell 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. Professor Farwell teaches cell biology and biochemistry, as well as courses in mentoring (for graduate students) and research (for honors students). She has served on grant review panels for NIH and the American Heart Association. Professor Farwell 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 four 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 Program, along with the ASM Research Capstone Institute. 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.





### **Alyssa Garcia**

*Pennsylvania State University*

Alyssa Garcia is a Leadership Alliance Alumni from Brown University where she received her Bachelor's degree in Cross-Cultural Psychology. She earned her Masters and PhD in Anthropology from the University of Illinois, Urbana-Champaign and currently is an Assistant Professor in the Women's Studies Department at Pennsylvania State University. Her primary research and teaching interests in Latina/o and Latin American/Caribbean Studies include Intersectionality, Critical Race Theory, Feminist Ethnography, Applied Anthropology, and Third Wave Feminism. As a recipient of the Woodrow Wilson Foundation Junior Faculty Career Enhancement Fellowship, she is dedicating this year to editing her manuscript "*Moral Discourses, Regulated Bodies: Sex, the State, and Subjectivity in Cuba*" which examines the intersections of race, gender, and sexuality in Cuba through a historically grounded ethnographic analysis of discourses of sex-work and the body. Dr Garcia's more recent project investigates the secondary migration of the Dominican community in the state of Pennsylvania. Her selected publications include: "*Latina Faculty Narratives and the Challenges of Tenure: Identifying Strategies, Institutionalizing Accountability*" in *Mentoring Faculty of Color: Achieving Tenure and Promotion at Predominantly White Colleges and Universities*; *Continuous Moral Economies: The State Regulation of Bodies and Sex-Work in Cuba*, *Sexualities* (2010); *Situating Race, Navigating Belonging: Mapping Afro-Cuban Identities in the U.S.*, *Latina/o Research Review* (2009); and *Counter-Stories of Race and Gender: Situating the Experiences of Latinas in the Academy*, *Latino Studies Journal* (2005).



### **Leslie Godo-Solo**

*Institute for the Recruitment of Teachers*

Leslie Godo-Solo is the Associate Director of the Institute for Recruitment of Teachers (IRT). Ms. Godo-Solo 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.



### **Christine Gonzalez**

*Hunter College*

Christine Gonzalez is Associate Program Manager and manages the budget and accounting requirements for Hunter's biomedical facilities and departments. She has also been Summer Program Coordinator for four years. Ms. Gonzalez received her B.A. degree in Political Science from Queens College and M.S.Ed. degree in Higher Education Administration from Baruch College.



### **Ruth Gotian**

*Weill Cornell/Rockefeller/Sloan-Kettering*

Ruth Gotian has been the Administrative Director of the Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional MD-PhD Program for nearly 17 years. She has worked with students in the undergraduate, graduate and post graduate levels, as well as faculty and government officials at all levels. She has worked on higher education issues on the local, regional, national and international levels. She received her B.S. and M.S. in Business Management from the University at Stony Brook in New York and is currently pursuing certificates in Executive Leadership and Managing for Execution via Cornell University. Since joining the staff of the Tri-Institutional MD-PhD Program, Mrs. Gotian has seen the size of the program increase by over 40%, the number of applications to their MD-PhD Program has increased by 40% 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.



### **Dr. Michelle M. Grundy**

*Vanderbilt University*

Dr. Michelle M. Grundy serves as Assistant Director of the Medical Scientist Training Program (MSTP) and Assistant Director of Graduate Programs in Biomedical Sciences at Vanderbilt University School of Medicine. Dr. Grundy earned her Ph.D. in 2000 from the Department of Microbiology and Immunology at Vanderbilt University. Dr. Grundy is primarily responsible for student recruitment and directing the admissions process for the Ph.D. programs and M.D./Ph.D. Program in the medical school. Dr. Grundy serves as an active member of the MD/Ph.D. admissions committee, serves on the MSTP Leadership Team and in an advisory role for the MSTP Student Advisory Committee (SAC). As an advisor to the MSTP SAC, Dr. Grundy has co-led a subcommittee to evaluate and revise our advising system as well as co-leading a subcommittee to develop programming to assist our students in identifying and securing external funding sources during their graduate studies.



### **Sonya Gwak**

*University of Pennsylvania*

Sonya Gwak is the Director for Graduate Admissions and the Director for Student Life for the School of Engineering and Applied Science at the University of Pennsylvania. In her dual capacity, Dr. Gwak oversees student affairs from recruitment to graduation for all graduate students. Dr. Gwak received her B.A. degrees in English and Design of Environment, her M.S.Ed in Intercultural Communication, and Ph.D. in Education all from the University of Pennsylvania.



### **Louise Hainline**

*Brooklyn College*

Louise Hainline is Professor of Psychology at Brooklyn College. She is a development and cognitive psychologist with degrees in Psychology from Brown University and Harvard University. She has done research on the development of infant vision in the area of developmental behavioral neuroscience, with a focus on assessment of early visual disorders and studies of the oculomotor system. She served for over a dozen years as Dean for Research and Graduate Studies for Brooklyn College. Her current research interests are on how people learn, particularly in higher education; the effectiveness of different types of STEM pedagogy; and the psychological issues confronted by under-represented students in academic settings. She is currently the PI/PD on several federally-funded programs to help under-represented students pursue research careers in STEM, as well as programs to provide professional development for graduate students and post-doctoral fellows.





### **Sara Xayarath Hernandez**

*Cornell University*

Sara Xayarath Hernández is the Director of the Diversity Programs in Engineering (DPE) at Cornell University office, which operates programs at the precollege, undergraduate, graduate, and faculty levels to facilitate the outreach, recruitment, retention, and overall success of underrepresented minorities, women, and other underrepresented groups in Engineering. As director of DPE, Hernández provides leadership on diversity initiatives across the college. She also serves as the Co-PI for Cornell's Alfred P. Sloan Foundation supported Sloan Minority PhD Program and for Cornell's National Science Foundation supported Louis

Stokes Alliance for Minority Participation (LSAMP) and STEM Talent Expansion (STEP) Programs. Additionally, Hernández serves as a Regional Specialist for the Institute for Broadening Participation and supports their outreach work with STEM students. Hernández is a first generation college student and holds a Bachelor of Arts in Zoology from Ohio Wesleyan University and a Master of Regional Planning from Cornell University.



### **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.



### **Rebecca Keiser**

*NASA*

As NASA's associate deputy administrator for strategy & policy, Dr. Rebecca Spyke Keiser reports directly to Deputy Administrator Lori Garver as the primary coordinator for agency-level policy and strategy efforts. She helps implement a wide range of initiatives in support of NASA's goals, and integrates the efforts of the agency's various strategic planning offices to ensure consistency with the White House and legislative direction, while supervising an analytic staff in the Office of Strategy Formulation. Keiser previously had served as the executive officer for the deputy administrator, chief of staff for the Exploration

Systems Mission Directorate at NASA Headquarters and the executive officer for former NASA Deputy Administrator Shana Dale from 2005 to 2008. Keiser has served in NASA's Office of International and Interagency Relations as the lead for France, Spain, and Portugal, and the human spaceflight lead for Asia. She also was the assistant to the director for International Relations in the Office of Science and Technology Policy. Keiser earned a Bachelor of Arts degree in Japanese Studies from Wellesley College, a Master of Science degree in Politics of the World Economy from the London School of Economics, and a doctorate in International Studies from the University of South Carolina. She has received numerous NASA awards for exceptional service.



### **Laina King**

*Keystone Symposia on Molecular and Cellular Biology*

Dr. King is the Director of Diversity in Life Science Programs and Co-Mentor of the Keystone Symposia Fellows Program. Former Academic Dean and Professor of Pharmaceutical sciences at a regional health sciences center, she joined Keystone Symposia in 2008. A past appointed member of the AMA/AAMC Liaison Committee on Medical Education (LCME), she has held numerous academic appointments along with serving as Japan consultant for the U.S. DOD. She currently is a voting member of a U.S. FDA Drug Advisory Committee and the Principal Investigator of an NIH MARC T-36 grant. Keystone Symposia, founded

as UCLA Symposia in 1972 offers scholarships and mentoring opportunities for scientists attending the 55+ "cutting-edge" research conferences held globally each year. Dr. King received her B.A., M.A. and Ph.D. from The University of Michigan – Ann Arbor.



### **Arlene Kohler**

*New York University*

Arlene Kohler has been affiliated with the MD PhD Program at New York University for over 37 years. Currently working with her seventh Director of the Medical Scientist Training Program (MSTP), her longevity in the position has earned her the honorific title of “Queen” among administrators and Directors of MST Programs nationwide. While attending evening classes at NYU’s School of Continuing and Professional Studies, Ms. Kohler worked for the MSTP at NYU. She earned her B.A. in American Studies and Literature graduating with honors. Her accumulated wisdom and tireless hard work make her the de

facto ombudsman for students, faculty and administrators alike.



### **Nikia A. Laurie, Ph.D.**

*Northwestern University Feinberg School of Medicine*

Nikia A. Laurie, Ph.D., is an Assistant Professor in the Department of Pediatrics at Northwestern University Feinberg School of Medicine. She is also a member of the Cancer Biology and Epigenomics Program, and founder of the Retinoblastoma Center of Excellence at Lurie Children’s Hospital of Chicago Research Center. Dr. Laurie received her Ph.D. at Brown University, and her postdoctoral training at St. Jude Children’s Research Hospital. Dr. Laurie’s laboratory studies retinoblastoma, the most common pediatric cancer of the eye. Her laboratory’s mission is to understand the molecular mechanisms associated

with retinoblastoma progression for the identification of novel therapeutic targets. Dr. Laurie has published her research in numerous high-impact journals. She is a proud alumnus of the Leadership Alliance, and credits her early research experiences with reinforcing her passion for research.



### **Caryl McFarlane**

*Woodrow Wilson National Fellowship Foundation*

Dr. Caryl McFarlane is the Senior Program Officer and Director of the Andrew W. Mellon and the Thomas R. Pickering Programs at the Woodrow Wilson National Fellowship Foundation in Princeton, NJ. Before beginning her work at the Foundation, Caryl was involved in numerous activities in the larger Princeton community including teaching 20th Century African Diaspora literature at Princeton Day School, teaching composition and African Diaspora literature at Rutgers University, working as a test writer for ETS, working as a coordinator with Upward Bound, teaching a variety of courses for women

in her local community, and recruiting, developing and training teams for work with impoverished youth in the Caribbean. She completed her undergraduate degree at Queens College of the City University of New York (CUNY) and was a recipient of numerous awards and honors including her selection as an awardee for the prestigious Mellon Mays Undergraduate Fellowship (MMUF) and her selection as the commencement speaker. She completed her doctoral studies in 20th Century African Diaspora Literature at Rutgers University (New Brunswick) funded, in part, by a NJ Minority Advancement Award. During her doctoral studies, while teaching courses, she also pursued her love of music and administration in her local church. She continues to be active in her community, serving on various boards, teaching and mentoring women, and continuing to develop teams and curriculum for her work with youth in the Caribbean. She and her spouse, Maurice McFarlane have two boys aged 11 and 14.



### **Pushpa Murthy**

*National Science Foundation*

Pushpa Murthy is currently working at the National Science Foundation. She is a Program Director for the Graduate Research Fellowship Program. Pushpa got her PhD in chemistry from Brown University in Providence, Rhode Island. After her PhD, she conducted postdoctoral research in neurochemistry at the University of Michigan in Ann Arbor, Michigan before joining the Research and Development Department of Stauffer Chemical Company in Dobbs Ferry, New York. After 2 years of industrial research she realized that her passion was in teaching and fundamental research so she joined Michigan

Technological University as an Assistant Professor. She is a Professor of Chemistry at her home institution, Michigan Technological University in Houghton, Michigan. She has taught and conducted research with undergraduate and graduate students for over 20 years. She has mentored over 50 undergraduate students in her laboratory. She has been at NSF for a year.



### **Michelle Nearon**

*Yale University*

Michelle Nearon is Assistant Dean in the Graduate School and Director of the Office for Diversity and Equal Opportunity. She develops and implements strategic planning specific to the office, thus ensuring quality graduate student support services such as mentoring, advising, and professional development. She also coordinates campus-wide admissions initiatives and directs a summer undergraduate research program. Dr. Nearon serves on the President's Minority Advisory Council and the President's Committee on Racial and Ethnic Harassment. Dr. Nearon earned her B.S. and M.S. degrees in aerospace engineering from the Massachusetts Institute of Technology and Brooklyn Polytechnic University, respectively, and a PhD in mechanical engineering from Stony Brook University. Before joining Yale, she was an Assistant Professor in Stony Brook University's Mechanical Engineering Department while simultaneously serving as Director of Recruitment and Diversification for the College of Engineering and Applied Sciences.



### **Chinonye Nnakwe**

*University of Chicago*

Chinonye "Chi-Chi" Nnakwe is the Director of Graduate Diversity Recruitment at the University of Chicago. In her position, she collaborates with faculty, students and administrators in all divisions and professional schools to create, enhance, revise and execute a strategy for recruiting students from underrepresented backgrounds. In addition to her outreach work, Dr. Nnakwe is also building curricula and a research agenda that address educational disparities among underrepresented groups in higher education. Dr. Nnakwe received her B. Sc. in Biochemistry with Distinction in the Curriculum from the University of Illinois at Urbana-Champaign and her Ph. D. in Pathology, with a concentration in Cancer Biology and Yeast Genetics from the University of Chicago.



### **Christine O'Brien**

*National Academy of Science*

Chris O'Brien received her BS degree at St. Joseph's University and a Master of Arts degree in Education at Villanova University. Chris taught for six years in the parochial school system of the Archdiocese of Philadelphia before working in fellowship program administration at the National Academies in Washington, DC. Chris' program oversight has included privately and federally funded fellowship programs at the predoctoral, dissertation, and postdoctoral levels. Since 1979, her responsibilities have been primarily in the administration of Ford Foundation Fellowships designed to increase and foster diversity as a teaching tool in higher education. Along with a colleague, Chris created the Fellowship Roundtable in 1995. This biannual meeting brings together fellowship administrators whose goal is to share best practices and discuss innovations in the administration of fellowships. The Fellowship Roundtable is in its 18th year of serving as a resource to fellowship administrators.



### **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 (>320 students) and Postdoctoral (>800) trainees and graduate research training programs. He has served on the NYU School of Medicine's MD and MD/PhD. Admissions Committees and chairs the Ph.D. Admissions Committee for the past 20 years.

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, and UNCF/Merck), grant study sections (NCATS, NIAID, NIGMS, NSF, Sloan Foundation, UNCF/Merck), as a reviewer of numerous NRC, NSF and NAS reports involved with graduate education, pipeline issues and the recruitment and retention of underrepresented students to graduate programs. He also has served (serves) on the external advisory boards and program review boards of a number of state and national accrediting agencies, colleges and universities. Dr. Oppenheim has been an invited speaker to over 70 colleges and universities, at the NRC, NSF and NIH as well as at ABRCMS, Leadership Alliance, McNair, SACNAS and UNCF/Merck national meetings, speaking to students and faculty on topics ranging from how to prepare for and apply to graduate and professional schools, to strategies for the recruitment and retention of students and career options. In 2010, Dr. Oppenheim was the recipient of the AAAS (American Association of the Advancement of Sciences) Life Time Mentoring Award, one of the nation's highest mentoring awards. Dr. Oppenheim was also one of the founding members of the Leadership Alliance in 1992.



### **Larry Steven Perry, II**

*University of Virginia*

Larry Steven Perry, II, hails from Timonium, Maryland. Larry is a graduate of Fisk University (B.A. '07) and Union Theological Seminary in the City of New York (M.Div. '10), and is currently a PhD student at the University of Virginia in the Religious Studies department with a concentration in American Religious History. More specifically, he focuses on the history of American religious thought and leftist American religious movements. His research attempts to properly place the life and works of, mystic and theologian, Howard Thurman within the streams of American intellectual history. Larry also has taken

part in ministry work, he was a chaplain intern at Sing Sing Correctional Facility during his last year at Union Seminary and is currently an associate minister at the Open Church of Maryland in Baltimore.



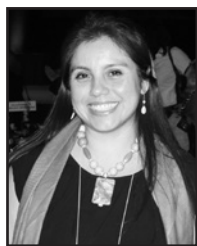
### **Kisha Piggott**

*Washington University*

Kisha Piggott is a PGY3 Ophthalmology resident at Washington University School of Medicine. Dr. Piggott received her B.S degree in Biology from Spelman College and her medical degree and Ph.D. degree in Immunology at Emory University School of Medicine, where she studied the mechanisms regulating dysfunctional T cell responses in large vessel vasculitis. She remains committed to the promotion of diversity in the medical profession, through mentorship to medical students with a focus on professional development. As a recipient of the Resident Diversity Initiative Grant, she remains engaged in the

provision of culturally relevant, patient-centered care and is an active member of the Barnes-Jewish Hospital Resident Diversity and Fellows Initiative.





### **Teresa Ramírez**

*Brown University*

Teresa Ramirez is a PhD Candidate in the Molecular Pharmacology, Physiology and Biotechnology Program at Brown University, under the mentorship of Dr. Suzanne de la Monte. She is the founder and past president of the Brown Society for Advancement of Chicanos and Native Americans in Science Chapter, which is dedicated in fostering the success of students in pursuing advance degrees, careers and leadership positions in the sciences. Ms. Ramirez is first generation Mexican-American to have graduated from college and to pursue a doctoral degree. She received her B.S. degree in General Biology from California State University, Dominguez Hills, and did a post-baccalaureate program at the NCI in Frederick, MD. Ms. Ramirez's dissertation focuses on the effects of excessive alcohol consumption and how it plays a role in insulin resistance, lipid accumulation and ER stress in the liver. In 2009, Ms. Ramirez was awarded the Student Role Model Award from the Minority Access, Inc. and a Pre-doctoral Ford Foundation Fellowship.



### **Nicole Restricks**

*Social Sciences Research Council*

Nicole Restricks is manager of the Fellowships Office and assistant director of the Abe Fellowship Program at the Social Science Research Council. She also leads the AAS-SSRC Dissertation Workshop Series and Korean Studies in North America projects and is a senior advisor to the Drugs, Security and Democracy (DSD) Program. Prior to joining the Council in 2006, Restricks was an international programs officer at Ritsumeikan University in Kyoto, Japan. She has also worked as an editor and designer of K-12 curricula on Japan and East Asia. She received her MA in East Asian studies from Cornell University in 2000 and is fluent in Japanese.



### **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.



### **Jose A. Solis**

*Civil Environmental and Architectural Engineering, University of Colorado at Boulder*

Jose A. Solis is a PhD candidate starting his 5th year in the Hydrology, Water Resources, and Environmental Fluid Mechanics discipline of the Civil, Environmental, and Architectural Engineering Department at the University of Colorado at Boulder. He earned both his B.S. and M.S. degrees in Civil Engineering at New Mexico State University, where he focused in the water resources program within the department. He was awarded the Bridge to the Doctorate Fellowship which allowed him to fund his M.S. degree. Throughout his higher education journey he has mentored and helped several undergraduate

students, through different type of research programs. In his Ph.D. program, he works on a collaborative project with the Kansas Geological Survey (KGS), and the University of Iowa. This project has been funded by National Science Foundation where he has been working to improve the understanding of water uptake by riparian vegetation.



### **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.



### **Brian Sullivan**

*Washington University in St. Louis*

Mr. Sullivan is the Executive Director of the Medical Scientist Training Program at Washington University in St. Louis. He 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 BioMedRAP, a summer research program for minority and disadvantaged undergraduates. Mr. Sullivan earned a B.A. in Political Science and a M.A. in Spanish Literature from St. Louis University. He also earned a M.B.A. from Washington University in St. Louis.



### **José-Marc Techner**

*Northwestern University Feinberg School of Medicine MSTP*

José-Marc Techner is transitioning into the graduate Chemistry program after completing his preclinical training. He graduated with a B.S. in Biochemistry and Molecular Biophysics and Molecular and Cellular Biology from the University of Arizona in 2011. As an undergraduate he participated in the 2008 Brown University SR-EIP in the Koren lab studying Long QT syndrome. At the UA, he worked in the Horton lab focusing on studying artificial zinc-finger proteins as a trainee in the NIH Minorities Access to Research Career (MARC) program. He also worked in the Passegue lab studying hematopoiesis as an

AMGEN Scholar at the University of California, San Francisco in 2010. His research interests vary but will focus on the field of carbohydrate array development for his Ph.D. with Milan Mrksich. He is also active in the local Physicians for a National Health Program chapter.





### **Sheila Thomas**

*Harvard University*

Sheila Thomas is a faculty member in the Division of Medical Sciences (DMS) PhD Programs and Department of Medicine at Harvard Medical School and Assistant Dean for Diversity and Minority Affairs for the Graduate School of Arts and Sciences (GSAS). Her research interests are in cancer cell signaling; and she is actively involved in teaching and advising students in the DMS PhD programs and sits on the admissions committees for the life science PhD programs as well as the MD/PhD program.

As Dean, she oversees diversity efforts for Harvard's 57 PhD programs. She directs the Summer Honors Undergraduate Research Program (SHURP), Summer Research Opportunities at Harvard (SROH) and the Graduate School's post-baccalaureate program, GSAS Research Scholar Initiative. Dr. Thomas received her BA in Biochemistry and Molecular and Cellular Biology from Northwestern University, her PhD in Molecular Genetics from University of Pennsylvania, and did her post-doctoral training at Fred Hutchinson Cancer Research Center.



### **Ibora Umana**

*University of Chicago*

Ibora Umana is a third-year MD/PhD candidate at the University of Chicago Pritzker School of Medicine. He graduated magna cum laude from Washington University in St. Louis with a B.A. degree in Philosophy-Neuroscience-Psychology in 2010. Ibora currently works in the lab of Dr. Daniel McGehee. He is studying the role of supraspinal nicotinic acetylcholine receptors in modulation of pain perception in mice. In his free time, he enjoys playing and watching soccer, and being a Chicago foodie.



### **Eric Villegas**

*University of Cincinnati*

Eric Villegas is a Research Microbiologist with the US Environmental Protection Agency's Office of Research and Development and an Adjunct Associate Professor with the Department of Biological Sciences at the University of Cincinnati. His research group focuses on developing tools to assess human health risks associated with microbial contamination, like *Cryptosporidium*, *Giardia*, and *Toxoplasma gondii* in our drinking water supplies. Eric received his doctorate in Immunology and Parasitology at the University of Pennsylvania's Perelman School of Medicine where he studied host immune responses to

infection with *Toxoplasma gondii*. He continued his research as a post-doctoral fellow with the Immunology and Pathogenesis Division at University of California Berkeley where he worked on identifying novel genes that regulate host immune responses to cancer and infectious diseases. Eric was also a 1993 LANS doctoral scholar at Yale University.



### **Aileen Walter**

*National Action Council for Minorities in Engineering*

Aileen Walter serves as vice president of University Programs at the NACME. In this capacity, she manages NACME scholarship programs and scholarship management services. Walter successfully directed NACME's scholarship efforts (1990-1999), managing the growth of the Corporate Scholars Program and laying the groundwork for our NASA partnership and alumni outreach activities. In 1994, she received an "Outstanding Contribution" award for her work. Walter has more than 20 years of experience in scholarship management, having served as director of financial aid at the Stevens Institute of Technology prior to joining NACME.

She is a long-time member of the National Association of Financial Aid Administrators, and has served on the boards of the American Indian Science and Engineering Society, the National Society of Black Engineers and the Society of Hispanic Professional Engineers. Walter holds a B.A. in English Literature from Montclair State College and a M.A. in Higher Education Administration from New York University.

## THE LEADERSHIP ALLIANCE EXECUTIVE OFFICE STAFF



**Medeva Ghee**

*Executive Director*

Dr. Medeva Ghee, a graduate of North Carolina State University with a bachelor's degree in zoology, earned her M.S. and Ph.D. in microbiology from New York University School of Medicine. Her postdoctoral research was conducted in Paris, France with a team of researchers associated with the National Center for Scientific Research (CNRS), 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 in 2006 and was appointed the Executive Director of the Leadership Alliance in July 2011. Dr. Ghee also has a Clinical Assistant Professor appointment in Public Health at Brown University and teaches a course that leverages multidisciplinary approaches to support HIV/AIDS care and treatment programs in Sub-Saharan Africa. Actively engaged in research aimed at mentoring and supporting students through critical transitions along the academic pathway, Dr. Ghee has been invited to serve as an external consultant for federal mentoring programs and has given keynote lectures regarding mentoring strategies for graduate students, postdoctoral fellows, faculty members and senior administrators. At Brown, she serves as a mentor for both undergraduates and graduate students. Her mentoring efforts were honored by the Samuel M. Nabrit Black Graduate Student Association with the Ruth J. Simmons Award for Leadership.



**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, as well as the development and funding of two national research projects through the National Center for Research in Vocational Education at UC Berkley/Virginia Tech. As Co-Project Director, her research focused on longitudinal assessment of vocational enrollment patterns and their relationship to academic program achievement and postsecondary enrollments. At the same time, she co-directed a research project exploring the linkages between educational evaluation utilization and planning in vocational education. Dr. Collins taught research methods courses in both education and sociology, collaborating with colleagues in the sociology department to create and administer Virginia Tech's Center for Survey Research. As Center Co-Director, 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 21 undergraduate summer research sites and supervises the Alliance summer research program at Brown University. Prior to her appointment with the Leadership Alliance, Ms. Kahn was part of the professional development team at Brown University's Annenberg Institute for School Reform, a center promoting 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.



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St. Jude Children's Research Hospital congratulates The Leadership Alliance on twenty-one years of success, and Leadership Alliance Alumni for their achievements. St. Jude is proud to recognize those Alumni who have completed, or are currently in Postdoctoral Fellowships at St. Jude:

Candace Carroll, Ph.D., (University of Missouri),  
St. Jude Postdoctoral Research Associate, Department of Biochemistry

Denise Davis, Ph.D., (Yale University),  
St. Jude Postdoctoral Research Associate, Department of Developmental Neurobiology

Nikia Laurie, Ph.D., (Brown University),  
Former St. Jude Postdoctoral Research Associate, currently faculty at Northwestern University

Rachelle Salomon, Ph.D., (Brown University),  
Former St. Jude Postdoctoral Research Associate, currently Basic Research and Diagnostics  
Program Officer, National Institute of Allergy and Infectious Diseases

Aisha Walker, Ph.D., (Medical College of Georgia),  
St. Jude Postdoctoral Research Associate, Department of Pharmaceutical Sciences

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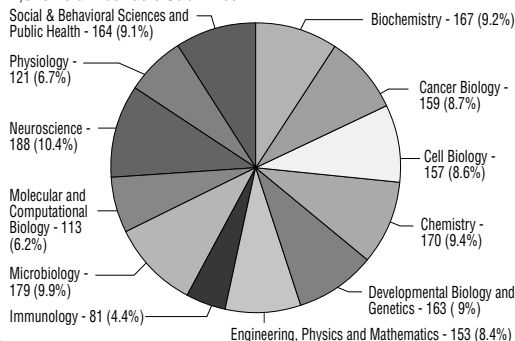
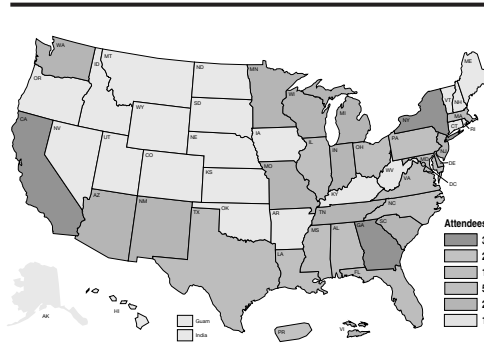
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| Earnestine Baker          | Institutional Coordinator<br>University of Maryland, Baltimore County                                                                                                                                                                            |
| Marcus Jones              | Assistant Professor<br>J. Craig Venter Institute<br>Doctoral Scholar Advisor                                                                                                                                                                     |
| Florence Kempner          | MARC Program Coordinator<br>Brooklyn College                                                                                                                                                                                                     |
| Patricia Lee-Robinson     | Associate Provost and Director of the Office of Student Opportunities<br>Chaminade University of Honolulu                                                                                                                                        |
| Barbara Nesmith           | Acting Assistant Director GSAS Office of Diversity<br>Columbia University                                                                                                                                                                        |
| Chinonye Nnakwe           | Director of Graduate Diversity Recruitment<br>University of Chicago<br>Doctoral Scholar Advisor                                                                                                                                                  |
| Rahmelle Thompson         | Director, Dr. John H. Hopps Research Scholar Program<br>Morehouse College                                                                                                                                                                        |
| Maria DoVale              | <i>Ex Officio Member</i><br>Executive Assistant/Project Coordinator<br>Leadership Alliance Executive Office                                                                                                                                      |

## LEADERSHIP ALLIANCE STAFF

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| Medeva Ghee     | Executive Director                                  |
| Deborah Collins | Associate Director                                  |
| Barbara Kahn    | Coordinator for Graduate and Undergraduate Programs |
| Maria DoVale    | Executive Assistant/Project Coordinator             |

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**THE LEADERSHIP ALLIANCE** is a national consortium of leading research and teaching colleges, universities and private industry. The mission of the Alliance is to develop underrepresented students into outstanding leaders and role models in academia, business and the public sector.

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