



# THE FUTURE OF RESEARCH:

Developing Leaders in Academia and Beyond

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## **The Leadership Alliance National Symposium 2011**

Hyatt Regency Greenwich, Old Greenwich, CT  
July 29–31



# WELCOME TO THE 2011 LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM



Medeva Ghee  
Executive Director

It gives me great pleasure to welcome you to the 2011 Leadership Alliance National Symposium! The theme of the symposium, *The Future of Research: Developing Leaders in Academia and Beyond*, is indicative of the Leadership Alliance's longstanding commitment to providing comprehensive mentoring and training opportunities along the academic pathway that prepare students for competitive graduate training programs and professional research based careers.

Next year, we will celebrate the 20<sup>th</sup> anniversary of the Summer Research Early Identification Program (SR-EIP). This celebration acknowledges the steadfast commitment of the Leadership Alliance institutional leaders, coordinators, faculty and administrators whose collective efforts have contributed to the production of nearly 200 Doctoral Scholars (SR-EIP alumni who have obtained their PhDs or MD-PhDs) in a wide range of academic disciplines.

Each of you has the talent and potential to become leaders in your respective discipline and career choice. The symposium activities have been designed to assist you in this developmental process by providing you with additional skills building, mentoring and networking opportunities to help clarify and successfully navigate your academic and career trajectories. A hallmark of the symposium is the provision of role models, primarily comprised of Leadership Alliance alumni, at each successive stage of the academic pathway. This is a resourceful network from which you will be able to obtain guidance from a trusted source of scholars who have embarked upon similar pathways. Take advantage of each and every opportunity.

You are the future of research and I challenge you to assume the responsibility of becoming a leader true to your passion and research interests. The Leadership Alliance will remain committed to developing your talents and potential at this symposium and for many years to come!

Good luck and all the best for an enriching symposium experience!



Liza Cariaga-Lo  
Chair, Symposium  
Planning Committee

On behalf of the Symposium Planning Committee, I am delighted to welcome you to the 2011 Leadership Alliance National Symposium. This year's theme, *The Future of Research: Developing Leaders in Academia and Beyond*, was chosen to focus the symposium activities on the critical skills and habits of mind that we hope will assist you in transitioning to the next level of your professional development. The Symposium Committee and the Leadership Alliance Executive Office Staff have organized a vast array of opportunities to engage you in thoughtful discussions with leaders from all sectors of research--academia, government, industry and non-profit organizations. We are all committed to supporting your development as a leader in your chosen research area and to fulfilling the mission of the Leadership Alliance to develop a more inclusive and diverse community of scholars.

We hope that you will take advantage of the many occasions during the symposium to ask questions and gain insights about effective strategies for navigating your career path. Do not be shy about sharing your unique experiences and ideas with other participants.

Vartan Gregorian, the founder of the Leadership Alliance and now the President of the Carnegie Corporation, nicely articulates the Alliance's goals of advancing the progress of our country through developing leaders in academia and beyond. "For us, America is not just a past, it is also a future. It is not just an actuality--it is always a potentiality. America's greatness lies in the fact that all its citizens, both new and old, have an opportunity to work for that potentiality, for its unfinished agenda."

Best wishes for a productive and enjoyable weekend. Thank you for participating in the 2011 Leadership Alliance National Symposium.

# THE FUTURE OF RESEARCH:

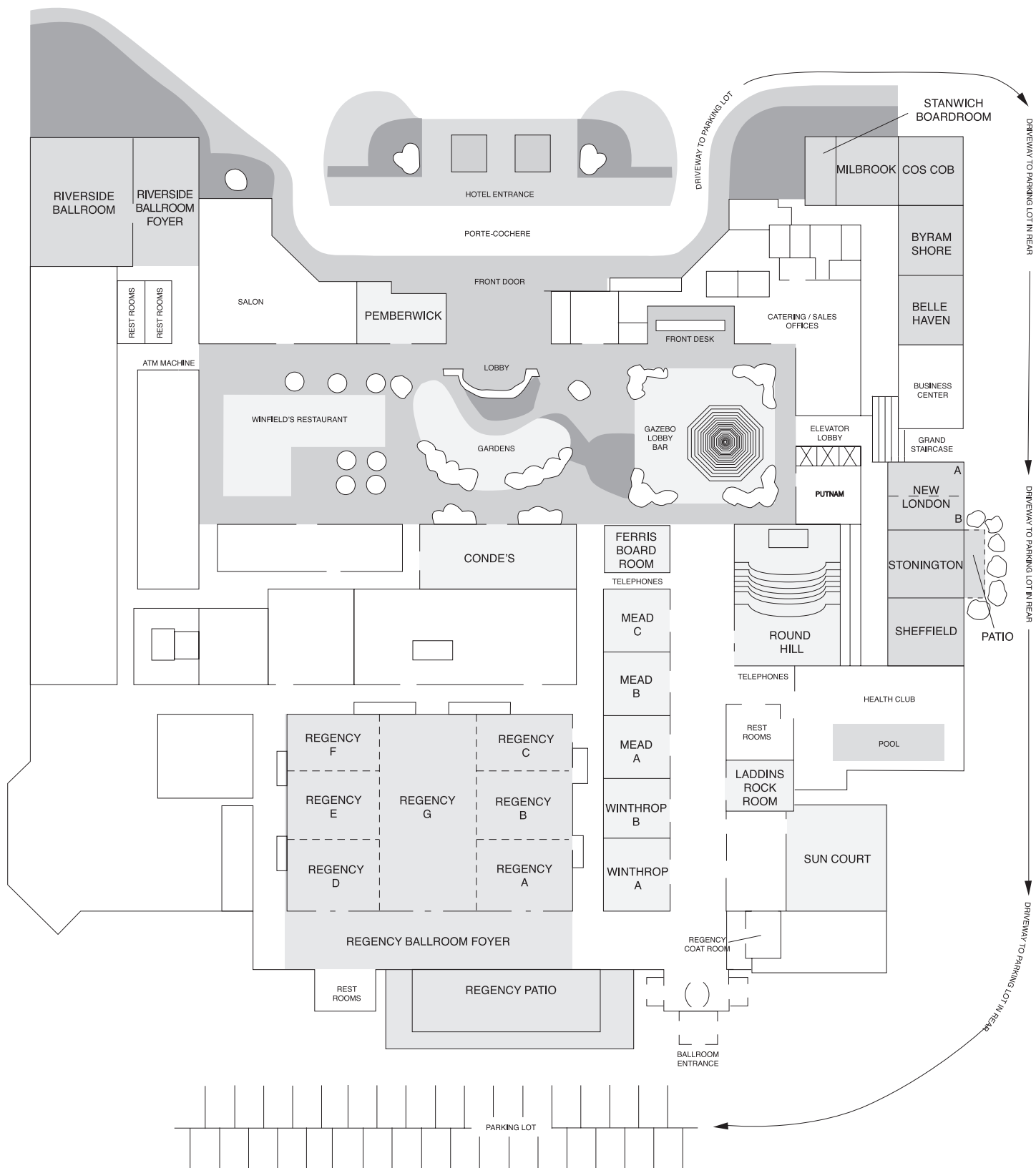
## Developing Leaders in Academia and Beyond

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### PRESENTATION CATEGORIES KEY

AB	Applied Biosciences, <i>Molecular Processes and Genetics, Biochemistry</i>
BB	Basic Biosciences, <i>Human Biology &amp; Disease, Public Health, Biomedical Engineering</i>
EN	Engineering, <i>Mechanical, Electrical &amp; 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 &amp; Legislation, Ethics, Philosophy &amp; 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>

## HYATT REGENCY FLOOR PLAN





# SYMPOSIUM AT-A-GLANCE

Time	General Sessions	Undergraduate Sessions	Graduate Sessions	Doctoral Scholars, Faculty, Administrators & Guests
FRIDAY				
Orientation, Networking & Alumni Career Panel				
11:00 a.m. - 3:00 p.m.	Registration & Professional Headshots			
11:00 a.m. - 3:00 p.m.		PowerPoint Presentation Upload I		
2:30 p.m. - 5:15 p.m.	Orientation, Networking, and Funding Sessions by Discipline (Refreshments served 2:30 p.m.- 3:00 p.m.)		Grantsmanship 101 Graduate Students and Doctoral Scholars	
5:30 p.m. - 6:45 p.m.		PowerPoint Presentation Upload II	Moderators Training Graduate Students	Meet & Greet with Program Officers Doctoral Scholars
7:00 p.m. - 9:15 p.m.	Dinner/Welcome/Alumni Research & Career Panel Presentations			
9:30 p.m. - 10:30 p.m.			Reception for Doctoral Scholars, Faculty Mentors, Coordinators, Graduate Students	
SATURDAY				
Student Presentations & Panel Discussions				
7:30 a.m. - 8:45 a.m.		Poster Setup	Breakfast for Graduate Students and Doctoral Scholars: Everything you always wanted to know but were afraid to ask	
7:30 a.m. - 8:30 a.m.		Networking Breakfasts		
8:45 a.m. - 9:45 a.m.	Student Poster Presentations Session I			
9:45 a.m. - 10:45 a.m.	Student Poster Presentations Session II			
11:15 a.m. - 12:45 p.m.	Student Oral Presentations Session I			
1:00 p.m. - 2:30 p.m.		Lunch Panel: The Graduate School Experience (PhD Program)	Life After Graduate School: The Postdoc Experience and More Graduate Students	
		Lunch Panel: The Graduate School Experience (MD-PhD Program)	Navigating the Academic and Non-Academic Career Pathways Doctoral Scholars	
2:45 p.m. - 4:15 p.m.	Student Oral Presentations Session II			
4:20 p.m. - 4:30 p.m.	Break/Snack			
4:45 p.m. - 5:45 p.m.	Student Oral Presentations Session III			
5:45 p.m. - 6:45 p.m.			Leadership Alliance Community Meeting: Faculty Mentors, Coordinators, Doctoral Scholars, Administrators & Graduate Students	
6:00 p.m. - 6:45 p.m.	Group Photos: Lilly Scholars and Leadership Alliance Mellon Initiative Cohorts/Individual Professional Headshots/Free Time			
7:00 p.m. - 9:00 p.m.	Dinner & Keynote Speaker			
9:00 p.m. - 12:00 a.m.	Dance Party			
SUNDAY				
Recruiting Fair & Next Steps				
7:30 a.m. - 10:00 a.m.	Exhibitors Set-up for Recruiting Fair			
8:00 a.m. - 9:45 a.m.	The Graduate School Application Process	Breakfast Panel: Biosciences	Career Mentoring Graduate Students	
		Breakfast Panel: MD-PhD	Networking Breakfast: Preparing for Success Doctoral Scholars	
		Breakfast Panel: Social Sciences & Humanities		
		Breakfast Panel: Engineering & Physical Sciences		
10:00 a.m. - 11:00 a.m.			Leadership Alliance Alumni Association	
10:00 a.m. - 12:00 p.m.	Recruiting Fair/Exhibitors			
12:15 p.m. - 1:00 p.m.	Fill out Surveys/Closing Remarks/Adjournment			

# AGENDA 2011

## ■ FRIDAY, JULY 29

**11:00am – 3:00pm**

Leadership Alliance Conference Registration ..... Regency Ballroom Foyer

**11:00am – 3:00pm**

PowerPoint Upload Session I ..... Winthrop A, B

**1:00pm – 3:00pm**

Professional Headshots ..... Regency Ballroom Foyer

~~~~ Refreshments served 2:30pm – 3:00pm. Sessions begin at 3:00pm ~~~~

**3:00pm – 5:15pm**

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

**Biosciences** ..... Regency G

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

**Funding Panel:**

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

**Sharon Milgram**, Director of the Office of Intramural Training and Education, National Institutes of Health

**Marcus Jones**, Staff Scientist, Infectious Disease, J. Craig Venter Institute

**Social Sciences and Humanities** ..... Regency D

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

**Funding Panel:**

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

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

**Liza Cariaga-Lo**, Assistant Provost for Faculty Development and Diversity, Harvard University

**Engineering and Physical Sciences** ..... Regency A

**Moderator:** Michelle Nearon, Assistant Dean and Director, Office for Diversity and Equal Opportunity, Yale University; Mark Hernandez, Professor in the Civil, Environmental and Architectural Engineering, University of Colorado at Boulder

**Funding Panel:**

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

**Liv Detrick**, Assistant Director, Institute for Broadening Participation

**Robert Harper-Mangels**, Assistant Dean, Graduate School of Arts and Sciences, Yale University

**2:30pm – 5:15pm**

Grantsmanship 101 (*Graduate Students/Doctoral Scholars*) ..... Riverside Ballroom  
**Moderator:** Earnestine Baker, Executive Director, Meyerhoff Scholars Program, University of Maryland, Baltimore County  
**Cedric Williams**, Program Director, Neural Systems, National Science Foundation, and Professor of Psychology and Neuroscience, University of Virginia

**5:30pm – 6:45pm**

PowerPoint Upload Session II ..... Winthrop A, B

**5:30pm – 6:30pm**

Moderators Training (*Graduate Students*) ..... Roundhill  
**Moderators:** Laurel Southard, Director of Undergraduate Research Office of the Provost, Cornell University and Jabbar Bennett, Assistant Dean of Recruiting and Professional Development, Brown University

**5:30pm – 6:30pm**

Doctoral Scholar Meet and Greet with Program Directors ..... Riverside Ballroom  
**Moderator:** Roosevelt Ratliff, Professor & Assistant Vice-President for Leadership Development, Claflin University  
**Sharon Milgram**, Director of the Office of Intramural Training and Education, National Institutes of Health  
**Laina King**, Director, Diversity in Life Science Programs, Keystone Symposia on Molecular and Cellular Biology  
**Nicole Restrict**, Assistant Director, Abe Fellowship Program, Fellowships Manager, Social Science Research Council  
**Cedric Williams**, Program Director, Neural Systems, National Science Foundation, and Professor of Psychology and Neuroscience, University of Virginia  
**Keith Micoli**, Manager Postdoctoral Programs, Sackler Institute of Graduate Biomedical Sciences, New York University School of Medicine  
**Marcus Jones**, Staff Scientist, Infectious Disease, J. Craig Venter Institute

~ Dinner, Regency Ballroom, 7:00pm ~

**7:30pm**

Welcome and Opening Remarks  
**Medeva Ghee**, Executive Director, Leadership Alliance  
**Liza Cariaga-Lo**, Chair Symposium Planning Committee, Harvard University

**8:00pm – 9:15pm**

Alumni Research and Career Panel  
**Moderator:** Joeli Marrero, Postdoctoral Associate, Weill Cornell Medical College  
**David Castro**, Senior Research Chemist, Nalco Company  
**Jade Carter**, Forensic Scientist at County of Ventura  
**Erica Williams**, Assistant Professor, Spelman College  
**Damani Piggott**, Postdoctoral Fellow, Johns Hopkins University, MD-PhD

**9:30pm – 10:30pm**

Reception for PhDs, Faculty Mentors, Coordinators, Graduate Students, Guests ..... Riverside Ballroom

## ■ SATURDAY, JULY 30

7:00am – 11:00am

Professional Headshots.....Regency Ballroom Foyer

7:30am – 8:45am

Posters Setup.....Sun Court

~~~~ Networking Breakfasts, 7:30am – 8:30am ~~~~

### Undergraduate Networking Breakfasts

Biosciences.....Regency G  
 Social Sciences and Humanities .....Regency D  
 Physical Sciences and Engineering.....Regency A  
 Leadership Alliance Mellon Initiative Networking Breakfast.....Mead A, B  
 Lilly Scholars Program Networking Breakfast.....Mead C

### Doctoral Scholars & Graduate Students Breakfast

*“Everything you always wanted to know, but were afraid to ask.”* ..... Riverside Ballroom

**Moderator:** Earnestine Baker, Executive Director, Meyerhoff Scholars Program, University of Maryland, Baltimore County  
**Mark Hernandez**, Professor in the Department of Civil, Environmental and Architectural Engineering, University of Colorado at Boulder

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

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

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

8:45am – 10:45am

Student Poster Presentations.....Sun Court

8:45am – 9:45am – Student Poster Presentations Session I

9:45am – 10:45am – Student Poster Presentations Session II

11:15am – 12:45pm

Student Oral Presentations Session I

~~~~ Lunch served 1:00pm (Sessions begin at 1:30 pm) ~~~~

1:00pm – 2:30pm

Panel Discussion for Undergraduates Interested in the PhD: The Graduate School Experience.....Regency A, B, C

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

**Tyi McCray**, Plant Biologist, Weill Cornell Medical College

**Christopher Downing**, Industrial/Organizational Psychology, Virginia Tech

**Elda Maria Roman**, English Major, Stanford University

**Fernando Albetorio**, NIH National Research Service Award (NRSA) Research Associate at Harvard, Harvard University

1:00pm – 2:30pm

Panel Discussion for Undergraduates Interested in the MD-PhD: The Graduate School Experience.....Regency G

**Moderator:** Nancy Schwartz, Professor, Biochemistry & Molecular Biophysics, University of Chicago

**Joseph Marlin**, MD-PhD Candidate, New York University

**Meghan Kirksey**, Resident Department of Anesthesiology, New York Presbyterian Hospital

**Kathie Coreder-Caban**, Medicine and Physiology (Health Pre-Professional), Loma Linda University

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



**1:00pm – 2:30pm**

Panel Discussion for Graduate Students, Life after Graduate School: The Postdoc Experience and More.....Regency D

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

**Alberto Roca**, Founder, Editor, and Diversity Consultant & Recruiter, minoritypostdoc.org

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

**William Rando**, Graduate Teaching Center, Yale University

**Ulli K. Ryder**, Visiting Scholar, Brown University

**1:00pm – 2:30pm**

Navigating the Academic and Non-Academic Career Pathways for Doctoral Scholars..... Riverside Ballroom

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

**Bianca Garner**, Associate Professor, Faculty, Tougaloo College

**Cedric Williams**, Program Director, Neural Systems, National Science Foundation, and Professor of Psychology and Neuroscience, University of Virginia

**Liza Cariaga-Lo**, Assistant Provost for Faculty Development & Diversity, Harvard University

**2:45pm – 4:15pm**

Student Oral Presentations Session II

~~~~ Ice Cream Break, 4:15 pm – 4:30 pm ~~~~

Biosciences .....Sun Court

Social Sciences and Humanities .....Executive Club North

Physical Science and Engineering..... Executive Club South

**4:30pm – 5:30pm**

Student Oral Presentations Session III

**5:45pm – 7:00pm**

Professional Headshots.....Regency Ballroom Foyer

**5:45pm – 6:45pm**

Leadership Alliance Community Meeting..... Roundhill

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

Host: Medeva Ghee, Executive Director

**6:00pm – 7:00pm**

Program Specific Cohort Photo .....Regency Ballroom Foyer

Lilly Scholars Program Participants

Leadership Alliance Mellon Initiative Participants

~~~~ Dinner and Keynote Speaker, Regency Ballroom, 7:00pm ~~~~

**9:00pm – 12:00am**

Dance .....Sun Court

## ■ SUNDAY, JULY 31

**7:30am – 10:00am**

Exhibitors Set-up for Recruiting Fair .....Sun Court

~ Breakfasts served 8:00-8:45am. (Sessions begin at 8:45am) ~

**8:00am – 9:45am**

Undergraduate Breakfast Panels: The Graduate School Application Process

Biosciences .....Regency G

**Moderator:** George Hill, Associate Dean for Diversity in Medical Education, Vanderbilt University

**Anita Blanco**, Director, Genetics and Genomics Diversity Program, Stanford University School of Medicine

**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

MD-PhD .....Regency A, B, C

**Moderator:** Lawrence Brass, Associate Dean and Director, University of Pennsylvania, MD-PhD Program

**Patrice Spitalnik**, Assistant Director, MD-PhD program, Columbia University

**Michelle Grundy**, Director, Summer Science Academy, Vanderbilt University

**Brian Sullivan**, Administrative Director, Medical Scientist Training Program, Washington University in St. Louis

Social Sciences and Humanities .....Regency D

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

**Liza Cariaga-Lo**, Assistant Provost for Faculty Development and Diversity, Harvard University

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

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

Engineering and Physical Sciences .....Mead A,B

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

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

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

**8:00am – 9:45pm**

Graduate Student Breakfast: Career Mentoring .....Winthrop A, B

**Moderator:** Jabbar Bennett, Assistant Dean of Recruiting and Professional Development, Brown University

**Lynette Lopes**, Imagine You lc

**8:00am – 9:45am**

Doctoral Scholars Breakfast: Preparing for Success .....Riverside Ballroom

**Moderator:** Cheryl Apprey, Director of Graduate Student Programs, University of Virginia

**Keith Micoli**, Manager Postdoctoral Programs, Sackler Institute of Graduate Biomedical Sciences, New York University School of Medicine

**10:00am – 12:00pm**

Recruiting Fair/Exhibitors.....Sun Court

**10:00am – 11:00am**

Leadership Alliance Alumni Association.....Conde's

**Moderator:** Medeva Ghee, Executive Director

**12:15pm – 1:00pm**

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

## SANDRA BEGAY-CAMPBELL, KEYNOTE SPEAKER



### SANDRA BEGAY-CAMPBELL

Ms. Begay-Campbell is a Principal Member of the Technical Staff at Sandia National Laboratories. She leads Sandia's technical efforts in the Renewable Energy Program to assist tribes with renewable energy development. As a member of the Navajo Nation, Ms. Begay-Campbell's perspective combines her cultural values into a technical

environment. She is the former executive director of the American Indian Science and Engineering Society (AISES), a non-profit organization whose mission is to increase the number of American Indian scientists and engineers.

Ms. Begay-Campbell received a Bachelor of Science – Civil Engineering degree from the University of New Mexico. She worked at Lawrence Livermore National Laboratories before she earned a Master of Science – Structural Engineering degree from Stanford University and she also worked at Los Alamos National Laboratory.



## 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 | SS | Malinda Balfour   | College Readiness: Preparing Students Academically and Socially for a Successful College Experience                                                                | Cos Cob      |
| 11:15 AM | PS | Douglas Ball      | Nano-structured oxide semiconductor composites for photocatalysis                                                                                                  | Sheffield    |
| 11:15 AM | SS | Candace Banks     | Language and Identity                                                                                                                                              | Byram Shore  |
| 11:15 AM | EN | Connie Chan       | Demonstration of DNA Repair in Virus after UV Disinfection using Coliphages as Surrogates                                                                          | Stonington   |
| 11:15 AM | SS | Angela Crumdy     | A Nation for All? Black Political Expression in Cuba, 1911-2011                                                                                                    | Milbrook     |
| 11:15 AM | AB | Norbert Cruz      | Varying Statistical Structure of Sounds: Effect on Behavioral Discrimination of Rats and on Response Properties of the Auditory Cortex                             | Roundhill    |
| 11:15 AM | AB | Christopher Ecker | Identification and Isolation of HIV-1 Specific T Regulatory Cells                                                                                                  | Winthrop B   |
| 11:15 AM | PS | Guy Geyer         | Fiber Taper Probe for Probing Photonic Crystal Microcavities                                                                                                       | New London   |
| 11:15 AM | BB | Allison Gomez     | Regulation of Pancreatic Cytokines by Fas Ligand in Autoimmune Diabetes Prone Mice                                                                                 | Mead B       |
| 11:15 AM | AB | Keven Laboy       | The Efficiency of the Lentivirus and AAV as Viral Vectors for the Chr2 Gene                                                                                        | Winthrop A   |
| 11:15 AM | BB | Oscar Munoz       | The Effect of Dermal Smoothed Activation on Hair Follicle Cycle                                                                                                    | Laddins Rock |
| 11:15 AM | AB | Pola Olczak       | The Effects of TLR9 Stimulation on Amyloid and Tau Pathology in a Mouse Model of Alzheimer's Disease                                                               | Mead C       |
| 11:15 AM | BB | Francesca Rouzard | The Role of Toll-like Receptors in the Control of Coxiella burnetii Infection                                                                                      | Mead A       |
| 11:15 AM | SS | Diane Wong        | What Explains Asian American Political Participation?: The Effects of Ethnic Enclaves and Co-ethnic Candidates on Turnout                                          | Belle Haven  |
| 11:30 AM | BB | Jawara Allen      | Structural and Functional Analysis of RAR-Related Orphan Receptor gamma (ROR gamma) in Th17 Cells                                                                  | Mead B       |
| 11:30 AM | HU | Silas Altheimer   | Uncle Tom's Cabin and the Vocabularies of a "Black Church"                                                                                                         | Belle Haven  |
| 11:30 AM | BB | Alvaro Amor       | Direct Observation of the Transition between the Broken and Extended Helix States of the Parkinson's-linked Protein $\alpha$ -synuclein by CD and NMR Spectroscopy | Roundhill    |
| 11:30 AM | SS | Thomas Anderson   | Understanding Low-Fertility in South Korea: A Cultural Approach                                                                                                    | Cos Cob      |
| 11:30 AM | SS | Andrew Brooks     | The IMF and Ethnic Conflict                                                                                                                                        | Milbrook     |

|          |    |                         |                                                                                                                                        |              |
|----------|----|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 11:30 AM | BB | Chelsea Earby           | Pulmonary Arterial Smooth Muscle Cell Migration is Calcium Dependent                                                                   | Laddins Rock |
| 11:30 AM | EN | Heather Hawkes          | The Piezoelectric Properties of Zinc Oxide Thin Films                                                                                  | Sheffield    |
| 11:30 AM | PS | Mindy Lee               | Alternative Synthesis of HIV Protease Inhibitor Darunavir                                                                              | Stonington   |
| 11:30 AM | BB | Raissa McIntosh         | Determine Whether Somatic Hyper-Mutation Plays a Role in the Mechanism of B Cell Tolerance                                             | Mead A       |
| 11:30 AM | AB | Edjohnier Phillips      | Could CR3 be the Receptor for Beta-Glucan?                                                                                             | Winthrop B   |
| 11:30 AM | BB | Liseth Silva            | Cellular Analysis of Upper Cortical Layer II and III Neurons in the Mouse Model of Lis1 Overexpression                                 | Mead C       |
| 11:30 AM | PS | Kendra Souther          | Liquid Crystals: An Answer for Alternative Energy                                                                                      | New London   |
| 11:30 AM | AB | Lauren Sullivan         | Enhanced Immunogenicity of Specific Epitopes of HIV-1 gp120 via Immune Complex Formation                                               | Winthrop A   |
| 11:30 AM | HU | Sana Venjara            | Style Space and Consciousness: Negotiating Clothing and Identity in Contemporary Cairo                                                 | Byram Shore  |
| 11:45 AM | BB | Melissa Alvarado-Velez  | Role of Oxidative Stress in Neurotoxic Effect of cART Drugs                                                                            | Mead B       |
| 11:45 AM | AB | Joshua Brown            | Inhibition of HIV Capsid Protein                                                                                                       | Winthrop B   |
| 11:45 AM | SS | Nathaniel Gonzalez      | Democracy and Religious Pluralism: Understanding Interfaith Collaboration                                                              | Belle Haven  |
| 11:45 AM | ES | Brajaan Hayes           | Ribeiroia vs Snails: Which Snails can be Infected by Ribeiroia ondatrae?                                                               | Stonington   |
| 11:45 AM | SS | Alesha Henderson        | Factors Affecting Racial/Ethnic Health Disparities: A Focus on Breast Cancer                                                           | Cos Cob      |
| 11:45 AM | BB | Karen Kellen            | Does Urocortin 1 Priming in the Basolateral Amygdala alter SERT Gene Expression in the Serotonergic Dorsal Raphe Nucleus?              | Mead C       |
| 11:45 AM | BB | Ricardo Linares Saldana | The Role of BLOC-1 in Melanosome Biogenesis and Protein Trafficking                                                                    | Laddins Rock |
| 11:45 AM | AB | Hélène Mascitti         | Characterization of Monoclonal Antibodies Targeting Neurofibrillary Tangles Implied in Alzheimer's Disease by Using Stereotaxic Method | Roundhill    |
| 11:45 AM | AB | Omayra Méndez           | Vaccination of HIV-1 Infected Subjects on HAART Boosts Cellular Immune Responses                                                       | Winthrop A   |
| 11:45 AM | HU | Daniel Rios             | Violence and Globalization in 21st Latin American Literature                                                                           | Milbrook     |
| 11:45 AM | BB | Michael Rist            | "Miniaturized" TCR-alpha Locus Control Region in Lentiviral Constructs Used in Tcell Gene Therapy                                      | Mead A       |
| 11:45 AM | EN | Miguel Rodriguez        | Mechanical Properties of Large Graphene Balloons                                                                                       | New London   |
| 11:45 AM | SS | Hadiya Sewer            | Who Defines "The People": Identity and Nation Building in the U.S. Virgin Islands                                                      | Byram Shore  |
| 11:45 AM | PS | Gentry Tran             | Interaction Forces and Contamination on Smectic Films                                                                                  | Sheffield    |

|          |    |                   |                                                                                                                                                              |              |
|----------|----|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 12:00 PM | BB | Rhiannon Aguilar  | Preliminary Manipulation of the SMYD Proteins for use in Bioorthogonal Profiling of Protein Methylation                                                      | Laddins Rock |
| 12:00 PM | BB | Jean Damisse      | Study of the interactions between CA-NC and the 5'-UTR of the HIV-1 Virus                                                                                    | Mead A       |
| 12:00 PM | EN | Korine Duval      | Fabrication of Polyelectrolyte Complex Microcapsules via Electrospray                                                                                        | New London   |
| 12:00 PM | SS | Cayla Echols      | Implicit Biases in Surgery                                                                                                                                   | Cos Cob      |
| 12:00 PM | BB | Stefanie Luecke   | Role of ICP0 in Herpes Simplex Virus Reactivation from Latency: Antagonism of the Neuronal DNA Damage Response                                               | Winthrop B   |
| 12:00 PM | AB | Randolph Lyde     | Neuro Epigenetic Effects of High Fat Diet                                                                                                                    | Mead C       |
| 12:00 PM | BB | Shivana Maharaj   | Does the Inhibition of the Kinase Domain of Receptor Interacting Protein 1 (RIP1) by Necrostatin 1 (Nec1) Effect the Type of Hepatocyte Death During Sepsis? | Mead B       |
| 12:00 PM | SS | Vladimir Medenica | As 'They' Become 'Us:' A Generational Perspective on Mexican-American Political Behavior                                                                     | Belle Haven  |
| 12:00 PM | PS | Nicholas Ravvin   | The Use of Porphyrins as Photodynamic Therapy Agents                                                                                                         | Stonington   |
| 12:00 PM | AB | Jeremy Richey     | Testing of Denture Base Materials Incorporated with Silver Nano-particles to Prevent Candida Colonization                                                    | Winthrop A   |
| 12:00 PM | PS | Jose Sanchez      | Characterization of the GaN-MgO Transistor's Interface                                                                                                       | Sheffield    |
| 12:00 PM | HU | Luis Trujillo     | Recolonization and the Police State                                                                                                                          | Milbrook     |
| 12:00 PM | AB | Janice Vicenty    | Apolipoprotein E: Development and Regeneration of Nerve Cells from the Central Nervous System                                                                | Roundhill    |
| 12:00 PM | HU | Alexia Williams   | Articulating Blackness and Imagining a Nation: Afro-Peruvian Poetry as Peaceful Protest                                                                      | Byram Shore  |
| 12:15 PM | BB | Isola Brown       | Observing the Effect of Salmonella enterica Infection on Cellular Organelle Phenotype                                                                        | Winthrop B   |
| 12:15 PM | BB | Zharko Daniloski  | Characterization of Novel Interacting Partners of Laminin Receptor                                                                                           | Mead C       |
| 12:15 PM | SS | Rebecca Grunberg  | Unexplored Causes of Residential Segregation: Biological Conceptions of Race and Conformity to Norms                                                         | Byram Shore  |
| 12:15 PM | AB | Joshua Horton     | Mutational Analysis of HIV Coreceptor CCR5                                                                                                                   | Winthrop A   |
| 12:15 PM | BB | Angel Leiva       | Regulation of Monoubiquitinated PCNA is Important for Replication Stress Response                                                                            | Laddins Rock |
| 12:15 PM | BB | Ilene Magpiong    | Investigation of the Potential Effects of Environmental Factors on the Pyramidal Neuron Principal Axon Shaft of the Macaque Monkey Cerebral Cortex           | Roundhill    |
| 12:15 PM | BB | Delyan Mutavchiev | Evaluation of Modified Bovine Apolipoproteins as Potential Trypanolytic Agents                                                                               | Mead B       |



|          |    |                                 |                                                                                                                                   |                     |
|----------|----|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 12:15 PM | AB | <b>Adriana Santiago-Miranda</b> | The Effect of Poly(lactic-co-glycolic acid) Density in Carbon Nanofiber Composites for Myocardial Tissue Engineering Applications | <b>Sheffield</b>    |
| 12:15 PM | EN | <b>Dawn Skeen</b>               | Fabrication of Artificial Microstructures Using Bulk Metallic Glass                                                               | <b>New London</b>   |
| 12:15 PM | BB | <b>Monica Thomas</b>            | The Effect of Kinase Inhibitors on JUNV Entry Process                                                                             | <b>Mead A</b>       |
| 12:15 PM | PE | <b>Jonathan Topaz</b>           | Persistent Authoritarianism in the Middle East                                                                                    | <b>Milbrook</b>     |
| 12:15 PM | SS | <b>Xzania White</b>             | Linking Pathways to African American Success (PAAS) to Youth Self-Regulation in Order to Predict HIV Risk Vulnerability           | <b>Cos Cob</b>      |
| 12:15 PM | SS | <b>Jasmine Wise</b>             | How Do Housing Interventions Affect Parenting in Homeless Families?                                                               | <b>Belle Haven</b>  |
| 12:15 PM | PS | <b>Valencia Wise</b>            | Predicting Disease Genes using Protein Interaction Networks                                                                       | <b>Stonington</b>   |
| 12:30 PM | BB | <b>Tiffany Bell</b>             | Elucidating the Regulation of Interleukin-1 Receptor Antagonist by Matrilin-3                                                     | <b>Mead A</b>       |
| 12:30 PM | BB | <b>Gregory Bryman</b>           | Hypoxia Inducible Factor-1alpha in signaling downstream of Glycogen Synthase Kinase-3 Inhibition in the Mouse Brain               | <b>Laddins Rock</b> |
| 12:30 PM | BB | <b>Mame Cisse</b>               | Adaptation of Human Respiratory Syncytial Virus for Growth in Mouse Cells                                                         | <b>Winthrop B</b>   |
| 12:30 PM | PS | <b>Asmaou Diallo</b>            | Demonstrating Brain Metabolic Changes due to mTBI using 3D MRS                                                                    | <b>Stonington</b>   |
| 12:30 PM | SS | <b>Yaseen Eldik</b>             | Silencing Democracy: Getting Islam Out                                                                                            | <b>Cos Cob</b>      |
| 12:30 PM | BB | <b>Khyrie Jones</b>             | Cellular Death as a Protective Defense in Drosophila melanogaster                                                                 | <b>Mead B</b>       |
| 12:30 PM | HU | <b>Rigoberto Lara</b>           | Race and Food Justice: F.R.E.S.H Options in The City                                                                              | <b>Byram Shore</b>  |
| 12:30 PM | EN | <b>Patrick Llull</b>            | Stochastic Drift Correction for a Super-Resolution Microscope                                                                     | <b>New London</b>   |
| 12:30 PM | SS | <b>Michael Murphy</b>           | An Examination of Global Environmental Change and its Effect on Globalization and Global Capitalism                               | <b>Milbrook</b>     |
| 12:30 PM | AB | <b>Rashida Mustafa</b>          | Neuropathic Pain Induced by Nerve Crush Injury: The Role of Calcium Channels                                                      | <b>Mead C</b>       |
| 12:30 PM | AB | <b>Juan Rivera Correa</b>       | The Expression of Sphingosine 1-Phosphate Receptors in Cystic Fibrosis Dendritic Cells and Macrophages                            | <b>Winthrop A</b>   |
| 12:30 PM | BB | <b>Jocelyn Rodriguez</b>        | Olivocerebellar Control of Reaching Movements                                                                                     | <b>Roundhill</b>    |
| 12:30 PM | EN | <b>Victoria Rosborough</b>      | Oxide semiconductor heterostructures for photocatalysis                                                                           | <b>Sheffield</b>    |
| 12:30 PM | SS | <b>Adrienne Slaughter</b>       | Integrating Black Students: Examining the Impact of Integrated Schools on the Educational Experience of Black Students            | <b>Belle Haven</b>  |
| 02:45 PM | BB | <b>Ivan Albino Flores</b>       | Examine the Contribution of an N-linked Glycosylation Site at Residue 161 of A56 to A56's Interaction with VCP                    | <b>Mead C</b>       |

|          |    |                      |                                                                                                                           |              |
|----------|----|----------------------|---------------------------------------------------------------------------------------------------------------------------|--------------|
| 02:45 PM | HU | Jason Brouster       | Bad Sistas: The Political and Social Contributions of Women in the Harlem Black Panther Party, 1969-1972                  | Byram Shore  |
| 02:45 PM | ES | Alexis Brown         | Investigating Invasive Species and Native Amphibian Communities in Colorado Wetlands                                      | New London   |
| 02:45 PM | SS | April Brown          | Evaluating the Effectiveness of Emotion Elicitation                                                                       | Belle Haven  |
| 02:45 PM | BB | Caitlin Burgdorf     | Effects of Predator Odor Stress on CRF Release and Cognitive Flexibility in Rats                                          | Laddins Rock |
| 02:45 PM | BB | Juliana Falero Perez | The Role of Dexas1 in Neuronal Iron Homeostasis                                                                           | Winthrop A   |
| 02:45 PM | BB | Rafael Fernandez     | A Step Towards a Universal Form of Mismatch Repair                                                                        | Mead A       |
| 02:45 PM | BB | Briana Fitch         | Identifying Synthetic Lethality with MYCN Amplification in Neuroblastoma                                                  | Roundhill    |
| 02:45 PM | HU | Matthew Harris       | The Behavior Criterion: A Refutation of the Chinese Room Argument                                                         | Milbrook     |
| 02:45 PM | BB | Takashi Mbako        | Cryptic Unstable Transcripts and their Effect on the URA2 Gene in <i>Saccharomyces cerevisiae</i>                         | Mead B       |
| 02:45 PM | AB | Jacqueline Romero    | Role of Gap Junctions in the Spread of Cell Death in Ischemic Retinopathy                                                 | Winthrop B   |
| 02:45 PM | SS | Glamildi Rondon      | An Examination of the Effects of Poverty on School Readiness and Early Academic Achievement                               | Cos Cob      |
| 02:45 PM | BB | Ashley Scott         | Studies of Putative Phosphorylation Sites as Regulators of K2p Channel Function Using Site-directed Mutations             | Putnam       |
| 02:45 PM | EN | Alba Serrano         | Fluidic Injection for Thrust Vectoring and Flow Control                                                                   | Stonington   |
| 03:00 PM | BB | Opeyemi Alabi        | Circuit Structure Underlying Short-Term Memory                                                                            | Laddins Rock |
| 03:00 PM | SS | Alexander DeLeon     | A Comparative Study: Maryland Household Wealth Sensitivity to the Ongoing Foreclosure Epidemic                            | Milbrook     |
| 03:00 PM | HU | Liana Donahue        | Culpability and the Moral Community: An analysis of a Cape Coloured Gangster's Ideology                                   | Cos Cob      |
| 03:00 PM | BB | Kristy Merloni       | Identification of Novel Genetic Markers for Manipulation of Taste Circuitry                                               | Mead A       |
| 03:00 PM | BB | Christopher Mosley   | Role of YAF2 in Polycomb Recruitment                                                                                      | Putnam       |
| 03:00 PM | BB | Sebastian Perez      | Mechanisms of Sirt1-Dependent Regulation of Bone Mass                                                                     | Winthrop B   |
| 03:00 PM | BB | Pascal Portois       | Interactomics of Bacterial RNA Polymerase Enzymes                                                                         | Mead C       |
| 03:00 PM | AB | Chloé Powell         | Preparation of Non-Decalcified Bone Histology Samples for Laser Microdissection of the Osteon Followed by DNA Analysis    | Roundhill    |
| 03:00 PM | HU | Isabella Proia       | The Subtleness of the Sea: American Encounters in the Caribbean and the Illustrated Diary of William H. Meyers, 1838-1839 | Belle Haven  |

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|----------|----|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 03:00 PM | ES | Marissa Reyes-Diaz      | Relationship between Mortality and Density in the Invasive Species <i>Linaria dalmatica</i> and the Biological Control <i>Mecinus janthinus</i> in Colorado | New London   |
| 03:00 PM | SS | Tanya Sanabria          | Women in the Workforce: The Stalled Gender Revolution                                                                                                       | Byram Shore  |
| 03:00 PM | BB | Akriti Sharma           | Potential Influences of Environmental Factors on the Number of Interneurons in CD-1 Mouse Cerebral Cortex                                                   | Winthrop A   |
| 03:00 PM | PS | Austin Tucker           | Initial Findings on the Effects of Workload on Humans when Interacting with Robots                                                                          | Stonington   |
| 03:00 PM | BB | Albert Zhou             | TBLR1 Regulation of Androgen Receptor Target Genes in Prostate Cancer                                                                                       | Mead B       |
| 03:15 PM | BB | Meinkeng Acha-Morfaw    | Improving the Solubility of the Myristoylated FIV Matrix Protein for NMR Structural Studies and its Possible Role as an HIV Animal Model                    | Putnam       |
| 03:15 PM | BB | Anamaria Alexandrescu   | Cell Type Selective Reduction of NMDA Receptors For Schizophrenia Targeted Therapeutic Development                                                          | Winthrop A   |
| 03:15 PM | BB | Jesus Ayala             | Investigating Potential Glial Cell Abnormalities in <i>lpr-1</i> and <i>let-4</i> Mutants                                                                   | Winthrop B   |
| 03:15 PM | AB | Carcha Bernard          | Evaluation of Neural Phenotypes and Therapeutic Interventions in a Zebrafish Model of Batten's Disease                                                      | Laddins Rock |
| 03:15 PM | HU | Asha Canady             | Children in Toni Morrison's Work                                                                                                                            | Byram Shore  |
| 03:15 PM | ES | Natalie Freeman         | Southern Ocean Deoxygenation in a Warming World                                                                                                             | New London   |
| 03:15 PM | HU | Amanda Gomez            | Queer Figures in Latina Literature                                                                                                                          | Belle Haven  |
| 03:15 PM | EN | Alexsandra Guerra       | Evaluation of Applications and of Environmental Health Effects of Biomass Derived Fuels                                                                     | Stonington   |
| 03:15 PM | AB | Jon Massie              | Translational Regulation of the Huntington's Disease Protein through a 5' Upstream Open Reading Frame                                                       | Mead A       |
| 03:15 PM | SS | Rebba Moore             | Why Don't Americans Care? Public Support for Social Welfare in a Diverse Nation                                                                             | Cos Cob      |
| 03:15 PM | SS | Hien Nguyen             | Role of Hippocampal Dendritic Spines in Memory Consolidation of Rats                                                                                        | Milbrook     |
| 03:15 PM | BB | Lymaris Quiñones-Dávila | Gene Expression in the Mesolimbic Dopamine Pathway                                                                                                          | Mead C       |
| 03:15 PM | BB | Angelica Simmons        | Validation and Discovery of RNA/ DNA Differences                                                                                                            | Mead B       |
| 03:15 PM | BB | Japjit Verraich         | Genomewide Gene-Function Discovery in <i>Streptococcus pneumoniae</i> to Better Understand Role in Antibiotic Resistance                                    | Roundhill    |
| 03:30 PM | BB | Christopher Bartolome   | The Role of Ras-GRF1 and Ras-GRF2 IQ Motifs in Memory Formation and Learning                                                                                | Winthrop B   |
| 03:30 PM | HU | Adee Benartzy           | The Pastel Sketch: Communicating Sexuality and Promiscuity in Late-Nineteenth Century Paris                                                                 | Belle Haven  |



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|----------|----|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 03:30 PM | BB | Amanda Buch        | Human ES Cell-derived Dopaminergic Neuron Grafts lead to Functional Recovery in Parkinsonian Rats                                       | Laddins Rock |
| 03:30 PM | ES | Adriana Collazo    | Presence and Localization of E. coli O157:H7 within Constructed Wetland Water Treatment Systems                                         | New London   |
| 03:30 PM | BB | Fiona Desland      | Determining Positive Regulators of the Nitric Oxide-Detoxifying Gene hmpA, in Vibrio Cholerae                                           | Mead C       |
| 03:30 PM | SS | Jordan Encarnacion | Neurochemicals Mediating Memory Consolidation in Adult Male Rats                                                                        | Milbrook     |
| 03:30 PM | BB | Will Fletcher      | Bilayer-modifying Potential of Limonene and its Metabolites                                                                             | Putnam       |
| 03:30 PM | HU | Andrew Manns       | Bridging the Gap between Human Depravity and Dignity: The Imagination in Gianfrancesco Pico's De Imaginatione                           | Byram Shore  |
| 03:30 PM | AB | Matthew McCauley   | Expression of MicroRNA-675 in Cardiac Hypertrophy                                                                                       | Mead A       |
| 03:30 PM | BB | Camila Prieto      | Function of C16orf57 in Clericuzio-type Poikiloderma with Neutropenia                                                                   | Roundhill    |
| 03:30 PM | EN | Karla Rosario      | Human Factors in Dream Chaser's Vehicle Design                                                                                          | Stonington   |
| 03:30 PM | BB | Torrey Salmon      | Defining the Hox Network Specifying Motor Neuron Cell Fates in the Vertebrate Embryo                                                    | Winthrop A   |
| 03:30 PM | HU | Danielle Wiggins   | The Right's Black Darlings: Perceptions of Black Republicans in the Reagan Administration                                               | Cos Cob      |
| 03:30 PM | BB | Hye Joo Yoon       | Dissecting Genetic Interaction Networks between Protein Phosphorylation and Ubiquitination Systems in C. elegans                        | Mead B       |
| 03:45 PM | AB | Sarah Azarchi      | Novel Conformationally Directed Immunomodulation for Reducing Amyloid and Tau in Alzheimer's Disease Related Pathology in a Mouse Model | Laddins Rock |
| 03:45 PM | BB | Brian Becker       | The Interaction of Membrane Proximal Domains of Receptor Tyrosine Kinases Tie1 and Tie2                                                 | Winthrop A   |
| 03:45 PM | BB | Dahima Cintron     | Evaluating the Necessity of Acetylcholine During Learning of Reward Timing in Mice using Immediate Early Gene Expression                | Winthrop B   |
| 03:45 PM | HU | Norrell Edwards    | South African Literature                                                                                                                | Belle Haven  |
| 03:45 PM | PS | Nathaniel Enriquez | Synthesis of Bionic Analogs of RuBisCo                                                                                                  | New London   |
| 03:45 PM | BB | Maribel Granja     | If Only I Could Quit: How Genes Impact Nicotine Dependence                                                                              | Mead B       |
| 03:45 PM | BB | Mayte Hernandez    | Characterization of Targeted Hedgehog Pathway Alleles in a Mouse Model of Pancreatic Ductal Adenocarcinoma                              | Roundhill    |
| 03:45 PM | BB | Qudus Lawal        | Probing Molecular Interactions between LIM Proteins TRIP6 and LPP, and shelterin at Human Telomeres                                     | Mead A       |

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|----------|----|----------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------|
| 03:45 PM | PE | Patricio Martínez Llompарт | Insanity, the Deviant and Mass Incarceration: The Puerto Rican Case                                                   | Cos Cob      |
| 03:45 PM | BB | Caroline Mejias-De Jesus   | Investigating the Molecular Basis for Ras-Induced Senescence                                                          | Putnam       |
| 03:45 PM | SS | Allister Plater            | Teen Mothers Coping with Stress: Development of a New Measure                                                         | Byram Shore  |
| 03:45 PM | SS | Dyan Ruiz Connelly         | Centrality of Independence in Spinal Cord Injury Survivors: Implications for Their Own and Caregivers' Well-being     | Milbrook     |
| 03:45 PM | BB | Emma Schatoff              | Role of Dysregulated Epigenetic Modifiers in the Development of Leukemia                                              | Mead C       |
| 04:00 PM | SS | Shemariah Ellis            | Novel Strategies to Parcellating the Basal Ganglia in Humans                                                          | Milbrook     |
| 04:00 PM | BB | Eduardo Galeana            | PKM $\gamma$ and the Synaptic Process that Underlies Odor Shock Conditioning in the Amygdala                          | Winthrop A   |
| 04:00 PM | AB | DeAsia Gilmer              | Regulation of Gene Expression in the Aging Rat Heart                                                                  | Mead A       |
| 04:00 PM | BB | Alejandro Gonzalez         | The Hyper-osmotic Effects on the Pharyngeal Pumping in <i>Caenorhabditis elegans</i>                                  | Putnam       |
| 04:00 PM | HU | Victor Gonzalez            | Magical Realism in Chicano/a Literature                                                                               | Byram Shore  |
| 04:00 PM | HU | Jeremy Griffin             | Free the Black Homosexual: Acknowledging Truth in Black America                                                       | Belle Haven  |
| 04:00 PM | EN | Veronica Hogg-Cornejo      | Collagen Quantification of the Fetal Membrane                                                                         | New London   |
| 04:00 PM | AB | Emily Jackson              | Role and Regulation of Neuromedin U in Erythropoiesis                                                                 | Roundhill    |
| 04:00 PM | BB | Russell Maxwell            | The Influence of DNA Damage on the Dynamics of Atypical Ubiquitin/SUMO Chains                                         | Mead C       |
| 04:00 PM | BB | Ryan Paranal               | Methamphetamine- and Dopamine-induced Apoptosis in a Neuroblastoma Cell Line                                          | Laddins Rock |
| 04:00 PM | SS | Nicole Perez               | Empowering Students: The Relationship between Multicultural Curricula and Educational Achievement                     | Cos Cob      |
| 04:00 PM | BB | Brian Rekoske              | Inhibition of an RNA pyrophosphate hydrolase in <i>Escherichia Coli</i>                                               | Mead B       |
| 04:00 PM | BB | Melissa Santos             | Involvement of Cannabinoid CB1 and Dopamine D2 Receptors in Cortical and Striatal Glutamatergic Signaling             | Winthrop B   |
| 04:30 PM | AB | Kevin Alicea Torres        | The Impact of Bariatric Surgery on Insulin Sensitivity in Human Adipose Tissue                                        | Mead B       |
| 04:30 PM | BB | Helya Ghaffari             | Chemokine Gene Silencing in the Tumor Microenvironment                                                                | Winthrop B   |
| 04:30 PM | SS | Anaya Gonda                | Mental Representations of Language: Investigating a Novel Priming Effect in the Perception of Goal-Directed Behaviors | Milbrook     |
| 04:30 PM | SS | Zachary Graves             | Negative Emotions and their Effects on CVD Risk Factors                                                               | Belle Haven  |

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|----------|----|---------------------|-------------------------------------------------------------------------------------------------------------------|--------------|
| 04:30 PM | SS | Aruba Hussain       | Attitudes towards Risk and Ambiguity in Young and Older Adults                                                    | Byram Shore  |
| 04:30 PM | AB | Melissa Jarmel      | p53 Status Alters the Effects of KLF5 on Cell Proliferation                                                       | Mead A       |
| 04:30 PM | BB | Tonee Jones         | Poloxamer 188 Effects on Fetal Bovine Serum after Denaturation and Aggregation                                    | Putnam       |
| 04:30 PM | SS | Glenn Love          | Unpacking the Great Equalizer: A Reassessment of Social Mobility and the Impacts of Race on Poverty               | Cos Cob      |
| 04:30 PM | BB | Richard Moses       | Functional Analysis of the Nuclear Localization of Bone Marrow Kinase in the X Chromosome                         | Mead C       |
| 04:30 PM | AB | Kalyani Nambiar     | Exposure Mediated Neurodegeneration: Mechanisms of Disease                                                        | Laddins Rock |
| 04:30 PM | AB | Donald Richardson   | Development of a Chemical Biology Data Base for Drug Discovery                                                    | Roundhill    |
| 04:30 PM | BB | Tiffany Rolle       | Development of a Portable GC-MS Methodology for the Evaluation of the Level of Food Spoilage                      | Stonington   |
| 04:30 PM | AB | Hannah Weber        | The Role of MMP-2-Induced TH2 Cells in Melanoma Tumor Invasion and Angiogenesis                                   | Winthrop A   |
| 04:45 PM | BB | Michael Burel       | Genetic Circuits Controlling Stem Cell Self-Renewal in the Drosophila Testis                                      | Mead B       |
| 04:45 PM | SS | Gavin Fung          | Children's Use of Pedagogical Cues to Guide Exploration                                                           | Cos Cob      |
| 04:45 PM | AB | Rachana Haliyur     | Investigating the Potential Link between IDH1 and HIF-1 alpha in Glioma                                           | Laddins Rock |
| 04:45 PM | BB | Jane Hand           | Nutrition and Germline Proliferation in C. elegans                                                                | Mead A       |
| 04:45 PM | BB | Dominique Moore     | Developing a Diagnostic Tool to target Metastatic Cancer using the MARCKS Peptide and Membrane Curvature          | Winthrop A   |
| 04:45 PM | BB | Naderge Nwana       | Role of Melanocortin 4 Receptor (MC4R) in Obesity                                                                 | Stonington   |
| 04:45 PM | AB | Joshua Peck         | Cardioplegia Induces Phosphorylation of Phosphoglycerate Mutase and Tropomyosin in Human Heart Tissue             | Roundhill    |
| 04:45 PM | BB | Elizabeth Perez     | Effect of Presenilin-1 Mutations on Notch1 Processing                                                             | Winthrop B   |
| 04:45 PM | SS | Natalie Rodríguez   | Gender Differences in Depression                                                                                  | Milbrook     |
| 04:45 PM | SS | Adriana Santos      | The Interactions between Dopamine and Corticotropin Releasing Factor in the Amygdala and their Effects on Anxiety | Belle Haven  |
| 04:45 PM | BB | Patricia Mae Santos | Caloric Restriction Improves Extinction Learning in Mice                                                          | Mead C       |
| 04:45 PM | SS | Luke Wandrey        | Peer Relations in Adolescents: Physiological and emotional Brain Responses during Social Evaluation               | Byram Shore  |
| 04:45 PM | BB | Pinguang Yang       | Role of Filopodia in Intercalating Cells during Drosophila Germ-band Extension                                    | Putnam       |



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| 05:00 PM | BB | Michael Adu         | Identifying Real Defective Interfering (DI) Genome through Running of PCR                                                                                              | Laddins Rock |
| 05:00 PM | BB | Alessandra Alicea   | Analysis of Fhos in Drosophila melanogaster Muscle Function                                                                                                            | Mead C       |
| 05:00 PM | AB | Olubusayo Awe       | Lipoprotein Metabolism in Metabolically Healthy Obese (MHO) vs. Metabolic Abnormal Obese (MAO) - Isolation and Derivatization of HDL-AL Lipoprotein from Human Samples | Roundhill    |
| 05:00 PM | AB | Elisia Clark        | The Role of Lipid Uptake in Cancer Cells                                                                                                                               | Winthrop A   |
| 05:00 PM | AB | Cynthia Cohen       | The Role of Community Resources in Preventing and Managing Diabetes in New York City Neighborhoods with Different Socioeconomic Statuses                               | Belle Haven  |
| 05:00 PM | BB | Charles Eke         | Trafficking of Retinal Degeneration Slow (RDS) within Cysteine Mutants Using Polarized Epithelial Cells as a Surrogate Model for Photoreceptor Trafficking             | Putnam       |
| 05:00 PM | SS | Molly Galloway      | Reading Between the Lines: Self Identifying Biracial Students in the Black-White Achievement Gap                                                                       | Cos Cob      |
| 05:00 PM | AB | Kanesha Hines       | The Effect of Electrical Stimulation on Neonatal Mice Myocytes Scaffolds                                                                                               | Mead B       |
| 05:00 PM | SS | Vincent Jones IV    | Baby Boomers and Facebook: How Baby Boomers Negotiate their Virtual Identities and Engage New Media Compared to Generations X and Y                                    | Byram Shore  |
| 05:00 PM | BB | Robert Myers        | ADAM/Notch Signaling Pathway in Angiogenesis                                                                                                                           | Mead A       |
| 05:00 PM | AB | Cassandra Nelson    | Does the Antioxidant Gene, nrf2, Protect Cancer Cells from Immune Destruction?                                                                                         | Winthrop B   |
| 05:00 PM | SS | Mary Remy           | Domestic Violence on College Campuses and Community Involvement                                                                                                        | Milbrook     |
| 05:00 PM | BB | Jojo Yeboa          | Agonist-Induced Binding of the Regulatory Scaffold Protein Spinophilin to Phospholipase-C in Platelets                                                                 | Stonington   |
| 05:15 PM | AB | Alexandria Broadnax | Food Insecurity and Chronic Kidney Disease: the Healthy Aging in Neighborhoods of Diversity across the LifeSpan (HANDLS) Study                                         | Laddins Rock |
| 05:15 PM | BB | Aisha Burton        | Fluorescein Isothiocyanate Attaches to Proteins on Living Cells                                                                                                        | Putnam       |
| 05:15 PM | SS | Zulie Camacho       | Challenging Navigationally Experienced Weakly Electric Fish in a Novel Environment: Maze Learning, Electric Organ Discharge and the Learning Molecular PKM zeta        | Milbrook     |
| 05:15 PM | SS | Kristina Donathan   | Public Perception on Punishment of Juveniles with Different Underlying Factors to the Commitment of the Crime                                                          | Cos Cob      |
| 05:15 PM | AB | Renee Dudley        | The Effect of Aging on the Reduction of Metabolic Cost during Motor Learning                                                                                           | Mead A       |
| 05:15 PM | AB | Dominique Grasty    | Analyzing Attempts to Bridge the Gender Gap Among Physician Scientists: Are New Programs at NIH and Schools of Medicine Making a Difference?                           | Belle Haven  |

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|----------|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 05:15 PM | AB | Isabel Hinestrosa        | Effects of Mammalian Target of Rapamycin Inhibition on a Breast Cancer Model                                                             | Winthrop A   |
| 05:15 PM | HU | Mary Hofto Grae          | The Subversive Readership of the Early Gothic Novel                                                                                      | Byram Shore  |
| 05:15 PM | BB | Rachel Rudlaff           | Oxidative Stress in the Endothelium: To Live or to Die                                                                                   | Stonington   |
| 05:15 PM | BB | Santiago Salazar         | Fluorescence Recovery After Photobleaching (FRAP) Analysis Shows RPA Phosphorylation Modulates Recruitment of the Tumor Suppressor PALB2 | Winthrop B   |
| 05:15 PM | AB | Sirrika Samuels          | Effects of Nape and Its Role in Diabetes                                                                                                 | Roundhill    |
| 05:15 PM | BB | Emilio Soto              | The Role of miRNA128 on the Development of the Cerebral Cortex                                                                           | Mead B       |
| 05:15 PM | AB | Cherrelle Thomas         | Investigating Domains in the Phospholipid Bilayer using Single-Molecule Mapping Techniques                                               | Mead C       |
| 05:30 PM | AB | Alejandro Arroyo-Pacheco | Identification of Biomarkers in Blood Plasma for Ovarian Cancer Early Detection                                                          | Winthrop A   |
| 05:30 PM | AB | Rene Begay               | Regulation of Kisspeptin in GnRH-deficient Adult Transgenic Animals                                                                      | Mead B       |
| 05:30 PM | ES | Adrienne Bird            | Evaluating Sampling Protocols on the Little Big Horn River                                                                               | Stonington   |
| 05:30 PM | AB | James Chavre             | Effect of Acrolein on Cardiac Fibroblast Proliferation                                                                                   | Mead A       |
| 05:30 PM | AB | Ashla Gaibi              | Role of Type-1 Collagen in the Remineralization of Diseased Osseous Tissue with Osteogenesis Imperfecta (OI)                             | Roundhill    |
| 05:30 PM | AB | Mariya Grygorenko        | Life after Lung Transplants: Predicting the Onset of Bronchiolitis obliterans Syndrome using Biomarkers                                  | Mead C       |
| 05:30 PM | BB | Ninoshka Lopez-Mojica    | Downregulation of Helicobacter pylori Oncoprotein CagA by Exposure to Gastric Epithelial Cells                                           | Winthrop B   |
| 05:30 PM | BB | Angelina Ocampo          | Measuring Bulk Diffusion on Cell Membrane using Fluorescence Recovery After Photobleaching (FRAP)                                        | Putnam       |
| 05:30 PM | BB | Liran Valadarsky         | Interplay Between Histone Modifications Regulates Binding of Tudor and MBT Domains to Histone Tails                                      | Laddins Rock |
| 05:30 PM | SS | Elizabeth Vargas         | The Role of Serotonin Receptor Subtype 5-HT <sub>6</sub> on Prepulse Inhibition of the Goldfish Startle Escape Behavior                  | Milbrook     |
| 05:30 PM | SS | Austin Roth              | Development of Fear Extinction Learning and Spontaneous Recovery in Humans: Implications for Treatment of Childhood Anxiety Disorders    | Belle Haven  |

# ORAL PRESENTATIONS BY ROOM

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|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Laddins Rock, AB/BB</b>                                           |                                                                                                                                         |                 |
| <b>Ifeoma Nwigwe, Yale University, 11:15 - 12:45</b>                 |                                                                                                                                         |                 |
| <b>Oscar Munoz</b>                                                   | The Effect of Dermal Smoothened Activation on Hair Follicle Cycle                                                                       | <b>11:15 AM</b> |
| <b>Chelsea Earby</b>                                                 | Pulmonary Arterial Smooth Muscle Cell Migration is Calcium Dependent                                                                    | <b>11:30 AM</b> |
| <b>Ricardo Linares Saldana</b>                                       | The Role of BLOC-1 in Melanosome Biogenesis and Protein Trafficking                                                                     | <b>11:45 AM</b> |
| <b>Rhiannon Aguilar</b>                                              | Preliminary Manipulation of the SMYD Proteins for use in Bioorthogonal Profiling of Protein Methylation                                 | <b>12:00 PM</b> |
| <b>Angel Leiva</b>                                                   | Regulation of Monoubiquitinated PCNA is Important for Replication Stress Response                                                       | <b>12:15 PM</b> |
| <b>Gregory Bryman</b>                                                | Hypoxia Inducible Factor-1alpha in signaling downstream of Glycogen Synthase Kinase-3 Inhibition in the Mouse Brain                     | <b>12:30 PM</b> |
| <b>Laddins Rock, AB/BB</b>                                           |                                                                                                                                         |                 |
| <b>Dario Gutierrez, Vanderbilt University, 2:45 - 4:15</b>           |                                                                                                                                         |                 |
| <b>Caitlin Burgdorf</b>                                              | Effects of Predator Odor Stress on CRF Release and Cognitive Flexibility in Rats                                                        | <b>02:45 PM</b> |
| <b>Opeyemi Alabi</b>                                                 | Circuit Structure Underlying Short-Term Memory                                                                                          | <b>03:00 PM</b> |
| <b>Carcha Bernard</b>                                                | Evaluation of Neural Phenotypes and Therapeutic Interventions in a Zebrafish Model of Batten's Disease                                  | <b>03:15 PM</b> |
| <b>Amanda Buch</b>                                                   | Human ES Cell-derived Dopaminergic Neuron Grafts lead to Functional Recovery in Parkinsonian Rats                                       | <b>03:30 PM</b> |
| <b>Sarah Azarchi</b>                                                 | Novel Conformationally Directed Immunomodulation for Reducing Amyloid and Tau in Alzheimer's Disease Related Pathology in a Mouse Model | <b>03:45 PM</b> |
| <b>Ryan Paranal</b>                                                  | Methamphetamine- and Dopamine-induced Apoptosis in a Neuroblastoma Cell Line                                                            | <b>04:00 PM</b> |
| <b>Laddins Rock, AB/BB</b>                                           |                                                                                                                                         |                 |
| <b>Nyamekye Obeng-Adjei, University of Pennsylvania, 4:30 - 5:45</b> |                                                                                                                                         |                 |
| <b>Kalyani Nambiar</b>                                               | Exposure Mediated Neurodegeneration: Mechanisms of Disease                                                                              | <b>04:30 PM</b> |
| <b>Rachana Haliyur</b>                                               | Investigating the Potential Link between IDH1 and HIF-1 alpha in Glioma                                                                 | <b>04:45 PM</b> |
| <b>Michael Adu</b>                                                   | Identifying Real Defective Interfering (DI) Genome through Running of PCR                                                               | <b>05:00 PM</b> |
| <b>Alexandria Broadnax</b>                                           | Food Insecurity and Chronic Kidney Disease: the Healthy Aging in Neighborhoods of Diversity across the LifeSpan (HANDLS) Study          | <b>05:15 PM</b> |
| <b>Liran Valadarsky</b>                                              | Interplay Between Histone Modifications Regulates Binding of Tudor and MBT Domains to Histone Tails                                     | <b>05:30 PM</b> |
| <b>Mead A, AB/BB</b>                                                 |                                                                                                                                         |                 |
| <b>Joseph Marlin, New York University, 11:15 - 12:45</b>             |                                                                                                                                         |                 |
| <b>Francesca Rouzard</b>                                             | The Role of Toll-like Receptors in the Control of Coxiella burnetii Infection                                                           | <b>11:15 AM</b> |
| <b>Raissa McIntosh</b>                                               | Determine Whether Somatic Hyper-Mutation Plays a Role in the Mechanism of B Cell Tolerance                                              | <b>11:30 AM</b> |
| <b>Michael Rist</b>                                                  | "Miniaturized" TCR-alpha Locus Control Region in Leniviral Constructs Used in Tcell Gene Therapy                                        | <b>11:45 AM</b> |
| <b>Jean Damisse</b>                                                  | Study Of The Interactions Between CA-NC And The 5'-UTR Of The HIV-1 Virus                                                               | <b>12:00 PM</b> |
| <b>Monica Thomas</b>                                                 | The Effect of Kinase Inhibitors on JUNV Entry Process                                                                                   | <b>12:15 PM</b> |
| <b>Tiffany Bell</b>                                                  | Elucidating the Regulation of Interleukin-1 Receptor Antagonist by Matrilin-3                                                           | <b>12:30 PM</b> |

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| <b>Mead A, AB/BB</b>                                                       |                                                                                                                                                              |                 |
| <b>Jennifer Nnoli, Memorial Sloan Kettering Cancer Center, 2:45 - 4:15</b> |                                                                                                                                                              |                 |
| <b>Rafael Fernandez</b>                                                    | A Step Towards a Universal Form of Mismatch Repair                                                                                                           | <b>02:45 PM</b> |
| <b>Kristy Merloni</b>                                                      | Identification of Novel Genetic Markers for Manipulation of Taste Circuitry                                                                                  | <b>03:00 PM</b> |
| <b>Jon Massie</b>                                                          | Translational Regulation of the Huntington's Disease Protein through a 5' Upstream Open Reading Frame                                                        | <b>03:15 PM</b> |
| <b>Matthew McCauley</b>                                                    | Expression of MicroRNA-675 in Cardiac Hypertrophy                                                                                                            | <b>03:30 PM</b> |
| <b>Qudus Lawal</b>                                                         | Probing Molecular Interactions between LIM Proteins TRIP6 and LPP, and shelterin at Human Telomeres                                                          | <b>03:45 PM</b> |
| <b>DeAsia Gilmer</b>                                                       | Regulation of Gene Expression in the Aging Rat Heart                                                                                                         | <b>04:00 PM</b> |
| <b>Mead A, AB/BB</b>                                                       |                                                                                                                                                              |                 |
| <b>Darien Sutton, New York University, 4:30 - 5:45</b>                     |                                                                                                                                                              |                 |
| <b>Melissa Jarmel</b>                                                      | p53 Status Alters the Effects of KLF5 on Cell Proliferation                                                                                                  | <b>04:30 PM</b> |
| <b>Jane Hand</b>                                                           | Nutrition and Germline Proliferation in <i>C. elegans</i>                                                                                                    | <b>04:45 PM</b> |
| <b>Robert Myers</b>                                                        | ADAM/Notch Signaling Pathway in Angiogenesis                                                                                                                 | <b>05:00 PM</b> |
| <b>Renee Dudley</b>                                                        | The Effect of Aging on the Reduction of Metabolic Cost during Motor Learning                                                                                 | <b>05:15 PM</b> |
| <b>James Chavre</b>                                                        | Effect of Acrolein on Cardiac Fibroblast Proliferation                                                                                                       | <b>05:30 PM</b> |
| <b>Mead B, AB/BB</b>                                                       |                                                                                                                                                              |                 |
| <b>Sam McNeal, Brown University, 11:15 - 12:45</b>                         |                                                                                                                                                              |                 |
| <b>Allison Gomez</b>                                                       | Regulation of Pancreatic Cytokines by Fas Ligand in Autoimmune Diabetes Prone Mice                                                                           | <b>11:15 AM</b> |
| <b>Jawara Allen</b>                                                        | Structural and Functional Analysis of RAR-Related Orphan Receptor gamma (ROR gamma) in Th17 Cells                                                            | <b>11:30 AM</b> |
| <b>Melissa Alvarado-Velez</b>                                              | Role of Oxidative Stress in Neurotoxic Effect of cART Drugs                                                                                                  | <b>11:45 AM</b> |
| <b>Shivana Maharaj</b>                                                     | Does the Inhibition of the Kinase Domain of Receptor Interacting Protein 1 (RIP1) by Necrostatin 1 (Nec1) Effect the Type of Hepatocyte Death During Sepsis? | <b>12:00 PM</b> |
| <b>Delyan Mutavchiev</b>                                                   | Evaluation of Modified Bovine Apolipoproteins as Potential Trypanolytic Agents                                                                               | <b>12:15 PM</b> |
| <b>Khyrie Jones</b>                                                        | Cellular Death as a Protective Defense in <i>Drosophila melanogaster</i>                                                                                     | <b>12:30 PM</b> |
| <b>Mead B, AB/BB</b>                                                       |                                                                                                                                                              |                 |
| <b>Rayshonda Williams, Weill Cornell Graduate School, 2:45 - 4:15</b>      |                                                                                                                                                              |                 |
| <b>Takashi Mbako</b>                                                       | Cryptic Unstable Transcripts and their Effect on the URA2 Gene in <i>Saccharomyces cerevisiae</i>                                                            | <b>02:45 PM</b> |
| <b>Albert Zhou</b>                                                         | TBLR1 Regulation of Androgen Receptor Target Genes in Prostate Cancer                                                                                        | <b>03:00 PM</b> |
| <b>Angelica Simmons</b>                                                    | Validation and Discovery of RNA/ DNA Differences                                                                                                             | <b>03:15 PM</b> |
| <b>Hye Joo Yoon</b>                                                        | Dissecting Genetic Interaction Networks between Protein Phosphorylation and Ubiquitination Systems in <i>C. elegans</i>                                      | <b>03:30 PM</b> |
| <b>Maribel Granja</b>                                                      | If Only I Could Quit: How Genes Impact Nicotine Dependence                                                                                                   | <b>03:45 PM</b> |
| <b>Brian Rekoske</b>                                                       | Inhibition of an RNA pyrophosphate hydrolase in <i>Escherichia Coli</i>                                                                                      | <b>04:00 PM</b> |



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| <b>Mead B, AB/BB</b><br><b>Monique Foster, New York University, 4:30 - 5:45</b>   |                                                                                                                           |          |
| Kevin Alicea Torres                                                               | The Impact of Bariatric Surgery on Insulin Sensitivity in Human Adipose Tissue                                            | 04:30 PM |
| Michael Burel                                                                     | Genetic Circuits Controlling Stem Cell Self-Renewal in the Drosophila Testis                                              | 04:45 PM |
| Kanesha Hines                                                                     | The Effect of Electrical Stimulation on Neonatal Mice Myocytes Scaffolds                                                  | 05:00 PM |
| Emilio Soto                                                                       | The Role of miRNA128 on the Development of the Cerebral Cortex                                                            | 05:15 PM |
| Rene Begay                                                                        | Regulation of Kisspeptin in GnRH-deficient Adult Transgenic Animals                                                       | 05:30 PM |
| <b>Mead C, AB/BB</b><br><b>Whitney Harris, Yale University, 11:15 - 12:45</b>     |                                                                                                                           |          |
| Pola Olczak                                                                       | The Effects of TLR9 Stimulation on Amyloid and Tau Pathology in a Mouse Model of Alzheimer's Disease                      | 11:15 AM |
| Liseth Silva                                                                      | Cellular Analysis of Upper Cortical Layer II and III Neurons in the Mouse Model of Lis1 Overexpression                    | 11:30 AM |
| Karen Kellen                                                                      | Does Urocortin 1 Priming in the Basolateral Amygdala alter SERT Gene Expression in the Serotonergic Dorsal Raphe Nucleus? | 11:45 AM |
| Randolph Lyde                                                                     | Neuro Epigenetic Effects of High Fat Diet                                                                                 | 12:00 PM |
| Zharko Daniloski                                                                  | Characterization of Novel Interacting Partners of Laminin Receptor                                                        | 12:15 PM |
| Rashida Mustafa                                                                   | Neuropathic Pain Induced by Nerve Crush Injury: The Role of Calcium Channels                                              | 12:30 PM |
| <b>Mead C, AB/BB</b><br><b>Danielle Brown, UC Davis, 2:45 - 4:15</b>              |                                                                                                                           |          |
| Ivan Albino Flores                                                                | Examine the Contribution of an N-linked Glycosylation Site at Residue 161 of A56 to A56's Interaction with VCP            | 02:45 PM |
| Pascal Portois                                                                    | Interactomics of Bacterial RNA Polymerase Enzymes                                                                         | 03:00 PM |
| Lymaris Quiñones-Dávila                                                           | Gene Expression in the Mesolimbic Dopamine Pathway                                                                        | 03:15 PM |
| Fiona Desland                                                                     | Determining Positive Regulators of the Nitric Oxide-Detoxifying Gene hmpA, in Vibrio Cholerae                             | 03:30 PM |
| Emma Schatoff                                                                     | Role of Dysregulated Epigenetic Modifiers in the Development of Leukemia                                                  | 03:45 PM |
| Russell Maxwell                                                                   | The Influence of DNA Damage on the Dynamics of Atypical Ubiquitin/SUMO Chains                                             | 04:00 PM |
| <b>Mead C, AB/BB</b><br><b>Tricia Nardiello, New York University, 4:30 - 5:45</b> |                                                                                                                           |          |
| Richard Moses                                                                     | Functional Analysis of the Nuclear Localization of Bone Marrow Kinase in the X Chromosome                                 | 04:30 PM |
| Patricia Mae Santos                                                               | Caloric Restriction Improves Extinction Learning in Mice                                                                  | 04:45 PM |
| Alessandra Alicea                                                                 | Analysis of Fhos in Drosophila melanogaster Muscle Function                                                               | 05:00 PM |
| Cherrelle Thomas                                                                  | Investigating Domains in the Phospholipid Bilayer using Single-Molecule Mapping Techniques                                | 05:15 PM |
| Mariya Grygorenko                                                                 | Life after Lung Transplants: Predicting the Onset of Bronchiolitis obliterans Syndrome using Biomarkers                   | 05:30 PM |

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| <b>Putnam, AB/BB</b><br><b>Samuel Haile, University of Maryland, Baltimore County, 2:45 - 4:15</b> |                                                                                                                                                                    |          |
| Ashley Scott                                                                                       | Studies of Putative Phosphorylation Sites as Regulators of K2p Channel Function Using Site-directed Mutations                                                      | 02:45 PM |
| Christopher Mosley                                                                                 | Role of YAF2 in Polycomb Recruitment                                                                                                                               | 03:00 PM |
| Meinkeng Acha-Morfaw                                                                               | Improving the Solubility of the Myristoylated FIV Matrix Protein for NMR Structural Studies and its Possible Role as an HIV Animal Model                           | 03:15 PM |
| Will Fletcher                                                                                      | Bilayer-modifying Potential of Limonene and its Metabolites                                                                                                        | 03:30 PM |
| Caroline Mejias-De Jesus                                                                           | Investigating the Molecular Basis for Ras-Induced Senescence                                                                                                       | 03:45 PM |
| Alejandro Gonzalez                                                                                 | The Hyper-osmotic Effects on the Pharyngeal Pumping in <i>Caenorhabditis elegans</i>                                                                               | 04:00 PM |
| <b>Putnam, AB/BB</b><br><b>Whitney Harris, Yale University, 4:30 - 5:45</b>                        |                                                                                                                                                                    |          |
| Tonee Jones                                                                                        | Poloxamer 188 Effects on Fetal Bovine Serum after Denaturation and Aggregation                                                                                     | 04:30 PM |
| Pinguang Yang                                                                                      | Role of Filopodia in Intercalating Cells during <i>Drosophila</i> Germ-band Extension                                                                              | 04:45 PM |
| Charles Eke                                                                                        | Trafficking of Retinal Degeneration Slow (RDS) within Cysteine Mutants Using Polarized Epithelial Cells as a Surrogate Model for Photoreceptor Trafficking         | 05:00 PM |
| Aisha Burton                                                                                       | Fluorescein Isothiocyanate Attaches to Proteins on Living Cells                                                                                                    | 05:15 PM |
| Angelina Ocampo                                                                                    | Measuring Bulk Diffusion on Cell Membrane using Fluorescence Recovery After Photobleaching (FRAP)                                                                  | 05:30 PM |
| <b>Roundhill, AB/BB</b><br><b>Jessica Rowland, Princeton University, 11:15 - 12:45</b>             |                                                                                                                                                                    |          |
| Norbert Cruz                                                                                       | Varying Statistical Structure of Sounds: Effect on Behavioral Discrimination of Rats and on Response Properties of the Auditory Cortex                             | 11:15 AM |
| Alvaro Amor                                                                                        | Direct Observation of the Transition between the Broken and Extended Helix States of the Parkinson's-linked Protein $\alpha$ -synuclein by CD and NMR Spectroscopy | 11:30 AM |
| Hélène Mascitti                                                                                    | Characterization of Monoclonal Antibodies Targeting Neurofibrillary Tangles Implied in Alzheimer's Disease by Using Stereotaxic Method                             | 11:45 AM |
| Janice Vicenty                                                                                     | Apolipoprotein E: Development and Regeneration of Nerve Cells from the Central Nervous System                                                                      | 12:00 PM |
| Ilene Magpiong                                                                                     | Investigation of the Potential Effects of Environmental Factors on the Pyramidal Neuron Principal Axon Shaft of the Macaque Monkey Cerebral Cortex                 | 12:15 PM |
| Jocelyn Rodriguez                                                                                  | Olivocerebellar Control of Reaching Movements                                                                                                                      | 12:30 PM |
| <b>Roundhill, AB/BB</b><br><b>Tyi McCray, Cornell University, 2:45 - 4:15</b>                      |                                                                                                                                                                    |          |
| Briana Fitch                                                                                       | Identifying Synthetic Lethality with MYCN Amplification in Neuroblastoma                                                                                           | 02:45 PM |
| Chloé Powell                                                                                       | Preparation of Non-Decalcified Bone Histology Samples for Laser Microdissection of the Osteon Followed by DNA Analysis                                             | 03:00 PM |
| Japjit Verraich                                                                                    | Genomewide Gene-Function Discovery in <i>Streptococcus pneumoniae</i> to Better Understand Role in Antibiotic Resistance                                           | 03:15 PM |
| Camila Prieto                                                                                      | Function of C16orf57 in Clericuzio-type Poikiloderma with Neutropenia                                                                                              | 03:30 PM |
| Mayte Hernandez                                                                                    | Characterization of Targeted Hedgehog Pathway Alleles in a Mouse Model of Pancreatic Ductal Adenocarcinoma                                                         | 03:45 PM |
| Emily Jackson                                                                                      | Role and Regulation of Neuromedin U in Erythropoiesis                                                                                                              | 04:00 PM |

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| <b>Roundhill, AB/BB</b><br><b>Jose McFaline Figueroa, Columbia University, 4:30 - 5:45</b>               |                                                                                                                                                                        |                 |
| <b>Donald Richardson</b>                                                                                 | Development of a Chemical Biology Data Base for Drug Discovery                                                                                                         | <b>04:30 PM</b> |
| <b>Joshua Peck</b>                                                                                       | Cardioplegia Induces Phosphorylation of Phosphoglycerate Mutase and Tropomyosin in Human Heart Tissue                                                                  | <b>04:45 PM</b> |
| <b>Olubusayo Awe</b>                                                                                     | Lipoprotein Metabolism in Metabolically Healthy Obese (MHO) vs. Metabolic Abnormal Obese (MAO) - Isolation and Derivatization of HDL-AL Lipoprotein from Human Samples | <b>05:00 PM</b> |
| <b>Sirrika Samuels</b>                                                                                   | Effects of Nape and Its Role in Diabetes                                                                                                                               | <b>05:15 PM</b> |
| <b>Ashla Gaibi</b>                                                                                       | Role of Type-1 Collagen in the Remineralization of Diseased Osseous Tissue with Osteogenesis Imperfecta (OI)                                                           | <b>05:30 PM</b> |
| <b>Winthrop A, AB/BB</b><br><b>Samuel Haile, University of Maryland, Baltimore County, 11:15 - 12:45</b> |                                                                                                                                                                        |                 |
| <b>Keven Laboy</b>                                                                                       | The Efficiency of the Lentivirus and AAV as Viral Vectors for the ChR2 Gene                                                                                            | <b>11:15 AM</b> |
| <b>Lauren Sullivan</b>                                                                                   | Enhanced Immunogenicity of Specific Epitopes of HIV-1 gp120 via Immune Complex Formation                                                                               | <b>11:30 AM</b> |
| <b>Omayra Méndez</b>                                                                                     | Vaccination of HIV-1 Infected Subjects on HAART Boosts Cellular Immune Responses                                                                                       | <b>11:45 AM</b> |
| <b>Jeremy Richey</b>                                                                                     | Testing of Denture Base Materials Incorporated with Silver Nano-particles to Prevent Candida Colonization                                                              | <b>12:00 PM</b> |
| <b>Joshua Horton</b>                                                                                     | Mutational Analysis of HIV Coreceptor CCR5                                                                                                                             | <b>12:15 PM</b> |
| <b>Juan Rivera Correa</b>                                                                                | The Expression of Sphingosine 1-Phosphate Receptors in Cystic Fibrosis Dendritic Cells and Macrophages                                                                 | <b>12:30 PM</b> |
| <b>Winthrop A, AB/BB</b><br><b>Amena Smith, Medical University of South Carolina, 2:45 - 4:15</b>        |                                                                                                                                                                        |                 |
| <b>Juliana Falero Perez</b>                                                                              | The Role of Dexras1 in Neuronal Iron Homeostasis                                                                                                                       | <b>02:45 PM</b> |
| <b>Akriti Sharma</b>                                                                                     | Potential Influences of Environmental Factors on the Number of Interneurons in CD-1 Mouse Cerebral Cortex                                                              | <b>03:00 PM</b> |
| <b>Anamaria Alexandrescu</b>                                                                             | Cell Type Selective Reduction of NMDA Receptors For Schizophrenia Targeted Therapeutic Development                                                                     | <b>03:15 PM</b> |
| <b>Torrey Salmon</b>                                                                                     | Defining the Hox Network Specifying Motor Neuron Cell Fates in the Vertebrate Embryo                                                                                   | <b>03:30 PM</b> |
| <b>Brian Becker</b>                                                                                      | The Interaction of Membrane Proximal Domains of Receptor Tyrosine Kinases Tiel and Tie2                                                                                | <b>03:45 PM</b> |
| <b>Eduardo Galeana</b>                                                                                   | PKM? and the Synaptic Process that Underlies Odor Shock Conditioning in the Amygdala                                                                                   | <b>04:00 PM</b> |
| <b>Winthrop A, AB/BB</b><br><b>Olutobi Ajala, Johns Hopkins University, 4:30 - 5:45</b>                  |                                                                                                                                                                        |                 |
| <b>Hannah Weber</b>                                                                                      | The Role of MMP-2-Induced TH2 Cells in Melanoma Tumor Invasion and Angiogenesis                                                                                        | <b>04:30 PM</b> |
| <b>Dominique Moore</b>                                                                                   | Developing a Diagnostic Tool to target Metastatic Cancer using the MARCKS Peptide and Membrane Curvature                                                               | <b>04:45 PM</b> |
| <b>Elisia Clark</b>                                                                                      | The Role of Lipid Uptake in Cancer Cells                                                                                                                               | <b>05:00 PM</b> |
| <b>Isabel Hinestrosa</b>                                                                                 | Effects of Mammalian Target of Rapamycin Inhibition on a Breast Cancer Model                                                                                           | <b>05:15 PM</b> |
| <b>Alejandro Arroyo-Pacheco</b>                                                                          | Identification of Biomarkers in Blood Plasma for Ovarian Cancer Early Detection                                                                                        | <b>05:30 PM</b> |

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| <b>Winthrop B, AB/BB</b><br><b>Angel Byrd, Brown University, 11:15 - 12:45</b>                   |                                                                                                                                          |                 |
| <b>Christopher Ecker</b>                                                                         | Identification and Isolation of HIV-1 Specific T Regulatory Cells                                                                        | <b>11:15 AM</b> |
| <b>Edjohnier Phillips</b>                                                                        | Could CR3 be the Receptor for Beta-Glucan?                                                                                               | <b>11:30 AM</b> |
| <b>Joshua Brown</b>                                                                              | Inhibition of HIV Capsid Protein                                                                                                         | <b>11:45 AM</b> |
| <b>Stefanie Luecke</b>                                                                           | Role of ICP0 in Herpes Simplex Virus Reactivation from Latency: Antagonism of the Neuronal DNA Damage Response                           | <b>12:00 PM</b> |
| <b>Isola Brown</b>                                                                               | Observing the Effect of Salmonella enterica Infection on Cellular Organelle Phenotype                                                    | <b>12:15 PM</b> |
| <b>Mame Cisse</b>                                                                                | Adaptation of Human Respiratory Syncytial Virus for Growth in Mouse Cells                                                                | <b>12:30 PM</b> |
| <b>Winthrop B, AB/BB</b><br><b>Sarah Ann Anderson, Mt. Sinai School of Medicine, 2:45 - 4:15</b> |                                                                                                                                          |                 |
| <b>Jacqueline Romero</b>                                                                         | Role of Gap Junctions in the Spread of Cell Death in Ischemic Retinopathy                                                                | <b>02:45 PM</b> |
| <b>Sebastian Perez</b>                                                                           | Mechanisms of Sirt1-Dependent Regulation of Bone Mass                                                                                    | <b>03:00 PM</b> |
| <b>Jesus Ayala</b>                                                                               | Investigating Potential Glial Cell Abnormalities in lpr-1 and let-4 Mutants                                                              | <b>03:15 PM</b> |
| <b>Christopher Bartolome</b>                                                                     | The Role of Ras-GRF1 and Ras-GRF2 IQ Motifs in Memory Formation and Learning                                                             | <b>03:30 PM</b> |
| <b>Dahima Cintron</b>                                                                            | Evaluating the Necessity of Acetylcholine During Learning of Reward Timing in Mice using Immediate Early Gene Expression                 | <b>03:45 PM</b> |
| <b>Melissa Santos</b>                                                                            | Involvement of Cannabinoid CB1 and Dopamine D2 Receptors in Cortical and Striatal Glutamatergic Signaling                                | <b>04:00 PM</b> |
| <b>Winthrop B, AB/BB</b><br><b>Ifeoma Nwigwe, Yale University, 4:30 - 5:45</b>                   |                                                                                                                                          |                 |
| <b>Helya Ghaffari</b>                                                                            | Chemokine Gene Silencing in the Tumor Microenvironment                                                                                   | <b>04:30 PM</b> |
| <b>Elizabeth Perez</b>                                                                           | Effect of Presenilin-1 Mutations on Notch1 Processing                                                                                    | <b>04:45 PM</b> |
| <b>Cassandra Nelson</b>                                                                          | Does the Antioxidant Gene, nrf2, Protect Cancer Cells from Immune Destruction?                                                           | <b>05:00 PM</b> |
| <b>Santiago Salazar</b>                                                                          | Fluorescence Recovery After Photobleaching (FRAP) Analysis Shows RPA Phosphorylation Modulates Recruitment of the Tumor Suppressor PALB2 | <b>05:15 PM</b> |
| <b>Ninoshka Lopez-Mojica</b>                                                                     | Downregulation of Helicobacter pylori Oncoprotein CagA by Exposure to Gastric Epithelial Cells                                           | <b>05:30 PM</b> |
| <b>Belle Haven, HU/SS/PE</b><br><b>Andrea Owens-Jones, Brown University, 11:15 - 12:45</b>       |                                                                                                                                          |                 |
| <b>Diane Wong</b>                                                                                | What Explains Asian American Political Participation? The Effects of Ethnic Enclaves and Co-ethnic Candidates on Turnout                 | <b>11:15 AM</b> |
| <b>Silas Altheimer</b>                                                                           | Uncle Tom's Cabin and the Vocabularies of a "Black Church"                                                                               | <b>11:30 AM</b> |
| <b>Nathaniel Gonzalez</b>                                                                        | Democracy and Religious Pluralism: Understanding Interfaith Collaboration                                                                | <b>11:45 AM</b> |
| <b>Vladimir Medenica</b>                                                                         | As 'They' Become 'Us.' A Generational Perspective on Mexican-American Political Behavior                                                 | <b>12:00 PM</b> |
| <b>Jasmine Wise</b>                                                                              | How Do Housing Interventions Affect Parenting in Homeless Families?                                                                      | <b>12:15 PM</b> |
| <b>Adrienne Slaughter</b>                                                                        | Integrating Black Students: Examining the Impact of Integrated Schools on the Educational Experience of Black Students                   | <b>12:30 PM</b> |



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| <b>Belle Haven, HU/SS/PE</b><br><b>Elizabeth Hinton, Stanford University, 2:45 - 4:15</b>                 |                                                                                                                                              |                 |
| <b>April Brown</b>                                                                                        | Evaluating the Effectiveness of Emotion Elicitation                                                                                          | <b>02:45 PM</b> |
| <b>Isabella Proia</b>                                                                                     | The Subtleness of the Sea: American Encounters in the Caribbean and the Illustrated Diary of William H. Meyers, 1838-1839                    | <b>03:00 PM</b> |
| <b>Amanda Gomez</b>                                                                                       | Queer Figures in Latina Literature                                                                                                           | <b>03:15 PM</b> |
| <b>Adee Benartzy</b>                                                                                      | The Pastel Sketch: Communicating Sexuality and Promiscuity in Late-Nineteenth Century Paris                                                  | <b>03:30 PM</b> |
| <b>Norrell Edwards</b>                                                                                    | South African Literature                                                                                                                     | <b>03:45 PM</b> |
| <b>Jeremy Griffin</b>                                                                                     | Free the Black Homosexual: Acknowledging Truth in Black America                                                                              | <b>04:00 PM</b> |
| <b>Belle Haven, HU/SS/PE</b><br><b>Tessa Lowinske Desmond, Harvard University, 4:30 - 5:30</b>            |                                                                                                                                              |                 |
| <b>Zachary Graves</b>                                                                                     | Negative Emotions and their Effects on CVD Risk Factors                                                                                      | <b>04:30 PM</b> |
| <b>Adriana Santos</b>                                                                                     | The Interactions between Dopamine and Corticotropin Releasing Factor in the Amygdala and their Effects on Anxiety                            | <b>04:45 PM</b> |
| <b>Cynthia Cohen</b>                                                                                      | The Role of Community Resources in Preventing and Managing Diabetes in New York City Neighborhoods with Different Socioeconomic Statuses     | <b>05:00 PM</b> |
| <b>Dominique Grasty</b>                                                                                   | Analyzing Attempts to Bridge the Gender Gap Among Physician Scientists: Are New Programs at NIH and Schools of Medicine Making a Difference? | <b>05:15 PM</b> |
| <b>Austin Roth</b>                                                                                        | Development of Fear Extinction Learning and Spontaneous Recovery in Humans: Implications for Treatment of Childhood Anxiety Disorders        | <b>05:30 PM</b> |
| <b>Byram Shore, HU/SS/PE</b><br><b>Christopher Downing, Virginia Polytechnic Institute, 11:15 - 12:45</b> |                                                                                                                                              |                 |
| <b>Candace Banks</b>                                                                                      | Language and Identity                                                                                                                        | <b>11:15 AM</b> |
| <b>Sana Venjara</b>                                                                                       | Style Space and Consciousness: Negotiating Clothing and Identity in Contemporary Cairo                                                       | <b>11:30 AM</b> |
| <b>Hadiya Sewer</b>                                                                                       | Who Defines "The People": Identity and Nation Building in the U.S. Virgin Islands                                                            | <b>11:45 AM</b> |
| <b>Alexia Williams</b>                                                                                    | Articulating Blackness and Imagining a Nation: Afro-Peruvian Poetry as Peaceful Protest                                                      | <b>12:00 PM</b> |
| <b>Rebecca Grunberg</b>                                                                                   | Unexplored Causes of Residential Segregation: Biological Conceptions of Race and Conformity to Norms                                         | <b>12:15 PM</b> |
| <b>Rigoberto Lara</b>                                                                                     | Race and Food Justice: F.R.E.S.H Options in The City                                                                                         | <b>12:30 PM</b> |
| <b>Byram Shore, HU/SS/PE</b><br><b>Ashon Bradford, Cornell University, 2:45 - 4:15</b>                    |                                                                                                                                              |                 |
| <b>Jason Brouster</b>                                                                                     | Bad Sistas: The Political and Social Contributions of Women in the Harlem Black Panther Party, 1969-1972                                     | <b>02:45 PM</b> |
| <b>Tanya Sanabria</b>                                                                                     | Women in the Workforce: The Stalled Gender Revolution                                                                                        | <b>03:00 PM</b> |
| <b>Asha Canady</b>                                                                                        | Children in Toni Morrison's Work                                                                                                             | <b>03:15 PM</b> |
| <b>Andrew Manns</b>                                                                                       | Bridging the Gap between Human Depravity and Dignity: The Imagination in Gianfrancesco Pico's De Imaginatione                                | <b>03:30 PM</b> |
| <b>Allister Plater</b>                                                                                    | Teen Mothers Coping with Stress: Development of a New Measure                                                                                | <b>03:45 PM</b> |
| <b>Victor Gonzalez</b>                                                                                    | Magical Realism in Chicano/a Literature                                                                                                      | <b>04:00 PM</b> |

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|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Byram Shore, HU/SS/PE</b><br><b>Christina Buelna, University of Illinois at Chicago, 4:30 - 5:30</b> |                                                                                                                                     |                 |
| <b>Aruba Hussain</b>                                                                                    | Attitudes towards Risk and Ambiguity in Young and Older Adults                                                                      | <b>04:30 PM</b> |
| <b>Luke Wandrey</b>                                                                                     | Peer Relations in Adolescents: Physiological and emotional Brain Responses during Social Evaluation                                 | <b>04:45 PM</b> |
| <b>Vincent Jones IV</b>                                                                                 | Baby Boomers and Facebook: How Baby Boomers Negotiate their Virtual Identities and Engage New Media Compared to Generations X and Y | <b>05:00 PM</b> |
| <b>Mary Hofto Grae</b>                                                                                  | The Subversive Readership of the Early Gothic Novel                                                                                 | <b>05:15 PM</b> |
| <b>Cos Cob, HU/SS/PE</b><br><b>Kelsie Kelly, University of Virginia, 11:15 - 12:45</b>                  |                                                                                                                                     |                 |
| <b>Malinda Balfour</b>                                                                                  | College Readiness: Preparing Students Academically and Socially for a Successful College Experience                                 | <b>11:15 AM</b> |
| <b>Thomas Anderson</b>                                                                                  | Understanding Low-Fertility in South Korea: A Cultural Approach                                                                     | <b>11:30 AM</b> |
| <b>Alesha Henderson</b>                                                                                 | Factors Affecting Racial/Ethnic Health Disparities: A Focus on Breast Cancer                                                        | <b>11:45 AM</b> |
| <b>Cayla Echols</b>                                                                                     | Implicit Biases in Surgery                                                                                                          | <b>12:00 PM</b> |
| <b>Xzania White</b>                                                                                     | Linking Pathways to African American Success (PAAS) to Youth Self-Regulation in Order to Predict HIV Risk Vulnerability             | <b>12:15 PM</b> |
| <b>Yaseen Eldik</b>                                                                                     | Silencing Democracy: Getting Islam Out                                                                                              | <b>12:30 PM</b> |
| <b>Cos Cob, HU/SS/PE</b><br><b>Kedrick Perry, University of Virginia, 2:45 - 4:15</b>                   |                                                                                                                                     |                 |
| <b>Glamildi Rondon</b>                                                                                  | An Examination of the Effects of Poverty on School Readiness and Early Academic Achievement                                         | <b>02:45 PM</b> |
| <b>Liana Donahue</b>                                                                                    | Culpability and the Moral Community: An analysis of a Cape Coloured Gangster's Ideology                                             | <b>03:00 PM</b> |
| <b>Rebba Moore</b>                                                                                      | Why Don't Americans Care? Public Support for Social Welfare in a Diverse Nation                                                     | <b>03:15 PM</b> |
| <b>Danielle Wiggins</b>                                                                                 | The Right's Black Darlings: Perceptions of Black Republicans in the Reagan Administration                                           | <b>03:30 PM</b> |
| <b>Patricio Martínez Llompart</b>                                                                       | Insanity, the Deviant and Mass Incarceration: The Puerto Rican Case                                                                 | <b>03:45 PM</b> |
| <b>Nicole Perez</b>                                                                                     | Empowering Students: The Relationship between Multicultural Curricula and Educational Achievement                                   | <b>04:00 PM</b> |
| <b>Cos Cob, HU/SS/PE</b><br><b>Saranna Husband, Hunter College, 4:30 - 5:30</b>                         |                                                                                                                                     |                 |
| <b>Glenn Love</b>                                                                                       | Unpacking the Great Equalizer: A Reassessment of Social Mobility and the Impacts of Race on Poverty                                 | <b>04:30 PM</b> |
| <b>Gavin Fung</b>                                                                                       | Children's Use of Pedagogical Cues to Guide Exploration                                                                             | <b>04:45 PM</b> |
| <b>Molly Galloway</b>                                                                                   | Reading Between the Lines: Self Identifying Biracial Students in the Black-White Achievement Gap                                    | <b>05:00 PM</b> |
| <b>Kristina Donathan</b>                                                                                | Public Perception on Punishment of Juveniles with Different Underlying Factors to the Commitment of the Crime                       | <b>05:15 PM</b> |
| <b>Milbrook, HU/SS/PE,</b><br><b>Cassi Pittman, Harvard University, 11:15 - 12:45</b>                   |                                                                                                                                     |                 |
| <b>Angela Crumdy</b>                                                                                    | A Nation for All? Black Political Expression in Cuba, 1911-2011                                                                     | <b>11:15 AM</b> |
| <b>Andrew Brooks</b>                                                                                    | The IMF and Ethnic Conflict                                                                                                         | <b>11:30 AM</b> |
| <b>Daniel Rios</b>                                                                                      | Violence and Globalization in 21st Latin American Literature                                                                        | <b>11:45 AM</b> |

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|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Luis Trujillo</b>                                                                                        | Recolonization and the Police State                                                                                                                             | <b>12:00 PM</b> |
| <b>Jonathan Topaz</b>                                                                                       | Persistent Authoritarianism in the Middle East                                                                                                                  | <b>12:15 PM</b> |
| <b>Michael Murphy</b>                                                                                       | An Examination of Global Environmental Change and its Effect on Globalization and Global Capitalism                                                             | <b>12:30 PM</b> |
| <b>Milbrook, HU/SS/PE</b><br><b>Christopher De La Cerda, University of Virginia, 2:45 - 4:15</b>            |                                                                                                                                                                 |                 |
| <b>Matthew Harris</b>                                                                                       | The Behavior Criterion: A Refutation of the Chinese Room Argument                                                                                               | <b>02:45 PM</b> |
| <b>Alexander DeLeon</b>                                                                                     | A Comparative Study: Maryland Household Wealth Sensitivity to the Ongoing Foreclosure Epidemic                                                                  | <b>03:00 PM</b> |
| <b>Hien Nguyen</b>                                                                                          | Role of Hippocampal Dendritic Spines in Memory Consolidation of Rats                                                                                            | <b>03:15 PM</b> |
| <b>Jordan Encarnacion</b>                                                                                   | Neurochemicals Mediating Memory Consolidation in Adult Male Rats                                                                                                | <b>03:30 PM</b> |
| <b>Dyan Ruiz Connelly</b>                                                                                   | Centrality of Independence in Spinal Cord Injury Survivors: Implications for Their Own and Caregivers' Well-being                                               | <b>03:45 PM</b> |
| <b>Shemariah Ellis</b>                                                                                      | Novel Strategies to Parcellating the Basal Ganglia in Humans                                                                                                    | <b>04:00 PM</b> |
| <b>Milbrook, HU/SS/PE</b><br><b>Key Jo Lee, Yale University, 4:30 - 5:45</b>                                |                                                                                                                                                                 |                 |
| <b>Anaya Gonda</b>                                                                                          | Mental Representations of Language: Investigating a Novel Priming Effect in the Perception of Goal-Directed Behaviors                                           | <b>04:30 PM</b> |
| <b>Natalie Rodríguez</b>                                                                                    | Gender Differences in Depression                                                                                                                                | <b>04:45 PM</b> |
| <b>Mary Remy</b>                                                                                            | Domestic Violence on College Campuses and Community Involvement                                                                                                 | <b>05:00 PM</b> |
| <b>Zulie Camacho</b>                                                                                        | Challenging Navigationally Experienced Weakly Electric Fish in a Novel Environment: Maze Learning, Electric Organ Discharge and the Learning Molecular PKM zeta | <b>05:15 PM</b> |
| <b>Elizabeth Vargas</b>                                                                                     | The Role of Serotonin Receptor Subtype 5-HT <sub>6</sub> on Prepulse Inhibition of the Goldfish Startle Escape Behavior                                         | <b>05:30 PM</b> |
| <b>New London, PS/EN/ES</b><br><b>Matthew Montemore, University of Colorado at Boulder, 11:15 - 12:45</b>   |                                                                                                                                                                 |                 |
| <b>Guy Geyer</b>                                                                                            | Fiber Taper Probe for Probing Photonic Crystal Microcavities                                                                                                    | <b>11:15 AM</b> |
| <b>Kendra Souther</b>                                                                                       | Liquid Crystals: An Answer for Alternative Energy                                                                                                               | <b>11:30 AM</b> |
| <b>Miguel Rodriguez</b>                                                                                     | Mechanical Properties of Large Graphene Balloons                                                                                                                | <b>11:45 AM</b> |
| <b>Korine Duval</b>                                                                                         | Fabrication of Polyelectrolyte Complex Microcapsules via Electrospray                                                                                           | <b>12:00 PM</b> |
| <b>Dawn Skeen</b>                                                                                           | Fabrication of Artificial Microstructures Using Bulk Metallic Glass                                                                                             | <b>12:15 PM</b> |
| <b>Patrick Llull</b>                                                                                        | Stochastic Drift Correction for a Super-Resolution Microscope                                                                                                   | <b>12:30 PM</b> |
| <b>New London, PS/EN/ES</b><br><b>Brittany Davis, University of Maryland, Baltimore County, 2:45 - 4:15</b> |                                                                                                                                                                 |                 |
| <b>Alexis Brown</b>                                                                                         | Investigating Invasive Species and Native Amphibian Communities in Colorado Wetlands                                                                            | <b>02:45 PM</b> |
| <b>Marissa Reyes-Diaz</b>                                                                                   | Relationship between Mortality and Density in the Invasive Species <i>Linaria dalmatica</i> and the Biological Control <i>Mecinus janthinus</i> in Colorado     | <b>03:00 PM</b> |
| <b>Natalie Freeman</b>                                                                                      | Southern Ocean Deoxygenation in a Warming World                                                                                                                 | <b>03:15 PM</b> |
| <b>Adriana Collazo</b>                                                                                      | Presence and Localization of <i>E. coli</i> O157:H7 within Constructed Wetland Water Treatment Systems                                                          | <b>03:30 PM</b> |
| <b>Nathaniel Enriquez</b>                                                                                   | Synthesis of Bionic Analogs of RuBisCo                                                                                                                          | <b>03:45 PM</b> |
| <b>Veronica Hogg-Cornejo</b>                                                                                | Collagen Quantification of the Fetal Membrane                                                                                                                   | <b>04:00 PM</b> |

**Sheffield, PS/EN/ES,****Cristina Lopez-Fagundo, Brown University, 11:15 - 12:45**

|                                 |                                                                                                                                   |                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Douglas Ball</b>             | Nano-structured oxide semiconductor composites for photocatalysis                                                                 | <b>11:15 AM</b> |
| <b>Heather Hawkes</b>           | The Piezoelectric Properties of Zinc Oxide Thin Films                                                                             | <b>11:30 AM</b> |
| <b>Gentry Tran</b>              | Interaction Forces and Contamination on Smectic Films                                                                             | <b>11:45 AM</b> |
| <b>Jose Sanchez</b>             | Characterization of the GaN-MgO Transistor's Interface                                                                            | <b>12:00 PM</b> |
| <b>Adriana Santiago-Miranda</b> | The Effect of Poly(lactic-co-glycolic acid) Density in Carbon Nanofiber Composites for Myocardial Tissue Engineering Applications | <b>12:15 PM</b> |
| <b>Victoria Rosborough</b>      | Oxide semiconductor heterostructures for photocatalysis                                                                           | <b>12:30 PM</b> |

**Stonington, PS/EN/ES,****Chloe Poston, Brown University, 11:15 - 12:45**

|                        |                                                                                           |                 |
|------------------------|-------------------------------------------------------------------------------------------|-----------------|
| <b>Connie Chan</b>     | Demonstration of DNA Repair in Virus after UV Disinfection using Coliphages as Surrogates | <b>11:15 AM</b> |
| <b>Mindy Lee</b>       | Alternative Synthesis of HIV Protease Inhibitor Darunavir                                 | <b>11:30 AM</b> |
| <b>Brajaan Hayes</b>   | Ribeiroia vs Snails: Which Snails can be Infected by Ribeiroia ondatrae?                  | <b>11:45 AM</b> |
| <b>Nicholas Ravvin</b> | The Use of Porphyrins as Photodynamic Therapy Agents                                      | <b>12:00 PM</b> |
| <b>Valencia Wise</b>   | Predicting Disease Genes using Protein Interaction Networks                               | <b>12:15 PM</b> |
| <b>Asmaou Diallo</b>   | Demonstrating Brain Metabolic Changes due to mTBI using 3D MRS                            | <b>12:30 PM</b> |

**Stonington, PS/EN/ES,****Jose Solis, University of Colorado at Boulder, 2:45 - 3:45**

|                          |                                                                                         |                 |
|--------------------------|-----------------------------------------------------------------------------------------|-----------------|
| <b>Alba Serrano</b>      | Fluidic Injection for Thrust Vectoring and Flow Control                                 | <b>02:45 PM</b> |
| <b>Austin Tucker</b>     | Initial Findings on the Effects of Workload on Humans when Interacting with Robots      | <b>03:00 PM</b> |
| <b>Alexsandra Guerra</b> | Evaluation of Applications and of Environmental Health Effects of Biomass Derived Fuels | <b>03:15 PM</b> |
| <b>Karla Rosario</b>     | Human Factors in Dream Chaser's Vehicle Design                                          | <b>03:30 PM</b> |

**Stonington, PS/EN/ES,****David Stout, Brown University, 4:30-5:45**

|                       |                                                                                                        |                 |
|-----------------------|--------------------------------------------------------------------------------------------------------|-----------------|
| <b>Tiffany Rolle</b>  | Development of a Portable GC-MS Methodology for the Evaluation of the Level of Food Spoilage           | <b>04:30 PM</b> |
| <b>Naderge Nwana</b>  | Role of Melanocortin 4 Receptor (MC4R) in Obesity                                                      | <b>04:45 PM</b> |
| <b>Jojo Yeboa</b>     | Agonist-Induced Binding of the Regulatory Scaffold Protein Spinophilin to Phospholipase-C in Platelets | <b>05:00 PM</b> |
| <b>Rachel Rudlaff</b> | Oxidative Stress in the Endothelium: To Live or to Die                                                 | <b>05:15 PM</b> |
| <b>Adrienne Bird</b>  | Evaluating Sampling Protocols on the Little Big Horn River                                             | <b>05:30 PM</b> |



## ORAL PRESENTATIONS BY NAME

### **Meinkeng Acha-Morfaw ..... 03:15 PM, Putnam**

Presentation Title: Improving the Solubility of the Myristoylated FIV Matrix Protein for NMR Structural Studies and its Possible Role as an HIV Animal Model  
 Research Mentor: Michael Summers  
 Research Institution: University of Maryland, Baltimore County  
 Home Institution: Hood College  
 Co-Authors: Lola Brown, Ryan Button and Michael Summers, University of Maryland, Baltimore County  
 BB

### **Michael Adu ..... 05:00 PM, Laddins Rock**

Presentation Title: Identifying Real Defective Interfering (DI) Genome through Running of PCR  
 Research Mentor: Carolina Lopez  
 Research Institution: University of Pennsylvania  
 Home Institution: Virginia Polytechnic Institute and State University  
 Co-Authors: Carolina Lopez, University of Pennsylvania  
 BB

### **Rhiannon Aguilar ..... 12:00 PM, Laddins Rock**

Presentation Title: Preliminary Manipulation of the SMYD Proteins for use in Bioorthogonal Profiling of Protein Methylation  
 Research Mentor: Minkui Luo  
 Research Institution: Weill Cornell Medical College  
 Home Institution: University of Maryland, College Park  
 Co-Authors: Minkui Luo, Jamie McBean and Joshua Linscott, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional  
 BB

### **Opeyemi Alabi ..... 03:00 PM, Laddins Rock**

Presentation Title: Circuit Structure Underlying Short-Term Memory  
 Research Mentor: Emre Aksay  
 Research Institution: Weill Cornell Medical College  
 Home Institution: Harvard University  
 Co-Authors: Emre Aksay and Keyvon Daie, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional  
 BB

### **Ivan Albino Flores ..... 02:45 PM, Mead C**

Presentation Title: Examine the Contribution of an N-linked Glycosylation Site at Residue 161 of A56 to A56's Interaction with VCP  
 Research Mentor: Stuart Isaacs  
 Research Institution: University of Pennsylvania  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Edward Bell and Stuart Isaacs, University of Pennsylvania  
 BB

### **Anamaria Alexandrescu ..... 03:15 PM, Winthrop A**

Presentation Title: Cell Type Selective Reduction of NMDA Receptors For Schizophrenia Targeted Therapeutic Development  
 Research Mentor: Steven Siegel  
 Research Institution: University of Pennsylvania  
 Home Institution: Florida Atlantic University  
 Co-Authors: Steven J. Siegel and Valerie Leitman, University of Pennsylvania  
 BB

### **Alessandra Alicea ..... 05:00 PM, Mead C**

Presentation Title: Analysis of Fhos in Drosophila melanogaster Muscle Function  
 Research Mentor: Gordon Huggins  
 Research Institution: Tufts University BioMedical Sciences  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Gordon Huggins and Isabelle Draper, Tufts University School of Graduate Biomedical Sciences  
 BB

### **Kevin Alicea Torres.....04:30 PM, Mead B**

Presentation Title: The Impact of Bariatric Surgery on Insulin Sensitivity in Human Adipose Tissue  
 Research Mentor: Matthew Brady  
 Research Institution: University of Chicago  
 Home Institution: UPR-Humacao  
 Co-Authors: Matthew Brady and Samantha Pabich, University of Chicago  
 AB

**Jawara Allen ..... 11:30 AM, Mead B**

Presentation Title: Structural and Functional Analysis of RAR-Related Orphan Receptor gamma (ROR gamma) in Th17 Cells

Research Mentor: Wendy Huang

Research Institution: New York University Sackler Institute

Home Institution: Duke University

Co-Authors: Wendy Huang and Dan Littman, New York University

BB

**Silas Altheimer ..... 11:30 AM, Belle Haven**

Presentation Title: Uncle Tom's Cabin and the Vocabularies of a "Black Church"

Research Mentor: Curtis Evans

Research Institution: University of Chicago

Home Institution: Haverford College

Co-Authors: Curtis Evans and Danny Gibbone, Jr., University of Chicago

HU

**Melissa Alvarado-Velez ..... 11:45 AM, Mead B**

Presentation Title: Role of Oxidative Stress in Neurotoxic Effect of cART Drugs

Research Mentor: Kelly Jordan-Sciutto

Research Institution: University of Pennsylvania

Home Institution: UPR-Mayaguez

Co-Authors: Melissa Alvarado-Velez, Akin Odeleye and Kelly Jordan-Sciutto, University of Pennsylvania

BB

**Alvaro Amor ..... 11:30 AM, Roundhill**

Presentation Title: Direct Observation of the Transition between the Broken and Extended Helix States of the Parkinson's-linked Protein  $\alpha$ -synuclein by CD and NMR Spectroscopy

Research Mentor: David Eliezer

Research Institution: Weill Cornell Graduate School

Home Institution: Ursinus College

Co-Authors: David Eliezer, Weill Cornell Graduate School of Medical Sciences; Trudy Ramlall, Weill Cornell Medical College; Igor Dikiy, Weill Cornell Graduate School of Medical Sciences

BB

**Thomas Anderson.....11:30 AM, Cos Cob**

Presentation Title: Understanding Low-Fertility in South Korea: A Cultural Approach

Research Mentor: Hans-Peter Kohler

Research Institution: University of Pennsylvania

Home Institution: Virginia Polytechnic Institute and State University

Co-Authors: Hans-Peter Kohler, University of Pennsylvania

SS

**Alejandro Arroyo-Pacheco... 05:30 PM, Winthrop A**

Presentation Title: Identification of Biomarkers in Blood Plasma for Ovarian Cancer Early Detection

Research Mentor: David Speicher

Research Institution: University of Pennsylvania

Home Institution: UPR-Rio Piedras

Co-Authors: Lynn Beer and David W. Speicher, University of Pennsylvania

AB

**Olubusayo Awe ..... 05:00 PM, Roundhill**

Presentation Title: Lipoprotein Metabolism in Metabolically Healthy Obese (MHO) vs. Metabolic Abnormal Obese (MAO) - Isolation and Derivatization of HDL-AL Lipoprotein from Human Samples

Research Mentor: Henry Ginsberg

Research Institution: Columbia University

Home Institution: Morehouse College

Co-Authors: Gisette Reyes-Soffer, Ellie Coromilas and Henry Ginsberg, Columbia University

AB

**Jesus Ayala..... 03:15 PM, Winthrop B**

Presentation Title: Investigating Potential Glial Cell Abnormalities in lpr-1 and let-4 Mutants

Research Mentor: Meera Sundaram

Research Institution: University of Pennsylvania

Home Institution: UPR-Humacao

Co-Authors: Vinnie Mancuso and Meera Sundaram, University of Pennsylvania

BB

**Sarah Azarchi..... 03:45 PM, Laddins Rock**

Presentation Title: Novel Conformationally Directed Immunomodulation for Reducing Amyloid and Tau in Alzheimer's Disease Related Pathology in a Mouse Model

Research Mentor: Thomas Wisniewski

Research Institution: New York University Sackler Institute

Home Institution: Brandeis University

Co-Authors: Thomas Wisniewski, Kin-Lung Valentino Wong and Fernando Goni, New York University

AB

**Malinda Balfour.....11:15 AM, Cos Cob**

Presentation Title: College Readiness: Preparing Students Academically and Socially for a Successful College Experience

Research Mentor: Constance Ellison

Research Institution: Howard University

Home Institution: DePaul University

Co-Authors: Constance Ellison, Howard University

SS

**Douglas Ball.....11:15 AM, Sheffield**

Presentation Title: Nano-structured oxide semiconductor composites for photocatalysis

Research Mentor: Fred Walker

Research Institution: Yale University

Home Institution: Utah State University

Co-Authors: Fred Walker and Joe Ngai, Yale University

PS

**Candace Banks..... 11:15 AM, Byram Shore**

Presentation Title: Language and Identity

Research Mentor: Gregory Walton

Research Institution: Stanford University

Home Institution: Dillard University

Co-Authors: Greg Walton, Stanford University School of Humanities & Sciences

SS

**Christopher Bartolome ..... 03:30 PM, Winthrop B**

Presentation Title: The Role of Ras-GRF1 and Ras-GRF2 IQ Motifs in Memory Formation and Learning

Research Mentor: Larry Feig

Research Institution: Tufts University BioMedical Sciences

Home Institution: Boston University

Co-Authors: Larry Feig, Tufts University School of Graduate Biomedical Sciences

BB

**Brian Becker.....03:45 PM, Winthrop A**

Presentation Title: The Interaction of Membrane Proximal Domains of Receptor Tyrosine Kinases Tie1 and Tie2

Research Mentor: Kathryn Ferguson

Research Institution: University of Pennsylvania

Home Institution: Fairleigh Dickinson University

Co-Authors: Kathryn Ferguson and Jason Moore, University of Pennsylvania

BB

**Rene Begay .....05:30 PM, Mead B**

Presentation Title: Regulation of Kisspeptin in GnRH-deficient Adult Transgenic Animals

Research Mentor: Rene Begay

Research Institution: University of Colorado at Boulder

Home Institution: University of Arizona

Co-Authors: Johanna Rochester and Pei-San Tsai, University of Colorado at Boulder

AB

**Tiffany Bell..... 12:30 PM, Mead A**

Presentation Title: Elucidating the Regulation of Interleukin-1 Receptor Antagonist by Matrilin-3

Research Mentor: Qian Chen

Research Institution: Brown University

Home Institution: Yale University

Co-Authors: Qian Chen and Chathuraka Jayasuriya, Brown University

BB

**Adee Benartzy..... 03:30 PM, Belle Haven**

Presentation Title: The Pastel Sketch: Communicating Sexuality and Promiscuity in Late-Nineteenth Century Paris

Research Mentor: Key Jo Lee

Research Institution: Yale University

Home Institution: University of Central Florida

Co-Authors: Key Jo Lee, Yale University

HU

**Carcha Bernard..... 03:15 PM, Laddins Rock**

Presentation Title: Evaluation of Neural Phenotypes and Therapeutic Interventions in a Zebrafish Model of Batten's Disease

Research Mentor: Rita Balice-Gordon

Research Institution: University of Pennsylvania

Home Institution: Temple University

Co-Authors: Rita Balice-Gordon, Amy Kugath and Micheal Bennett, University of Pennsylvania

AB

**Adrienne Bird .....05:30 PM, Stonington**

Presentation Title: Evaluating Sampling Protocols on the Little Big Horn River  
 Research Mentor: Sara Plaggemeyer  
 Research Institution: Little Big Horn College  
 Home Institution: Little Big Horn College  
 Co-Authors: Sara Plaggemeyer, Little Big Horn College  
 ES

**Alexandria Broadnax..... 05:15 PM, Laddins Rock**

Presentation Title: Food Insecurity and Chronic Kidney Disease: the Healthy Aging in Neighborhoods of Diversity across the LifeSpan (HANDLS) Study  
 Research Mentor: Deidra Crews  
 Research Institution: Johns Hopkins University  
 Home Institution: Dillard University  
 Co-Authors: Deidra Crews, Johns Hopkins University; Marie Kuczmarski, University of Delaware; Neil Powe, University of California at San Francisco  
 AB

**Andrew Brooks ..... 11:30 AM, Milbrook**

Presentation Title: The IMF and Ethnic Conflict  
 Research Mentor: Brendan O'Leary  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Tulsa  
 Co-Authors: Brendan O'Leary, University of Pennsylvania  
 SS

**Jason Brouster .....02:45 PM, Byram Shore**

Presentation Title: Bad Sistas: The Political and Social Contributions of Women in the Harlem Black Panther Party, 1969-1972  
 Research Mentor: Samuel Roberts  
 Research Institution: Columbia University  
 Home Institution: Wayne State University  
 Co-Authors: Samuel Roberts and Elizabeth Kai Hinton, Columbia University  
 HU

**Alexis Brown .....02:45 PM, New London**

Presentation Title: Investigating Invasive Species and Native Amphibian Communities in Colorado Wetlands  
 Research Mentor: Valerie McKenzie  
 Research Institution: University of Colorado at Boulder  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Valerie McKenzie and Anna Peterson, University of Colorado at Boulder  
 ES

**April Brown..... 02:45 PM, Belle Haven**

Presentation Title: Evaluating the Effectiveness of Emotion Elicitation  
 Research Mentor: Susan Rivers  
 Research Institution: Yale University  
 Home Institution: Spelman College  
 Co-Authors: Susan Rivers and Marc Brackett, Yale University  
 SS

**Isola Brown ..... 12:15 PM,, Winthrop B**

Presentation Title: Observing the Effect of Salmonella enterica Infection on Cellular Organelle Phenotype  
 Research Mentor: Amy Palmer  
 Research Institution: University of Colorado at Boulder  
 Home Institution: University of Pennsylvania  
 Co-Authors: Sarah McQuate and Amy Palmer, University of Colorado at Boulder  
 BB

**Joshua Brown ..... 11:45 AM,, Winthrop B**

Presentation Title: Inhibition of HIV Capsid Protein  
 Research Mentor: Michael Summers  
 Research Institution: University of Maryland, Baltimore County  
 Home Institution: University of West Florida  
 Co-Authors: Michael F. Summers, University of Maryland, Baltimore County  
 AB

**Gregory Bryman ..... 12:30 PM,, Laddins Rock**

Presentation Title: Hypoxia Inducible Factor-1alpha in signaling downstream of Glycogen Synthase Kinase-3 Inhibition in the Mouse Brain  
 Research Mentor: Peter Klein  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Rochester  
 Co-Authors: W. Timothy O'Brien and Peter S. Klein, University of Pennsylvania  
 BB

**Amanda Buch..... 03:30 PM, Laddins Rock**

Presentation Title: Human ES Cell-derived Dopaminergic Neuron Grafts lead to Functional Recovery in Parkinsonian Rats  
 Research Mentor: Viviane Tabar  
 Research Institution: Weill Cornell Medical College  
 Home Institution: Fordham University  
 Co-Authors: Viviane Tabar, Jinghua Piao and Gordon Auyeung, Memorial Sloan-Kettering Cancer Center  
 BB



**Michael Burel .....04:45 PM, Mead B**

Presentation Title: Genetic Circuits Controlling Stem Cell Self-Renewal in the *Drosophila* Testis  
 Research Mentor: Erika Bach  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Georgia  
 Co-Authors: Marc Amoyel and Erika Bach, New York University  
 BB

**Caitlin Burgdorf..... 02:45 PM, Laddins Rock**

Presentation Title: Effects of Predator Odor Stress on CRF Release and Cognitive Flexibility in Rats  
 Research Mentor: Rita Valentino  
 Research Institution: University of Pennsylvania  
 Home Institution: Muhlenberg College  
 Co-Authors: Rita Valentino, University of Pennsylvania  
 BB

**Aisha Burton .....05:15 PM, Putnam**

Presentation Title: Fluorescein Isothiocyanate Attaches to Proteins on Living Cells  
 Research Mentor: Adam Hammond  
 Research Institution: University of Chicago  
 Home Institution: University of Illinois at Chicago  
 Co-Authors: Adam Hammond and Angelina Ocampo, University of Chicago  
 BB

**Zulie Camacho .....05:15 PM, Milbrook**

Presentation Title: Challenging Navigationally Experienced Weakly Electric Fish in a Novel Environment: Maze Learning, Electric Organ Discharge and the Learning Molecular PKM zeta  
 Research Mentor: Peter Moller  
 Research Institution: Hunter College  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Peter Moller and Peter Serrano, Hunter College  
 SS

**Asha Canady .....03:15 PM, Byram Shore**

Presentation Title: Children in Toni Morrison's Work  
 Research Mentor: Kenneth Warren  
 Research Institution: University of Chicago  
 Home Institution: Occidental College  
 Co-Authors: Kenneth Warren, University of Chicago  
 HU

**Connie Chan ..... 11:15 AM, Stonington**

Presentation Title: Demonstration of DNA Repair in Virus after UV Disinfection using Coliphages as Surrogates  
 Research Mentor: Karl Linden  
 Research Institution: University of Colorado at Boulder  
 Home Institution: Columbia University  
 Co-Authors: Karl Linden, Roberto Rodriguez and Sarah Bounty, University of Colorado at Boulder  
 EN

**James Chavre..... 05:30 PM, Mead A**

Presentation Title: Effect of Acrolein on Cardiac Fibroblast Proliferation  
 Research Mentor: Gaurav Choudhary  
 Research Institution: Brown University  
 Home Institution: Columbia University  
 Co-Authors: Gaurav Choudhary and Alexander Vang, Brown University  
 AB

**Dahima Cintron..... 03:45 PM, Winthrop B**

Presentation Title: Evaluating the Necessity of Acetylcholine During Learning of Reward Timing in Mice using Immediate Early Gene Expression  
 Research Mentor: Marshall Shuler  
 Research Institution: Johns Hopkins University  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Marshal Shuller, Johns Hopkins University  
 BB

**Mame Cisse ..... 12:30 PM, Winthrop B**

Presentation Title: Adaptation of Human Respiratory Syncytial Virus for Growth in Mouse Cells  
 Research Mentor: Joan Durbin  
 Research Institution: New York University Sackler Institute  
 Home Institution: New York University  
 Co-Authors: Mame Saye Cisse, Dr. Russell Durbin and Dr. Joan Durbin, New York University  
 BB

**Elisia Clark..... 05:00 PM, Winthrop A**

Presentation Title: The Role of Lipid Uptake in Cancer Cells  
 Research Mentor: Edward Delikatny  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Jim Delikatny and Daniel-Joseph Leung, University of Pennsylvania  
 AB

**Cynthia Cohen ..... 05:00 PM, Belle Haven**

Presentation Title: The Role of Community Resources in Preventing and Managing Diabetes in New York City Neighborhoods with Different Socioeconomic Statuses

Research Mentor: Nicholas Freudenberg

Research Institution: Hunter College

Home Institution: Cornell University

Co-Authors: Nicholas Freudenberg, Nancy Sohler and Kanwal Kalim, Hunter College

AB

**Adriana Collazo ..... 03:30 PM, New London**

Presentation Title: Presence and Localization of E. coli O157:H7 within Constructed Wetland Water Treatment Systems

Research Mentor: Mark Burr

Research Institution: Montana State University -Bozeman

Home Institution: UPR-Rio Piedras

Co-Authors: Mark Burr and Rachel VanKempen-Fryling, Montana State University

ES

**Angela Crumdy..... 11:15 AM, Milbrook**

Presentation Title: A Nation for All? Black Political Expression in Cuba, 1911-2011

Research Mentor: Keisha-Khan Perry

Research Institution: Brown University

Home Institution: University of Michigan-Ann Arbor

Co-Authors: Keisha-Khan Perry, Brown University

SS

**Norbert Cruz..... 11:15 AM, Roundhill**

Presentation Title: Varying Statistical Structure of Sounds: Effect on Behavioral Discrimination of Rats and on Response Properties of the Auditory Cortex

Research Mentor: Maria Geffen

Research Institution: University of Pennsylvania

Home Institution: UPR-Rio Piedras

Co-Authors: Maria Geffen and Isaac Carruthers, University of Pennsylvania; General Lee, Case Western Reserve University

AB

**Jean Damisse ..... 12:00 PM, Mead A**

Presentation Title: Study of the interactions between CA-NC and the 5'UTR of the HIV-1 Virus

Research Mentor: Michael Summers

Research Institution: University of Maryland, Baltimore County

Home Institution: Brevard Community College

Co-Authors: Michael Summers and Xiao Heng, University of Maryland, Baltimore County

BB

**Zharko Daniloski..... 12:15 PM, Mead C**

Presentation Title: Characterization of Novel Interacting Partners of Laminin Receptor

Research Mentor: Lisa Venticinque

Research Institution: New York University Sackler Institute

Home Institution: Jacobs University Bremen

Co-Authors: Lisa Venticinque and Daniel Meruelo, New York University

BB

**Alexander DeLeon ..... 03:00 PM, Milbrook**

Presentation Title: A Comparative Study: Maryland Household Wealth Sensitivity to the Ongoing Foreclosure Epidemic

Research Mentor: Liza Cariaga-Lo

Research Institution: Harvard University

Home Institution: Morehouse College

Co-Authors: Liza Cariaga-Lo and Tessa Lewinske-Desmond, Harvard University Arts and Sciences

SS

**Fiona Desland ..... 03:30 PM, Mead C**

Presentation Title: Determining Positive Regulators of the Nitric Oxide-Detoxifying Gene hmpA, in Vibrio Cholerae

Research Mentor: Jun Zhu

Research Institution: University of Pennsylvania

Home Institution: University of Florida

Co-Authors: Andrew Stern and Jun Zhu, University of Pennsylvania

BB

**Asmaou Diallo ..... 12:30 PM, Stonington**

Presentation Title: Demonstrating Brain Metabolic Changes due to mTBI using 3D MRS

Research Mentor: Oded Gonen

Research Institution: New York University Sackler Institute

Home Institution: Fordham University

Co-Authors: Xiaodan Yan, Ivan Kirov and Oded Gonen, New York University

PS

**Liana Donahue..... 03:00 PM, Cos Cob**

Presentation Title: Culpability and the Moral  
Community: An analysis of a Cape Coloured  
Gangster's Ideology  
Research Mentor: Kwame Appiah  
Research Institution: Princeton University  
Home Institution: Bryn Mawr College  
Co-Authors: Kwame Anthony Appiah, Princeton  
University  
HU

**Kristina Donathan ..... 05:15 PM, Cos Cob**

Presentation Title: Public Perception on Punishment of  
Juveniles with Different Underlying Factors to the  
Commitment of the Crime  
Research Mentor: Julia Kim-Cohen  
Research Institution: Yale University  
Home Institution: Chaminade University of Honolulu  
Co-Authors: Julia Kim-Cohen and Christopher  
Wildeman, Yale University  
SS

**Renee Dudley ..... 05:15 PM, Mead A**

Presentation Title: The Effect of Aging on the Reduction  
of Metabolic Cost during Motor Learning  
Research Mentor: Renee Dudley  
Research Institution: University of Colorado at Boulder  
Home Institution: Rice University  
Co-Authors: Helen Huang and Alaa Ahmed, University  
of Colorado at Boulder  
AB

**Korine Duval..... 12:00 PM, New London**

Presentation Title: Fabrication of Polyelectrolyte  
Complex Microcapsules via Electrospray  
Research Mentor: Chinedum Osuji  
Research Institution: Yale University  
Home Institution: University of Maryland, Baltimore  
County  
Co-Authors: Zhiyong Meng and Chinedum Osuji, Yale  
University  
EN

**Chelsea Earby..... 11:30 AM, Laddins Rock**

Presentation Title: Pulmonary Arterial Smooth Muscle  
Cell Migration is Calcium Dependent  
Research Mentor: Larissa Shimoda  
Research Institution: Johns Hopkins University  
Home Institution: Florida A&M University  
Co-Authors: Larissa Shimoda, Julie Maylor and Clark  
Undem, Johns Hopkins University  
BB

**Cayla Echols ..... 12:00 PM, Cos Cob**

Presentation Title: Implicit Biases in Surgery  
Research Mentor: Geoffrey Cohen  
Research Institution: Stanford University  
Home Institution: Tuskegee University  
Co-Authors: Geoff Cohen and Arghavan Salles,  
Stanford University School of Humanities &  
Sciences  
SS

**Christopher Ecker..... 11:15 AM, Winthrop B**

Presentation Title: Identification and Isolation of HIV-1  
Specific T Regulatory Cells  
Research Mentor: Marylyn Addo  
Research Institution: Harvard University  
Home Institution: University of Maryland, Baltimore  
County  
Co-Authors: Mathieu Angin, Bruce Walker and  
Marylyn Addo, Harvard University Div. of Medical  
Sciences  
AB

**Norrell Edwards ..... 03:45 PM, Belle Haven**

Presentation Title: South African Literature  
Research Mentor: Michele Elam  
Research Institution: Stanford University  
Home Institution: Hunter College  
Co-Authors: Michele Elam, Stanford University School  
of Humanities & Sciences  
HU

**Charles Eke..... 05:00 PM, Putnam**

Presentation Title: Trafficking of Retinal Degeneration  
Slow (RDS) within Cysteine Mutants Using  
Polarized Epithelial Cells as a Surrogate Model for  
Photoreceptor Trafficking  
Research Mentor: Kathleen Battaglia  
Research Institution: University of Pennsylvania  
Home Institution: Delaware State University  
Co-Authors: Frank Stefano and Kathleen Boesze  
Battaglia, University of Pennsylvania  
BB

**Yaseen Eldik ..... 12:30 PM, Cos Cob**

Presentation Title: Silencing Democracy: Getting Islam  
Out  
Research Mentor: Ronald Sullivan  
Research Institution: Harvard University  
Home Institution: SUNY Stony Brook  
Co-Authors: Ronald S. Sullivan, Harvard University  
Arts and Sciences  
SS

**Shemariah Ellis .....04:00 PM, Milbrook**

Presentation Title: Novel Strategies to Parcellating the Basal Ganglia in Humans  
 Research Mentor: Shemariah Ellis  
 Research Institution: New York University Sackler Institute  
 Home Institution: Carnegie Mellon University  
 Co-Authors: Francisco Xavier Castellanos, Michael Milham and Manuel Garcia, New York University  
 SS

**Jordan Encarnacion .....03:30 PM, Milbrook**

Presentation Title: Neurochemicals Mediating Memory Consolidation in Adult Male Rats  
 Research Mentor: Victoria Luine  
 Research Institution: Hunter College  
 Home Institution: Allegheny College  
 Co-Authors: Victoria Luine and Hien Nguyen, Hunter College  
 SS

**Nathaniel Enriquez .....03:45 PM, New London**

Presentation Title: Synthesis of Bionic Analogs of RuBisCo  
 Research Mentor: Nilay Hazari  
 Research Institution: Yale University  
 Home Institution: Chaminade University of Honolulu  
 Co-Authors: Nilay Hazari, Yale University  
 PS

**Juliana Falero Perez ..... 02:45 PM, Winthrop A**

Presentation Title: The Role of Dexas1 in Neuronal Iron Homeostasis  
 Research Mentor: Sangwon Kim  
 Research Institution: University of Pennsylvania  
 Home Institution: Universidad del Este  
 Co-Authors: Sangwon Kim, University of Pennsylvania  
 BB

**Rafael Fernandez ..... 02:45 PM, Mead A**

Presentation Title: A Step Towards a Universal Form of Mismatch Repair  
 Research Mentor: Richard Myers  
 Research Institution: University of Miami  
 Home Institution: Yale University  
 Co-Authors: Richard S. Myers, University of Miami  
 BB

**Briana Fitch..... 02:45 PM, Roundhill**

Presentation Title: Identifying Synthetic Lethality with MYCN Amplification in Neuroblastoma  
 Research Mentor: Darrell Yamashiro  
 Research Institution: Columbia University  
 Home Institution: UC Irvine  
 Co-Authors: Shuobo Zhang and Darrell Yamashiro, Columbia University  
 BB

**Will Fletcher..... 03:30 PM, Putnam**

Presentation Title: Bilayer-modifying Potential of Limonene and its Metabolites  
 Research Mentor: Olaf Andersen  
 Research Institution: Weill Cornell Medical College  
 Home Institution: Pomona College  
 Co-Authors: Olaf Andersen and Lea Sanford, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional  
 BB

**Natalie Freeman.....03:15 PM, New London**

Presentation Title: Southern Ocean Deoxygenation in a Warming World  
 Research Mentor: Nicole Lovenduski  
 Research Institution: University of Colorado at Boulder  
 Home Institution: University of Kansas  
 Co-Authors: Nicole Lovenduski, University of Colorado at Boulder  
 ES

**Gavin Fung..... 04:45 PM, Cos Cob**

Presentation Title: Children's Use of Pedagogical Cues to Guide Exploration  
 Research Mentor: Ellen Markman  
 Research Institution: Stanford University  
 Home Institution: UC Santa Cruz  
 Co-Authors: Lucas Butler and Ellen Markman, Stanford University School of Humanities & Sciences  
 SS

**Ashla Gaibi..... 05:30 PM, Roundhill**

Presentation Title: Role of Type-1 Collagen in the Remineralization of Diseased Osseous Tissue with Osteogenesis Imperfecta (OI)  
 Research Mentor: Rhima Coleman  
 Research Institution: Weill Cornell Medical College  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Hayat Taleb, Rhima Coleman and Adele Boskey, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional  
 AB



**Eduardo Galeana ..... 04:00 PM, Winthrop A**

Presentation Title: PKM $\gamma$  and the Synaptic Process that Underlies Odor Shock Conditioning in the Amygdala

Research Mentor: Peter Serrano

Research Institution: Hunter College

Home Institution: San Francisco State University

Co-Authors: Veronica Sebastian, Hunter College; Regina M. Sullivan, New York University; Peter Serrano, Hunter College

BB

**Molly Galloway ..... 05:00 PM, Cos Cob**

Presentation Title: Reading Between the Lines: Self Identifying Biracial Students in the Black-White Achievement Gap

Research Mentor: Angel Harris

Research Institution: Princeton University

Home Institution: Grambling State University

Co-Authors: Angel Harris, Princeton University

SS

**Guy Geyer..... 11:15 AM, New London**

Presentation Title: Fiber Taper Probe for Probing Photonic Crystal Microcavities

Research Mentor: Hong Tang

Research Institution: Yale University

Home Institution: Wesleyan University

Co-Authors: Hong Tang, Xufeng Zhang and Kingyan Fong, Yale University

PS

**Helya Ghaffari..... 04:30 PM, Winthrop B**

Presentation Title: Chemokine Gene Silencing in the Tumor Microenvironment

Research Mentor: Adrien Erlebacher

Research Institution: New York University Sackler Institute

Home Institution: University of Maryland, Baltimore County

Co-Authors: Patrice Nancy and Adrian Erlebacher, New York University

BB

**DeAsia Gilmer ..... 04:00 PM, Mead A**

Presentation Title: Regulation of Gene Expression in the Aging Rat Heart

Research Mentor: William Coetzee

Research Institution: New York University Sackler Institute

Home Institution: Ithaca College

Co-Authors: William Coetzee, Ann Marie Schmidt and Ravichandran Ramasamy, New York University

AB

**Allison Gomez ..... 11:15 AM, Mead B**

Presentation Title: Regulation of Pancreatic Cytokines by Fas Ligand in Autoimmune Diabetes Prone Mice

Research Mentor: Abdel Hamad

Research Institution: Johns Hopkins University

Home Institution:

Co-Authors: Abdel Hamad, Johns Hopkins University

BB

**Amanda Gomez ..... 03:15 PM, Belle Haven**

Presentation Title: Queer Figures in Latina Literature

Research Mentor: Raul Coronado

Research Institution: University of Chicago

Home Institution: University of Miami

Co-Authors: Raul Coronado and Jose Antonio Arellano, University of Chicago

HU

**Anaya Gonda.....04:30 PM, Milbrook**

Presentation Title: Mental Representations of Language: Investigating a Novel Priming Effect in the Perception of Goal-Directed Behaviors

Research Mentor: Yael Niv

Research Institution: Princeton University

Home Institution: Stanford University

Co-Authors: Matthew Botvinick, Debbie Yee and Natalia Cordova, Princeton University

SS

**Alejandro Gonzalez ..... 04:00 PM, Putnam**

Presentation Title: The Hyper-osmotic Effects on the Pharyngeal Pumping in *Caenorhabditis elegans*

Research Mentor: David Raizen

Research Institution: University of Pennsylvania

Home Institution: University of North Texas

Co-Authors: David Raizen, University of Pennsylvania

BB

**Nathaniel Gonzalez..... 11:45 AM, Belle Haven**

Presentation Title: Democracy and Religious Pluralism: Understanding Interfaith Collaboration

Research Mentor: Jeffrey Stout

Research Institution: Princeton University

Home Institution: University of Southern California

Co-Authors:

SS

**Victor Gonzalez .....04:00 PM, Byram Shore**

Presentation Title: Magical Realism in Chicano/a Literature

Research Mentor: Ramon Saldivar

Research Institution: Stanford University

Home Institution: UC Berkeley

Co-Authors: Ramon Saldivar, Stanford University School of Humanities & Sciences

HU

**Maribel Granja .....03:45 PM, Mead B**

Presentation Title: If Only I Could Quit: How Genes Impact Nicotine Dependence

Research Mentor: Jerry Stitzel

Research Institution: University of Colorado at Boulder

Home Institution: Rutgers University

Co-Authors: Jerry Stitzel, University of Colorado at Boulder

BB

**Dominique Grasty ..... 05:15 PM, Belle Haven**

Presentation Title: Analyzing Attempts to Bridge the Gender Gap Among Physician Scientists: Are New Programs at NIH and Schools of Medicine Making a Difference?

Research Mentor: Leon Rosenberg

Research Institution: Princeton University

Home Institution: Spelman College

Co-Authors: Leon E. Rosenberg, Princeton University

AB

**Zachary Graves ..... 04:30 PM, Belle Haven**

Presentation Title: Negative Emotions and their Effects on CVD Risk Factors

Research Mentor: Danielle Beatty

Research Institution: University of Maryland, Baltimore County

Home Institution: Morehouse College

Co-Authors: Danielle Beatty, Angela Mensah and Faiza Haq, University of Maryland, Baltimore County

SS

**Jeremy Griffin ..... 04:00 PM, Belle Haven**

Presentation Title: Free the Black Homosexual: Acknowledging Truth in Black America

Research Mentor: GerShun Avilez

Research Institution: Yale University

Home Institution: Tougaloo College

Co-Authors: GerShun Avilez, Yale University

HU

**Rebecca Grunberg .....12:15 PM, Byram Shore**

Presentation Title: Unexplored Causes of Residential Segregation: Biological Conceptions of Race and Conformity to Norms

Research Mentor: Hazel Markus

Research Institution: Stanford University

Home Institution: Tufts University

Co-Authors: Rebecca Hetey and Jennifer Eberhardt, Stanford University School of Humanities & Sciences

SS

**Mariya Grygorenko ..... 05:30 PM, Mead C**

Presentation Title: Life after Lung Transplants: Predicting the Onset of Bronchiolitis obliterans Syndrome using Biomarkers

Research Mentor: Reda Girgis

Research Institution: Johns Hopkins University

Home Institution: University of Texas at Austin

Co-Authors: Reda Girgis and Mohamed Gashouta, Johns Hopkins University

AB

**Alexsandra Guerra .....03:15 PM, Stonington**

Presentation Title: Evaluation of Applications and of Environmental Health Effects of Biomass Derived Fuels

Research Mentor: Lupita Montoya

Research Institution: University of Colorado at Boulder

Home Institution: Columbia University

Co-Authors: Lupita Montoya, Odessa Gomez and Josh Kearns, University of Colorado at Boulder

EN

**Rachana Haliyur ..... 04:45 PM, Laddins Rock**

Presentation Title: Investigating the Potential Link between IDH1 and HIF-1 alpha in Glioma

Research Mentor: David Zagzag

Research Institution: New York University Sackler Institute

Home Institution: University of Maryland, Baltimore County

Co-Authors: David Zagzag, New York University

AB

**Jane Hand..... 04:45 PM, Mead A**  
 Presentation Title: Nutrition and Germline Proliferation  
 in *C. elegans*  
 Research Mentor: Jane Hubbard  
 Research Institution: New York University Sackler  
 Institute  
 Home Institution: Rutgers University  
 Co-Authors: Jane Hubbard and Dorota Korota, New  
 York University  
 BB

**Matthew Harris.....02:45 PM, Milbrook**  
 Presentation Title: The Behavior Criterion: A Refutation  
 of the Chinese Room Argument  
 Research Mentor: Kwame Appiah  
 Research Institution: Princeton University  
 Home Institution: SUNY College at Geneseo  
 Co-Authors: Kwame Anthony Appiah, Princeton  
 University  
 HU

**Heather Hawkes .....11:30 AM, Sheffield**  
 Presentation Title: The Piezoelectric Properties of Zinc  
 Oxide Thin Films  
 Research Mentor: Charles Ahn  
 Research Institution: Yale University  
 Home Institution: Harvard University  
 Co-Authors: Matthew Marshall, Fred Walker and  
 Charles Ahn, Yale University  
 EN

**Brajaan Hayes..... 11:45 AM, Stonington**  
 Presentation Title: Ribeiroia vs Snails: Which Snails can  
 be Infected by Ribeiroia ondatrae?  
 Research Mentor: Pieter Johnson  
 Research Institution: University of Colorado at Boulder  
 Home Institution: Eastern Kentucky University  
 Co-Authors: Bryan LaFonte, Jason Hoverman and  
 Pieter Johnson, University of Colorado at Boulder  
 ES

**Alesha Henderson.....11:45 AM, Cos Cob**  
 Presentation Title: Factors Affecting Racial/Ethnic  
 Health Disparities: A Focus on Breast Cancer  
 Research Mentor: Ivor Livingston  
 Research Institution: Howard University  
 Home Institution: Spelman College  
 Co-Authors: Ivor Livingston, Howard University  
 SS

**Mayte Hernandez..... 03:45 PM, Roundhill**  
 Presentation Title: Characterization of Targeted  
 Hedgehog Pathway Alleles in a Mouse Model of  
 Pancreatic Ductal Adenocarcinoma  
 Research Mentor: Dafydd Thomas  
 Research Institution: Columbia University  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Dafydd Thomas and Kenneth Olive,  
 Columbia University  
 BB

**Kanesha Hines.....05:00 PM, Mead B**  
 Presentation Title: The Effect of Electrical Stimulation  
 on Neonatal Mice Myocytes Scaffolds  
 Research Mentor: Kenneth Margulies  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Miami  
 Co-Authors: Rachel Truitt and Kenneth Margulies,  
 University of Pennsylvania  
 AB

**Isabel Hinestrosa..... 05:15 PM, Winthrop A**  
 Presentation Title: Effects of Mammalian Target of  
 Rapamycin Inhibition on a Breast Cancer Model  
 Research Mentor: Robert Schneider  
 Research Institution: New York University Sackler  
 Institute  
 Home Institution: Boston University  
 Co-Authors: Robert Schneider and Viviana Volta, New  
 York University  
 AB

**Mary Hofto Grae.....05:15 PM, Byram Shore**  
 Presentation Title: The Subversive Readership of the  
 Early Gothic Novel  
 Research Mentor: Edward Barnaby  
 Research Institution: Yale University  
 Home Institution: Mount Holyoke College  
 Co-Authors: Edward Barnaby, Yale University  
 HU

**Veronica Hogg-Cornejo .....04:00 PM, New London**  
 Presentation Title: Collagen Quantification of the Fetal  
 Membrane  
 Research Mentor: Virginia Ferguson  
 Research Institution: University of Colorado at Boulder  
 Home Institution: University of Colorado at Boulder  
 Co-Authors: Virginia Ferguson and Brandi Briggs,  
 University of Colorado at Boulder  
 EN

**Joshua Horton ..... 12:15 PM, Winthrop A**

Presentation Title: Mutational Analysis of HIV  
Coreceptor CCR5  
Research Mentor: Nathaniel Landau  
Research Institution: New York University Sackler  
Institute  
Home Institution: Indiana University Purdue University  
Co-Authors: Nathaniel Landau, Victor Torres and  
Kayleigh Taylor, New York University  
AB

**Aruba Hussain .....04:30 PM, Byram Shore**

Presentation Title: Attitudes towards Risk and  
Ambiguity in Young and Older Adults  
Research Mentor: Ifat Levy  
Research Institution: Yale University  
Home Institution: University of Texas at San Antonio  
Co-Authors: Ifat Levy, Yale University  
SS

**Emily Jackson..... 04:00 PM, Roundhill**

Presentation Title: Role and Regulation of Neuromedin  
U in Erythropoiesis  
Research Mentor: Susan Shetzline  
Research Institution: University of Pennsylvania  
Home Institution: Amherst College  
Co-Authors: Susan Shetzline, University of  
Pennsylvania  
AB

**Melissa Jarmel ..... 04:30 PM, Mead A**

Presentation Title: p53 Status Alters the Effects of KLF5  
on Cell Proliferation  
Research Mentor: Jonathan Katz  
Research Institution: University of Pennsylvania  
Home Institution: University of Texas at Austin  
Co-Authors: Yizeng Yang and Jonathan Katz, University  
of Pennsylvania  
AB

**Khyrie Jones .....12:30 PM, Mead B**

Presentation Title: Cellular Death as a Protective  
Defense in *Drosophila melanogaster*  
Research Mentor: Tin Tin Su  
Research Institution: University of Colorado at Boulder  
Home Institution: University of Rochester  
Co-Authors: Tin Tin Su, University of Colorado at  
Boulder  
BB

**Tonee Jones..... 04:30 PM, Putnam**

Presentation Title: Poloxamer 188 Effects on Fetal  
Bovine Serum after Denaturation and Aggregation  
Research Mentor: Raphael Lee  
Research Institution: University of Chicago  
Home Institution: Morehouse College  
Co-Authors: Raphael Lee and Robert Kulwin,  
University of Chicago  
BB

**Vincent Jones IV .....05:00 PM, Byram Shore**

Presentation Title: Baby Boomers and Facebook: How  
Baby Boomers Negotiate their Virtual Identities  
and Engage New Media Compared to Generations  
X and Y  
Research Mentor: Angel Harris  
Research Institution: Princeton University  
Home Institution: Middlebury College  
Co-Authors: Angel Harris, Princeton University  
SS

**Karen Kellen..... 11:45 AM, Mead C**

Presentation Title: Does Urocortin 1 Priming in the  
Basolateral Amygdala alter SERT Gene Expression  
in the Serotonergic Dorsal Raphe Nucleus?  
Research Mentor: Nina Donner  
Research Institution: University of Colorado at Boulder  
Home Institution: Metropolitan State College of Denver  
Co-Authors: Nina Donner and Christopher Lowry,  
University of Colorado at Boulder  
BB

**Keven Laboy .....11:15 AM, Winthrop A**

Presentation Title: The Efficiency of the Lentivirus and  
AAV as Viral Vectors for the Chr2 Gene  
Research Mentor: Barry Connors  
Research Institution: Brown University  
Home Institution: UPR-Rio Piedras  
Co-Authors: Barry Connors and Tanya Stevens, Brown  
University  
AB

**Rigoberto Lara .....12:30 PM, Byram Shore**

Presentation Title: Race and Food Justice: F.R.E.S.H  
Options in The City  
Research Mentor: Samuel Roberts  
Research Institution: Columbia University  
Home Institution: Macalester College  
Co-Authors: Samuel K. Roberts, Columbia University  
HU

**Qudus Lawal ..... 03:45 PM, Mead A**

Presentation Title: Probing Molecular Interactions between LIM Proteins TRIP6 and LPP, and shelterin at Human Telomeres  
 Research Mentor: Diego Loayza  
 Research Institution: Hunter College  
 Home Institution: Stanford University  
 Co-Authors: Qudus Lawal, Stanford University School of Engineering; Sampada Kalan and Diego Loayza, Hunter College

BB

**Mindy Lee..... 11:30 AM,, Stonington**

Presentation Title: Alternative Synthesis of HIV Protease Inhibitor Darunavir  
 Research Mentor: Joseph Fortunak  
 Research Institution: Howard University  
 Home Institution: Williams College  
 Co-Authors: Joseph Fortunak, Howard University

PS

**Angel Leiva..... 12:15 PM, Laddins Rock**

Presentation Title: Regulation of Monoubiquitinated PCNA is Important for Replication Stress Response  
 Research Mentor: Michele Pagano  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Miami  
 Co-Authors: Mario Rossi and Michele Pagano, New York University

BB

**Ricardo Linares Saldana.... 11:45 AM, Laddins Rock**

Presentation Title: The Role of BLOC-1 in Melanosome Biogenesis and Protein Trafficking  
 Research Mentor: Michael Marks  
 Research Institution: University of Pennsylvania  
 Home Institution: Johns Hopkins University  
 Co-Authors: Michael Marks, Megan Dennis and Subba Setty, University of Pennsylvania

BB

**Patrick Llull..... 12:30 PM, New London**

Presentation Title: Stochastic Drift Correction for a Super-Resolution Microscope  
 Research Mentor: Rafael Piestun  
 Research Institution: University of Colorado at Boulder  
 Home Institution: University of Arizona  
 Co-Authors: Rafael Piestun and Ginni Grover, University of Colorado at Boulder

EN

**Ninoshka Lopez-Mojica ..... 05:30 PM, Winthrop B**

Presentation Title: Downregulation of Helicobacter pylori Oncoprotein CagA by Exposure to Gastric Epithelial Cells  
 Research Mentor: Keith Wilson  
 Research Institution: Vanderbilt University  
 Home Institution: UPR-Humacao  
 Co-Authors: Keith T. Wilson, Thibaut De Sablet and Alain P. Gobert, Vanderbilt University

BB

**Glenn Love ..... 04:30 PM, Cos Cob**

Presentation Title: Unpacking the Great Equalizer: A Reassessment of Social Mobility and the Impacts of Race on Poverty  
 Research Mentor: Angel Harris  
 Research Institution: Princeton University  
 Home Institution: Coppin State College  
 Co-Authors: Angel L. Harris, Princeton University

SS

**Stefanie Luecke..... 12:00 PM, Winthrop B**

Presentation Title: Role of ICP0 in Herpes Simplex Virus Reactivation from Latency: Antagonism of the Neuronal DNA Damage Response  
 Research Mentor: Angus Wilson  
 Research Institution: New York University Sackler Institute  
 Home Institution: Jacobs University Bremen  
 Co-Authors: Ju Kim and Angus Wilson, New York University

BB

**Randolph Lyde ..... 12:00 PM, Mead C**

Presentation Title: Neuro Epigenetic Effects of High Fat Diet  
 Research Mentor: Teresa Reyes  
 Research Institution: University of Pennsylvania  
 Home Institution: Temple University  
 Co-Authors: Teresa Reyes, University of Pennsylvania

AB

**Ilene Magpiong ..... 12:15 PM,, Roundhill**

Presentation Title: Investigation of the Potential Effects of Environmental Factors on the Pyramidal Neuron Principal Axon Shaft of the Macaque Monkey Cerebral Cortex  
 Research Mentor: Alvaro Duque  
 Research Institution: Yale University  
 Home Institution: Mount Holyoke College  
 Co-Authors: Pasko Rakic and Alvaro Duque, Yale University

BB



**Shivana Maharaj .....12:00 PM, Mead B**

Presentation Title: Does the Inhibition of the Kinase Domain of Receptor Interacting Protein 1 (RIP1) by Necrostatin 1 (Nec1) Effect the Type of Hepatocyte Death During Sepsis?

Research Mentor: Alfred Ayala

Research Institution: Brown University

Home Institution: Chaminade University of Honolulu

Co-Authors: Sam McNeal and Alfred Ayala, Brown University

BB

**Andrew Manns.....03:30 PM, Byram Shore**

Presentation Title: Bridging the Gap between Human Depravity and Dignity: The Imagination in Gianfrancesco Pico's De Imaginatione

Research Mentor: Anthony Grafton

Research Institution: Princeton University

Home Institution: University of Chicago

Co-Authors: Anthony Grafton, Princeton University

HU

**Patricio Martínez Llompart ..... 03:45 PM, Cos Cob**

Presentation Title: Insanity, the Deviant and Mass Incarceration: The Puerto Rican Case

Research Mentor: Bernard Harcourt

Research Institution: University of Chicago

Home Institution: Cornell University

Co-Authors: Bernard Harcourt and Chris Berk, University of Chicago

PE

**Hélène Mascitti ..... 11:45 AM, Roundhill**

Presentation Title: Characterization of Monoclonal Antibodies Targeting Neurofibrillary Tangles Implied in Alzheimer's Disease by Using Stereotaxic Method

Research Mentor: Einar Sigurdsson

Research Institution: New York University Sackler Institute

Home Institution: New York University

Co-Authors: Einar M Sigurdsson and Allal Boutajangout, New York University

AB

**Jon Massie ..... 03:15 PM, Mead A**

Presentation Title: Translational Regulation of the Huntington's Disease Protein through a 5' Upstream Open Reading Frame

Research Mentor: Naoko Tanese

Research Institution: New York University Sackler Institute

Home Institution: Michigan State University

Co-Authors: Naoko Tanese, New York University

AB

**Russell Maxwell..... 04:00 PM, Mead C**

Presentation Title: The Influence of DNA Damage on the Dynamics of Atypical Ubiquitin/SUMO Chains

Research Mentor: Tony Huang

Research Institution: New York University Sackler Institute

Home Institution: University of North Carolina Chapel Hill

Co-Authors: Tony Huang and Miklos Bekes, New York University

BB

**Takashi Mbako.....02:45 PM, Mead B**

Presentation Title: Cryptic Unstable Transcripts and their Effect on the URA2 Gene in *Saccharomyces cerevisiae*

Research Mentor: Robin Dowell

Research Institution: University of Colorado at Boulder

Home Institution: Bowie State University

Co-Authors: Jessica Vera and Robin Dowell, University of Colorado at Boulder

BB

**Matthew McCauley..... 03:30 PM, Mead A**

Presentation Title: Expression of MicroRNA-675 in Cardiac Hypertrophy

Research Mentor: Jeffrey Holmes

Research Institution: University of Virginia School of Education

Home Institution: Johns Hopkins University

Co-Authors: Jeffrey Holmes and Elizabeth Ames, University of Virginia - BioMedical Sciences

AB

**Raissa McIntosh ..... 11:30 AM, Mead A**

Presentation Title: Determine Whether Somatic Hyper-Mutation Plays a Role in the Mechanism of B Cell Tolerance

Research Mentor: Thereza Imanishi-Kari

Research Institution: Tufts University BioMedical Sciences

Home Institution: Florida Atlantic University

Co-Authors: Thereza Imanishi-Kari and Amma Larbi, Tufts University School of Graduate Biomedical Sciences

BB

**Vladimir Medenica ..... 12:00 AM, Belle Haven**

Presentation Title: As 'They' Become 'Us,' A Generational Perspective on Mexican-American Political Behavior

Research Mentor: Robert Shapiro

Research Institution: Columbia University

Home Institution: University of Southern California

Co-Authors: Robert Y. Shapiro and Narayani Lasala Blanco, Columbia University

SS

**Caroline Mejias-De Jesus ..... 03:45 PM, Putnam**

Presentation Title: Investigating the Molecular Basis for Ras-Induced Senescence

Research Mentor: Gregory David

Research Institution: New York University Sackler Institute

Home Institution: UPR-Mayaguez

Co-Authors: Gregory David and Teresa DiMauro, New York University

BB

**Omayra Méndez ..... 11:45 AM, Winthrop A**

Presentation Title: Vaccination of HIV-1 Infected Subjects on HAART Boosts Cellular Immune Responses

Research Mentor: Jean Boyer

Research Institution: University of Pennsylvania

Home Institution: Universidad Metropolitana

Co-Authors: Jean Boyer, University of Pennsylvania

AB

**Kristy Merloni ..... 03:00 PM, Mead A**

Presentation Title: Identification of Novel Genetic Markers for Manipulation of Taste Circuitry

Research Mentor: Charles Zuker

Research Institution: Columbia University

Home Institution: Providence College

Co-Authors: David Yarmolinsky and Charles Zuker, Columbia University

BB

**Dominique Moore ..... 04:45 PM, Winthrop A**

Presentation Title: Developing a Diagnostic Tool to target Metastatic Cancer using the MARCKS Peptide and Membrane Curvature

Research Mentor: Leslie Morton

Research Institution: University of Colorado at Boulder

Home Institution: Claflin University

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

BB

**Rebba Moore ..... 03:15 PM, Cos Cob**

Presentation Title: Why Don't Americans Care?: Public Support for Social Welfare in a Diverse Nation

Research Mentor: Robert Shapiro

Research Institution: Columbia University

Home Institution: Rice University

Co-Authors: Robert Y. Shapiro and Narayani Lasala-Blanco, Columbia University

SS

**Richard Moses ..... 04:30 PM, Mead C**

Presentation Title: Functional Analysis of the Nuclear Localization of Bone Marrow Kinase in the X Chromosome

Research Mentor: Dennis Jones

Research Institution: Yale University

Home Institution: Rutgers University

Co-Authors: Dennis Jones and Wang Min, Yale University

BB

**Christopher Mosley ..... 03:00 PM, Putnam**

Presentation Title: Role of YAF2 in Polycomb Recruitment

Research Mentor: Michael Atchison

Research Institution: University of Pennsylvania

Home Institution: Morehouse College

Co-Authors: Arindam Basu and Michael Atchison, University of Pennsylvania

BB

**Oscar Munoz ..... 11:15 AM, Laddins Rock**

Presentation Title: The Effect of Dermal Smoothened Activation on Hair Follicle Cycle

Research Mentor: Mayumi Ito

Research Institution: New York University Sackler Institute

Home Institution: University of New Mexico

Co-Authors: Wei-chin Chou, Makoto Takeo and Mayumi Ito, New York University

BB

**Michael Murphy.....12:30 PM, Milbrook**

Presentation Title: An Examination of Global Environmental Change and its Effect on Globalization and Global Capitalism

Research Mentor: Miguel Centeno

Research Institution: Princeton University

Home Institution: University of San Diego

Co-Authors: Miguel Centeno, Princeton University SS

**Rashida Mustafa ..... 12:30 PM, Mead C**

Presentation Title: Neuropathic Pain Induced by Nerve Crush Injury: The Role of Calcium Channels

Research Mentor: Vesna Jevtovic-Todorovic

Research Institution: University of Virginia School of Medicine

Home Institution: Spelman College

Co-Authors: Vesna Jevtovic-Todorovic, University of Virginia - BioMedical Sciences

AB

**Delyan Mutavchiev .....12:15 PM, Mead B**

Presentation Title: Evaluation of Modified Bovine Apolipoproteins as Potential Trypanolytic Agents

Research Mentor: Jayne Raper

Research Institution: New York University Sackler Institute

Home Institution: Jacobs University Bremen

Co-Authors: Daniella Kovacsics and Jayne Raper, New York University

BB

**Robert Myers..... 05:00 PM, Mead A**

Presentation Title: ADAM/Notch Signaling Pathway in Angiogenesis

Research Mentor: Carl Blobel

Research Institution: Weill Cornell Medical College

Home Institution: College of New Jersey

Co-Authors: Carl Blobel, Weill Cornell Graduate School of Medical Sciences; Krzysztof Glomski, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional

BB

**Kalyani Nambiar ..... 04:30 PM, Laddins Rock**

Presentation Title: Exposure Mediated

Neurodegeneration: Mechanisms of Disease

Research Mentor: Suzanne de la Monte

Research Institution: Brown University

Home Institution: University of Maryland, Baltimore County

Co-Authors: Suzanne De La Monte, Ming Tong and Anika Toorie, Brown University

AB

**Cassandra Nelson ..... 05:00 PM, Winthrop B**

Presentation Title: Does the Antioxidant Gene, nrf2, Protect Cancer Cells from Immune Destruction?

Research Mentor: Suzanne Ostrand-Rosenberg

Research Institution: University of Maryland, Baltimore County

Home Institution: Virginia Polytechnic Institute and State University

Co-Authors: Suzanne Ostrand-Rosenberg and Daniel Beury, University of Maryland, Baltimore County

AB

**Hien Nguyen .....03:15 PM, Milbrook**

Presentation Title: Role of Hippocampal Dendritic Spines in Memory Consolidation of Rats

Research Mentor: Victoria Luine

Research Institution: Hunter College

Home Institution: Baylor University

Co-Authors: Victoria Luine and Jordan Encarnacion, Hunter College

SS

**Naderge Nwana.....04:45 PM, Stonington**

Presentation Title: Role of Melanocortin 4 Receptor (MC4R) in Obesity

Research Mentor: Rexford Ahima

Research Institution: University of Pennsylvania

Home Institution: University of Maryland, Eastern Shore

Co-Authors: Ravindra Dhir, Xiaoyan Yin and Rexford Ahima, University of Pennsylvania

BB

**Angelina Ocampo ..... 05:30 PM, Putnam**

Presentation Title: Measuring Bulk Diffusion on Cell Membrane using Fluorescence Recovery After Photobleaching (FRAP)

Research Mentor: Adam Hammond

Research Institution: University of Chicago

Home Institution: University of Illinois at Chicago

Co-Authors: Adam Hammond and Aisha Burton, University of Chicago

BB

**Pola Olczak..... 11:15 AM, Mead C**

Presentation Title: The Effects of TLR9 Stimulation on Amyloid and Tau Pathology in a Mouse Model of Alzheimer's Disease

Research Mentor: Thomas Wisniewski

Research Institution: New York University Sackler Institute

Home Institution: Morgan State University

Co-Authors: Henrieta Scholtzova, Jason Pan and Thomas Wisniewski, New York University

AB

**Ryan Paranal ..... 04:00 PM, Laddins Rock**

Presentation Title: Methamphetamine- and Dopamine-induced Apoptosis in a Neuroblastoma Cell Line

Research Mentor: Shirzad Jenab

Research Institution: Hunter College

Home Institution: Providence College

Co-Authors: Shirzad Jenab and Gisselle Ramirez, Hunter College

BB

**Joshua Peck..... 04:45 PM, Roundhill**

Presentation Title: Cardioplegia Induces Phosphorylation of Phosphoglycerate Mutase and Tropomyosin in Human Heart Tissue

Research Mentor: Richard Clements

Research Institution: Brown University

Home Institution: Swarthmore College

Co-Authors: Richard Clements and Brenda Cordeiro, Brown University

AB

**Elizabeth Perez..... 04:45 PM, Winthrop B**

Presentation Title: Effect of Presenilin-1 Mutations on Notch1 Processing

Research Mentor: Deming Chau

Research Institution: Weill Cornell Medical College

Home Institution: Mount Holyoke College

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

BB

**Nicole Perez..... 04:00 PM, Cos Cob**

Presentation Title: Empowering Students: The Relationship between Multicultural Curricula and Educational Achievement

Research Mentor: Angel Harris

Research Institution: Princeton University

Home Institution: UC Santa Barbara

Co-Authors: Angel L. Harris, Princeton University

SS

**Sebastian Perez ..... 03:00 PM, Winthrop B**

Presentation Title: Mechanisms of Sirt1-Dependent Regulation of Bone Mass

Research Mentor: Stavroula Kousteni

Research Institution: Columbia University

Home Institution: UPR-Rio Piedras

Co-Authors: Aruna Kode and Stavroula Kousteni, Columbia University

BB

**Edjohnier Phillips..... 11:30 AM, Winthrop B**

Presentation Title: Could CR3 be the Receptor for Beta-Glucan?

Research Mentor: Jonathan Reichner

Research Institution: Brown University

Home Institution: Tougaloo College

Co-Authors: Jonathan Reichner and Estefany J. Flores-Cortez, Brown University

AB

**Allister Plater .....03:45 PM, Byram Shore**

Presentation Title: Teen Mothers Coping with Stress: Development of a New Measure

Research Mentor: Ann Easterbrooks

Research Institution: Tufts University

Home Institution: University of North Carolina Chapel Hill

Co-Authors: Maryna Vashchenko and Ann Easterbrooks, Tufts University

SS

**Pascal Portois ..... 03:00 PM, Mead C**

Presentation Title: Interactomics of Bacterial RNA Polymerase Enzymes  
Research Mentor: Evgeny Nudler  
Research Institution: New York University Sackler Institute  
Home Institution: University of Paris Diderot  
Co-Authors: Evgeny Nudler, Vladimir Svelto and Shipper Katelyn, New York University  
BB

**Chloé Powell ..... 03:00 PM, Roundhill**

Presentation Title: Preparation of Non-Decalcified Bone Histology Samples for Laser Microdissection of the Osteon Followed by DNA Analysis  
Research Mentor: Zoran Budimlija  
Research Institution: New York University Sackler Institute  
Home Institution: University of Michigan-Ann Arbor  
Co-Authors: Zoran Budimlija, Office of Chief Medical Examiner  
AB

**Camila Prieto ..... 03:30 PM, Roundhill**

Presentation Title: Function of C16orf57 in Clericuzio-type Poikiloderma with Neutropenia  
Research Mentor: Kathleen Sullivan  
Research Institution: University of Pennsylvania  
Home Institution: Johns Hopkins University  
Co-Authors: Kathleen Sullivan and Kelly Maurer, University of Pennsylvania  
BB

**Isabella Proia..... 03:00 PM, Belle Haven**

Presentation Title: The Subtleness of the Sea: American Encounters in the Caribbean and the Illustrated Diary of William H. Meyers, 1838-1839  
Research Mentor: Christopher Brown  
Research Institution: Columbia University  
Home Institution: Georgetown University  
Co-Authors: Christopher Brown and Elizabeth Hinton, Columbia University  
HU

**Lymaris Quiñones-Dávila ..... 03:15 PM, Mead C**

Presentation Title: Gene Expression in the Mesolimbic Dopamine Pathway  
Research Mentor: Marissa Ehringer  
Research Institution: University of Colorado at Boulder  
Home Institution: UPR-Mayaguez  
Co-Authors: Marissa Ehringer and Todd Darlington, University of Colorado at Boulder  
BB

**Nicholas Ravvin ..... 12:00 PM, Stonington**

Presentation Title: The Use of Porphyrins as Photodynamic Therapy Agents  
Research Mentor: Charles Drain  
Research Institution: Hunter College  
Home Institution: SUNY Binghamton  
Co-Authors: Charles Drain, Hunter College  
PS

**Brian Rekoske .....04:00 PM, Mead B**

Presentation Title: Inhibition of an RNA pyrophosphate hydrolase in Escherichia Coli  
Research Mentor: Brian Rekoske  
Research Institution: New York University Sackler Institute  
Home Institution: University of Wisconsin Madison  
Co-Authors: Joel Belasco, Dan Luciano and Jamie Richards, New York University  
BB

**Mary Remy .....05:00 PM, Milbrook**

Presentation Title: Domestic Violence on College Campuses and Community Involvement  
Research Mentor: Tricia Bent-Goodley  
Research Institution: Howard University  
Home Institution: Claflin University  
Co-Authors: Tricia Bent-Goodley, Howard University  
SS

**Marissa Reyes-Diaz.....03:00 PM, New London**

Presentation Title: Relationship between Mortality and Density in the Invasive Species Linaria dalmatica and the Biological Control Mecinus janthinus in Colorado  
Research Mentor: Timothy Seastedt  
Research Institution: University of Colorado at Boulder  
Home Institution: UPR-Humacao  
Co-Authors: Timothy Seastedt and David G. Knochel, University of Colorado at Boulder  
ES

**Donald Richardson..... 04:30 PM, Roundhill**

Presentation Title: Development of a Chemical Biology Data Base for Drug Discovery  
Research Mentor: Timothy Cardozo  
Research Institution: New York University Sackler Institute  
Home Institution: University of Maryland, Baltimore County  
Co-Authors: Timothy Cardozo and James Swetnam, New York University  
AB



**Jeremy Richey..... 12:00 PM, Winthrop A**  
 Presentation Title: Testing of Denture Base Materials  
 Incorporated with Silver Nano-particles to Prevent  
 Candida Colonization  
 Research Mentor: Elinor Pulcini  
 Research Institution: Montana State University  
 -Bozeman  
 Home Institution: Fort Belknap College  
 Co-Authors: Alessandra Agostinho, Montana State  
 University  
 AB

**Daniel Rios..... 11:45 AM, Milbrook**  
 Presentation Title: Violence and Globalization in 21st  
 Latin American Literature  
 Research Mentor: Hector Hoyos  
 Research Institution: Stanford University  
 Home Institution: University of Southern California  
 Co-Authors: Hector Hoyos, Stanford University School  
 of Humanities & Sciences  
 HU

**Michael Rist..... 11:45 AM, Mead A**  
 Presentation Title: Miniaturized TCR-alpha Locus  
 Control Region in Lentiviral Constructs Used in  
 T-cell Gene Therapy  
 Research Mentor: Ben Ortiz  
 Research Institution: Hunter College  
 Home Institution: Wheaton College  
 Co-Authors: Ben Ortiz, Hunter College  
 BB

**Juan Rivera Correa ..... 12:30 PM,, Winthrop A**  
 Presentation Title: The Expression of Sphingosine  
 1-Phosphate Receptors in Cystic Fibrosis Dendritic  
 Cells and Macrophages  
 Research Mentor: Stefan Worgall  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Stefan Worgall and Yaqin Xu, Weill  
 Cornell Medical College  
 AB

**Jocelyn Rodriguez..... 12:30 PM, Roundhill**  
 Presentation Title: Olivocerebellar Control of Reaching  
 Movements  
 Research Mentor: Jocelyn Rodriguez  
 Research Institution: New York University Sackler  
 Institute  
 Home Institution: Yale University  
 Co-Authors: Eric Lang, Jianqiang Xiao and Linjia Jia,  
 New York University  
 BB

**Miguel Rodriguez ..... 11:45 AM, New London**  
 Presentation Title: Mechanical Properties of Large  
 Graphene Balloons  
 Research Mentor: Scott Bunch  
 Research Institution: University of Colorado at Boulder  
 Home Institution: Columbia University  
 Co-Authors: Scott Bunch and Xinghui Liu, University  
 of Colorado at Boulder  
 EN

**Natalie Rodriguez ..... 04:45 PM, Milbrook**  
 Presentation Title: Gender Differences in Depression  
 Research Mentor: Robert DeRubeis  
 Research Institution: University of Pennsylvania  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Robert DeRubeis, University of  
 Pennsylvania  
 SS

**Tiffany Rolle..... 04:30 PM, Stonington**  
 Presentation Title: Development of a Portable GC-MS  
 Methodology for the Evaluation of the Level of  
 Food Spoilage  
 Research Mentor: William LaCourse  
 Research Institution: University of Maryland, Baltimore  
 County  
 Home Institution: University of Baltimore  
 Co-Authors: William LaCourse and Joshua A. Wilhide,  
 University of Maryland, Baltimore County  
 BB

**Jacqueline Romero ..... 02:45 PM, Winthrop B**  
 Presentation Title: Role of Gap Junctions in the Spread  
 of Cell Death in Ischemic Retinopathy  
 Research Mentor: Stewart Bloomfield  
 Research Institution: New York University Sackler  
 Institute  
 Home Institution: University of South Florida  
 Co-Authors: Jacqueline Romero, Abram Akopian and  
 Stewart Bloomfield, New York University  
 AB

**Glamildi Rondon ..... 02:45 PM, Cos Cob**  
 Presentation Title: An Examination of the Effects of  
 Poverty on School Readiness and Early Academic  
 Achievement  
 Research Mentor: Cynthia Garcia Coll  
 Research Institution: Brown University  
 Home Institution: Wesleyan University  
 Co-Authors: Cynthia Garcia Coll, Brown University  
 SS

**Karla Rosario .....03:30 PM, Stonington**

Presentation Title: Human Factors in Dream Chaser's Vehicle Design  
 Research Mentor: David Kalus  
 Research Institution: University of Colorado at Boulder  
 Home Institution: University of Colorado at Boulder  
 Co-Authors: David Klaus and Sarah E. Over, University of Colorado at Boulder  
 EN

**Victoria Rosborough ..... 12:30 PM, Sheffield**

Presentation Title: Oxide semiconductor heterostructures for photocatalysis  
 Research Mentor: Eric Altman  
 Research Institution: Yale University  
 Home Institution: Mary Baldwin College  
 Co-Authors: Eric Altman and Boris Lukanov, Yale University  
 EN

**Austin Roth ..... 05:30 PM, Belle Haven**

Presentation Title: Development of Fear Extinction Learning and Spontaneous Recovery in Humans: Implications for Treatment of Childhood Anxiety Disorders  
 Research Mentor: BJ Casey  
 Research Institution: Weill Cornell Medical College  
 Home Institution: Arizona State University  
 Co-Authors: Stephanie Duhoux and BJ Casey, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional  
 SS

**Francesca Rouzard..... 11:15 AM, Mead A**

Presentation Title: The Role of Toll-like Receptors in the Control of Coxiella burnetii Infection  
 Research Mentor: Francesca Rouzard  
 Research Institution: University of Pennsylvania  
 Home Institution: Temple University  
 Co-Authors: Sunny Shin, University of Pennsylvania  
 BB

**Rachel Rudlaff.....05:15 PM, Stonington**

Presentation Title: Oxidative Stress in the Endothelium: To Live or to Die  
 Research Mentor: Elizabeth Harrington  
 Research Institution: Brown University  
 Home Institution: Michigan State University  
 Co-Authors: Katie Grinnell, Huetran Duong and Elizabeth Harrington, Brown University  
 BB

**Dyan Ruiz Connelly.....03:45 PM, Milbrook**

Presentation Title: Centrality of Independence in Spinal Cord Injury Survivors: Implications for Their Own and Caregivers' Well-being  
 Research Mentor: Joan Monin  
 Research Institution: Yale University  
 Home Institution: Saint Joseph College  
 Co-Authors: Joan Monin, Yale University  
 SS

**Santiago Salazar ..... 05:15 PM, Winthrop B**

Presentation Title: Fluorescence Recovery After Photobleaching (FRAP) Analysis Shows RPA Phosphorylation Modulates Recruitment of the Tumor Suppressor PALB2  
 Research Mentor: James Borowiec  
 Research Institution: New York University Sackler Institute  
 Home Institution: UC Santa Cruz  
 Co-Authors: Michael Fitzgerald, Anar Murphy and James Borowiec, New York University  
 BB

**Torrey Salmon..... 03:30 PM, Winthrop A**

Presentation Title: Defining the Hox Network Specifying Motor Neuron Cell Fates in the Vertebrate Embryo  
 Research Mentor: Jeremy Dasen  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Scranton  
 Co-Authors: Jeremy Dasen and Olivia Hanley, New York University  
 BB

**Sirrika Samuels ..... 05:15 PM, Roundhill**

Presentation Title: Effects of Nape and Its Role in Diabetes  
 Research Mentor: Whitney Harris  
 Research Institution: Yale University  
 Home Institution: Rutgers University  
 Co-Authors: Whitney Harris-Brown, Yale University  
 AB

**Tanya Sanabria.....03:00 PM, Byram Shore**

Presentation Title: Women in the Workforce: The Stalled Gender Revolution  
 Research Mentor: Shelley Correll  
 Research Institution: Stanford University  
 Home Institution: California State Polytechnic University, Pomona  
 Co-Authors: Shelley Correll, Stanford University School of Humanities & Sciences  
 SS

**Jose Sanchez ..... 12:00 PM, Sheffield**

Presentation Title: Characterization of the GaN-MgO Transistor's Interface  
 Research Mentor: Fred Walker  
 Research Institution: Yale University  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Fred Walker and Divine Kumah, Yale University  
 PS

**Adriana Santiago-Miranda ..... 12:15 PM, Sheffield**

Presentation Title: The Effect of Poly (lactic-co-glycolic acid) Density in Carbon Nanofiber Composites for Myocardial Tissue Engineering Applications  
 Research Mentor: Thomas Webster  
 Research Institution: Brown University  
 Home Institution: UPR-Mayaguez  
 Co-Authors: David A. Stout and Thomas J. Webster, Brown University  
 AB

**Adriana Santos..... 04:45 PM, Belle Haven**

Presentation Title: The Interactions between Dopamine and Corticotropin Releasing Factor in the Amygdala and their Effects on Anxiety  
 Research Mentor: Heidi Day  
 Research Institution: University of Colorado at Boulder  
 Home Institution: University of South Florida  
 Co-Authors: Heidi Day, Serge Campeau and Cher Masini, University of Colorado at Boulder  
 SS

**Melissa Santos ..... 04:00 PM, Winthrop B**

Presentation Title: Involvement of Cannabinoid CB1 and Dopamine D2 Receptors in Cortical and Striatal Glutamatergic Signaling  
 Research Mentor: Teresa Milner  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Hunter College  
 Co-Authors: Teresa Milner and Megan Fitzgerald, Weill Cornell Graduate School of Medical Sciences  
 BB

**Patricia Mae Santos ..... 04:45 PM, Mead C**

Presentation Title: Caloric Restriction Improves Extinction Learning in Mice  
 Research Mentor: Charles Glatt  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Brown University  
 Co-Authors: Charles E. Glatt and Megan Riddle, Weill Cornell Graduate School of Medical Sciences  
 BB

**Emma Schatoff..... 03:45 PM, Mead C**

Presentation Title: Role of Dysregulated Epigenetic Modifiers in the Development of Leukemia  
 Research Mentor: Omar Abdel-Wahab  
 Research Institution: Weill Cornell Medical College  
 Home Institution: City College of New York  
 Co-Authors: Omar Abdel-Wahab and Ross Levine, Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional  
 BB

**Ashley Scott..... 02:45 PM, Putnam**

Presentation Title: Studies of Putative Phosphorylation Sites as Regulators of K2p Channel Function Using Site-directed Mutations  
 Research Mentor: Steven Feinmark  
 Research Institution: Columbia University  
 Home Institution: Claflin University  
 Co-Authors: Erin Harleton and Steven J. Feinmark, Columbia University  
 BB

**Alba Serrano .....02:45 PM, Stonington**

Presentation Title: Fluidic Injection for Thrust Vectoring and Flow Control  
 Research Mentor: Ryan Starkey  
 Research Institution: University of Colorado at Boulder  
 Home Institution: Stanford University  
 Co-Authors: Ryan Starkey, Shea Anderson and Jacob Cook, University of Colorado at Boulder  
 EN

**Hadiya Sewer..... 11:45 PM, Byram Shore**

Presentation Title: Who Defines "The People": Identity and Nation Building in the U.S. Virgin Islands  
 Research Mentor: Robert Shapiro  
 Research Institution: Columbia University  
 Home Institution: Spelman College  
 Co-Authors: Robert Shapiro, Columbia University  
 SS

**Akriti Sharma..... 03:00 PM, Winthrop A**

Presentation Title: Potential Influences of Environmental Factors on the Number of Interneurons in CD-1 Mouse Cerebral Cortex  
 Research Mentor: Alvaro Duque  
 Research Institution: Yale University  
 Home Institution: Rutgers University  
 Co-Authors: Pasko Rakic and Alvaro Duque, Yale University  
 BB

**Lisbeth Silva..... 11:30 AM, Mead C**

Presentation Title: Cellular Analysis of Upper Cortical Layer II and III Neurons in the Mouse Model of *Lis1* Overexpression  
 Research Mentor: Anamaria Sudarov  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Roger Williams University  
 Co-Authors: Anamaria Sudarov, Weill Cornell Medical College; M. Elizabeth Ross, Weill Cornell Graduate School of Medical Sciences

BB

**Angelica Simmons .....03:15 PM, Mead B**

Presentation Title: Validation and Discovery of RNA/DNA Differences  
 Research Mentor: Vivian Cheung  
 Research Institution: University of Pennsylvania  
 Home Institution: Louisiana State University-Baton Rouge  
 Co-Authors: Vivian Cheung, University of Pennsylvania; Alan Bruzel, Children's Hospital of Pennsylvania

BB

**Dawn Skeen..... 12:15 PM, New London**

Presentation Title: Fabrication of Artificial Microstructures Using Bulk Metallic Glass  
 Research Mentor: Jan Schroers  
 Research Institution: Yale University  
 Home Institution: Angelo State University  
 Co-Authors: Jan Schroers and Baran Sarac, Yale University

EN

**Adrienne Slaughter ..... 12:30 PM, Belle Haven**

Presentation Title: Integrating Black Students: Examining the Impact of Integrated Schools on the Educational Experience of Black Students  
 Research Mentor: Noliwe Rooks  
 Research Institution: Princeton University  
 Home Institution: Harvard University  
 Co-Authors: Noliwe Rooks and Angel Harris, Princeton University

SS

**Emilio Soto.....05:15 PM, Mead B**

Presentation Title: The Role of miRNA128 on the Development of the Cerebral Cortex  
 Research Mentor: Tao Sun  
 Research Institution: Weill Cornell Medical College  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Shan Bian and Tao Sun, Weill Cornell Graduate School of Medical Sciences

BB

**Kendra Souther ..... 11:30 AM, New London**

Presentation Title: Liquid Crystals: An Answer for Alternative Energy  
 Research Mentor: David Walba  
 Research Institution: University of Colorado at Boulder  
 Home Institution: College of Saint Scholastica  
 Co-Authors: David Walba and Michael Springer, University of Colorado at Boulder

PS

**Lauren Sullivan .....11:30 AM, Winthrop A**

Presentation Title: Enhanced Immunogenicity of Specific Epitopes of HIV-1 gp120 via Immune Complex Formation  
 Research Mentor: Catarina Hioe  
 Research Institution: New York University Sackler Institute  
 Home Institution: University of Georgia  
 Co-Authors: Catarina Hioe and Michael Tuen, New York University

AB

**Cherrelle Thomas..... 05:15 PM, Mead C**

Presentation Title: Investigating Domains in the Phospholipid Bilayer using Single-Molecule Mapping Techniques  
 Research Mentor: Daniel Schwartz  
 Research Institution: University of Colorado at Boulder  
 Home Institution: Howard University  
 Co-Authors: Mark Kastantin and Daniel Schwartz, University of Colorado at Boulder

AB

**Monica Thomas..... 12:15 PM, Mead A**

Presentation Title: The Effect of Kinase Inhibitors on JUNV Entry Process  
 Research Mentor: Susan Ross  
 Research Institution: University of Pennsylvania  
 Home Institution: University of Central Florida  
 Co-Authors: Susan Ross and Lavanya Madakasira, University of Pennsylvania

BB

**Jonathan Topaz .....12:15 PM, Milbrook**

Presentation Title: Persistent Authoritarianism in the Middle East  
 Research Mentor: Brendan O'Leary  
 Research Institution: University of Pennsylvania  
 Home Institution: Brown University  
 Co-Authors: Brendan O'Leary, University of Pennsylvania  
 PE

**Gentry Tran..... 11:45:00, Sheffield**

Presentation Title: Interaction Forces and Contamination on Smectic Films  
 Research Mentor: Cheol Park  
 Research Institution: University of Colorado at Boulder  
 Home Institution: Beloit College  
 Co-Authors: Cheol Park, Joe McLennan and Noel Clark, University of Colorado at Boulder  
 PS

**Luis Trujillo.....12:00 PM, Milbrook**

Presentation Title: Recolonization and the Police State  
 Research Mentor: Samuel Roberts  
 Research Institution: Columbia University  
 Home Institution: UC Santa Barbara  
 Co-Authors: Samuel Roberts and Elizabeth Kai Hinton, Columbia University  
 HU

**Austin Tucker .....03:00 PM, Stonington**

Presentation Title: Initial Findings on the Effects of Workload on Humans when Interacting with Robots  
 Research Mentor: Megan Strait  
 Research Institution: Tufts University  
 Home Institution: Morehouse College  
 Co-Authors: Megan Strait, Tufts University  
 PS

**Liran Valadarsky ..... 05:30 PM, Laddins Rock**

Presentation Title: Interplay Between Histone Modifications Regulates Binding of Tudor and MBT Domains to Histone Tails  
 Research Mentor: Danny Reinberg  
 Research Institution: New York University Sackler Institute  
 Home Institution: Tel Aviv University  
 Co-Authors: Philipp Voigt and Danny Reinberg, New York University  
 BB

**Elizabeth Vargas.....05:30 PM, Milbrook**

Presentation Title: The Role of Serotonin Receptor Subtype 5-HT<sub>6</sub> on Prepulse Inhibition of the Goldfish Startle Escape Behavior  
 Research Mentor: Thomas Preuss  
 Research Institution: Hunter College  
 Home Institution: Quinnipiac University  
 Co-Authors: Thomas Preuss, Heike Neumeister and Violeta Medan, Hunter College  
 SS

**Sana Venjara..... 11:30 AM,Byram Shore**

Presentation Title: Style Space and Consciousness: Negotiating Clothing and Identity in Contemporary Cairo  
 Research Mentor: Gwendolyn Shaw  
 Research Institution: University of Pennsylvania  
 Home Institution: Bryn Mawr College  
 Co-Authors: Gwendolyn Dubois Shaw, University of Pennsylvania; Juan Arbona and Gary W. McDonogh, Bryn Mawr College  
 HU

**Japjit Verraich ..... 03:15 PM, Roundhill**

Presentation Title: Genomewide Gene-Function Discovery in *Streptococcus pneumoniae* to Better Understand Role in Antibiotic Resistance  
 Research Mentor: Andrew Camilli  
 Research Institution: Tufts University BioMedical Sciences  
 Home Institution: University of San Francisco  
 Co-Authors: Tim van Opijnen and Andrew Camilli, Tufts University  
 BB

**Janice Vicenty..... 12:00 PM, Roundhill**

Presentation Title: Apolipoprotein E: Development and Regeneration of Nerve Cells from the Central Nervous System  
 Research Mentor: Tayhas Palmore  
 Research Institution: Brown University  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Kwang-Min Kim and Tayhas Palmore, Brown University  
 AB



**Luke Wandrey .....04:45 PM, Byram Shore**

Presentation Title: Peer Relations in Adolescents:  
Physiological and emotional Brain Responses  
during Social Evaluation  
Research Mentor: Leah Somerville  
Research Institution: Weill Cornell Graduate School  
Home Institution: Arizona State University  
Co-Authors: Leah Somerville, Weill Cornell Medical  
College; BJ Casey, Weill Cornell Graduate School of  
Medical Sciences

SS

**Hannah Weber ..... 04:30 PM, Winthrop A**

Presentation Title: The Role of MMP-2-Induced  
TH2 Cells in Melanoma Tumor Invasion and  
Angiogenesis  
Research Mentor: Nina Bhardwaj  
Research Institution: New York University Sackler  
Institute  
Home Institution: New College of Florida  
Co-Authors: Nina Bhardwaj, Anne Gallois and  
Emmanuelle Godefroy, New York University

AB

**Xzania White..... 12:15 PM, Cos Cob**

Presentation Title: Linking Pathways to African  
American Success (PAAS) to Youth Self-Regulation  
in Order to Predict HIV Risk Vulnerability  
Research Mentor: Velma Murry  
Research Institution: Vanderbilt University  
Home Institution: Howard University  
Co-Authors: Velma McBride Murry, Sonya Myers and  
LaTrina Slater, Vanderbilt University

SS

**Danielle Wiggins..... 03:30 PM, Cos Cob**

Presentation Title: The Right's Black Darlings:  
Perceptions of Black Republicans in the Reagan  
Administration

Research Mentor: Kevin Kruse  
Research Institution: Princeton University  
Home Institution: Yale University  
Co-Authors: Kevin Kruse, Princeton University

HU

**Alexia Williams..... 12:00 PM, Byram Shore**

Presentation Title: Articulating Blackness and  
Imagining a Nation: Afro-Peruvian Poetry as  
Peaceful Protest  
Research Mentor: Daphne Brooks  
Research Institution: Princeton University  
Home Institution: Spelman College  
Co-Authors: Daphne Brooks, Princeton University

HU

**Jasmine Wise ..... 12:15 PM, Belle Haven**

Presentation Title: How Do Housing Interventions  
Affect Parenting in Homeless Families?  
Research Mentor: Beth Shinn  
Research Institution: Vanderbilt University  
Home Institution: Xavier University of Louisiana  
Co-Authors: Beth Shinn and Lindsay Mayberry,  
Vanderbilt University

SS

**Valencia Wise ..... 12:15 PM, Stonington**

Presentation Title: Predicting Disease Genes using  
Protein Interaction Networks  
Research Mentor: Debra Goldberg  
Research Institution: University of Colorado at Boulder  
Home Institution: Dillard University  
Co-Authors: Debra Goldberg and Todd Gibson,  
University of Colorado at Boulder

PS

**Diane Wong..... 11:15 AM, Belle Haven**

Presentation Title: What Explains Asian American  
Political Participation?: The Effects of Ethnic  
Enclaves and Co-ethnic Candidates on Turnout  
Research Mentor: Robert Shapiro  
Research Institution: Columbia University  
Home Institution: SUNY Binghamton  
Co-Authors: Robert Shapiro, Columbia University

SS

**Pinguang Yang ..... 04:45 PM, Putnam**

Presentation Title: Role of Filopodia in Intercalating  
Cells during Drosophila Germ-band Extension  
Research Mentor: Jennifer Zallen  
Research Institution: Weill Cornell Medical College  
Home Institution: Clarkson University  
Co-Authors: Sergio Simoes and Jennifer A. Zallen,  
Weill Cornell/Rockefeller/Sloan-Kettering Tri-  
Institutional

BB

**Jojo Yeboa..... 05:00 PM, Stonington**

Presentation Title: Agonist-Induced Binding of  
the Regulatory Scaffold Protein Spinophilin to  
Phospholipase-C in Platelets  
Research Mentor: Lawrence Brass  
Research Institution: University of Pennsylvania  
Home Institution: University of Maryland, Baltimore  
County  
Co-Authors: Lawrence Brass and Peisong Ma,  
University of Pennsylvania

BB

**Hye Joo Yoon.....03:30 PM, Mead B**

Presentation Title: Dissecting Genetic Interaction  
 Networks between Protein Phosphorylation and  
 Ubiquitination Systems in *C. elegans*  
 Research Mentor: Zhuo Du  
 Research Institution: Weill Cornell Medical College  
 Home Institution: College of William & Mary  
 Co-Authors: Zhuo Du, Weill Cornell/Rockefeller/Sloan-  
 Kettering Tri-Institutional  
 BB

**Albert Zhou.....03:00 PM, Mead B**

Presentation Title: TBLR1 Regulation of Androgen  
 Receptor Target Genes in Prostate Cancer  
 Research Mentor: Peng Lee  
 Research Institution: New York University Sackler  
 Institute  
 Home Institution: University of Maryland, Baltimore  
 County  
 Co-Authors: Garrett Daniels and Peng Lee, New York  
 University  
 BB

## POSTER PRESENTATIONS BY NUMBER

BB = Basic Biosciences

EN = Engineering

PS = Physical Science

SS = Social Science

AB = Applied Biosciences

PE = Policy &amp; Ethics

ES = Earth Science

HU = Humanities

|    |                                 |    |                                                                                                                                                    |
|----|---------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | <b>Keven Cabrera</b>            | AB | Expression of EGFL7 in Sexual Organs of Female Mice                                                                                                |
| 2  | <b>Anna Garliss</b>             | AB | Involvement of Tyrosine Phosphorylation in Slitrk5 Bonding to GluA2                                                                                |
| 3  | <b>Iymaan Pinkman</b>           | AB | Biochemical Activities of the Mitochondrial Sirtuin, SIRT5 and Modulation by Small Molecules                                                       |
| 4  | <b>Nayana Ghosh-Choudhury</b>   | AB | Are Functional Domains of Low Risk Mucosal HPV's Important for their Biological Activities such as mTORC1 Signaling and CAP Dependent Translation? |
| 5  | <b>Kameron Black</b>            | AB | LDL Receptors Mediate Amyloid beta Toxicity in Drosophila melanogaster                                                                             |
| 6  | <b>Saima Machlovi</b>           | AB | The Role of the Perirhinal and Postrhinal Cortices in a Complex Discrimination Task                                                                |
| 7  | <b>Kelly Crotty</b>             | AB | Upstream Regulation on mTOR Complex 1 Activity                                                                                                     |
| 8  | <b>Amar Mirza</b>               | AB | Characterization of the Epidermal Growth Factor Receptor Exon 19 Insertion                                                                         |
| 9  | <b>Anabel Miguelez</b>          | AB | The Effect of Catheter Diameter and Injection Speed on the Viability of Human Bone Marrow Mesenchymal Stem Cells                                   |
| 10 | <b>Mariel Rios</b>              | AB | The Effects of Rapamycin Treatment on Tsc1-deficient Neurons in the Thalamus                                                                       |
| 11 | <b>Charné Thomas</b>            | AB | Testing Anti Viral Compounds Against Pandemic Influenza Compounds                                                                                  |
| 12 | <b>Dorian Ball</b>              | AB | Distribution Of Colorectal Cancer Screening Among Racial/Ethnic Minorities In Miami-Dade County                                                    |
| 13 | <b>Danelvis Paredes Taveras</b> | AB | The Study of the Site of Action of GDNF in Enhancing Regeneration after Axonal Injury Utilizing In vitro Microfluidic Platforms                    |
| 14 | <b>Ricardo Cruz</b>             | AB | How Does Oxygen Alter the Macrophage A2AR Pathway to Augment LPS-induced Murine Lung Inflammation?                                                 |
| 15 | <b>Antoinette Nelson</b>        | AB | The Effects of Physicochemical Properties of Nanoparticles on Airway Epithelium                                                                    |
| 16 | <b>Thanh Hoang</b>              | AB | You Are What You Eat: Exploring Healthy Eating Behaviors in Adolescents and Asian-Americans                                                        |
| 17 | <b>Laura Powell</b>             | AB | Characterization of Disulfide Bond Formation Pathways in Francisella novicida                                                                      |
| 18 | <b>Suresh Nayar</b>             | AB | Quantitative Analysis of Immunohistochemistry Staining of Yes-Associated Protein Expression in Biliary Dysplasia                                   |
| 19 | <b>Timothy Gilpatrick</b>       | AB | Cellular Response to Epigenetic Reader Inhibition and Applications for Cancer Therapy                                                              |
| 20 | <b>Hector Acaron Ledesma</b>    | AB | Development of Tissue-specific Gene Regulatory Networks in Human Endothelial Cells                                                                 |
| 21 | <b>Samantha Berkheimer</b>      | BB | Probing the Histone Code by Site-Specific Mutagenesis in Drosophila                                                                                |
| 22 | <b>Tamera Hughes</b>            | AB | Synthesis, Purification and Characterization of Various Potential Anti-parasitic and Chemo-preventive Compounds                                    |
| 23 | <b>Jie Bin Liu</b>              | AB | Regulation of Survivin Expression by Rapamycin in High-risk Neuroblastoma                                                                          |
| 24 | <b>Patrick Loftus</b>           | AB | Inflammation Response in Microfluidic Lung-On-A-Chip Devices                                                                                       |
| 25 | <b>Janice Nieves</b>            | AB | Co-Culture between Mesenchymal Stem Cells (MSC) and Cardiac Side Population (CSP) Cells towards Promoting CSP Viability Against Stress             |
| 26 | <b>Christina Parker</b>         | BB | Assessing Gene Expression in Sarcomas in Mouse Skeletal Muscle                                                                                     |
| 27 | <b>Joseph Tillotson</b>         | BB | Chemical Regulation of MAGE Levels in Differentiating Adipocytes                                                                                   |
| 28 | <b>Ileana Torres</b>            | AB | Acute Myocardial Infarction and the Effects of Rapamycin Treatment                                                                                 |

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|----|----------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 29 | <b>Ashley Tutson</b>       | AB | Determinants of the Health-Related Quality of Life in Patients with Type 2 Diabetes                                                              |
| 30 | <b>Khabir Muhammad</b>     | AB | Causality of Memory Loss in Epilepsy Patients                                                                                                    |
| 31 | <b>Mason Brown</b>         | AB | The Role of PGCs in Telomere-mediated Senescence and Transformation                                                                              |
| 32 | <b>Wilnelia Medina</b>     | AB | Is Cortical Demyelination Specific to Multiple Sclerosis?                                                                                        |
| 33 | <b>Chelsea Powell</b>      | BB | The Interaction of Tmc2 with Potassium Channel Alpha Subunits                                                                                    |
| 34 | <b>Gaberiella Robinson</b> | BB | Functions of Protocaherin-1 in Chickens to Assemble Cells into Tissues                                                                           |
| 35 | <b>Miranda Crasco</b>      | BB | Gene Expression during Neurulation                                                                                                               |
| 36 | <b>Morayo Adebisi</b>      | BB | Characterizing Zebrafish as a Novel Animal Model for Craniosynostosis                                                                            |
| 37 | <b>Michelle Corrado</b>    | BB | Wnt Signaling Regulates Pancreas vs. Liver Specification of Early Endoderm                                                                       |
| 38 | <b>Jiayue Deng</b>         | BB | Whole-genome RNAi Screen Identified FMS-like Tyrosine Kinase-3 (FLT3) as a Target in Wnt-active Cancer Cells                                     |
| 39 | <b>Ben Dyer</b>            | BB | Investigation of Protein Regulators of E. coli Peptidoglycan Hydrolysis                                                                          |
| 40 | <b>Jessica Long Knife</b>  | BB | I See Dots, What Do They Mean?                                                                                                                   |
| 41 | <b>Julia Garcia</b>        | BB | Exploring the Role of MicroRNA in Synaptic Growth and Development in the Drosophila NMJ                                                          |
| 42 | <b>Kendra Teague</b>       | BB | Identification of Antarctic Isolates by Carbon Source Utilization Patterns                                                                       |
| 43 | <b>Katherine Deland</b>    | BB | Sirtuin 4 Enzymatic Activity and Metabolic Function                                                                                              |
| 44 | <b>Miguel Roque</b>        | BB | Molecular Basis for Ligand Specificity in the Mammalian Olfactory System                                                                         |
| 45 | <b>Danielle Wright</b>     | BB | High-Throughput Single Cell DNA Amplification Using Microfabricated Droplets                                                                     |
| 46 | <b>Alessandro Bailetti</b> | BB | The Role of Jagged1 Gene in the Subventricular Zone During Embryonic Neurogenesis of the Mus musculus                                            |
| 47 | <b>Cindi-Ann Williams</b>  | BB | Dendritic Cell Activation By Immunological Adjuvants Increases IL-12p70 Secretion                                                                |
| 48 | <b>Valencia Potter</b>     | BB | Determining the Mechanism of the Trpc6 Mutation in the Upregulation of Calcium Ions in the Wnt Pathway in Focal and Segmental Glomerulosclerosis |
| 49 | <b>Zenas Igbinoba</b>      | BB | Inducing Phenotypic Change in Bone Marrow Cells through Microvesicles                                                                            |
| 50 | <b>Emily Fernandez</b>     | BB | Characterization of DNA Methylation Patterns in the Promoter Regions of the Polymorphism 5-HTTLPR of the SLC6A4 Gene and BDNF Gene               |
| 51 | <b>Daniel Sandoval</b>     | BB | Characterizing Mutants in the Self Versus Non-Self Recognition Pathway of Proteus mirabilis                                                      |
| 52 | <b>Blaine Radley</b>       | BB | Differential Expression of Transcription Factors Seen in PAU Genes while under Hypoxic Conditions                                                |
| 53 | <b>Yun Ji Choi</b>         | BB | The Effects of Various Drugs on Cleavage of Polyductin in HECK-293 and MDCK Cells                                                                |
| 54 | <b>Sanchez Jarrett</b>     | BB | Investigating Multidrug and DNA Recognition by the Multidrug Resistance (MDR) Gene Regulator, Rob                                                |
| 55 | <b>Jasmine Snoddy</b>      | BB | Characterization of miR-216a Expression and Function during Zebrafish Development                                                                |
| 56 | <b>Meenakshi Prajapati</b> | BB | Regulation of Mitochondria Motility in Neurons by O-GlcNAc Transferase                                                                           |
| 57 | <b>Jessica Brooks</b>      | BB | Analysis of Serotonergic Neurons Expressing DRD1 and DRD2                                                                                        |
| 58 | <b>Larekia Brown</b>       | BB | MicroRNA 128 Inhibits Cell Proliferation in Head and Neck Squamous Cell Carcinoma                                                                |
| 59 | <b>Ayesha Chowdhury</b>    | BB | Generation of Drosophila melanogaster Strains with Fluorescent Timer Reporter Genes                                                              |

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|----|-------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 60 | <b>Heba Elnaiem</b>           | BB | Observation of Primary Cilia Length Dynamics                                                                                                            |
| 61 | <b>Lumena Louis</b>           | BB | Death of the O-GlcNAc Transferase Knockout; Clues to the Essential Roles of O-GlcNAc!                                                                   |
| 62 | <b>Nicholas Popp</b>          | BB | The Role of ATP Hydrolysis in the Dissociation of UvrA Dimer in Nucleotide Excision Repair                                                              |
| 63 | <b>Rhea Richardson</b>        | BB | Petal Spur Evolution and Development in <i>Aquilegia</i>                                                                                                |
| 64 | <b>Michka Sharpe</b>          | BB | Investigation of an Internal Latency Associated Nuclear Antigen (LANA) Region Critical for Kaposi's Sarcoma-Associated Virus (KSHV) Episome Persistence |
| 65 | <b>Lukman Solola</b>          | BB | Role of Sodium-Hydrogen Exchangers, NHE9 and NHE6, in Membrane Protein Trafficking by Primary Mouse Astrocytes                                          |
| 66 | <b>Robert Wardlow II</b>      | BB | Structure And Function of E3 Ubiquitin Ligase Mindbomb RING Domain                                                                                      |
| 67 | <b>Jacob Layer</b>            | BB | Localizing CDK12 to Notch Target Genes                                                                                                                  |
| 68 | <b>Adan Horta</b>             | BB | Sexually Dimorphic Expression of Cytochrome P450s in Liver Along Mouse Lineage                                                                          |
| 69 | <b>Bianshly Rivera Rivero</b> | BB | The Role of Cardiac ATP-sensitive Potassium (KATP) Channels in Metabolism and Oxygen Sensing                                                            |
| 70 | <b>Douglas Chapski</b>        | BB | Regulation of Glutamine Metabolism by the mTORC1 Signaling Pathway through a Sirtuin-dependent Mechanism                                                |
| 71 | <b>Jabari Elliott</b>         | BB | Understanding the Role of alpha B Crystallin in Cataracts and Cell Processes                                                                            |
| 72 | <b>Christian Bureu</b>        | BB | Automation of Image Processing Algorithms for the ab initio Reconstruction of Asymmetric Particles by Electron Microscopy                               |
| 73 | <b>Kumar Tiger</b>            | BB | Identifying Components of Vgl Anchoring Complex                                                                                                         |
| 74 | <b>Odis Ponce</b>             | BB | Interaction of Ddc1 and Dpb11 in the DNA Damage Checkpoint Signaling in <i>Saccharomyces cerevisiae</i>                                                 |
| 75 | <b>John Paul Bonadonna</b>    | AB | The Effects of Normal and Pathological Aging on Hippocampal Integrity                                                                                   |
| 76 | <b>Daniel Kepple</b>          | BB | Quantitative Analysis of Spindle Dynamics in the Genome-wide RNAi Screening of Early Embrogenesis in <i>Caenorhabditis elegans</i>                      |
| 77 | <b>Denise Gharthey</b>        | HU | "Who Cares What I Say?" A Critical Analysis of Race, Education, and Identity in 21st Century America                                                    |
| 78 | <b>Felicia Arriaga</b>        | SS | Judging a Book by Its Cover: Do Teacher Expectations Vary by Student's Race, SES, and Gender?                                                           |
| 79 | <b>Nathaniel Tucker</b>       | SS | Utilizing Community Based Participatory Research to Sample Men's Sexual Health on the Fort Peck Reservation                                             |
| 80 | <b>Anna Rhoad</b>             | SS | Relation of Language and Social Skills: Boys versus Girls                                                                                               |
| 81 | <b>Ariel Meilich</b>          | SS | The Role of Reinforcement Learning in Controlled Retrieval                                                                                              |
| 82 | <b>Jessica Leonard</b>        | SS | Psychic in the Classroom: The Effect of Teacher Expectations on Student Outcomes                                                                        |
| 83 | <b>Shantel Gamble</b>         | SS | Comparing Perceptions of Elementary Classroom Interactions across Student and Administrator Reports                                                     |
| 84 | <b>Ebony Hinton</b>           | SS | Examining the Relationship between Teacher-Student Similarities and Classroom Interactions                                                              |
| 85 | <b>Jessica Carrick</b>        | SS | Let your brain storm it up: Figurative Language in Teacher Talk                                                                                         |
| 86 | <b>Laura Carrillo</b>         | SS | Exploring the Association between Mothers' Early Aspirations/Expectations and Children's Academic Achievement                                           |
| 87 | <b>Alyssa Moudy</b>           | SS | The Link Between Parenting Practices and the Perpetration of Violence in Adolescents: Moderation by Family Characteristics                              |



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|-----|-------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 88  | <b>Jose Rosales-Chavez</b>    | SS | Assessment of Physical Activity Patterns among American Samoa Children Ages 9-12                                                                         |
| 89  | <b>Shannon Varga</b>          | SS | The Link Between Family Relationships and Perpetration of Violence in Adolescents: Moderation by Socioeconomic Status and Ethnicity                      |
| 90  | <b>Zachariah Reagh</b>        | SS | Categorical Modulations of Steady State Visual Evoked Potentials                                                                                         |
| 91  | <b>Devin Karbowicz</b>        | SS | The Enjoyment of Shared Experiences                                                                                                                      |
| 92  | <b>Karole Barlow</b>          | SS | How One Half Can Affect the Whole: Priming Biracial Individuals in Interracial Settings                                                                  |
| 93  | <b>Deshonay Dozier</b>        | SS | Babies Raising Babies: Does the Quality of Teen Parents' Relationship Relate to Maternal Mental Health and Mother-Child Emotional Availability?          |
| 94  | <b>Adrian Curry</b>           | SS | How Blind Are the Color Blind? A Technique to Mitigate Racial Bias                                                                                       |
| 95  | <b>Angela Chen</b>            | SS | Relation of Socioeconomic Status and Home Literacy Environment on Early Literacy Skills                                                                  |
| 96  | <b>Leslie De La Rosa</b>      | HU | Latino Attitudes toward Recent State Immigration Laws                                                                                                    |
| 97  | <b>Breanna Cohen</b>          | SS | What Makes An Object Trackable? Effects of "Familiar Size" On Attentional Tracking                                                                       |
| 98  | <b>Fatema Haque</b>           | SS | What Makes An Object Memorable? Effects of "Familiar Size" on Visual Working Memory                                                                      |
| 99  | <b>Gloria Condon</b>          | EN | The Fate and Transport of Silver Nanoparticles in Heterogeneous Media                                                                                    |
| 100 | <b>Oscar Sandoval</b>         | EN | The Development and Testing of Cheap Photovoltaic Cells for their Incorporation in LED and UV Lighting Systems for their Use in Less Developed Countries |
| 101 | <b>Devin American Horse</b>   | PS | Development of New Antibacterial Dendrimers                                                                                                              |
| 102 | <b>Bella Sarjoh</b>           | PS | Molecular Mechanism of HIV Induced Dementia: Cloning and Expression of Recombinant Tat and NMDA Receptor Proteins                                        |
| 103 | <b>Venise Rita De Etoulem</b> | PS | Kinetics of Hairpin-Duplex Conversion for (CAG) 10 in Presence of (CTG) 11 with Non-complementary Overhangs                                              |
| 104 | <b>Chelsea Conrad</b>         | PS | Green Chemical Synthesis of Piperaquine                                                                                                                  |
| 105 | <b>Brockton Starling</b>      | PS | Global Trends: Using Twitter to Track Political Movements                                                                                                |
| 106 | <b>Jamal Thorne</b>           | PS | Brain Driven Recommendation System                                                                                                                       |
| 107 | <b>Joshua Leggette</b>        | PS | Calix[4]arene and the Fluorescence Sensing of Heavy Metal Ions                                                                                           |
| 108 | <b>Nadia Leonard</b>          | PS | Reactivity Studies of Organometallic Iron Complexes toward Catalytic Transformations                                                                     |
| 109 | <b>Tyler Pankratz</b>         | ES | The Effects Of Imazapic on Blue Bunch Wheat Grass                                                                                                        |
| 110 | <b>Michael Brown</b>          | SS | What Makes an Object Easy or Hard to Find? Effects of "Familiar Size" on Visual Search                                                                   |
| 111 | <b>Paloma Lopez</b>           | ES | Characterization of a Novel Red-pigmented Bacterium Isolated from a Large Hailstone                                                                      |
| 112 | <b>Aisha Dorta</b>            | BB | Developmental Basis of Ovariole Number in Two Species of <i>Drosophila</i>                                                                               |
| 113 | <b>Olufunmilayo Agunloye</b>  | BB | The Role of the Essential Gene MTHFD1 in Nuclear Folate Metabolism                                                                                       |
| 114 | <b>Charlene Weatherwax</b>    | ES | The Vertical Structure of the Atmosphere                                                                                                                 |
| 115 | <b>Athalia Morrison</b>       | ES | Isolation, Cultivation and Characterization of Extremophilic Algae for Biofuels Production                                                               |
| 117 | <b>Yesenia Roman-Lopez</b>    | SS | Breastfeeding Patterns and their Relation with Socio-demographic Factors in American Samoa                                                               |
| 118 | <b>Karico Left Hand</b>       | ES | Radon in Apsaalooke (Crow) Country                                                                                                                       |

## POSTER PRESENTATIONS BY NAME

**Hector Acaron Ledesma, 20..... 9:45-10:45 AM**  
 Presentation Title: Development of Tissue-specific Gene  
 Regulatory Networks in Human Endothelial Cells  
 Research Mentor: Olivier Elemento  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Cornell University  
 Co-Authors: Olivier Elemento, Weill Cornell Graduate  
 School of Medical Sciences

**Morayo Adebisi, 36..... 9:45-10:45 AM**  
 Presentation Title: Characterizing Zebrafish as a Novel  
 Animal Model for Craniosynostosis  
 Research Mentor: Matthew Warman  
 Research Institution: Harvard University, Division of  
 Medical Sciences  
 Home Institution: Spelman College  
 Co-Authors: Katrin Henke, Matthew Harris and  
 Matthew Warman, Children's Hospital Boston

**Olufunmilayo Agunloye, 113..... 8:45-9:45 AM**  
 Presentation Title: The Role of the Essential Gene  
 MTHFD1 in Nuclear Folate Metabolism  
 Research Mentor: Patrick J. Stover  
 Research Institution: Cornell University  
 Home Institution: Cornell University  
 Co-Authors: Martha S. Field and Patrick J. Stover,  
 Cornell University

**Devin American Horse, 101..... 8:45-9:45 AM**  
 Presentation Title: Development of New Antibacterial  
 Dendrimers  
 Research Mentor: Mary Cloninger  
 Research Institution: Montana State University  
 -Bozeman  
 Home Institution: Little Big Horn College  
 Co-Authors: Mary Cloninger, Montana State University

**Felicia Arriaga, 78..... 9:45-10:45 AM**  
 Presentation Title: Judging a Book by Its Cover: Do  
 Teacher Expectations Vary by Student's Race, SES,  
 and Gender?  
 Research Mentor: Jim Wyckoff  
 Research Institution: University of Virginia School of  
 Education  
 Home Institution: Duke University  
 Co-Authors: Daphna Bassok, Jim Wyckoff and Tom  
 Dee, University of Virginia - Education Sciences

**Alessandro Bailetti, 46..... 9:45-10:45 AM**  
 Presentation Title: The Role of Jagged1 Gene in  
 the Subventricular Zone During Embryonic  
 Neurogenesis of the Mus musculus  
 Research Mentor: David Lin  
 Research Institution: Cornell University  
 Home Institution: Cornell University  
 Co-Authors: Christopher Blackwood and David Lin,  
 Cornell University

**Dorian Ball, 12..... 9:45-10:45 AM**  
 Presentation Title: Distribution Of Colorectal Cancer  
 Screening Among Racial/Ethnic Minorities In  
 Miami-Dade County  
 Research Mentor: Erin Kobetz  
 Research Institution: University of Miami  
 Home Institution: Howard University  
 Co-Authors: Erin Kobetz and Daniel Sussman,  
 University of Miami

**Karole Barlow, 92..... 9:45-10:45 AM**  
 Presentation Title: How One Half Can Affect the  
 Whole: Priming Biracial Individuals in Interracial  
 Settings  
 Research Mentor: Keith Maddox  
 Research Institution: Tufts University  
 Home Institution: University of Tennessee-Chattanooga  
 Co-Authors: Adrian Curry, Sarah Gaither and Keith  
 Maddox, Tufts University

**Samantha Berkheimer, 21 ..... 8:45-9:45 AM**  
 Presentation Title: Probing the Histone Code by Site-  
 Specific Mutagenesis in Drosophila  
 Research Mentor: Mitzi Kuroda  
 Research Institution: Harvard University, Division of  
 Medical Sciences  
 Home Institution: Susquehanna University  
 Co-Authors: Hyuck Joon Kang and Mitzi I. Kuroda,  
 Harvard University Div. of Medical Sciences

**Kameron Black, 5..... 8:45-9:45 AM**  
 Presentation Title: LDL Receptors Mediate Amyloid  
 beta Toxicity in Drosophila melanogaster  
 Research Mentor: Mel Feany  
 Research Institution: Harvard University, Division of  
 Medical Sciences  
 Home Institution: UC San Diego  
 Co-Authors: Mel Feany, Harvard University Div. of  
 Medical Sciences

**John Paul Bonadonna, 75..... 8:45-9:45 AM**

Presentation Title: The Effects of Normal and Pathological Aging on Hippocampal Integrity  
 Research Mentor: Denise Head  
 Research Institution: Washington University in St. Louis  
 Home Institution: University of Michigan-Ann Arbor  
 Co-Authors: Denise Head and Brian Gordon, Washington University in St. Louis

**Jessica Brooks, 57..... 8:45-9:45 AM**

Presentation Title: Analysis of Serotonergic Neurons Expressing DRD1 and DRD2  
 Research Mentor: Susan Dymecki  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Princeton University  
 Co-Authors: Susan Dymecki and Tedi Asher, Harvard University Div. of Medical Sciences

**Larekia Brown, 58..... 9:45-10:45 AM**

Presentation Title: MicroRNA 128 Inhibits Cell Proliferation in Head and Neck Squamous Cell Carcinoma  
 Research Mentor: Xinbin Gu  
 Research Institution: Howard University  
 Home Institution: Tougaloo College  
 Co-Authors: Xinbin Gu and Belinda Hauser, Howard University

**Mason Brown, 31..... 8:45-9:45 AM**

Presentation Title: The Role of PGCs in Telomere-mediated Senescence and Transformation  
 Research Mentor: Ergun Sahin  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Indiana University Purdue University  
 Co-Authors: Ergun Sahin and Ron DePinho, Harvard University Div. of Medical Sciences

**Michael Brown, 110..... 9:45-10:45 AM**

Presentation Title: What Makes an Object Easy or Hard to Find? Effects of “Familiar Size” on Visual Search  
 Research Mentor: George Alvarez  
 Research Institution: Harvard University  
 Home Institution: Morgan State University  
 Co-Authors: Talia Konkler, Massachusetts Institute of Technology; George Alvarez, Harvard University Arts and Sciences

**Christian Bureu, 72..... 9:45-10:45 AM**

Presentation Title: Automation of Image Processing Algorithms for the ab initio Reconstruction of Asymmetric Particles by Electron Microscopy  
 Research Mentor: Andres Leschziner  
 Research Institution: Harvard University  
 Home Institution: Barry University  
 Co-Authors: Rogelio Hernandez-Lopez and Andres Leschziner, Harvard University Arts and Sciences

**Keven Cabrera, 1..... 8:45-9:45 AM**

Presentation Title: Expression of EGFL7 in Sexual Organs of Female Mice  
 Research Mentor: Heidi Stuhlman  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Vassar College  
 Co-Authors: Heidi Stuhlman and Lauretta Lacko, Weill Cornell Graduate School of Medical Sciences

**Jessica Carrick, 85..... 8:45-9:45 AM**

Presentation Title: Let your brain storm it up: Figurative Language in Teacher Talk  
 Research Mentor: Joseph Wehby  
 Research Institution: Vanderbilt University  
 Home Institution: Drury University  
 Co-Authors: Joseph Wehby and Alexandra Hollo, Vanderbilt University

**Laura Carrillo, 86..... 9:45-10:45 AM**

Presentation Title: Exploring the Association between Mothers’ Early Aspirations/Expectations and Children’s Academic Achievement  
 Research Mentor: Micere Keels  
 Research Institution: University of Chicago  
 Home Institution: DePaul University  
 Co-Authors: Micere Keels and Dolores Norton, University of Chicago

**Douglas Chapski, 70..... 8:45-9:45 AM**

Presentation Title: Regulation of Glutamine Metabolism by the mTORC1 Signaling Pathway through a Sirtuin-dependent Mechanism  
 Research Mentor: John Blenis  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Tulane University  
 Co-Authors: Alfredo Csibi, Marcia Haigis and John Blenis, Harvard University Div. of Medical Sciences

**Angela Chen, 95 ..... 8:45-9:45 AM**

Presentation Title: Relation of Socioeconomic Status and Home Literacy Environment on Early Literacy Skills

Research Mentor: Andy Mashburn

Research Institution: University of Virginia School of Education

Home Institution: College of New Jersey

Co-Authors: Anita McGinty and Andy Mashburn, University of Virginia - Education Sciences

**Yun Ji Choi, 53 ..... 8:45-9:45 AM**

Presentation Title: The Effects of Various Drugs on Cleavage of Polyductin in HECK-293 and MDCK Cells

Research Mentor: Feng Qian

Research Institution: Johns Hopkins University

Home Institution: Cornell University

Co-Authors: Feng Qian, Johns Hopkins University

**Ayesha Chowdhury, 59 ..... 8:45-9:45 AM**

Presentation Title: Generation of Drosophila melanogaster Strains with Fluorescent Timer Reporter Genes

Research Mentor: Gilad Barnea

Research Institution: Brown University

Home Institution: Hunter College

Co-Authors: Mark A. Johnson and Gilad Barnea, Brown University

**Breanna Cohen, 97 ..... 8:45-9:45 AM**

Presentation Title: What Makes An Object Trackable? Effects of "Familiar Size" On Attentional Tracking

Research Mentor: George Alvarez

Research Institution: Harvard University

Home Institution: Morgan State University

Co-Authors: Talia Konkle, Massachusetts Institute of Technology; George Alvarez, Harvard University Arts and Sciences

**Gloria Condon, 99 ..... 8:45-9:45 AM**

Presentation Title: The Fate and Transport of Silver Nanoparticles in Heterogeneous Media

Research Mentor: Kimberly Jones

Research Institution: Howard University

Home Institution: Rensselaer Polytechnic Institute

Co-Authors: Kimberly Jones and Karel Morgan-Evans, Howard University

**Chelsea Conrad, 104 ..... 9:45-10:45 AM**

Presentation Title: Green Chemical Synthesis of Piperazine

Research Mentor: Joseph Fortunak

Research Institution: Howard University

Home Institution: Xavier University of Louisiana

Co-Authors: Joseph Fortunak, Tiffany Ellison and Christopher King, Howard University

**Michelle Corrado, 37 ..... 8:45-9:45 AM**

Presentation Title: Wnt Signaling Regulates Pancreas vs. Liver Specification of Early Endoderm

Research Mentor: Wolfram Goessling

Research Institution: Harvard University, Division of Medical Sciences

Home Institution: University of Florida

Co-Authors: Sahar Nissim and Wolfram Goessling, Harvard University Div. of Medical Sciences

**Miranda Crasco, 35 ..... 8:45-9:45 AM**

Presentation Title: Gene Expression during Neurulation

Research Mentor: Christa Merzdorf

Research Institution: Montana State University -Bozeman

Home Institution: Montana State University -Bozeman

Co-Authors: Christa Merzdorf and Carla Hutson, Montana State University

**Kelly Crotty, 7 ..... 8:45-9:45 AM**

Presentation Title: Upstream Regulation on mTOR Complex 1 Activity

Research Mentor: John Blenis

Research Institution: Harvard University, Division of Medical Sciences

Home Institution: Oregon State University

Co-Authors: Gwen Buel and John Blenis, Harvard University Div. of Medical Sciences

**Ricardo Cruz, 14 ..... 9:45-10:45 AM**

Presentation Title: How Does Oxygen Alter the Macrophage A2AR Pathway to Augment LPS-induced Murine Lung Inflammation

Research Mentor: Landon King

Research Institution: Johns Hopkins University

Home Institution: UPR-Mayaguez

Co-Authors: Neil Aggarwal and Landon King, Johns Hopkins University

**Adrian Curry, 94..... 9:45-10:45 AM**

Presentation Title: How Blind Are the Color Blind?: A Technique to Mitigate Racial Bias  
 Research Mentor: Keith Maddox  
 Research Institution: Tufts University  
 Home Institution: Morehouse College  
 Co-Authors: Karole Barlow, Sarah Gaither and Keith Maddox, Tufts University

**Venise Rita De Etoulem, 103..... 8:45-9:45 AM**

Presentation Title: Kinetics of Hairpin-Duplex Conversion for (CAG) 10 in Presence of (CTG) 11 with Non-complementary Overhangs  
 Research Mentor: Sarah Delaney  
 Research Institution: Brown University  
 Home Institution: Trinity Washington University  
 Co-Authors: Amalia Avila-Figueroa and Sarah Delaney, Brown University

**Leslie De La Rosa, 96..... 9:45-10:45 AM**

Presentation Title: Latino Attitudes Toward Recent State Immigration Laws  
 Research Mentor: Liza Cariaga-Lo  
 Research Institution: Harvard University  
 Home Institution: Saint Edward's University  
 Co-Authors: Liza Cariaga-Lo and Tessa Lowinske Desmond, Harvard University Arts and Sciences

**Katherine Deland, 43..... 8:45-9:45 AM**

Presentation Title: Sirtuin 4 Enzymatic Activity and Metabolic Function  
 Research Mentor: Marcia Haigis  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Southern Methodist University  
 Co-Authors: Natalie German and Marcia Haigis, Harvard University Div. of Medical Sciences

**Jiayue Deng, 38 ..... 9:45-10:45 AM**

Presentation Title: Whole-genome RNAi Screen Identified FMS-like Tyrosine Kinase-3 (FLT3) as a Target in Wnt-active Cancer Cells  
 Research Mentor: William Hahn  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Winthrop University  
 Co-Authors: William Hahn, Joseph Rosenbluh and Eric Schafer, Dana-Farber Cancer Institute

**Aisha Dorta, 112 ..... 9:45-10:45 AM**

Presentation Title: Developmental Basis of Ovariole Number in Two Species of *Drosophila*  
 Research Mentor: Cassandra Extavour  
 Research Institution: Harvard University  
 Home Institution: Brooklyn College CUNY  
 Co-Authors: Didem Sarikaya and Cassandra Extavour, Harvard University Arts and Sciences

**Deshonay Dozier, 93..... 8:45-9:45 AM**

Presentation Title: Babies Raising Babies: Does the Quality of Teen Parents' Relationship Relate to Maternal Mental Health and Mother-Child Emotional Availability?  
 Research Mentor: Jana Chaudhuri  
 Research Institution: Tufts University  
 Home Institution: CSU Northridge  
 Co-Authors: Jana Chaudhuri, Tufts University

**Ben Dyer, 39..... 8:45-9:45 AM**

Presentation Title: Investigation of Protein Regulators of *E. coli* Peptidoglycan Hydrolysis  
 Research Mentor: Thomas Bernhardt  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Campbell University  
 Co-Authors: Thomas Bernhardt, Harvard University Div. of Medical Sciences

**Jabari Elliott, 71 ..... 8:45-9:45 AM**

Presentation Title: Understanding the Role of alpha B Crystallin in Cataracts and Cell Processes  
 Research Mentor: Usha Andley  
 Research Institution: Washington University in St. Louis  
 Home Institution: Morehouse College  
 Co-Authors: Usha Andley, Washington University in St. Louis

**Heba Elnaiem, 60..... 9:45-10:45 AM**

Presentation Title: Observation of Primary Cilia Length Dynamics  
 Research Mentor: Jagesh Shah  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Howard University  
 Co-Authors: Jagesh Shah and Mikhail Sergeev, Harvard University Arts and Sciences



**Emily Fernandez, 50 ..... 9:45-10:45 AM**

Presentation Title: Characterization of DNA Methylation Patterns in the Promoter Regions of the Polymorphism 5-HTTLPR of the SLC6A4 Gene and BDNF Gene

Research Mentor: John E. McGeary

Research Institution: Brown University

Home Institution: UPR-Rio Piedras

Co-Authors: Christopher G. Beevers, University of Texas Austin; Brandon E. Gibb, Binghamton University, SUNY; John E. McGeary, Brown University

**Shantel Gamble, 83 ..... 8:45-9:45 AM**

Presentation Title: Comparing Perceptions of Elementary Classroom Interactions Across Student and Administrator Reports

Research Mentor: Jason Downer

Research Institution: University of Virginia School of Education

Home Institution: Hampton University

Co-Authors: Jason Downer, Andre Durham and Manuela Jimenez, University of Virginia - Education Sciences

**Julia Garcia, 41 ..... 9:45-10:45 AM**

Presentation Title: Exploring the Role of MicroRNA in Synaptic Growth and Development in the Drosophila NMJ

Research Mentor: David Van Vactor

Research Institution: Harvard University, Division of Medical Sciences

Home Institution: UCLA

Co-Authors: Elizabeth McNeill and David Van Vactor, Harvard University Div. of Medical Sciences

**Anna Garliss, 2 ..... 9:45-10:45 AM**

Presentation Title: Involvement of Tyrosine Phosphorylation in Slitrk5 Bonding to GluA2

Research Mentor: Francis Lee

Research Institution: Weill Cornell Graduate School

Home Institution: New Mexico State University

Co-Authors: Francis Lee, Weill Cornell Graduate School of Medical Sciences

**Denise Gharthey, 77 ..... 8:45-9:45 AM**

Presentation Title: "Who Cares What I Say?" A Critical Analysis of Race, Education, and Identity in 21st Century America

Research Mentor: Corey Walker

Research Institution: Brown University

Home Institution: Hamilton College

Co-Authors: Cory D.B. Walker, Brown University

**Nayana Ghosh-Choudhury, 4 ..... 9:45-10:45 AM**

Presentation Title: Are Functional Domains of Low Risk Mucosal HPV's Important for Their Biological Activities such as mTORC1 Signaling and CAP Dependent Translation?

Research Mentor: Karl Munger

Research Institution: Harvard University, Division of Medical Sciences

Home Institution: University of Texas at Austin

Co-Authors: Karl Munger and Jennifer Spangle, Harvard University Div. of Medical Sciences

**Timothy Gilpatrick, 19 ..... 8:45-9:45 AM**

Presentation Title: Cellular Response to Epigenetic Reader Inhibition and Applications for Cancer Therapy

Research Mentor: James Bradner

Research Institution: Harvard University, Division of Medical Sciences

Home Institution: University of Delaware

Co-Authors: Peter Rahl, Massachusetts Institute of Technology; Ghayas Issa and James Bradner, Harvard University Div. of Medical Sciences

**Fatema Haque, 98 ..... 9:45-10:45 AM**

Presentation Title: What Makes An Object Memorable? Effects of "Familiar Size" on Visual Working Memory

Research Mentor: George Alvarez

Research Institution: Harvard University

Home Institution: Morgan State University

Co-Authors: Talia Konkle, Massachusetts Institute of Technology; George Alvarez, Harvard University Arts and Sciences

**Ebony Hinton, 84 ..... 9:45-10:45 AM**

Presentation Title: Examining the Relationship between Teacher-Student Similarities and Classroom Interactions

Research Mentor: Jason Downer

Research Institution: University of Virginia School of Education

Home Institution: University of Alabama-Birmingham

Co-Authors: Jason Downer, Manuela Jimenez and Andre Durham, University of Virginia - Education Sciences

**Thanh Hoang, 16..... 9:45-10:45 AM**

Presentation Title: You Are What You Eat: Exploring Healthy Eating Behaviors in Adolescents and Asian-Americans  
 Research Mentor: Ruth Bernheim  
 Research Institution: University of Virginia School of Education  
 Home Institution: University of Rochester  
 Co-Authors: Aaron Pannone, University of Virginia - BioMedical Sciences

**Adan Horta, 68..... 9:45-10:45 AM**

Presentation Title: Sexually Dimorphic Expression of Cytochrome P450s in Liver Along Mouse Lineage  
 Research Mentor: Stephen Liberles  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Vanderbilt University  
 Co-Authors: Qian Li, Dheeraj Roy and Stephen Liberles, Harvard University Div. of Medical Sciences

**Tamera Hughes, 22 ..... 9:45-10:45 AM**

Presentation Title: Synthesis, Purification and Characterization of Various Potential Anti-parasitic and Chemo-preventive Compounds  
 Research Mentor: Amol Kulkarni  
 Research Institution: Howard University  
 Home Institution: Tougaloo College  
 Co-Authors: Amol Kulkarni, Howard University

**Zenas Igbinoba, 49..... 8:45-9:45 AM**

Presentation Title: Inducing Phenotypic Change in Bone Marrow Cells Through Microvesicles  
 Research Mentor: Jason Aliotta  
 Research Institution: Brown University  
 Home Institution: Rice University  
 Co-Authors: Jason Aliotta, Brown University

**Sanchez Jarrett, 54 ..... 9:45-10:45 AM**

Presentation Title: Investigating Multidrug and DNA Recognition by the Multidrug Resistance (MDR) Gene Regulator, Rob  
 Research Mentor: Herschel Wade  
 Research Institution: Johns Hopkins University  
 Home Institution: Brooklyn College CUNY  
 Co-Authors: Herschel Wade, Sharrol Bachas and Michael Crone, Johns Hopkins University

**Devin Karbowicz, 91 ..... 8:45-9:45 AM**

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

**Daniel Kepple, 76..... 9:45-10:45 AM**

Presentation Title: Quantitative Analysis of Spindle Dynamics in the Genome-wide RNAi Screening of Early Embrogenesis in *Caenorhabditis elegans*  
 Research Mentor: Daniel Needleman  
 Research Institution: Harvard University  
 Home Institution: Syracuse University  
 Co-Authors: Daniel Needleman, Reza Farhadifar and Omer Mano, Harvard University Arts and Sciences

**Jacob Layer, 67 ..... 8:45-9:45 AM**

Presentation Title: Localizing CDK12 to Notch Target Genes  
 Research Mentor: Hongfang Wang  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Indiana University Purdue University  
 Co-Authors: Jon Aster and Hongfang Wang, Harvard University Div. of Medical Sciences

**Karico Left Hand, 118..... 9:45-10:45 AM**

Presentation Title: Radon in Apsaalooke (Crow) Country  
 Research Mentor: Neva Tall Bear  
 Research Institution: Montana State University-Bozeman  
 Home Institution: Little Big Horn College  
 Co-Authors: Neva Tall Bear, Little Big Horn College

**Joshua Leggette, 107 ..... 8:45-9:45 AM**

Presentation Title: Calix[4]arene and the Fluorescence Sensing of Heavy Metal Ions  
 Research Mentor: Galina Talanova  
 Research Institution: Howard University  
 Home Institution: Tougaloo College  
 Co-Authors: Vladimir Talanova and Galina Talanova, Howard University

**Jessica Leonard, 82..... 9:45-10:45 AM**

Presentation Title: Psychic in the Classroom: The Effect of Teacher Expectations on Student Outcomes  
 Research Mentor: James Wyckoff  
 Research Institution: University of Virginia School of Education  
 Home Institution: Tuskegee University  
 Co-Authors: James Wyckoff, Daphna Bassok and Thomas Dee, University of Virginia - Education Sciences

**Nadia Leonard, 108..... 9:45-10:45 AM**

Presentation Title: Reactivity Studies of Organometallic Iron Complexes toward Catalytic Transformations  
 Research Mentor: Theodore Betley  
 Research Institution: Harvard University  
 Home Institution: Brown University  
 Co-Authors: Theodore Betley and Graham Sazama, Harvard University Arts and Sciences

**Jie Bin Liu, 23 ..... 8:45-9:45 AM**

Presentation Title: Regulation of Survivin Expression by Rapamycin in High-risk Neuroblastoma  
 Research Mentor: Rachel Altura  
 Research Institution: Brown University  
 Home Institution: Colby College  
 Co-Authors: Rachel Altura, Ayman Samkari and Zachary Cooper, Brown University

**Patrick Loftus, 24 ..... 9:45-10:45 AM**

Presentation Title: Inflammation Response in Microfluidic Lung-On-A-Chip Devices  
 Research Mentor: Donald Ingber  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: University of Utah  
 Co-Authors: Jacob Fraser, Lori McPartlin and Donald Ingber, Harvard University Div. of Medical Sciences

**Jessica Long Knife, 40 ..... 9:45-10:45 AM**

Presentation Title: I See Dots, What Do They Mean?  
 Research Mentor: Brian Bothner  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Fort Belknap College  
 Co-Authors: Brian Bothner, Walid Maaty and Patricia Mathabe, Montana State University

**Paloma Lopez, 111 ..... 8:45-9:45 AM**

Presentation Title: Characterization of a Novel Red-pigmented Bacterium Isolated from a Large Hailstone  
 Research Mentor: John Priscu  
 Research Institution: Montana State University -Bozeman  
 Home Institution: UC Santa Cruz  
 Co-Authors: Alexander Mlchaud and John Priscu, Montana State University

**Lumena Louis, 61 ..... 8:45-9:45 AM**

Presentation Title: Death of the O-GlcNAc Transferase Knockout; Clues to the Essential Roles of O-GlcNAc!  
 Research Mentor: Natasha Zachara  
 Research Institution: Johns Hopkins University  
 Home Institution: Brooklyn College CUNY  
 Co-Authors: Natasha Zachara and Rubi Luna, Johns Hopkins University

**Saima Machlovi, 6 ..... 9:45-10:45 AM**

Presentation Title: The Role of the Perirhinal and Postrhinal Cortices in a Complex Discrimination Task  
 Research Mentor: Rebecca Burwell  
 Research Institution: Brown University  
 Home Institution: Hunter College  
 Co-Authors: Catherine Wilson, Hunter College; Rebecca Burwell, Brown University

**Wilnelia Medina, 32..... 9:45-10:45 AM**

Presentation Title: Is Cortical Demyelination Specific to Multiple Sclerosis?  
 Research Mentor: Enrique Alvarez  
 Research Institution: Washington University in St. Louis  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Enrique Alvarez, Washington University in St. Louis

**Ariel Meilich, 81..... 8:45-9:45 AM**

Presentation Title: The Role of Reinforcement Learning in Controlled Retrieval  
 Research Mentor: David Badre  
 Research Institution: Brown University  
 Home Institution: Hunter College  
 Co-Authors: Jason Scimeca and David Badre, Brown University

**Anabel Miguelez, 9 ..... 8:45-9:45 AM**

Presentation Title: The Effect of Catheter Diameter and Injection Speed on the Viability of Human Bone Marrow Mesenchymal Stem Cells  
 Research Mentor: Dileep Yavagal  
 Research Institution: University of Miami  
 Home Institution: University of Miami  
 Co-Authors: Dileep Yavagal, Phillip Garza and Steven Amatangelo, University of Miami

**Amar Mirza, 8 ..... 9:45-10:45 AM**

Presentation Title: Characterization of the Epidermal Growth Factor Receptor Exon 19 Insertion  
 Research Mentor: Michael Eck  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: University of Georgia  
 Co-Authors: Michael Eck and Eunyoung Park, Harvard University Div. of Medical Sciences

**Athalia Morrison, 115 ..... 8:45-9:45 AM**

Presentation Title: Isolation, Cultivation and Characterization of Extremophilic Algae for Biofuels Production  
 Research Mentor: Rich Macur  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Little Big Horn College  
 Co-Authors: Rich Macur, Montana State University

**Alyssa Moudy, 87 ..... 8:45-9:45 AM**

Presentation Title: The Link Between Parenting Practices and the Perpetration of Violence in Adolescents: Moderation by Family Characteristics  
 Research Mentor: Patrick Tolan  
 Research Institution: University of Virginia School of Education  
 Home Institution: Davidson College  
 Co-Authors: Shannon Varga, Angela Henneberger and Patrick Tolan, University of Virginia - Education Sciences

**Khabir Muhammad, 30 ..... 9:45-10:45 AM**

Presentation Title: Causality of Memory Loss in Epilepsy Patients  
 Research Mentor: Vernon Leo Towle  
 Research Institution: University of Chicago  
 Home Institution: Morehouse College  
 Co-Authors: Vernon Leo Towle, Eli Albert and Carly Berg, University of Chicago

**Suresh Nayar, 18..... 9:45-10:45 AM**

Presentation Title: Quantitative Analysis of Immunohistochemistry Staining of Yes-Associated Protein Expression in Biliary Dysplasia  
 Research Mentor: Robert Anders  
 Research Institution: Johns Hopkins University  
 Home Institution: Grinnell College  
 Co-Authors: Robert Anders, Haibo Bai and Mehtab Khan, Johns Hopkins University

**Antoinette Nelson, 15 ..... 8:45-9:45 AM**

Presentation Title: The Effects of Physicochemical Properties of Nanoparticles on Airway Epithelium  
 Research Mentor: Ramana Sidhaye  
 Research Institution: Johns Hopkins University  
 Home Institution: SUNY Stony Brook  
 Co-Authors: Ramana Sidhaye and Eric Chau, Johns Hopkins University

**Janice Nieves, 25 ..... 8:45-9:45 AM**

Presentation Title: Co-Culture between Mesenchymal Stem Cells (MSC) and Cardiac Side Population (CSP) Cells towards Promoting CSP Viability against Stress  
 Research Mentor: Ronglih Liao  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: UPR-Cayey  
 Co-Authors: Yiling Qiu and Ronglih Liao, Harvard University Div. of Medical Sciences

**Tyler Pankratz, 109 ..... 8:45-9:45 AM**

Presentation Title: The Effects Of Imazapic on Blue Bunch Wheat Grass  
 Research Mentor: Jane Mangold  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Fort Belknap College  
 Co-Authors: Jane Mangold, Montana State University

**Danelvis Paredes Taveras, 13 ..... 8:45-9:45 AM**

Presentation Title: The Study of the Site of Action of GDNF in Enhancing Regeneration after Axonal Injury Utilizing In vitro Microfluidic Platforms  
 Research Mentor: Nitish Thakor  
 Research Institution: Johns Hopkins University  
 Home Institution: UPR-Mayaguez  
 Co-Authors: Nitish Thakor and Rezina Siddique, Johns Hopkins University

**Christina Parker, 26..... 9:45-10:45 AM**

Presentation Title: Assessing Gene Expression in Sarcomas in Mouse Skeletal Muscle  
 Research Mentor: Amy Wagers  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Amy Wagers and Simone Hettmer, Harvard University Arts and Sciences

**Iymaan Pinkman, 3..... 8:45-9:45 AM**

Presentation Title: Biochemical Activities of the Mitochondrial Sirtuin, SIRT5 and Modulation by Small Molecules  
 Research Mentor: Anthony Sauve  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Delaware State University  
 Co-Authors: Anthony Sauve and Dou Yeon Youn, Weill Cornell Graduate School of Medical Sciences

**Odis Ponce, 74..... 9:45-10:45 AM**

Presentation Title: Interaction of Ddc1 and Dpb11 in the DNA Damage Checkpoint Signaling in *Saccharomyces cerevisiae*  
 Research Mentor: Marcus Smolka  
 Research Institution: Cornell University  
 Home Institution: Cornell University  
 Co-Authors: Marcus Smolka, Cornell University

**Nicholas Popp, 62 ..... 9:45-10:45 AM**

Presentation Title: The Role of ATP Hydrolysis in the Dissociation of UvrA Dimer in Nucleotide Excision Repair  
 Research Mentor: David Jeruzalmi  
 Research Institution: Harvard University  
 Home Institution: University of Chicago  
 Co-Authors: David Jeruzalmi and Danaya Pakotiprapha, Harvard University Arts and Sciences

**Valencia Potter, 48 ..... 9:45-10:45 AM**

Presentation Title: Determining the Mechanism of the Trpc6 Mutation in the Upregulation of Calcium Ions in the Wnt Pathway in Focal and Segmental Glomerulosclerosis  
 Research Mentor: Katherina Walz  
 Research Institution: University of Miami  
 Home Institution: Xavier University of Louisiana  
 Co-Authors: Katherina Walz, University of Miami

**Chelsea Powell, 33..... 8:45-9:45 AM**

Presentation Title: The Interaction of Tmc2 with Potassium Channel Alpha Subunits  
 Research Mentor: Geoffrey Abbott  
 Research Institution: Weill Cornell Graduate School  
 Home Institution: Stanford University  
 Co-Authors: Geoffrey Abbott and William Harkcom, Weill Cornell Graduate School of Medical Sciences

**Laura Powell, 17..... 8:45-9:45 AM**

Presentation Title: Characterization of Disulfide Bond Formation Pathways in *Francisella novicida*  
 Research Mentor: Barbara Mann  
 Research Institution: University of Virginia School of Medicine  
 Home Institution: University of Delaware  
 Co-Authors: Barbara Mann, University of Virginia - BioMedical Sciences

**Meenakshi Prajapati, 56 ..... 9:45-10:45 AM**

Presentation Title: Regulation of Mitochondria Motility in Neurons by O-GlcNAc Transferase  
 Research Mentor: Thomas Schwarz  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: University of Arkansas at Fayetteville  
 Co-Authors: Thomas Schwarz and Gulcin Pekkurnaz, Harvard University Div. of Medical Sciences

**Blaine Radley, 52..... 9:45-10:45 AM**

Presentation Title: Differential Expression of Transcription Factors Seen in PAU Genes while Under Hypoxic Conditions  
 Research Mentor: Fred Winston  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: Morehouse College  
 Co-Authors: Fred Winston and Daniel Spatt, Harvard University Div. of Medical Sciences

**Zachariah Reagh, 90 ..... 9:45-10:45 AM**

Presentation Title: Categorical Modulations of Steady State Visual Evoked Potentials  
 Research Mentor: Bruce McCandliss  
 Research Institution: Vanderbilt University  
 Home Institution: University of Alabama-Birmingham  
 Co-Authors: Yuliya N. Yoncheva and Bruce D. McCandliss, Vanderbilt University



**Anna Rhoad, 80 ..... 9:45-10:45 AM**

Presentation Title: Relation of Language and Social Skills: Boys versus Girls  
 Research Mentor: Andy Mashburn  
 Research Institution: University of Virginia School of Education  
 Home Institution: Northwestern University  
 Co-Authors: Anita McGinty and Andy Mashburn, University of Virginia - Education Sciences

**Rhea Richardson, 63 ..... 8:45-9:45 AM**

Presentation Title: Petal Spur Evolution and Development in Aquilegia  
 Research Mentor: Elena Kramer  
 Research Institution: Harvard University  
 Home Institution: University of Kansas  
 Co-Authors: Joshua Puzey and Elena Kramer, Harvard University Arts and Sciences

**Mariel Rios, 10 ..... 9:45-10:45 AM**

Presentation Title: The Effects of Rapamycin Treatment on Tsc1-deficient Neurons in the Thalamus  
 Research Mentor: Mark Zervas  
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 Home Institution: New York University  
 Co-Authors: Elizabeth Normand and Mark Zervas, Brown University

**Bianshly Rivera Rivero, 69 ..... 8:45-9:45 AM**

Presentation Title: The Role of Cardiac ATP-sensitive Potassium (KATP) Channels in Metabolism and Oxygen Sensing  
 Research Mentor: Elizabeth McNally  
 Research Institution: University of Chicago  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Elizabeth McNally and John P. Fahrenbach, University of Chicago

**Gaberiella Robinson, 34 ..... 9:45-10:45 AM**

Presentation Title: Functions of Protocaherin-1 in Chickens to Assemble Cells into Tissues  
 Research Mentor: Roger Bradley  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Montana State University -Bozeman  
 Co-Authors: Roger Bradley, Montana State University

**Yesenia Roman-Lopez, 117 ..... 8:45-9:45 AM**

Presentation Title: Breastfeeding Patterns and their Relation with Socio-demographic Factors in American Samoa  
 Research Mentor: Stephen McGarvey  
 Research Institution: Brown University  
 Home Institution: UPR-Rio Piedras  
 Co-Authors: Stephen McGarvey and Nicola Hawley, Brown University

**Miguel Roque, 44 ..... 9:45-10:45 AM**

Presentation Title: Molecular Basis for Ligand Specificity in the Mammalian Olfactory System  
 Research Mentor: Stephen Liberles  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: SUNY Binghamton  
 Co-Authors: Stephen Liberles and David Ferrero, Harvard University Div. of Medical Sciences

**Jose Rosales-Chavez, 88 ..... 9:45-10:45 AM**

Presentation Title: Assessment of Physical Activity Patterns among American Samoa Children Ages 9-12  
 Research Mentor: Stephen McGarvey  
 Research Institution: Brown University  
 Home Institution: University of San Diego  
 Co-Authors: Stephen McGarvey, Brown University

**Daniel Sandoval, 51 ..... 8:45-9:45 AM**

Presentation Title: Characterizing Mutants in the Self Versus Non-Self Recognition Pathway of *Proteus mirabilis*  
 Research Mentor: Karine Gibbs  
 Research Institution: Harvard University  
 Home Institution: UC Irvine  
 Co-Authors: Karine Gibbs, Nora Sullivan and Andrew Fields, Harvard University Arts and Sciences

**Oscar Sandoval, 100 ..... 9:45-10:45 AM**

Presentation Title: The Development and Testing of Cheap Photovoltaic Cells for their Incorporation in LED and UV Lighting Systems for their Use in Less Developed Countries  
 Research Mentor: Gary Harris  
 Research Institution: Howard University  
 Home Institution: California State Polytechnic University, Pomona  
 Co-Authors: Gary Harris and William Rose, Howard University

**Bella Sarjoh, 102 ..... 9:45-10:45 AM**

Presentation Title: Molecular Mechanism of HIV  
Induced Dementia: Cloning and Expression of  
Recombinant Tat and NMDA Receptor Proteins  
Research Mentor: Mario Amzel  
Research Institution: Johns Hopkins University  
Home Institution: Trinity College  
Co-Authors: Mario Amzel, Mario Bianchet and Anita  
Ghosh, Johns Hopkins University

**Michka Sharpe, 64 ..... 9:45-10:45 AM**

Presentation Title: Investigation of an Internal Latency  
Associated Nuclear Antigen (LANA) Region  
Critical for Kaposi's Sarcoma-Associated Virus  
(KSHV) Episome Persistence  
Research Mentor: Kenneth Kaye  
Research Institution: Harvard University, Division of  
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Home Institution: Emory University  
Co-Authors: Kenneth Kaye and De LeÛn VasquËz,  
Harvard University Div. of Medical Sciences

**Jasmine Snoddy, 55 ..... 8:45-9:45 AM**

Presentation Title: Characterization of miR-216a  
Expression and Function during Zebrafish  
Development  
Research Mentor: Jim Patton  
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Home Institution: Claflin University  
Co-Authors: Jim Patton and Abigail Olena, Vanderbilt  
University

**Lukman Solola, 65 ..... 8:45-9:45 AM**

Presentation Title: Role of Sodium-Hydrogen  
Exchangers, NHE9 and NHE6, in Membrane  
Protein Trafficking by Primary Mouse Astrocytes  
Research Mentor: Rajini Rao  
Research Institution: Johns Hopkins University  
Home Institution: Brooklyn College CUNY  
Co-Authors: Rajini Rao, Annisha Hack and Kalyan  
Kondapalli, Johns Hopkins University

**Brockton Starling, 105 ..... 8:45-9:45 AM**

Presentation Title: Global Trends: Using Twitter to  
Track Political Movements  
Research Mentor: Jordan Mulder-Crouser  
Research Institution: Tufts University  
Home Institution: Morehouse College  
Co-Authors: Jordan Mulder-Crouser and Remco  
Chang, Tufts University

**Kendra Teague, 42 ..... 9:45-10:45 AM**

Presentation Title: Identification of Antarctic Isolates by  
Carbon Source Utilization Patterns  
Research Mentor: Christine Foreman  
Research Institution: Montana State University  
-Bozeman  
Home Institution: Montana State University -Bozeman  
Co-Authors: Christine Foreman and Heidi Smith,  
Montana State University

**Charn  Thomas, 11 ..... 8:45-9:45 AM**

Presentation Title: Testing Anti Viral Compounds  
Against Pandemic Influenza Compounds  
Research Mentor: Samita Andreasky  
Research Institution: University of Miami  
Home Institution: Dillard University  
Co-Authors: Samita Andreasky and Darlah Lopez  
Rodriquez, University of Miami

**Jamal Thorne, 106 ..... 9:45-10:45 AM**

Presentation Title: Brain Driven Recommendation  
System  
Research Mentor: Evan Peck  
Research Institution: Tufts University  
Home Institution: Morehouse College  
Co-Authors: Evan Peck and Reco Chang, Tufts  
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**Kumar Tiger, 73 ..... 8:45-9:45 AM**

Presentation Title: Identifying Components of Vg1  
Anchoring Complex  
Research Mentor: Kimberly Mowry  
Research Institution: Brown University  
Home Institution: CSU Dominguez Hills  
Co-Authors: Kimberly Mowry and Erin Powrie, Brown  
University

**Joseph Tillotson, 27 ..... 8:45-9:45 AM**

Presentation Title: Chemical Regulation of MAGE  
Levels in Differentiating Adipocytes  
Research Mentor: Alan Saghatelian  
Research Institution: Harvard University  
Home Institution: Chaminade University of Honolulu  
Co-Authors: Alan Saghatelian and Edwin Homan,  
Harvard University Arts and Sciences

**Ileana Torres, 28..... 9:45-10:45 AM**

Presentation Title: Acute Myocardial Infarction and the Effects of Rapamycin Treatment  
 Research Mentor: Cesario Bianchi  
 Research Institution: Brown University  
 Home Institution: UPR-Aguadilla  
 Co-Authors: Cesario Bianchi, Brown University

**Nathaniel Tucker, 79 ..... 8:45-9:45 AM**

Presentation Title: Utilizing Community Based Participatory Research to Sample Men's Sexual Health on the Fort Peck Reservation  
 Research Mentor: Elizabeth Rink  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Montana State University -Bozeman  
 Co-Authors: Elizabeth Rink, Montana State University

**Ashley Tutson, 29..... 8:45-9:45 AM**

Presentation Title: Determinants of the Health-Related Quality of Life in Patients with Type 2 Diabetes  
 Research Mentor: Wen-Chih Wu  
 Research Institution: Brown University  
 Home Institution: Tougaloo College  
 Co-Authors: Tracey Taveira and Wen-Chih Wu, Brown University

**Shannon Varga, 89 ..... 8:45-9:45 AM**

Presentation Title: The Link Between Family Relationships and Perpetration of Violence in Adolescents: Moderation by Socioeconomic Status and Ethnicity  
 Research Mentor: Patrick Tolan  
 Research Institution: University of Virginia School of Education  
 Home Institution: Montclair State University  
 Co-Authors: Alyssa Moudy, Angela Henneberger and Patrick Tolan, University of Virginia - Education Sciences

**Robert Wardlow II, 66..... 9:45-10:45 AM**

Presentation Title: Structure And Function of E3 Ubiquitin Ligase Mindbomb RING Domain  
 Research Mentor: Stephen C. Blacklow  
 Research Institution: Harvard University, Division of Medical Sciences  
 Home Institution: University of Maryland, Baltimore County  
 Co-Authors: Stephen Blacklow, Sung Hee Choi and Brian McMillan, Harvard University Div. of Medical Sciences

**Charlene Weatherwax, 114..... 9:45-10:45 AM**

Presentation Title: The Vertical Structure of the Atmosphere  
 Research Mentor: Berk Knighton  
 Research Institution: Montana State University -Bozeman  
 Home Institution: Montana State University -Bozeman  
 Co-Authors: Berk Knighton, Montana State University

**Cindi-Ann Williams, 47 ..... 8:45-9:45 AM**

Presentation Title: Dendritic Cell Activation By Immunological Adjuvants Increases IL-12p70 Secretion  
 Research Mentor: Geoffrey Stone  
 Research Institution: University of Miami  
 Home Institution: John Jay College of Criminal Justice CUNY  
 Co-Authors: Geoffrey Stone, James Termini and Sachin Gupta, University of Miami

**Danielle Wright, 45..... 8:45-9:45 AM**

Presentation Title: High-Throughput Single Cell DNA Amplification Using Microfabricated Droplets  
 Research Mentor: Aaron Phillips  
 Research Institution: Tufts University  
 Home Institution: Davidson College  
 Co-Authors: Aaron Phillips, Alexander Sakers and Mael Manesse, Tufts University

## 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 196.

**Andres Matias-Ortiz, PhD**

BA, 1998, CUNY-Hunter College; PhD, 2011, University of Wisconsin Madison

**Carmela Alacantha, PhD**

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

**Juan-Jose Sanchez-Cortes, PhD**

BS, 2005, UPR- Recinto de Río Piedras; PhD, 2011, University of Chicago

**Kristy McMorris, PhD**

BA, 2000, Howard University; PhD, 2011, New York University

**Marta Alaina Holliday, PhD**

BA, 2004, Marymount College of Fordham University; PhD, 2011, University of Iowa

**Mela Ronelle Johnson, PhD**

BS, 2005, UMBC; PhD, 2010, Georgia Institute of Technology

**Nwokedi Chimezie Idika, PhD**

BS, 2005, UMBC; PhD, 2010, Purdue University

**Oni Malaika Mapp, PhD**

BS, 2005, UMBC; PhD, 2010, University of Chicago

**Ryan Gutierrez, PhD**

BS, 2005, Cornell University; PhD, 2011, Stanford University

**Teshell Greene, PhD**

BS, 2005, Pace University of New York; PhD, 2011, University of Pennsylvania

**MD/PhD**

**Calvin Williams, MD-PhD**

BS, 2001, UMBC; PhD, 2009, University of Maryland School of Medicine

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Cheryl Burgan Apprey is beginning her sixth year as Director of Graduate Student Diversity Programs in the Office of the Vice President for Research at the University of Virginia. In this role Dr. Apprey is charged with the recruitment, retention, and mentoring of underrepresented/underserved students into graduate and professional programs. As the Institutional Coordinator of The Leadership Alliance at U.Va., she enjoys working with The Leadership Alliance scholars from universities and colleges from all over the country. Dr. Apprey is dedicated to the support of diversity of the student body at the graduate and professional school level and had a twenty-three year career at Miami University addressing this

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

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Dr. Geneva Baxter is the Associate Dean for Undergraduate Studies at Spelman College, where she 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 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

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Anita Blanco serves as Director of Diversity Recruitment and Engagement in the Genetics Department of Stanford University's School of Medicine. In this capacity, Ms. Blanco seeks to increase the diversity of doctoral and post-doctoral students engaged in research related to genetics and genomics. She serves as a strong advocate for diverse doctoral applicants when participating in the application review process and determining offers of admission. Professionally, she has 13 years of experience in increasing and fostering diversity in academia. She has also served on numerous Boards of Directors at local, state, and national levels with various nonprofits and professional associations. Graduating with a bachelor's

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Dr. Travis Boyce is an Assistant Professor of Africana Studies and Social Sciences at the University of Northern Colorado (UNC). He coordinates the Africana Studies secondary teaching education program. He also serves as the Faculty in Residence for Housing and Residential Education at UNC. Dr. Boyce is a specialist in African American educational history, African American contemporary history and African American leadership. His research includes the history of African American college presidents and Historically Black Colleges and Universities (HBCUs) during the era of the Civil Rights Movement and the Cold War. A 2001 Yale University SR-EIP fellow, Dr. Boyce received his B.A degree

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Lawrence (Skip) Brass, MD PhD is a graduate of Harvard College and Case Western Reserve University, where he received his MD and a PhD in biochemistry. Dr. Brass was a fellow in Hematology-Oncology at the University of Pennsylvania where he served as Vice Chair for Research in the Department of Medicine from 2004 to 2007, and is currently Professor of Medicine and Pharmacology. He became Associate Dean and Director of Penn's Medical Scientist Training Program in 1998. Dr. Brass is active at the national level in the development of training programs for physician-scientists, and has served as President of the National Association of MD-PhD Programs and Chair. Dr. Brass's research interests

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*Harvard University*

Liza Cariaga-Lo is Assistant Provost for Faculty Development and Diversity at Harvard University. She was previously Assistant Dean at the Yale Graduate School of Arts & Sciences and the Director of the Office for Diversity and Equal Opportunity, as well as Clinical Professor, Child Study Center at Yale School of Medicine. She received her master's and doctorate in Education and Developmental Psychology from Harvard University. Besides teaching courses related to minority health and developmental psychology, Dr. Cariaga-Lo has also taught African American Studies and Asian American Studies courses and consults widely on cultural diversity and multicultural education issues.

Her areas of research include education program evaluation, minority student development, ethnic minority health care, and public policy affecting children and families. She has just completed work on a book about the identity development of Asian Americans and is working on a children's book about growing up in a multicultural environment.



### **Jade J. Carter**

*Ventura County Sheriff's Office, Forensic Sciences Laboratory*

Dr. Jade J. Carter is a Forensic Scientist in the Forensic Biology Section of the Ventura County Sheriff's Office Forensic Sciences Laboratory in Ventura, CA. In her position, she performs DNA analysis on items of evidence that have been submitted by law enforcement personnel throughout Ventura County. As a result of her work, Jade has contributed to the identification of eleven suspects that were involved in criminal acts since she began casework in June 2010. She has completed over 70 cases within a one-year time period and is biannually tested for proficiency in experimental procedures. She has been trained in crime scene analysis and reconstruction and volunteers to assist in crime scene processing and analysis.

In addition, she serves as a provisional member of the California Association of Criminalists. A 2001 Brown University SR-EIP fellow, Dr. Carter received her B.S. degree in Chemistry from Chestnut Hill College in 2002 and a Ph.D in Pathobiology from Brown University 2008. She was also a Postdoctoral Fellow at the Biomanufacturing Research Institute and Technology Enterprise (BRITE) Program at North Carolina Central University in Durham, NC.



### **David J. Castro**

*Nalco Company*

Dr. David Castro graduated from the University of Puerto Rico-Río Piedras with a Bachelor's Degree in Chemistry. In 2005, he defended his Ph.D. dissertation titled "Collisions and Reactions of n-Propanol with Liquid NaOH/KOH" in Physical Chemistry at the University of Wisconsin-Madison. Since then, he has been working as a Senior Chemist in the Grade Innovations division of the Pulp and Paper, Research and Development department at Nalco. As part of his duties, he designs and conducts experiments to study the effects of novel chemistries in the production efficiency of paper and the properties of the final product. Two specific areas of his current research focus on paper printability and sizing (the ability of

the paper to repel hydrophilic liquids). Mr. Castro is part of five Memoranda of Invention within Nalco.



### **Kathie Coreder-Caban**

*Loma Linda University*

Kathia Cordero-Cabán is an MD-PhD student at Loma Linda University School of Medicine. She completed her first two years of medical school and successfully passed the USMLE Step 1. She is now in her second year of PhD in physiology and is studying for her comprehensive exams. She has been the local chapter AMSA president of Loma Linda University School of Medicine for three years. Mrs. Cordero-Cabán received her B.S. from University of Puerto Rico at Mayagüez and University of Massachusetts-Amherst. She currently works in Dr. Marino de León Laboratory at the Center for Health Disparities and Molecular Medicine of Loma Linda University School of Medicine. For her PhD thesis

project, she is studying the possible protective roles of docosahexaenoic acid, an omega-3 fatty acid, in a neurodegeneration model of spinal cord injury in rats.



### **Liv Detrick**

*Institute for Broadening Participation*

Liv Detrick is Assistant Director of the Institute for Broadening Participation, and Project Manager for IBP's NASA One Stop Shop Initiative (OSSI) project. Liv coordinates OSSI-related recruitment activities, assists students in completing their applications, and coordinates activities to increase faculty networking and student/faculty awareness of OSSI. She works closely with IBP's other project managers and Regional Specialist team to coordinate recruitment and outreach, and plays a leading role in designing and creating IBP materials. Additionally, Liv contributes to grantwriting and project development at IBP, and serves as IBP's web developer. Liv has a BS in Environmental Studies from

Mount Holyoke College and an MS in Geography from Penn State University.



### **Christopher Downing, Jr.**

*Virginia Tech*

Christopher Downing, Jr. is a fifth-year graduate student in Virginia Tech's Industrial/Organizational Psychology Program. At Tech, he serves as a graduate mentor and advisor to undergraduate students. During the summer, he works as a graduate assistant for MAOP (Multicultural Academic Opportunities Program) to help prepare and encourage underrepresented students to attend graduate school. Christopher received his B.S. degree from Delaware State University and his M.S. degree from Virginia Tech. He is currently working on his Ph.D. degree and enjoying his responsibilities as a graduate teacher to the undergraduate population.



### **Tiffani Fonseca**

*American Society for Microbiology*

Tiffani Fonseca is the Fellowship Programs Coordinator in the Education Department of the American Society for Microbiology (ASM). She is responsible for five fellowship programs: the ASM/CDC Postdoctoral Research Fellowship, the ASM Robert D. Watkins Graduate Fellowship, the ASM Undergraduate Research Fellowship, the ASM-Undergraduate Research Capstone, and the ASM Undergraduate Teaching Fellowship. Prior to working at ASM, she was the Outreach and Production Specialist/Program Coordinator at the Kuwait America Foundation and its affiliate (the Embassy of the State of Kuwait). Fonseca holds dual bachelor's degrees in Cognitive and Experimental Research

in Psychology and Intercultural Communications. She has studied abroad in Accra, Ghana, and Roatan, Honduras, and conducted extensive research on blindsight, Parkinson's disease, Alzheimer's disease, and for the National Survey of Student Engagement Report among others.



### **Bianca L. Garner**

*Tougaloo College*

Dr. Bianca L. Garner is an Associate Professor and Chair of the Biology Department at Tougaloo College. Dr. Garner serves on numerous Task Forces at Tougaloo College, including the Honors Program and the Graduate Students. Dr. Garner is an undergraduate advisor, teaching core and advance biology courses and is the faculty co-sponsor of Beta, Beta, Beta. She is involved in grant submissions for the Natural Science Division, including the 2011 NSF STEM Scholarship and the Howard Hughes Medical Institute Initiatives for Universities. She is the recipient of a Mississippi IDEa Networks of Biomedical Research Excellence (INBRE) grant for research entitled "Iron Regulation of Bacillus

Physiology" and the recipient of a Research Infrastructure for Minority Serving Institutions Mini-grant for "Iron Acquisition System Regulation in Bacillus cereus Group". She currently mentors 4 undergraduate and one graduate student in biomedical research. In 2011, Dr. Garner was the recipient of the President's Outstanding Junior Faculty Teaching Award.





### **Leislle Godo-Solo**

*Institute for the Recruitment of Teachers*

Leislle 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.



### **Michelle M. Grundy**

*Vanderbilt University*

Dr. Michelle M. Grundy, Assistant Professor of Medical Administration, serves as Assistant Director of Graduate Programs in Biomedical Sciences. Dr. Grundy earned her Ph.D. in 2000 from the Department of Microbiology and Immunology at Vanderbilt. Dr. Grundy is responsible for student recruitment and directs the admissions process for their Ph.D. programs and M.D./Ph.D. Program. Dr. Grundy also serves as Director of the Vanderbilt Summer Science Academy which provides a structured environment for undergraduate students participating in summer research at Vanderbilt.

The Summer Academy has proven to be a useful tool in recruiting students to the Interdisciplinary Graduate Program and the Chemical and Physical Biology Program which are both Ph.D.-track training programs.

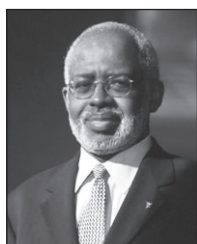


### **Robert Harper-Mangels**

*Yale University*

Robert Harper-Mangels has served as Assistant Dean of the Graduate School since 2006. His responsibilities include the academic affairs of the graduate programs in the Sciences and Engineering, as well as Anthropology, Linguistics, Psychology, and Statistics. He is the campus advisor for graduate and professional students applying to the Fulbright student award, the Fulbright-Hays Doctoral Dissertation Research Award, and the National Science Foundation Graduate Research Fellowship Program, as well as liaison to the Graduate Student Assembly. Dean Harper-Mangels earned his

B.A. in Music and Psychology at Wesleyan University and a Ph.D. in Neuroscience and Behavior at the University of Massachusetts at Amherst. Before coming to Yale, he served as Assistant Director of the Northwestern University Institute for Neuroscience.



### **George Hill**

*Vanderbilt University*

George C. Hill, Ph.D. is the Levi Watkins, Jr. Professor and Associate Dean for Diversity in Medical Education at Vanderbilt University School of Medicine. He has primary responsibility for stimulating and coordinating efforts to increase diversity at Vanderbilt University School of Medicine. He is also continuing his research as a Professor in the Department of Microbiology and Immunology. He was an NIH Research Fellow at the University of Cambridge, Cambridge Great Britain in 1972, and a Fulbright Fellow to the University of Nairobi, Nairobi Kenya in 1982. He was elected a member of the Institute of Medicine of the National Academy of Sciences in 1998 and a Fellow of the American Academy of

Microbiology in 2002. NIH, NSF, and the Department of the Army have funded Dr. Hill's research. Dr. Hill received his Ph.D. from New York University working on the electron transport systems in African trypanosomes with Dr. Seymour Hutner.





### **Mark Hernandez**

*University of Colorado at Boulder*

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



### **Karen Jackson-Weaver**

*Princeton University*

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



### **Marcus B. Jones**

*J. Craig Venter Institute (JCVI)*

Dr. Marcus Jones is a staff scientist within the Infectious Disease group at JCVI, where his research interests include characterizing host-pathogen interactions and antibiotic resistance. Dr. Jones is also responsible for managing a section of a research contract from the Pacific Northwest National Laboratory for characterizing the transcriptome of *Yersinia pestis* and *Salmonella enterica*. Dr. Jones received his B.S. degree at Southern University and A&M College in Baton Rouge, LA in 2000, and his Ph.D. in Microbiology in 2005, studying in the laboratory of Dr. Martin J. Blaser in The Sackler Institute at New York University School of Medicine. Dr. Jones did his post-doctoral training at The Institute for Genomic Research (TIGR) from 2005-2006 in the laboratory of Dr. Scott N. Peterson in the Pathogen Functional Genomics Resource Center (PFGR).



### **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.



### **Meghan Kirksey**

*New York Presbyterian Hospital - Weill Cornell*

Meghan Kirksey is in her final year of the Anesthesiology Residency Program at New York Presbyterian Hospital - Weill Cornell. She will begin fellowship training in Critical Care Anesthesiology at New York Presbyterian Hospital - Columbia University Medical Center in 2012. Meghan is a graduate of the Weill-Cornell/Memorial Sloan-Kettering/Rockefeller University Tri-Institutional MD-PhD Program where she completed her PhD research in infection biology in the laboratory of Dr. John McKinney at The Rockefeller University. As a graduate student, she studied infectious diseases in Salvador, Brazil as a Fulbright Scholar. She began her undergraduate studies at Bard College at Simon's Rock and earned

her B.S. in Biological Sciences from The University of Maryland Baltimore County (UMBC) where she was a Meyerhoff Scholar and a M.A.R.C. U\*Star Trainee. As an undergraduate, Meghan conducted her senior research project with Dr. Phyllis Robinson at UMBC and participated in summer research at Lancaster University in England through the Fogarty MIRT Program.



### **Lynette Lopes**

*Imagine You lc*

Lynette Lopes is the President/Founder of Imagine You lc (Life Coaching), a personal transformation training firm founded in 2000; dedicated to positively and profoundly impacting clients' lives, through specialized individual or group coaching, workshop facilitation, presentation skill development, motivational speaking, image consultation, mentoring and training development programs, thus empowering them to positively impact their families, workplaces and communities. Lynette holds a B.A. in Communications and Management (concentration in public speaking) from Rhode Island College, and a Training & Development Certification from Bryant University, and Trained Co-Active Coach

from Coaches Training Institute (CTI). She is a United States Coast Guard Auxiliary Staff Officer and Certified Instructor, National Urban League Guild Eastern Regional Coordinator (12 states) and former host of "Able Too" Television talk show. As a Licensed Optician, Lynette has traveled worldwide including Albania, Bangladesh, Tunisia, Mexico, Singapore, Taipei and Switzerland, providing eyeglasses to the underprivileged with the Give The Gift of Sight program.



### **Joseph Marlin**

*NYU School of Medicine*

Joseph Marlin is a fourth-year MD-PhD student at NYU School of Medicine, and is working in the laboratory of Dr. Moses Chao. His research project focuses on the role of neurotrophin signaling in the plasticity of inhibitory synapses. In 2008, Joseph received his B.A. in Molecular and Cell Biology and his B.S. in Chemistry from the University of California, Berkeley. Currently, Joseph is acting as a counselor for the NYU Summer Undergraduate Research Program, which is under the directorship of Dr. Joel Oppenheim. This is Joseph's fourth appearance in the Leadership Alliance National Symposium; his first was in 2007.



### **Joeli Marrero, PhD**

*Weill Cornell Medical College*

Joeli Marrero presently is part of a research program at will focused on target identification and drug development against the human pathogen *Mycobacterium tuberculosis* (Mtb). She received her BS in Biology with cum laude honors from the University of Puerto Rico, Cayey. Her passion for research was cultivated during her undergraduate training as she participated in several undergraduate research programs, including the Leadership Alliance Summer Research Early Identification Program. She subsequently was awarded her Ph.D. in Molecular Biology and Microbiology from Tufts University School of Medicine after completing her thesis on prevention of antibiotic resistance transfer among

pathogenic bacteria. Dr. Marrero recently completed her post-doctoral training at the Microbiology and Immunology Department at Weill Cornell Medical College. Her research employs genomics and metabolomics to gain a deeper understanding of Mtb pathogenesis to guide the development of novel chemotherapies. Dr. Marrero is an honored recipient of the Leadership Alliance/ Schering-Plough Fellowship.



### **Keith Micoli**

*New York University School of Medicine*

Keith Micoli is the Postdoctoral Program Director and Ethics Program Coordinator at NYU School of Medicine, where he oversees the appointments and career development training for over 400 postdoctoral scholars working at the Medical Center. Keith received his BA in Biology from New College of Florida and his Ph.D. in Molecular and Cellular Pathology from the University of Alabama at Birmingham. He remained at UAB as a postdoc and Instructor until taking his position at NYU in 2008. While a postdoc at UAB, he served on the Board of Directors of the National Postdoctoral Association, and was Board Chair from 2004-2006. He has served on numerous national committees focused on the

training and recruitment of young scientists, most recently on the National Research Council (NRC) Committee to Study the National Needs for Biomedical, Behavioral, and Clinical Research Personnel, which published its report in 2011.



### **Sharon Milgram**

*National Institutes of Health*

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

dedicated to the career advancement of over 5,000 trainees.



### **Michelle Nearon**

*Yale University*

Dr. Michelle Nearon received her B.S. and M.S. degrees in aerospace engineering from the Massachusetts Institute of Technology and Brooklyn Polytechnic University, respectively. After completing her master's degree she devoted approximately eight years to both the aerospace and automotive industries, beginning as a research engineer and ultimately becoming a general manager. She then returned to academia and received a Ph.D. from Stony Brook University in May 2000 in mechanical engineering. After graduating Dr. Nearon remained at Stony Brook University until June 2008 as an Assistant Professor in the Department of Mechanical Engineering. She also simultaneously

served as the Director of Recruitment and Diversification for the University's College of Engineering and Applied Sciences. Dr. Nearon joined Yale University in July 2008 and is currently an Assistant Dean in the Graduate School and the Director of the Office for Diversity and Equal Opportunity. The Office is committed to promoting diversity and inclusivity and building a supportive graduate school community.



### **Christine O'Brien**

*National Academy of Science*

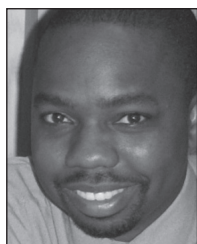
Chris O'Brien has worked at the Fellowships Office of the Policy and Global Affairs Division of the National Academies since the mid-1970's. She has been involved in the administration of numerous fellowship programs, varying in level from predoctoral through postdoctoral and varying by funding source (public and private). Since 1979, Chris has worked primarily on the Ford Foundation Predoctoral, Dissertation, and Postdoctoral Fellowship Programs. The total of Ford Fellowship awards (administered by the National Academies) recently reached 2700. Chris and Joan Rosenthal were co-founders of the Fellowship Roundtable in 1995.



### **Joel Oppenheim**

*New York University School of Medicine*

Dr. Joel D. Oppenheim is a Professor of Microbiology and presently serves as the Senior Associate Dean for Biomedical Sciences and Director of the Sackler Institute of Graduate Biomedical Sciences at NYU School of Medicine. In these positions he oversees all PhD (>300 students) and Postdoctoral (>400) trainees and Research Programs. He serves on the NYU School of Medicine's MD and MD/PhD. Admissions Committees and chairs the Ph.D. Admissions Committee. He is the founder and director of the NYU's Summer Undergraduate Research and Postdoctoral Programs, and the founder of the "What Can You Be With a PhD?" Symposium, the largest university based career development program for predoctoral students and postdoctoral fellows in the country. He has served on many national advisory committees (AAMC, NIH, NRC, NSF, ASM, Leadership Alliance). In 2010 Dr. Oppenheim was the recipient of the AAAS (American Association of the Advancement of Sciences) Life Time Mentoring Award, one of the nations highest mentoring awards.



### **Damani Piggott**

*Johns Hopkins University*

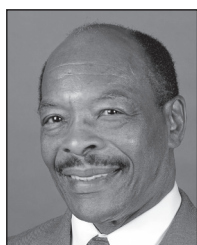
Dr. Damani Piggott is a Postdoctoral Fellow in the Division of Infectious Diseases and Department of Epidemiology at Johns Hopkins University. Dr. Piggott received his B.S. degree in Biology and Spanish from Morehouse College in 1997, and subsequently attained his Ph.D. in Immunology in 2004 and his M.D. degree in 2005 from Yale University. He completed a residency program in Internal Medicine and Pediatrics at Yale New Haven Hospital in 2009. His prior research activities have included the study of CD4 T cell immunity, HIV and syphilis infection within U.S. correctional facilities, and African trypanosomiasis in Mali. He has also served as a volunteer clinician for HIV and HIV/Tuberculosis co-infected patients in South Africa. His current research centers on understanding the epidemiologic and immunologic basis of the intersection of HIV and aging among Injection Drug Users. Dr. Piggott participated in the Leadership Alliance SR-EIP in 1994 and 1995 at Brown University.



### **William Rando**

*Yale University*

William Rando has served as Assistant Dean at Yale's Graduate School of Arts and Sciences and Director of the Graduate Teaching Center since 1998. His responsibilities include: oversight of the Graduate Teaching Center, which provides course support, training, and consultation to teaching fellows and faculty across the University; and oversight of the Associates in Teaching Program which funds undergraduate courses taught by graduate student/faculty member teams. Dean Rando earned his B.A. in English from Boston College and his Ph.D. from the Graduate School of Education and Social Policy at Northwestern University. In previous years, he has served on the faculty of Northeastern University in Boston, and he has directed the Academy for the Art of Teaching at Florida International University in Miami, FL.



### **Roosevelt Ratliff, Jr.**

*Claflin University*

Roosevelt Ratliff, Jr., Professor and Assistant Vice President for Leadership Development, serves as the Director of the Leadership Center, UNCF and National Merit Scholarship Coordinator, and the Leadership Alliance Institutional Coordinator. He is the faculty sponsor for the National Society for Leadership and Success. He also serves on the Executive and Program Advisory Boards of the Alliance. He is the recipient of a Claflin University Presidential Citation, and a certificate presented by the state of South Carolina, House of Representatives for thirty years of distinguished service in higher education. Dr. Ratliff received the B.S. from Alabama State University, Montgomery, Alabama, the M.Ed. from Northeastern Oklahoma State University, the M.A. from the University of Tulsa, and the Ph.D. in Education with a distributive minor in History, Sociology, Anthropology, and Psychology from Stanford University, Stanford, California.





### **David Redman**

*Princeton University*

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



### **Nicole Restruck**

*Social Sciences Research Council*

Nicole Restruck is the Assistant Director of the Abe Fellowship Program, the Japan Program, and the SSRC Korean Studies Dissertation Workshop, as well as the manager of the fellowships office. She is also a senior advisor the Latin American Security, Drugs and Democracy Fellowship. Prior to coming to the SSRC, she worked as an international programs officer at Ritsumeikan University in Kyoto, Japan. She received her master's degree in East Asian studies from Cornell University in 2000. She has been with the Council since 2006. In her position as fellowships manager, she has presented on fellowship programming as an effective tool to build capacity.



### **Alberto Roca**

*MinorityPostdoc.org*

Dr. Alberto Roca was a UC President's Postdoctoral Fellow at the University of California, Irvine. He is Peruvian-American from Houston, Texas; and, he received his Ph.D. in Molecular Biology from the University of Wisconsin-Madison. Funding from a Sloan Foundation grant allowed him to create the web portal MinorityPostdoc.org. He founded the SACNAS Postdoc Committee (2005) and co-founded the NPA Diversity Committee (2003). Dr. Roca has co-chaired many postdoc-related activities at SACNAS conferences and has been an invited speaker at ABRCMS and the Compact for Faculty Diversity's annual Institute on Teaching and Mentoring. In recognition of his achievements, Dr. Roca

has received the UC-Irvine Chancellor's Living Our Values Award as well as the SACNAS Presidential Service Award. Currently, he has been working full-time as a diversity consultant helping graduate students transition to postdoc training and helping grads/postdocs transition to professional positions.



### **Elda Maria Roman**

*Stanford University*

Elda María Román's dissertation "Symbolic Wages and Identity Taxes: Upward Mobility and Middle Class Status in Chicana/o and Black Cultural Production" intertwines literary analysis with the history and sociology of class to examine texts depicting upward mobility and middle class status. Examining a broad range of media from the 1940s to the present, her work illuminates the narrative strategies cultural producers employ to capture immigrant relocation, home ownership, class ascension, and fears over cultural betrayal. A graduate of Brown University, Elda María received her B.A.s in English and Latin American Studies. She has received a Mellon-Mays Undergraduate fellowship, a Ford Pre-doctoral

fellowship, the Beinecke Scholarship, a Mellon Dissertation Fellowship and the Ernesto Galarza Prize for Excellence in Graduate Student Research. She is currently a Graduate-Scholar-In-Residence at Stanford's El Centro Chicano.





### **K. Rashid Rumah**

*Weill Cornell/Rockefeller/Sloan Kettering Tri-I*

Rashid Rumah is a fourth-year MD/ PhD candidate at the Weill Cornell/ Rockefeller/Sloan Kettering Tri-Institutional MD/PhD program in New York City. He received his B.S. degree in Biology from Stanford University in 2006, spent two years as laboratory technician at Stanford, and then continued on to pursue his doctoral degrees at the Tri-I in 2008. Rashid currently studies Multiple Sclerosis, with a particular interest in creating a new animal model for the disease.



### **Ulli K. Ryder**

*Brown University*

Ulli K. Ryder, Ph.D. is an award-winning educator, consultant, writer, editor and thinker. She facilitates discussions of gender, race, ethnicity, identity formation and media to foster diversity and create open dialogue. She earned her Ph.D. in American Studies & Ethnicity from the University of Southern California. She also holds a Master of Professional Writing (USC), a Master of Afro-American Studies (UCLA) and BA from Simmons College in English and African American Studies. Her expertise has been sought by institutions such as the University of Southern California, the University of California – Los Angeles, Loyola Marymount University, the University of Rhode Island, Rhode Island School

of Design and Emerson College. She served as the Senior Editor for Publications at UCLA from 1999-2008. Dr. Ryder is currently a full time faculty member at Simmons College in History and Africana Studies, and has been a Visiting Scholar at Brown University since 2009.



### **Nancy Schwartz**

*University of Chicago*

Dr. Nancy Schwartz is Associate Dean for Postdoctoral Affairs and Co-director of the Office of Graduate Affairs, having served as Dean for Graduate and Postdoctoral Affairs in the Division of Biological Sciences for more than 25 years. She has served on several NIH study sections, foundation review boards and editorial boards, the AAMC-GREAT Steering Committee, Chair of both Graduate Deans and Postdoc Leaders groups, and the Founding Advisory Board of the NPA. She is director of the Kennedy Research Center, the NICHD M.D./Ph.D. training Program, HHMI Med into Grad Program, and NIGMS Post-bac (PREP). She has had continuous NIH R01 research funding, received both a

MERIT award and a Mentor of Excellence from NIH, and is Director of an NIH Program Project and a P30 Center. Dr. Schwartz's functions and responsibilities in graduate and postdoctoral education and program administration have focused on evolving and complex educational needs of emerging researchers in the life sciences.



### **Pamela Scott-Johnson**

*Morgan State University*

Pamela E. Scott-Johnson is Chair and Associate Professor in the Department of Psychology at Morgan State University. Dr. Scott-Johnson's research seeks to examine the gender differences in psychosocial factors that impact health and wellness. She has been an active participant with the American Psychological Association Education and Science Directorates, Project Kaleidoscope/Faculty for the 21st Century, and the Association of Heads of Departments of Psychology (AHDP). She served on a number of review panels within the academic and funding agencies. Prior to her academic affiliations, Dr. Scott-Johnson worked in the food industry as a senior research scientist. Dr. Scott-Johnson held memberships

in the Society for Neuroscience, Faculty for Undergraduate Neuroscience (FUN; councilor), the American Psychological Association, and the Association for Chemoreception Sciences (AChemS). She earned a B.A. degree in Psychology and graduated magna cum laude from Spelman College in 1982, and an M.A. and Ph.D. in Psychology and Neuroscience from Princeton University.



### **Laurel Southard**

*Cornell University*

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

she joined the Office of Undergraduate Biology. In her current position, in addition to directing the programs above, she teaches and advises undergraduate biology majors



### **Patrice Spitalnik**

*Columbia University*

Patrice F. Spitalnik, M.D. is an Associate Professor of Clinical Pathology and Cell Biology at Columbia University College of Physicians and Surgeons. She is the Assistant Director of the M.D-Ph.D Program and teaches general pathology and surgical pathology to second and third year medical students, as well as to M.D-Ph.D students. She is the Section Director of the first year medical student histology course. She recently created a new course for M.D-Ph.D students on "Responsible Conduct of Research" in addition to a new lecture series, "Grand Rounds for Graduate Students". She is interested in medical education related to the interface between basic research and clinical medicine and the training of

physician-scientists. Dr. Spitalnik earned her medical degree from the University of Chicago, and was awarded research fellowships from NIH and the University of Pennsylvania Medical School. She has also been awarded numerous honors for her career in teaching.



### **Howard Stone**

*Princeton University*

Dr. Howard A. Stone is the Donald R. Dixon '69 and Elizabeth W. Dixon Professor in Mechanical and Aerospace Engineering in the School of Engineering and Applied Science at Princeton University. Howard Stone received his B.S. from the UC Davis in 1982 and his Ph.D. in chemical engineering from the Caltech in 1988. He joined the Harvard faculty in 1989 after spending one year as a post-doctoral fellow at Cambridge University. In 2009 he moved to Princeton University. His research interests are in the motions of fluids, and his studies, including experiments and theory, span engineering, physics, chemistry, biology and applied mathematics. At Harvard Howard received the Joseph R. Levenson

Memorial Award for undergraduate teaching and the Phi Beta Kappa Undergraduate Teaching Prize, while at Princeton in 2011 Howard received an Engineering Council Teaching Prize. He is a fellow of the American Physical Society and past chair of the Division of Fluid Dynamics. In 2008 he received the first G.K. Batchelor Prize in fluid dynamics, in 2009 he was elected to the National Academy of Engineering, and in 2011 he was elected to the American Academy of Arts and Sciences.



### **Brian Sullivan**

*Washington University of St. Louis*

Mr. Sullivan is the Executive Director of Washington University's Medical Scientist Training Program. He joined the program in 1994, and was recently named the Executive Director. Mr. Sullivan is a native of Saint Louis, Missouri. He earned an A.B. in Political Science and an M.A. in Spanish from Saint Louis University, and an M.B.A. from Washington University. He developed the Biomedical Research Apprenticeship Program (BioMedRAP) in 2001 to provide summer research opportunities for individuals from disadvantaged backgrounds. Mr. Sullivan is a member of the National Association of Advisors for the Health Professions, the National Associations of MD-PhD Programs, and the Graduate

Research, Education and Training Group of the Association of American Medical Colleges (AAMC). He is a frequently invited to speak on physician-scientist training at colleges across the country.



### **Sheila Thomas**

*Harvard University*

Dr. Sheila Thomas is a faculty member in the Division of Medical Sciences PhD Programs and the Department of Medicine at Harvard Medical School and serves as Assistant Dean for Diversity and Minority Affairs for Harvard University's Graduate School of Arts and Sciences. In her faculty and administrative roles, she teaches and mentors PhD and MD/PhD students as well as undergraduates. Dr. Thomas serves on various committees focused on different aspects of graduate education and is a member of the admissions committees for the Division of Medical Science's PhD programs and Harvard Medical School's MD/PhD program. She previously served as faculty co-director of the Summer Honors

Undergraduate Research Program and is now faculty director of this program. In her new role as Assistant Dean, she oversees the diversity efforts for Harvard University's 57 PhD programs and is committed to creating, identifying and implementing initiatives to diversify the Academy at all levels.



### **Aileen Walter**

*National Action Council for Minorities in Engineering*

Aileen Walter serves as Vice President of University Programs at the National Action Council on Minorities in Engineering (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.



### **Erica Williams**

*Spelman College*

Dr. Erica L. Williams is an Assistant Professor in the Department of Sociology and Anthropology at Spelman College. She completed her Ph.D. in Cultural and Social Anthropology from Stanford University in January 2010, in which she conducted sixteen months of ethnographic research on the sexual and cultural politics of the tourism industry in Salvador, Bahia, Brazil. She earned her M.A. in Cultural Anthropology from Stanford in 2005, and her B.A. in Anthropology and Africana Studies from New York University in 2002. While at NYU, she participated in two Leadership Alliance programs — the SR-EIP at Howard University, and the Alliance International Research for Minority Scholars

(AIRMS) at University of the Western Cape in South Africa. At Spelman, her teaching interests include: Introduction to Anthropology, Cross-Cultural Perspectives on Gender and Sexuality, Sexual Economies, African Diaspora and the World, and the Anthropology of Globalization. Dr. Williams developed and co-directs Spelman's new summer study abroad program in Salvador, Brazil, a five-week program that launched in the Summer of 2011 with nine Spelman students.



### **Cedric L. Williams**

*University of Virginia, National Science Foundation; Directorate of Biological Sciences*

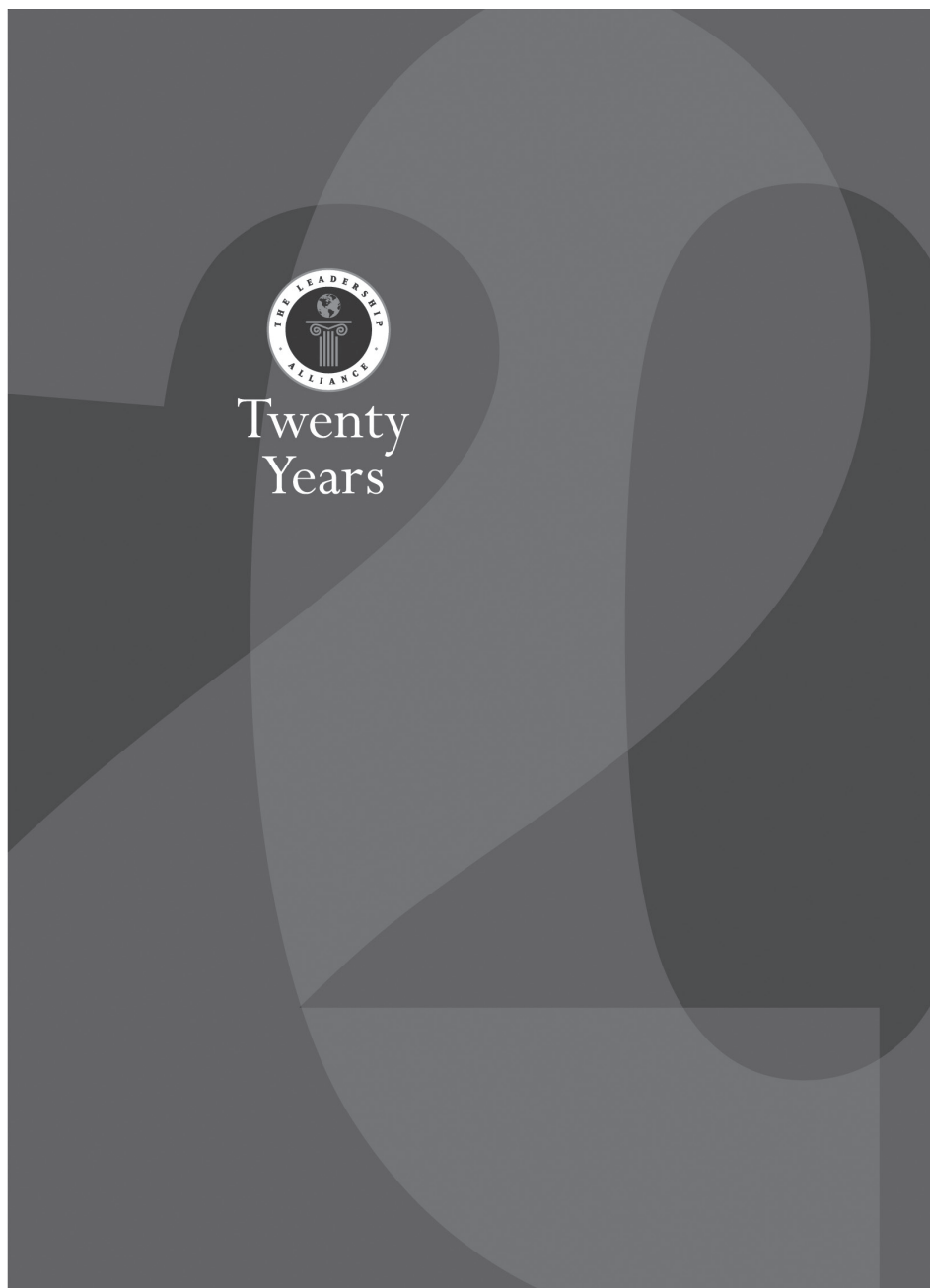
Cedric Williams is a Full Professor in the Department of Psychology and Graduate Neuroscience program. He served as Director of Graduate Programs from 2002-2008, Academic Affairs Committee, Faculty Senate and Chairman of the Committee For Faculty Rules. Dr. Williams is currently on leave and serving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

**John Wilson***Dillard University*

John E. Wilson is Co-Director of Dillard University Minority Health and Health Disparities Research Center and Professor of Biology. Prior to this appointment, Dr. Wilson served as the Dean of the Division of the Natural Sciences and Public Health. He also served as the associated dean in the School of Graduate Studies and Research at Meharry Medical College and associate professor in the Department of Anatomy and Physiology. Dr. Wilson's professional interests have focused on academic counseling and programs that encourage members of underrepresented minority groups to pursue careers in science. Dr. Wilson earned a B.S. in Biology from Clark College, a M.S. in Biology from

Atlanta University, a PhD. in Cell Biology from Tulane University where he was a recipient of an NIH-Predoctoral Fellowship, and completed postdoctoral training at Stanford University and the Institute for Research on Learning where he was a Carnegie Fellow in Science Education.

# SAVE THE DATE: JULY 27–29, 2012



## LEADERSHIP ALLIANCE OUTCOMES: 20 YEARS IN THE MAKING

In 2012, the Leadership Alliance will be celebrating the 20th anniversary of the Summer Research Early Identification Program (SR-EIP)

- Mentoring of over 2000 undergraduates
- Producing nearly 200 PhDs



## THE LEADERSHIP ALLIANCE EXECUTIVE OFFICE STAFF



**Medeva Ghee**

*Executive Director*

Dr. Medeva Ghee, a graduate of North Carolina State University in 1991 with a bachelor's degree in zoology, earned her M.S. and Ph.D. in microbiology in 1997 from New York University School of Medicine. Her postdoctoral research was conducted with a team of CNRS researchers in Paris, France, where she employed biochemical and gene therapy technologies to investigate the impact of protein aggregation in Parkinson's disease. In 2005, Dr. Ghee worked with the William J. Clinton Foundation as a Laboratory Systems Specialist for the HIV/AIDS Initiative. In this capacity, she provided technical assistance and strategic advice on the development of laboratory plans and systems to support national HIV/AIDS prevention care and treatment programs in the Initiative's partner countries in Sub-Saharan Africa. Dr. Ghee joined the Leadership Alliance as the Assistant Director in 2006 and since July 2008, has been Associate Director of the Leadership Alliance, and manager of the executive office staff. In July 2011, Dr. Ghee was appointed Executive Director of the Leadership Alliance.



**Deborah Collins**

*Associate Director*

Dr. Deborah Collins received her Ph.D. in educational research and policy analysis from Virginia Tech in 1984. While at Virginia Tech, she was Co-Director of the Vocational Education Evaluation in Virginia program, which later involved her in the development and funding of two national research projects through the National Center for Research in Vocational Education at Berkley/Virginia Tech. As Co-Project Director, her research focused on longitudinal assessment of vocational enrollment patterns on academic program achievement and postsecondary enrollments. At the same time, she co-directed a research project exploring the linkages between educational evaluation and planning in vocational education. Dr. Collins later collaborated with colleagues in the sociology department to create and administer Virginia Tech's Center for Survey Research, through which she worked with researchers and policy analysts across multiple disciplines to pursue and support funded research and regional public policy initiatives. In 1997, she came to Brown University as the Director of Research and Evaluation, leading two cycles of research activities for the Regional Educational Laboratory at Brown University (LAB). During her tenure at The Education Alliance, the Research and Evaluation division annually fielded up to 20 contract and grant initiatives, including multi-year national research awards through NSF, NIH and the U.S. Department of Education.



**Barbara Kahn**

*Coordinator for Graduate and Undergraduate Programs*

Barbara Kahn is the Coordinator for Graduate and Undergraduate Programs for the Leadership Alliance. In this capacity, she coordinates the combined application process for the 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.

### **SYMPOSIUM 2011 PLANNING COMMITTEE**

|                            |                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Liza Cariaga-Lo<br>(Chair) | Assistant Provost for Faculty Development & Diversity<br>Harvard University                                                                                 |
| Earnestine Baker           | Assistant to the Vice President, Institutional Advancement<br>Executive Director, Meyerhoff Scholarship Program<br>University of Maryland, Baltimore County |
| Jabbar Bennett             | Assistant to the Dean of Recruiting & Professional Development,<br>Graduate School<br>Brown University                                                      |
| Arnaldo Diaz               | Coordinator of Recruitment & Special Programs,<br>Biomedical Graduate Studies<br>University of Pennsylvania                                                 |
| Maria DoVale               | Executive Assistant/Project Coordinator<br>Leadership Alliance Executive Office                                                                             |
| Jerainne Johnson           | Guest Researcher<br>National Institute of Standards and Technology (NIST)                                                                                   |
| Patricia Lee-Robinson      | Associate Professor of Biology<br>Chaminade University of Honolulu                                                                                          |
| Marjorie Old Horn          | Director of AIRO Program<br>Montana State University–Bozeman                                                                                                |
| David Redman               | Associate Dean for Academic Affairs<br>Princeton University                                                                                                 |

### **LEADERSHIP ALLIANCE STAFF**

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| 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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## MEMBER INSTITUTIONS

Brooklyn College  
Brown University  
Chaminade University of Honolulu  
Claflin University  
Columbia University  
Cornell University  
Dartmouth College  
Dillard University  
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Howard University  
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University of Maryland, Baltimore County  
University of Miami  
University of Pennsylvania  
University of Puerto Rico  
University of Virginia  
Vanderbilt University  
Washington University in St. Louis  
Xavier University of Louisiana  
Yale University



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

## EXECUTIVE OFFICE

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