

Mentoring + Commitment =

Pathways to Success



The Leadership Alliance National Symposium

Hilton Stamford Hotel & Executive Meeting Center

Stamford, Connecticut

July 24-26, 2015

20th Anniversary

Welcome to the 2015 Leadership Alliance National Symposium



Medeva Ghee
Executive Director

Welcome to the 20th Annual Leadership Alliance National Symposium! This conference is quite significant for me as I attended the first national symposium as a graduate student in 1995. While the conference was an invigorating experience then, I continue to be inspired each year, alongside subsequent generations of scholars and researchers whose technological and scholarly advances are poised to address global 21st century challenges.

As I reflect on my participation at the inaugural symposium, I remember fondly the sense of community. We had the opportunity to showcase our research and network with like-minded scholars from across the country. This experience motivated me to continue pursuing excellence within my graduate program, equipped me with a sense of belonging, affirmed my identity as a scientist, despite my cultural background, and most importantly, revealed that I was not alone in my pursuit of a doctoral degree. From that moment on, I knew that the Leadership Alliance community of peers, role models, faculty and administrators was there to ensure my success.

The theme of this 20th anniversary event, *Mentoring + Commitment = Pathways to Success*, continues the work of the Leadership Alliance that began two decades ago. Our work is far from complete, but we celebrate how far we have come. To date, our mentoring and commitment to developing leaders and role models in all career sectors has resulted in a near doubling of the 350 symposium participants in 1995, to nearly 600 participants today! Our community is growing and thriving! I encourage you to leverage our diverse scholars and to build the professional network that will help you navigate your academic and career pathways to success!

Have a wonderful conference!



Jabbar R. Bennett
*Chair, Symposium
Planning Committee*

Greetings and welcome to the 2015 Leadership Alliance National Symposium (LANS)! This year marks the 20th anniversary of the conference and promises to be one of the most impacting and inspiring to date.

The LANS Planning Committee worked diligently over the past year to develop tailored programming which will enhance your personal and professional development, as well as inform your choices about graduate and professional education. Graduate students, Doctoral Scholars, faculty, administrators and other invited guests welcome the opportunity to discuss their trajectories and answer any questions about your own academic and professional interests.

At a time in our country with ever evolving cultural, social and political shifts, rising costs of higher education, and an uncertain job market, The Leadership Alliance remains committed to the training and development of underrepresented students who strive to become tomorrow's leaders and role models in academia, business and the public sector. Realizing this vision requires the dedication and support of several individuals, many of which are present at this year's symposium.

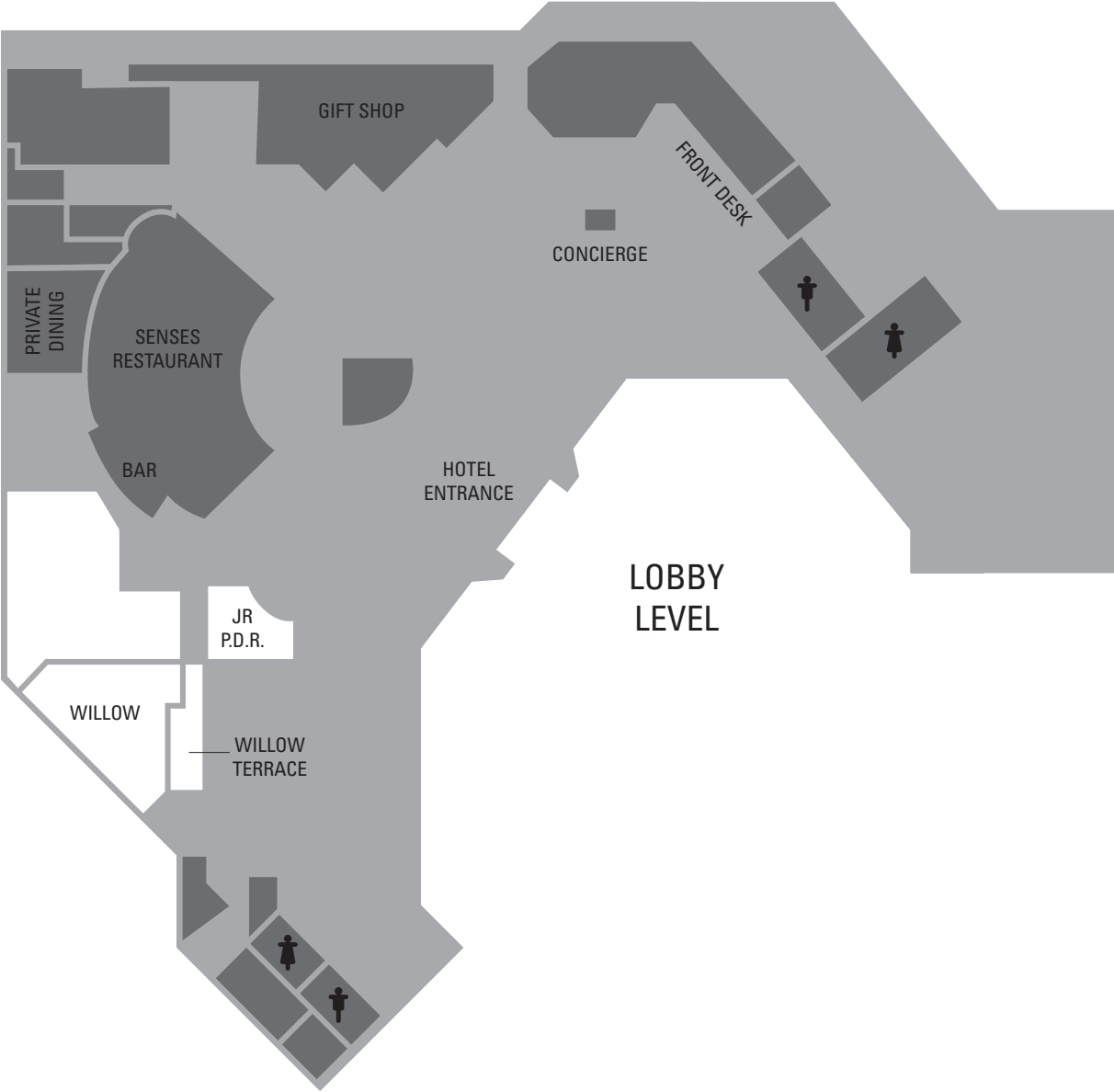
Please take advantage of the formal scheduled events as well as informal opportunities to interact with panelists, faculty, administrators, Doctoral Scholars, graduate students and other guests. It is also very important that you network with each other and take time to share your personal stories and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

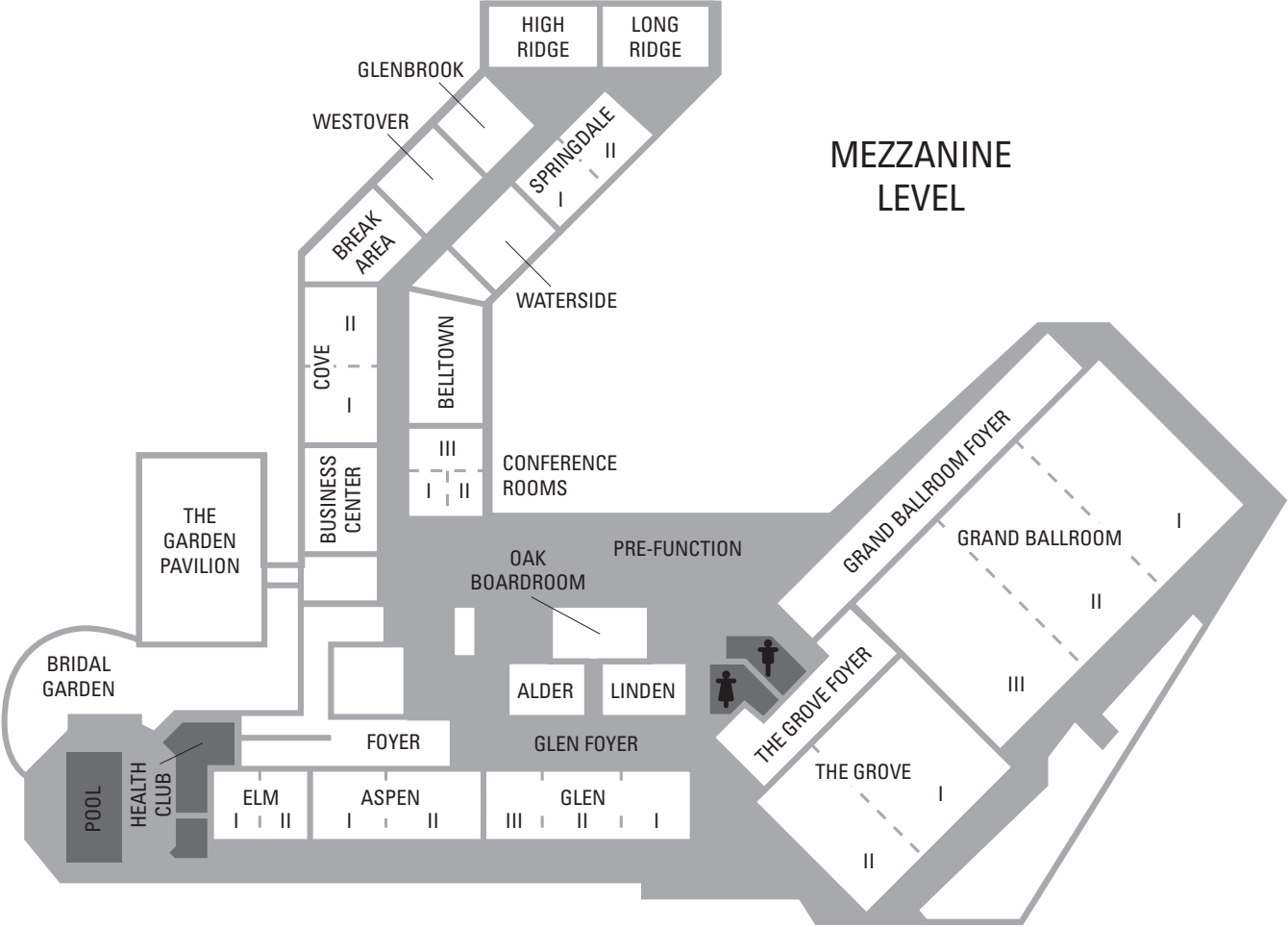
In 2015, just as we declared in 1995, *Mentoring + Commitment = Pathways to Success*. Embrace the community that surrounds you, be persistent and commit to excellence, and success will surely follow.

Best wishes and make it memorable!

Mentoring + Commitment= Pathways to Success

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Symposium At-A-Glance

| Time | Undergraduate Sessions (UG) | Graduate Student Sessions (GS) | Doctoral Scholars (DS) | Administrators, Coordinators, Faculty, Guests |
|---|--|---|---|---|
| Day 1 - Orientation, Networking & Alumni Career Panel | | | | |
| 11:00am - 3:00pm | Registration | | | |
| 11:00am - 3:00pm | PowerPoint Presentation Upload I | | | |
| 12:00pm - 2:00pm | Lunch | | | |
| 3:00pm -5:15pm | Funding/Orientation/Networking Sessions by Discipline | Financial Literacy: (1) <i>One Degree, Many Markets</i> (2) <i>Life After Graduation</i> | | |
| 5:30pm - 6:30pm | PowerPoint Presentation Upload II | Moderators Training | | Community Meeting Coordinators & Faculty |
| 7:00pm - 9:15pm | Dinner/Welcome/Alumni Panel | | | |
| 9:30pm - 10:30pm | PowerPoint Presentation Upload III | Reception for Administrators, Coordinators, Doctoral Scholars, Faculty, Graduate Students, Guests | | |
| Day 2 - Student Presentations & Panel Discussions | | | | |
| 9:00am - 3:00pm | Registration | | | |
| 7:00am -7:25am | Poster Setup | | | |
| 7:30 - 9:00am | (New) NOVARTIS presentation Gap Year Scholar Program | Applied & Basic Biosciences, MD-PhD, Engineering & Physical Sciences | Networking Etiquette: <i>Big Help for Small Talk</i> | Getting FYRE Started |
| | (New) Post-baccalaureate Research Education Program (PREP) | Applied & Basic Biosciences, MD-PhD, Engineering & Physical Sciences | | |
| | (New) What is Digital Humanities and Why Should I Care? | Humanities & Social Sciences | | |
| 9:15am - 10:45am | Student Poster Presentations | | | |
| 11:15am - 12:45pm | Student Oral Presentations Session I - All Disciplines | | | |
| 1:00pm - 2:30pm | (NEW) Lunch Roundtable Discussions | The Graduate School Experience (PhD Program) | NOVARTIS presentation: <i>Mentoring Matters</i> | IPERT Enhancing Research Training Beyond the Summer |
| | | The Graduate School Experience (MD-PhD Program) | | |
| 2:45pm - 4:15pm | Student Oral Presentations Session II - All Disciplines | | | |
| 4:20pm - 4:40pm | Break/Snack/Professional Headshots* | | | |
| 4:45pm - 6:00pm | Student Oral Presentations Session III - Basic & Applied Biosciences, Humanities & Social Sciences | | | |
| 6:00pm - 6:45pm | Group Photos: L.A. Coordinators/Mellon Initiative Cohort/FYRE/IOS Scholars/C⁴ /Individual Professional Headshots/Free Time | | | |
| 7:00pm - 9:00pm | Dinner & Keynote Speaker | | | |
| 9:30pm - 12:00am | Dance Party | | | |
| Day 3 - Recruiting Fair & Next Steps | | | | |
| 8:00am - 9:45am | Breakfast Panels: Graduate School Application & Interview Process | Applied & Basic Biosciences | Individual Development Plan (IDP) | |
| | | MD-PhD | | |
| | | Humanities & Social Sciences | | |
| | | Engineering & Physical Sciences | | |
| 10:00am - 11:00am | | | Leadership Alliance Alumni Association Meeting | |
| 10:00am - 11:00am | Undergraduate Seniors, First and Second Year Graduate Students in <i>STEM</i> Graduate Research Fellowship Programs (GRFP) | | | |
| 10:00am - 11:00am | Humanities & Social Sciences Recruiting Fair | | | |
| 10:00am - 12:00pm | General Recruiting Fair | | | |
| 11:00am - 12:00pm | | AAAS Presentation Applying for the AAAS Science & Technology Policy Fellowships | | ← Note: Faculty is encouraged to attend the AAAS presentation |
| 12:30pm - 1:00pm | Complete Surveys/Closing Remarks/Adjournment | | | |

*Headshots can be taken all day Saturday in Willow, located on the Lobby Level.

Agenda 2015

Friday, July 24

11:00am – 5:00pm

Leadership Alliance Conference Registration Mezzanine

11:00am – 3:00pm

PowerPoint Upload Session I Alder

12:00pm – 2:00pm

Informal Networking Lunch - Everyone Garden Pavilion

Undergraduates:

3:00pm – 4:15pm

Funding Your Education by Discipline

4:20pm – 5:15pm

Orientation/Networking Session by Discipline

Applied & Basic Biosciences Grand Ballroom I

Moderators: Joel Oppenheim, Professor Emeritus, Microbiology, 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 Your Education Panel:

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

Tiffani Fonseca, Fellowships Programs Coordinator, American Society for Microbiology

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

Humanities & Social Sciences Grand Ballroom II

Moderators: Travis Boyce, Associate Professor of Africana Studies and Social Science, University of Northern Colorado; Chinonye Nnakwe, Director, Graduate Diversity Initiatives, The University of Chicago

Funding Your Education Panel:

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

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

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

Engineering & Physical Sciences Grand Ballroom III

Moderator: Don Brunson, Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University; Ruth Schemmer, Assistant Dean for Career Development, Graduate School, Vanderbilt University

Funding Your Education Panel:

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

Denise Ellis, Sloan Program Director, National Action Council for Minorities in Engineering

Sara Xayarath Hernandez, Associate Dean for Inclusion & Student Engagement Graduate School, Cornell University/Institute for Broadening Participation

3:00pm – 5:15pm

(New) Financial Literacy..... Glen
 Graduate Students and Doctoral Scholars

Moderator: Elizabeth Murphy, Assistant Director, Office of Financial Aid, Brown University

5:30pm – 6:30pm

Leadership Alliance Community Meeting..... Grove

5:30pm – 6:30pm

Moderators' Training The Glen

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

5:30pm – 6:30pm

Power Point Upload Session II Alder

~~~~~ Doors open at 6:30pm for dinner ~~~~~

**7:00pm – 9:15pm**

Welcome, Dinner, Alumni Panel..... Grand Ballroom

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

**Panelists:**

**Vanessa Toney Bobb**, Child, Adolescent & Adult Psychiatrist, New Alternatives for Children, Inc.

**Cesar Perez**, Regulatory Officer, Office of Compliance, Food & Drug Administration

**9:30pm – 10:30pm**

Reception.....Grove I  
 Faculty, Coordinators, Doctoral Scholars, Graduate Students, and Guests

**9:30pm – 10:30pm**

Poster Setup..... Garden Pavillion

**9:30pm – 10:30pm**

Power Point Upload Session III..... Alder

## Saturday, July 25

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**7:00am – 7:25am**

Poster Setup..... Garden Pavilion

**7:30am – 9:00am**

Getting FYRE Started Discussion ..... Grove

Leadership Alliance Coordinators & Faculty

**Moderator:** Medeva Ghee, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University

~ Concurrent Sessions for Undergraduates ~

**7:30am – 9:00am**

Undergraduate Breakfasts:

**(New)** Post-Baccalaureate Research Education Program (PREP)

Applied & Basic Biosciences, Engineering, Physical Science, & MD-PhD ..... Grand Ballroom I

**Moderators:** Nancy Schwartz, Professor and Associate Dean, University of Chicago; Arnaldo Diaz, Assistant Dean for Research Training Programs, University of Pennsylvania; Sheila Thomas, Assistant Professor of Medicine, Assistant Dean of Diversity and Minority Affairs for GSAS and DMS, Harvard University

**(New)** What is Digital Humanities and Why Should I Care?

Humanities & Social Sciences ..... Grand Ballroom II

**Moderators:** Purdom Lindblad, Head of Graduate Programs at Scholars' Lab, University of Virginia; Alex Gil, Digital Scholarship Coordinator, Humanities and History Division, Columbia University Libraries

**(New)** Gap Year Scholar Program (Novartis Institutes for Biomedical Research)

Applied & Basic Biosciences, Organic/Synthetic Chemistry, & MD-PhD ..... Grand Ballroom III

**Moderator:** Anastacia Berzat, Scientific Program Manager, Office of Education, Diversity & Inclusion, Novartis Institutes for BioMedical Research

**7:30am – 9:00am**

**(New)** Big Help for Small Talk..... Elm

Graduate Students & Doctoral Scholars Breakfast

**Moderator:** Ruth Schemmer, Assistant Dean for Career Development, Graduate School, Vanderbilt University

**8:30am – 6:00pm**

Professional Headshots..... Willow

**9:00am – 5:00pm**

Leadership Alliance Conference Registration ..... Mezzanine

**9:15am – 10:45am**

Student Poster Presentations..... Garden Pavilion

**11:15am – 12:45pm**

Student Oral Presentations Session I

**Applied & Basic Biosciences:** Elm I, Elm II, Aspen I, Aspen II, Glen I, Glen II, Glen III, Alder

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

**Engineering & Physical Sciences:** Westover, Glenbrook, High Ridge, Long Ridge

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

Concurrent Sessions for Undergraduates

Roundtable Discussion for Undergraduates Interested in the PhD: ..... Grand Ballroom I & II  
The Graduate School Experience

**Moderator:** Karina Evora, M.Ed. Candidate, Peabody College at Vanderbilt University

Roundtable Discussion for Undergraduates Interested in the MD-PhD: ..... Grand Ballroom III  
The Graduate School Experience

**Moderator:** Christopher Peete, Mental Health Professional, Youth Villages

**(New)** Mentoring Matters ..... Garden Pavilion

Doctoral Scholars, Administrators, Guests

**Moderators:** Anastacia Berzat, Scientific Program Manager, Office of Education, Diversity & Inclusion, Novartis Institutes for BioMedical Research; Amri Johnson, Head of Diversity & Inclusion, Novartis Institutes for BioMedical Research

IPERT: Enhancing Research Training Beyond the Summer ..... Grove  
Leadership Alliance Coordinators & Faculty

**Moderator:** Medeva Ghee, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University

**2:45pm – 4:15pm**

Student Oral Presentations Session II

**Applied & Basic Biosciences:** Elm I, Elm II, Aspen I, Aspen II, Glen I, Glen II, Glen III, Alder, High Ridge, Long Ridge

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

**Engineering & Physical Sciences:** Westover, Glenbrook

~~~~~ Break, 4:20 pm – 4:40 pm ~~~~~

4:45pm – 6:00pm

Student Oral Presentations Session III

Applied & Basic Biosciences: Elm I, Elm II, Aspen I, Aspen II, Glen I, Glen II, Glen III, Alder, Westover, Glenbrook, High Ridge, Long Ridge

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

4:00pm – 6:00pm

Exhibitors Set-up for Recruiting Fair Garden Pavilion

6:00pm – 6:45pm

Leadership Alliance Group Photos Lobby

~~~~~ Doors open at 6:30pm for dinner ~~~~~

**7:00pm – 9:00pm**

Dinner, Keynote Speaker ..... Grand Ballroom

**Dr. Carlos Castillo-Chavez**, Regents Professor, Joaquin Bustoz Jr. Professor of Mathematical Biology, and a Distinguished Sustainability Scientist at Arizona State University

**9:30pm – 12:00am**

Dance ..... Grove

## Sunday, July 26

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**7:30am – 10:00am**

Exhibitors Set-up for General Recruiting Fair..... Garden Pavilion

~~~~~ Breakfast served 8:00-8:45am. Sessions conducted from 8:45-9:45am ~~~~~

Undergraduate Breakfast and Panels: The Graduate School Application

Applied & Basic Biosciences Grand Ballroom I

Moderator: Joel Oppenheim, Professor Emeritus, Microbiology, New York University Langone Medical Center

Panelists:

Joel Oppenheim, Professor Emeritus, Microbiology, 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

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

| | |
|---|-----------------------|
| MD-PhD | Grand Ballroom II |
| Moderator: Brian Sullivan, Executive Director MSTP, MD-PhD Program, Washington University in St. Louis | |
| Panelists: | |
| Naoko Tanese , Associate Dean for Biomedical Sciences; Director of the Sackler Institute of Graduate Biomedical Sciences, New York University | |
| Fred Gorelick , Professor of Medicine (Digestive Diseases) and of Cell Biology; Deputy Director, Yale M.D., Ph.D. Program | |
| Humanities & Social Sciences | Grand Ballroom III |
| Moderator: Geneva Baxter, Associate Dean of Undergraduate Studies, Spelman College | |
| Panelists: | |
| Joseph Brown , Graduate Diversity Recruitment Officer, Stanford University | |
| Travis Boyce , Associate Professor of Africana Studies and Social Science, University of Northern Colorado | |
| Engineering & Physical Sciences | Aspen |
| Moderator: Mark Hernandez, Professor in the Department of Civil, Environmental, and Architectural Engineering, University of Colorado Boulder | |
| Panelist: | |
| Don Brunson , Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University | |
| Mark Hernandez , Professor in the Department of Civil, Environmental, and Architectural Engineering, University of Colorado Boulder | |
| 8:00am – 9:45am | |
| (New) Individual Development Plan..... | Elm |
| Graduate Student & Doctoral Scholar Breakfast | |
| Moderator: Nancy Schwartz, Associate Dean for Postdoctoral Affairs and Co-director of the Office of Graduate Affairs, University of Chicago | |
| 10:00am – 11:00am | |
| Leadership Alliance Alumni Association Meeting | Elm |
| 10:00am – 11:00am | |
| Graduate Research Fellowship Programs (GRFP)..... | Glen |
| (This session is for seniors, first and second year graduate students - STEM) | |
| Moderator: David Stout, Visiting Researcher, Brown University and Assistant Professor, Department of Mechanical & Aerospace Engineering, California State University, Long Beach | |
| 10:00am – 11:00am | |
| Humanities & Social Sciences Recruiting Fair | Grove I |
| 10:00am – 12:00pm | |
| General Recruiting Fair | Garden Pavilion |
| 11:00am – 12:00pm | |
| Applying for the AAAS Science & Technology Policy Fellowships..... | Elm |
| Moderator: Chloe Poston, AAAS Science & Technology Policy Fellow, AAAS / National Science Foundation | |
| 12:00pm – 1:00pm | |
| Fill out surveys, Closing Remarks, Adjournment..... | Grand Ballroom I & II |

Carlos Castillo-Chavez

Keynote Speaker



Carlos Castillo-Chavez is a Regents Professor, Joaquin Bustoz Jr. Professor of Mathematical Biology, and a Distinguished Sustainability Scientist at Arizona State University (ASU). His research program is at the interface of the mathematical and natural and social sciences with emphasis on (i) the role of dynamic social landscapes on disease dispersal; (ii) the role of environmental and social structures on the dynamics of addiction and disease evolution, and (iii) the dynamics of complex systems at the interphase of ecology, epidemiology and the social sciences. Castillo-Chavez or C-C has co-authored over two hundred publications, edited several volumes of research articles,

and co-authored a textbook in Mathematical Biology in 2001 (second edition in 2012). He edited a volume (with Tom Banks) on the use of mathematical models in homeland security published in SIAM's Frontiers in Applied Mathematics Series (2003); co-edited volumes in the Series Contemporary Mathematics entitled "Mathematical Studies on Human Disease Dynamics: Emerging Paradigms and Challenges" (American Mathematical Society, 2006) and Mathematical and Statistical Estimation Approaches in Epidemiology (Springer-Verlag, 2009) highlighting his interests in the applications of mathematics in emerging and re-emerging diseases. C-C is a member of the Santa Fe Institute's external faculty, adjunct professor at Cornell University, and contributor, as a member of the Steering Committee of the "Committee for the Review of the Evaluation Data on the Effectiveness of NSF-Supported and Commercially Generated Mathematics Curriculum Materials," to a 2004 NRC report. The CBMS workshop "Mathematical Epidemiology with Applications" lectures delivered by C. Castillo-Chavez and F. Brauer in 2011 have been published by SIAM in 2013. C-C is the founding director of the Simon A Levin Mathematical, Computational and Modeling Sciences Center and the graduate field in applied mathematics in the life and social sciences or AMLSS at ASU (07-01-2008). The AMLSS PhD degree has graduated 23 students, 8 women and 16 students who are members of underrepresented groups—14 Latinos/as and two African American. C-C is also the Executive Director of the Mathematical and Theoretical Biology Institute or MTBI, established by C-C in 1996, recognized with a Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring in 2011, and The Institute for Strengthening the Understanding of Mathematics and Science or SUMS, recognized with a Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring in 2002. MTBI was also recognized as a "Mathematics Program that Makes a Difference" by the American Mathematical Society in 2007. Castillo-Chavez' efforts resulted in the establishment of the David Blackwell and Richard Tapia Distinguished Lecture Series in 2000 and the co-establishment of the David

Blackwell and Richard Tapia Award two years later with David Eisenbud. C-C spent 18 years at Cornell University (1985-2003) in the department of Biological Statistics and Computational Biology (BSCB) and over his last few years with a joint appointment in Theoretical and Applied Mechanics (TAM). C-C's recognitions include two White House Awards: Presidential Faculty Fellowship Award in 1992 and a Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring in 1997; the 2002 Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Distinguished Scientist Award; and the 2003 Richard Tapia Award. C-C is the 12th recipient of the American Mathematical Society Distinguished Public Service Award (01-14-2010). In addition, Castillo-Chavez held a Stanislaw M. Ulam Distinguished Scholar position at the Center for Nonlinear Studies (CNLS) in Los Alamos National Laboratory in 2003. He was named honorary professor at Xi'an Jiaotong University in China (2004) and honorary professor at the School of Public Health, East Tennessee State University (2010). He has held appointments at Institute for Mathematics and its Applications or IMA (1998), a Cátedra Patrimonial, Instituto de Investigaciones en Matemáticas Aplicadas y Sistemas (IIMAS), Universidad Nacional Autónoma de México (1998-1999), and visiting professorships at the Isaac Newton Institute for Mathematical Sciences, Cambridge, England (2003), the Harvard School of Public Health (2012) and an Martin Luther King Jr. Professor at MIT (2012-2013); was in residence at the Poincare Institute in the spring of 2013. He has been elected fellow of the American Association for the Advancement of Science (AAAS), the Society for Industrial and Applied Mathematics, the American College of Epidemiology and Founding Fellow of the American Mathematical Society (11-01-2012). C-C is the recipient of the 2007 AAAS Mentor award; has had 34 PhD students (including 17 US Latinos and 13 women); has mentored 25 postdoctoral researchers; and co-mentored over 200 undergraduates in research projects. C-C past committee memberships include: the Arizona Governor's P-20 Council's Mathematics Alignment Team in 2008-09; the advisory boards of the Statistical and Applied Mathematics Sciences Institute (SAMSI), Banff's International Research Station (BIRS), and the National Institute for Mathematical and Biological Synthesis (NIMBioS); co-director of the National Alliance for Doctoral Studies in the Mathematical Sciences Alliance (2010-2012). He has been appointed (2013) Director of STEM Programs for Underrepresented Minorities, ASU, a position that supports STEM synergistic activities that increase access, excellence and impact at the four ASU campuses. He is a member of the National Research Council's Board of Higher Education and Workforce or BHEW (2009-2015); serves in President Obama's Committee on the National Medal of Science (2010-2015). He is the 17th recipient of the SIAM Prize for Distinguished Service to the Profession, which will be awarded in 2015 in Beijing, China.

Oral Presentations by Name

Jonuelle Acosta..... 12:30 PM, Elm I

Presentation Title: Should I Stay or Should I Go:
Screening for Regulators of Mitochondrial Motility
Research Mentor: Thomas Schwarz
Research Institution: Harvard University, Division of
Medical Sciences
Home Institution: Purdue University
Co-Authors: Thomas Schwarz and Stephen Raiker,
Harvard Medical School
BB

Philip Adejumo..... 11:15 AM, Glen II

Presentation Title: Application of Pattern-Mixture
Models for Missing Data in Longitudinal Studies
Research Mentor: Donald Hedeker
Research Institution: University of Chicago
Home Institution: University of Maryland,
Baltimore County
Co-Authors: Donald Hedeker, University of Chicago
AB

Ruka Aderogba 4:45 PM, Aspen II

Presentation Title: Screening for Genetic Suppressors of
a C. elegans Model of ALS
Research Mentor: Anne C. Hart
Research Institution: Brown University
Home Institution: Hunter College
Co-Authors: Anne C. Hart, Melissa Walsh and
Animesh Mahapatra, Brown University
BB

Gabrielle Akcelik 3:30 PM, Glen III

Presentation Title: qPCR Validation of Asthma-
Associated Genes Differentially Expressed in
Airway Smooth Muscle Cells in Response to
IL-13 and IL-17
Research Mentor: Carole Ober
Research Institution: University of Chicago
Home Institution: Brooklyn College CUNY
Co-Authors: Carole Ober and Emma Thompson,
University of Chicago
BB

Kemi Akinola..... 3:00 PM, High Ridge

Presentation Title: Generation of Lin28 Human
Embryonic Stem Cell Reporter Line Using
CRISPR Technique
Research Mentor: Jihan Osborne
Research Institution: Harvard University, Division of
Medical Sciences
Home Institution: University of Maryland,
Baltimore County
Co-Authors: Jihan Osborne and George Daley,
Harvard Medical School
AB

Jackson Allen..... 5:30 PM, Glen I

Presentation Title: Modeling Secondary AML Through
In vitro Characterizations of Combined IDH and
JAK-STAT Activation Mutations
Research Mentor: Sophie McKenney
Research Institution: Weill Cornell Medical College
Home Institution: Harvard University
Co-Authors: Anna Sophia McKenney and Ross Levine,
Weill Cornell Medical College
AB

Ouma Amadou 11:45 AM, Belltown

Presentation Title: Constructing (Black) Girlhood:
Assimilation, Americanization, or Ambivalence
Research Mentor: Judith Miller
Research Institution: New York University
Home Institution: Iowa State University
Co-Authors: Judith Miller, New York University
HU

Presentation Categories Key

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

Roy Anderson11:15 AM, Westover
 Presentation Title: Analyzing the Mechanical Properties
 of Three Polymer Based Vascular Grafts
 Research Mentor: Wei Tan
 Research Institution: University of Colorado Boulder
 Home Institution: University of Maryland,
 Baltimore County
 Co-Authors: Wei Tan, University of Colorado Boulder
 EN

Felipe Anguiano12:00 PM, Elm II
 Presentation Title: Suppressor Analysis of Cold
 Sensitive Mutations in the ATPase Prp43p
 Research Mentor: Jonathan Staley
 Research Institution: University of Chicago
 Home Institution: Heritage University
 Co-Authors: Jonathan P. Staley and Klaus H. Nielsen,
 University of Chicago
 BB

Chiamaka Ani3:15 PM, Elm II
 Presentation Title: The Role of Stat6 in Altering the
 Microbiota During Helminth Infection
 Research Mentor: P'ng Loke
 Research Institution: New York University
 Home Institution: University of Georgia
 Co-Authors: P'ng Loke, Rowann Bowcutt and Mei San
 Tang, New York University Sackler Institute
 BB

Kiana Annunziata 12:30 PM, Aspen II
 Presentation Title: Roles of Ubiquitination and
 Deubiquitination in the Regulation of the DNA
 Damage Recognition Factor XPC
 Research Mentor: Feng Gong
 Research Institution: University of Miami
 Home Institution: Chaminade University of Honolulu
 Co-Authors: Feng Gong, University of Miami
 BB

Diana Aponte Colon 12:15 PM, Glen III
 Presentation Title: Role of Epigenetic Proteins in
 Maintaining Programs of Endothelial Cell Gene
 Expression Under Basal Conditions
 Research Mentor: Jorge Plutzky
 Research Institution: Harvard University, Division of
 Medical Sciences
 Home Institution: UPR-Rio Piedras
 Co-Authors: Jorge Plutzky and Hong Wang, Harvard
 Medical School
 BB

Denise Aquino5:00 PM, Glen II
 Presentation Title: Targeting the Cancer Stem Cell
 Population in Pancreatic Ductal Adenocarcinoma
 with BET and MEK Inhibitors
 Research Mentor: Marty Mayo
 Research Institution: University of Virginia, School
 of Medicine
 Home Institution: Pacific University
 Co-Authors: Sheena Clift and Marty Mayo, University
 of Virginia, School of Medicine
 AB

Diana Arroyo 4:45 PM, Long Ridge
 Presentation Title: Counting Gonadotropin-Releasing
 Hormone Neurons in the Brains of Different
 Mouse Strains
 Research Mentor: Pei-San Tsai
 Research Institution: University of Colorado Boulder
 Home Institution: Arizona State University
 Co-Authors: Scott Kavanaugh, Samantha Bonelli and
 Pei-San Tsai, University of Colorado Boulder
 BB

Rebecca Arteaga11:15 AM, Elm I
 Presentation Title: Understanding the Amino Acid
 Requirements of a Simple Transmembrane
 Oncoprotein
 Research Mentor: Daniel DiMaio
 Research Institution: Yale University
 Home Institution: Columbia University
 Co-Authors: Erin Heim and Dan DiMaio,
 Yale University
 BB

Sierra Atwater 3:00 PM, Glen III
 Presentation Title: Influence of Substrate Stiffness on
 Cardiomyocyte Behavior
 Research Mentor: Leslie Leinwand
 Research Institution: University of Colorado Boulder
 Home Institution: University of North Carolina
 Chapel Hill
 Co-Authors: Leslie Leinwand and Maureen Bjerke,
 University of Colorado Boulder
 BB

Valeria Aucapina 11:45 AM, Glenbrook
 Presentation Title: Growth of Nanorod Arrays with
 Controlled Geometries
 Research Mentor: Chinedum Osuji
 Research Institution: Yale University
 Home Institution: City College of New York
 Co-Authors: Chinedum O. Osuji, Manesh Gopinadhan
 and Youngwoo Choo, Yale University
 EN

Oluwatomiwa Awobayiku4:45 PM, Aspen I

Presentation Title: The Role of Focal Adhesion Kinase (FAK) in Pancreatic Cancer
 Research Mentor: Ravi Salgia
 Research Institution: University of Chicago
 Home Institution: Indiana University-Bloomington
 Co-Authors: Rajani Kanteti and Ravi Salgia, University of Chicago
 AB

Marcos Ayala Rivera 12:00 PM, Glen I

Presentation Title: Characterizing the Molecular Mechanisms of Diabetes by Using CRISPRs/CAS9
 Research Mentor: Fabian Cardenas
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Fabian Cardenas and Paul Gadue, University of Pennsylvania
 BB

Nicolas Balbi 5:15 PM, Glen I

Presentation Title: Ultrasound Molecular Imaging for the Quantification of Endothelial Cell Receptor Expression During Tumor Angiogenesis
 Research Mentor: Nicolas Balbi
 Research Institution: New York University Sackler Institute
 Home Institution: Rutgers University
 Co-Authors: Daniel Turnbull, Orlando Aristizabal and Kerryanne Winters, New York University Sackler Institute
 BB

Andrea Baltazar3:30 PM, Cove I

Presentation Title: Personality and Demographic Characteristics of Dropouts in a Longitudinal Study
 Research Mentor: Thomas Oltmanns
 Research Institution: Washington University in St. Louis
 Home Institution: University of Texas at El Paso
 Co-Authors: Thomas Oltmanns and Michael Boudreaux, Washington University in St. Louis
 SS

Gabriela Barrios..... 11:15 AM, Cove I

Presentation Title: Varying Narratives: Traumatic Memory and Subversion in Nellie Campobello's *Cartucho*
 Research Mentor: Karen Benezra
 Research Institution: Columbia University
 Home Institution: Rice University
 Co-Authors: Karen Benezra, Columbia University
 HU

Tim Barry5:00 PM, Elm II

Presentation Title: Novel Suppressor Inhibits G-protein Coupled Receptor Signaling in Serotonergic Neurons
 Research Mentor: Niels Ringstad
 Research Institution: New York University Sackler Institute
 Home Institution: University of North Carolina Chapel Hill
 Co-Authors: Niels Ringstad, New York University Sackler Institute
 BB

Hannah Basta4:45 PM, Waterside

Presentation Title: Julia's Nuptials: Free, Freed, and Slave Marriage in Late Fifth-Century Roman Law
 Research Mentor: Campbell Grey
 Research Institution: University of Pennsylvania Arts & Sciences
 Home Institution: Georgia State University
 Co-Authors: Campbell Grey, University of Pennsylvania HU

Victor Bayona..... 5:00 PM, Glen III

Presentation Title: Mediation of Chemoresistance by ALOX5 in Acute Myeloid Leukemia
 Research Mentor: Alec Stranahan
 Research Institution: Weill Cornell Medical College
 Home Institution: Kettering College of Medical Arts
 Co-Authors: Alec Stranahan, Weill Cornell Medical College; Christopher Park, Memorial Sloan Kettering Cancer Center
 AB

Pineal Bekere.....11:45 AM, Aspen II

Presentation Title: The Role of K63-Linked Ubiquitination in Telomere Cohesion
 Research Mentor: Susan Smith
 Research Institution: New York University Sackler Institute
 Home Institution: Millersville University
 Co-Authors: Susan Smith and Ekta Tripathi, New York University Sackler Institute
 BB

Ezekiel Bello.....2:45 PM, Aspen I

Presentation Title: Entry Coreceptor use by SIV from Mustached Monkey, the Ancestor of HIV-1
 Research Mentor: Ronald Collman
 Research Institution: University of Pennsylvania
 Home Institution: Florida A&M University
 Co-Authors: Katherine S. Wetzel, Sarah T. Elliott and Ronald G. Collman, University of Pennsylvania
 AB

Clair Beltran.....4:45 PM, Cove I

Presentation Title: Fields of Difference: Differences in Usage and Perception of Urban Park Spaces
 Research Mentor: Van Tran
 Research Institution: Columbia University
 Home Institution: Middlebury College
 Co-Authors: Van Tran, Devon Wade and Brittany Fox, Columbia University
 SS

Itza Beltran..... 12:00 PM, Glenbrook

Presentation Title: The Effect of Vacuum Level and Water Charge on the Performance of Ultra-Thin Thermal Ground Planes
 Research Mentor: Ronggui Yang
 Research Institution: University of Colorado Boulder
 Home Institution: University of Central Florida
 Co-Authors: Ronggui Yang and Shanshan Xu, University of Colorado Boulder
 EN

Amanda Bennett5:15 PM, Waterside

Presentation Title: Body Politics: Examining African American Social Invisibility Through Slave Burial Grounds and the Pre-Texts Reading Program
 Research Mentor: Doris Sommer
 Research Institution: Harvard University
 Home Institution: University of Alabama-Tuscaloosa
 Co-Authors: Doris Sommer and Lisa Crossman, Harvard University
 HU

Kiara Berrios3:45 PM, Glen II

Presentation Title: eNOS-derived Nitric Oxide Regulates Lipid Metabolites in Restricted Diet
 Research Mentor: Harry Ishiropoulos
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Harry Ischiropoulos, University of Pennsylvania; Margarita Tenopoulou and Paschalis-Thomas Doulias, Children's Hospital of Philadelphia
 BB

Carla Bezjian..... 12:15 PM, Westover

Presentation Title: Synthesis and Study of Bipyridal Troger's Base Complexes
 Research Mentor: Jeffrey Winkler
 Research Institution: University of Pennsylvania
 Home Institution: CSU Los Angeles
 Co-Authors: Jeffrey Winkler, Jake Nagy and Katherine Crocker, University of Pennsylvania
 PS

Noah Bloch.....12:15 PM, Aspen I

Presentation Title: Regulation of RAG2 Protein in Response to DNA Damage
 Research Mentor: Craig Bassing
 Research Institution: University of Pennsylvania
 Home Institution: Haverford College
 Co-Authors: Megan Fisher and Craig Bassing, University of Pennsylvania
 BB

Jeffrey Boakye..... 5:45 PM, Glen III

Presentation Title: Anticancer Activity of Novel DCLK1 Inhibitors in Neuroblastoma Cells
 Research Mentor: Rani George
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: Philander Smith College
 Co-Authors: Nathan Moore and Rani George, Harvard Medical School
 AB

Ann Brasacchio 12:15 PM, Glenbrook

Presentation Title: Suzuki-Miyaura Cross-Coupling of Aryl Sulfamates with Aryl Boronic Acids using Nickel Catalysts
 Research Mentor: Nilay Hazari
 Research Institution: Yale University
 Home Institution: Wheaton College
 Co-Authors: Nilay Hazari and Megan Mohadjer Beromi, Yale University
 PS

Evan Brooks 11:15 AM, Alder

Presentation Title: Characterization of Tissue Mineralization Defects in Fin Rays of Zebrafish Mutants
 Research Mentor: Pamela Yelick
 Research Institution: Tufts University Graduate BioMedical Sciences
 Home Institution: North Carolina State University
 Co-Authors: John Lyons, Melissa LaBonty and Pamela Yelick, Tufts University School of Graduate Biomedical Sciences
 BB

Rachel Brown 4:00 PM, Long Ridge

Presentation Title: Examining the Role of p300 in Endotoxin Tolerance in Monocytes
 Research Mentor: Kathleen Sullivan
 Research Institution: University of Pennsylvania
 Home Institution: Morehead State University
 Co-Authors: Kelly Maurer and Kathleen Sullivan, University of Pennsylvania
 AB

Patrick Bruck.....5:15 PM, Aspen I
 Presentation Title: Development of Neoantigen-Specific
 Vaccines for Pancreatic Cancer
 Research Mentor: Stephanie Dougan
 Research Institution: Harvard University, Division of
 Medical Sciences
 Home Institution: Creighton University
 Co-Authors: Stephanie Dougan, Harvard
 Medical School
 AB

Nikaela Bryan..... 4:45 PM, Glen I
 Presentation Title: Fluorinated Bromothymol Blue: A
 Cerenkov-Absorbing Molecular Probe for In-Vitro
 pH Measurement of Tumor Microenvironment
 Research Mentor: Edward Delikatny
 Research Institution: University of Pennsylvania
 Home Institution: University of Maryland,
 Baltimore County
 Co-Authors: Edward Delikatny, Alejandro Arroyo and
 Alexander Kachur, University of Pennsylvania
 AB

David Bunn5:30 PM, Aspen I
 Presentation Title: Nucleoside Analogues Activated by
 Adenosine Kinase for the Treatment of Primary
 Effusion Lymphoma and Multiple Myeloma
 Research Mentor: Ethel Cesarman
 Research Institution: Weill Cornell Medical College
 Home Institution: SUNY at Albany
 Co-Authors: Jouliana Sadek and Ethel Cesarman,
 Weill Cornell Medical College
 AB

Lindsey Burgess11:30 AM, Cove II
 Presentation Title: The Effects of Neo-Colonialism on
 Late 20th Century Drug Trafficking in Nigeria
 Research Mentor: Keisha-Khan Perry
 Research Institution: Brown University
 Home Institution: Spelman College
 Co-Authors: Keisha-Khan Perry, Brown University
 HU

Stephany Caicedo..... 2:45 PM, Alder
 Presentation Title: Understanding the Interaction
 Between Anthrax Lethal Factor and MAP Kinase
 Kinase Substrates
 Research Mentor: Ben Turk
 Research Institution: Yale University
 Home Institution: Rutgers University
 Co-Authors: Allison Goldberg and Ben Turk, Yale
 University
 BB

Ambar Cajigas Hernandez3:15 PM, Aspen I
 Presentation Title: SIV Infection of Pigtail Macaque
 Monocytes-Derived Macrophages Induces Heme
 Oxygenase-1 Expression
 Research Mentor: Dennis Kolson
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Alex J. Gill and Dennis L. Kolson,
 University of Pennsylvania
 AB

Giovanni Calixte 3:00 PM, Glen I
 Presentation Title: Chondrogenesis Deficiency in
 Matrilin-1 Knock-out Mice
 Research Mentor: Qian Chen
 Research Institution: Brown University
 Home Institution: University of Miami
 Co-Authors: Yun Gao, Yupeng Chen and Qian Chen,
 Brown University
 AB

Evelyn Campbell 3:30 PM, Glen I
 Presentation Title: The Influence of Interferon
 Stimulated Genes Ifi44 and Ifi2712a on the
 Thermogenic Capacity of Brown Adipocytes
 Research Mentor: Patrick Seale
 Research Institution: University of Pennsylvania
 Home Institution: Rider University
 Co-Authors: Megan Kissig and Patrick Seale, University
 of Pennsylvania
 AB

Gabriela Canales11:30 AM, Glen I
 Presentation Title: En'Cas'ing the Stress: Engineering
 a Human Cell Line Knockout of Heat Shock
 Response Coordinator Genes Using CRISPR
 Cas9 System
 Research Mentor: Evgeny Nudler
 Research Institution: New York University Sackler
 Institute Home Institution: University of Maryland,
 Baltimore County
 Co-Authors: Bibhusita Pani and Evgeny Nudler, New
 York University Sackler Institute
 BB

Stephanie Capsuto 5:00 PM, Westover

Presentation Title: The role of Cav 1.3 L-type Ca²⁺ Channels in Cocaine-Induced Activation of CREB. CaMKII α Translocation to the Nucleus to Activate CREB

Research Mentor: Stephanie Capsuto

Research Institution: Weill Cornell Medical College

Home Institution: Smith College

Co-Authors: Arlene Martinez-Rivera and Anjali Rajadhyaksha, Weill Cornell Graduate School

BB

Edgar Carlo3:00 PM, Elm II

Presentation Title: Endothelial Cell Barrier Lost by Angiopoietin 2 Levels in Indirect Acute Lung Injury Induced by Sepsis and Hemorrhage in Lung, Kidney and Liver Tissues

Research Mentor: Joanne Lomas Neria

Research Institution: Brown University

Home Institution: UPR-Mayaguez

Co-Authors: Joanne Lomas-Neira and Yaping Chen, Brown University

AB

Olivia Carpenter 11:30 AM, Cove I

Presentation Title: (Re-)Examining Literacies: Native Authors of Early American Literature

Research Mentor: James Egan

Research Institution: Brown University

Home Institution: University of New Mexico

Co-Authors: Jim Egan, Brown University

HU

Camilla Castro3:45 PM, Aspen I

Presentation Title: Characterizing the Role of Herpes Simplex Virus Type 1 Protein Kinase Us3 in Regulating mRNA Translation

Research Mentor: Ian Mohr

Research Institution: New York University

Sackler Institute

Home Institution: Florida Atlantic University

Co-Authors: Ian Mohr and Jessica Linderman, New York University Sackler Institute

BB

Lauren Caton3:30 PM, Glen II

Presentation Title: Predictors of Weight Loss

Magnitude in Johns Hopkins Weight Management Center Patients

Research Mentor: Larry Cheskin

Research Institution: Johns Hopkins University

Home Institution: University of Texas at Austin

Co-Authors: Lawrence Cheskin, Ian Yarett and Leslie Redmond, Johns Hopkins University

AB

Ashley Chontos 11:45 AM, Long Ridge

Presentation Title: Simulations of Detectability of Extrasolar Planets for Future Space Mission WFIRST

Research Mentor: Bruce Macintosh

Research Institution: Stanford University

Home Institution: SUNY at Albany

Co-Authors: Bruce Macintosh, Stanford University

PS

Erlyana Clarke.....2:45 PM, Elm II

Presentation Title: Interleukin-25-Activated Innate Lymphoid Cells in Sepsis

Research Mentor: Alfred Ayala

Research Institution: Brown University

Home Institution: Brooklyn College CUNY

Co-Authors: Alfred Ayala and Tristen Chun, Brown University

AB

Alexis Clavijo 11:30 AM, Glenbrook

Presentation Title: Development of Nanosphere Lithography for Nanomagnetism

Research Mentor: Sunxiang Huang

Research Institution: University of Miami

Home Institution: Rutgers University

Co-Authors: Sunxiang Huang, University of Miami

PS

Courtney Cooper.....2:45 PM, Cove I

Presentation Title: The Power of Social Class in Relationship Outlook

Research Mentor: Hazel Rose Markus

Research Institution: Stanford University

Home Institution: Hampton University

Co-Authors: Hazel Rose Markus and Rebecca Carey, Stanford University

SS

Luis Cortina 3:15 PM, Elm I

Presentation Title: Fatty Acid Oxidation Regulates
Metabolic Adaptation to Low Glucose in Primary
Human T-Cells
Research Mentor: James Riley
Research Institution: University of Pennsylvania
Home Institution: Johns Hopkins University
Co-Authors: James Riley and Christopher Ecker,
University of Pennsylvania
AB

Juliana Cruz Martínez 4:45 PM, Springdale I

Presentation Title: Allophones in the Parallel Shift of
/uw/ and /ow/ in the Philadelphia Dialect
Research Mentor: Meredith Tamminga
Research Institution: University of Pennsylvania Arts
& Sciences
Home Institution: UPR-Rio Piedras
Co-Authors: Meredith Tamminga, University of
Pennsylvania
HU

Shemiah Curry 5:15 PM, Cove I

Presentation Title: School Choice in Gentrifying
Neighborhoods
Research Mentor: Dr. Micere Keels
Research Institution: University of Chicago
Home Institution: Bennett College
Co-Authors: Micere Keels, University of Chicago
SS

Kiana Dash 4:00 PM, Waterside

Presentation Title: Effect of Emotional State on Self
Control in the Presence of Appetitive Cues
Research Mentor: BJ Casey
Research Institution: Weill Cornell Medical College
Home Institution: Hampton University
Co-Authors: Michael Dreyfuss and BJ Casey,
Weill Cornell Medical College
SS

Kelvin De Leon 3:45 PM, Waterside

Presentation Title: Ascending and Descending Alcohol
Effects in Healthy Volunteers
Research Mentor: Kelvin De Leon
Research Institution: Brown University
Home Institution: Hunter College
Co-Authors: Mollie Monnig, Tara White and Adam
Nitenson, Brown University
SS

Iliana De Santis 5:45 PM, Cove II

Presentation Title: The Expansion of Comida Chatarra:
An Analysis on Diet Change in Mexico
Research Mentor: Miguel Centeno
Research Institution: Princeton University
Home Institution: Emory University
Co-Authors: Miguel Centeno, Princeton University
SS

Beverlin Del Rosario 2:45 PM, Cove II

Presentation Title: The Relationship Between Sleep
Disturbances and Emotion Dysregulation in
Self-Harm Behavior
Research Mentor: Regina Miranda
Research Institution: Hunter College
Home Institution: Xavier University of Louisiana
Co-Authors: Regina Miranda, Hunter College
SS

Lester Dela Cruz 11:30 AM, Glen II

Presentation Title: Defining a Non-coding RNA
Transcriptome: Applying Hidden Markov
Model (HMM) to Define the Non-coding Areas
of a Genome
Research Mentor: Robin Dowell
Research Institution: University of Colorado Boulder
Home Institution: UC Santa Barbara
Co-Authors: Robin Dowell and Joseph Azofiefa,
University of Colorado Boulder
BB

Alissa DiMasi 12:15 PM, Elm II

Presentation Title: The Effects of miR-138 on Nicotine
Consumption and Preference
Research Mentor: Marissa Ehringer
Research Institution: University of Colorado Boulder
Home Institution: Regis College
Co-Authors: Marissa Ehringer and Matthew Powers,
University of Colorado Boulder
BB

Cesar Dominguez 5:00 PM, Aspen II

Presentation Title: Novel PPAR-Agonist Treatment
of an Experimental Model of Sporadic
Alzheimer's Disease
Research Mentor: Suzanne de la Monte
Research Institution: Brown University
Home Institution: Williams College
Co-Authors: Suzanne de la Monte, Chetram Deochand
and Lelia Noble, Brown University
BB

Patrick Donegan 3:15 PM, Glen III
Presentation Title: The Role of Smooth Muscle Cell
Mineralocorticoid Receptor in Cardiac Aging and
Atrial Fibrillation
Research Mentor: Iris Jaffe
Research Institution: Tufts University Graduate
BioMedical Sciences
Home Institution: University of Notre Dame
Co-Authors: Jennifer DuPont and Iris Jaffe, Tufts
University School of Graduate Biomedical Sciences
BB

Julie Dorland 4:45 PM, Glen III
Presentation Title: Radiation Modulates Inflammation
and Immunity in Aged Trp53 Null Mammary
Carcinogenesis
Research Mentor: Mary Helen Barcellos-Hoff
Research Institution: New York University
Home Institution: University of Texas at Austin
Co-Authors: Mary Helen Barcellos-Hoff, Haoxu
Ouyang and Irineu Illa-Bochaca, New York
University Sackler Institute
AB

Luis Duarte 4:00 PM, Westover
Presentation Title: Common Air Pollutants Impact
Surface Proteins of Airborne Fungi and Pollens
Research Mentor: Mark Hernandez
Research Institution: University of Colorado Boulder
Home Institution: New Mexico State University
Co-Authors: Mark Hernandez and Odessa Gomez,
University of Colorado Boulder
ES

Tyler Dunbar 11:30 AM, High Ridge
Presentation Title: Carbon Dioxide Conversion Using
Reduced Graphene Oxide as a Support for Single-
atom Metal Catalysts
Research Mentor: Robert Hurt
Research Institution: Brown University
Home Institution: University of Wisconsin Madison
Co-Authors: Robert Hurt and Ruben Spitz, Brown
University
EN

Comfort Effi 11:45 AM, Glen III
Presentation Title: YY1 Deletion Controls Condensin,
Cohesin, and PcG DNA Recruitment, But Not
Their Expression Levels
Research Mentor: Michael Atchison
Research Institution: University of Pennsylvania
Home Institution: Cheyney University of Pennsylvania
Co-Authors: Michael Atchison and Arindam Basu,
University of Pennsylvania
BB

Emmanuella Egbonim 3:30 PM, Alder
Presentation Title: Optimization of PCR for
Oxalobacter Formigenes Group 2
Research Mentor: Martin Blaser
Research Institution: New York University
Sackler Institute
Home Institution: University of Texas at Austin
Co-Authors: Martin Blaser and Lama Nazzal, New York
University Sackler Institute
AB

Linda Egbosiuba 3:45 PM, Glenbrook
Presentation Title: Determination of GCH1 Copy
Number Variation in Field Samples from Nigeria
Research Mentor: Uchechi Ukaegbu
Research Institution: Weill Cornell Graduate School
Home Institution: University of Georgia
Co-Authors: Uchechi Ukaegbu and Kirk Deitsch,
Weill Cornell Graduate School
AB

Hailey Egido-Betancourt 3:30 PM, Belltown
Presentation Title: Neuroimaging and Negative Valence
Conditioned Inhibition Studies of the Habenula
Research Mentor: Randall O'Reilly
Research Institution: University of Colorado Boulder
Home Institution: University of West Florida
Co-Authors: Randall O'Reilly and Jessica Mollick,
University of Colorado Boulder
SS

Brandon Enriquez 11:45 AM, Waterside
Presentation Title: Who Should Help Underprepared
Students? The Effects of Limiting Remediation to
Two-Year Colleges
Research Mentor: Bridget Long
Research Institution: Harvard University
Home Institution: University of Maryland,
Baltimore County
Co-Authors: Bridget Terry Long, Harvard University
SS

Melissa Espinosa 2:45 PM, Springdale II
Presentation Title: What Influences Public Opinion on
Immigrants and Immigration Policies?
Research Mentor: Robert Shapiro
Research Institution: Columbia University
Home Institution: Saint Edward's University
Co-Authors: Robert Y. Shapiro, Columbia University
PE

Aja Evans 3:00 PM, Cove II

Presentation Title: Learning and Transfer of Sequential Task Control Policies

Research Mentor: David Badre

Research Institution: Brown University

Home Institution: New York University

Co-Authors: David Badre, Apoorva Bhandari and Theresa Desrochers, Brown University

SS

Taylor Evans5:45 PM, Waterside

Presentation Title: "We Are Here and We Will Not Be Silenced": Conflict, Resistance, and the Role of Transgender Women of Color during the Gay Liberation Movement, 1969-1974

Research Mentor: Hendrik Hartog

Research Institution: Princeton University

Home Institution: UC Berkeley

Co-Authors: Hendrik Hartog, Princeton University

HU

Kelcee Everette 5:15 PM, Alder

Presentation Title: Uncovering Heterogeneity in the Motility of Breast Cancer Cells

Research Mentor: Pei-Hsun Wu

Research Institution: Johns Hopkins University

Home Institution: Harvard University

Co-Authors: Pei-Hsun Wu, Johns Hopkins University

AB

Matthew Fairchild.....11:45 AM, Cove II

Presentation Title: Civil War and Reconstruction Historiography: A Shift in Perspective

Research Mentor: Tera Hunter

Research Institution: Princeton University

Home Institution: Rutgers University

Co-Authors: Tera Hunter, Princeton University

HU

Porfirio Fernandez.....12:30 PM, Elm II

Presentation Title: Characterization of miRNA Expression Profile Modified by a- Conotoxin in Chronic Constriction Injury Rat Model

Research Mentor: Jacqueline Sagen

Research Institution: University of Miami

Home Institution: John Jay College of Criminal Justice CUNY

Co-Authors: P. Chen, S. Jergova and J. Sagen, University of Miami

BB

Aerielle Ferreira 3:15 PM, Belltown

Presentation Title: The Role of Prison Based Substance Abuse Treatment Programs in Preventing Post-Incarceration Substance Use

Research Mentor: Emily Wang

Research Institution: Yale University

Home Institution: Chaminade University of Honolulu

Co-Authors: Jenerius Aminawung and Emily Wang, Yale University

SS

Keishla Figueroa Colón 3:45 PM, Alder

Presentation Title: Micro RNA-93 Targets IRF9 to Regulate Macrophage Polarization

Research Mentor: Brian Annex

Research Institution: University of Virginia, School of Medicine

Home Institution: UPR-Cayey

Co-Authors: Brian Annex, John Lye and Vijay Ganta, University of Virginia, School of Medicine

BB

Gail Fletcher 5:00 PM, Belltown

Presentation Title: Culture or Cruelty? How Women's Rights Debates on Female Genital Cutting and Child Marriage Have Changed Over Time

Research Mentor: Eve Troutt Powell

Research Institution: University of Pennsylvania Arts & Sciences

Home Institution: Cornell University

Co-Authors: Eve Troutt Powell, University of Pennsylvania

PE

Cassandra Flores-Montano 5:45 PM, Belltown

Presentation Title: Esta Cafe: Brown Berets, Gender, and the State

Research Mentor: Maria Josefina Saldaña-Portillo

Research Institution: New York University

Home Institution: Wellesley College

Co-Authors: Maria Josefina Saldaña-Portillo, New York University

HU

Kelly Fogelson11:15 AM, Glen III

Presentation Title: The Role of Potential LXR Associated Factors Identified by Mass Spectrometry on LXR Mediated Gene Transcription

Research Mentor: Michael Garabedian

Research Institution: New York University Sackler Institute

Home Institution: University of Minnesota-Twin Cities

Co-Authors: Elina Shrestha, Sarah Leone and Michael Garabedian, New York University Sackler Institute

BB

Celia Ford 3:30 PM, Cove II

Presentation Title: Status Judgments as a Function of the Interaction Between Facial Dominance and Social Context

Research Mentor: Jasmin Cloutier

Research Institution: University of Chicago

Home Institution: Brown University

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

SS

Philip Frasse 3:30 PM, Aspen II

Presentation Title: GlpQ- and Pce-Dependent Interactions Between *Streptococcus pneumoniae* and *Haemophilus influenzae*

Research Mentor: Jeffrey Weiser

Research Institution: New York University Sackler Institute

Home Institution: Rice University

Co-Authors: Tonia Zangari and Jeffrey Weiser, New York University Sackler Institute

BB

Jenna Freund 5:45 PM, Glenbrook

Presentation Title: Elucidating Rab7 and Actomyosin Interactions in Schwann Cell Development and Myelination

Research Mentor: Carmen Melendez

Research Institution: Hunter College

Home Institution: Rowan University

Co-Authors: Carmen Melendez and Christopher Eyermann, Hunter College

BB

Kelsey Gallant 5:30 PM, Glen III

Presentation Title: Determining the Mechanism of Resistance to Akt Inhibitors in Breast Cancer

Research Mentor: Emily Cohen

Research Institution: Harvard University, Division of Medical Sciences

Home Institution: Spelman College

Co-Authors: Emily Cohen, Rebecca Chin and Alex Toker, Harvard Medical School

AB

Hector Galvez..... 5:45 PM, Alder

Presentation Title: Mitochondrial Mass and Function in Breast Cancer: Significance for Cancer Subtyping and Treatment

Research Mentor: Kay Macleod

Research Institution: University of Chicago

Home Institution: CSU San Marcos

Co-Authors: Kay Macleod, University of Chicago

AB

Prenicia Gant 5:00 PM, High Ridge

Presentation Title: Determining the Effects of Mutant Miro1 in the Neurons of a New Transgenic Mouse Model In vivo

Research Mentor: Jordi Magrane

Research Institution: Weill Cornell Graduate School

Home Institution: Grambling State University

Co-Authors: Jordi Magrane, Weill Cornell Graduate School

BB

Rolando Garza 12:15 PM, Elm I

Presentation Title: Phosphatidylinositol Phosphate Facilitates the TIPE:Pleckstrin Homology-Domain Protein-Protein Interaction

Research Mentor: Youhai Chen

Research Institution: University of Pennsylvania

Home Institution: University of Texas at San Antonio

Co-Authors: Youhai Chen, Terry Cathopoulos and Derek Johnson, University of Pennsylvania

BB

Isaiah Gibson5:30 PM, Waterside

Presentation Title: Just(us) and the Black Church: A Case Study of Social Justice in Harlem's St. Luke AME Church

Research Mentor: Josef Sorett

Research Institution: Columbia University

Home Institution: Dickinson College

Co-Authors: Josef Sorett, Van Tran and Devon Wade, Columbia University

SS

Nayib Gloria 5:15 PM, Westover

Presentation Title: Electrophysiological Responses to Decreased Contrast Sensitivity and Different Pattern Reversal Rates

Research Mentor: Jorge Bohorquez

Research Institution: University of Miami

Home Institution: Duke University

Co-Authors: Jorge Bohorquez, University of Miami

AB

Jeremy Glover..... 5:30 PM, Belltown

Presentation Title: Blurred Understandings and Interpretations: A Queer Reading of Two Women in Chaucer's *Canterbury Tales*

Research Mentor: Patricia Dailey

Research Institution: Columbia University

Home Institution: Bates College

Co-Authors: Patricia Dailey, Columbia University

HU

Katherine Gonzalez 3:45 PM, Elm I

Presentation Title: The Effect of RAGE in the Immune Response to High Fat Feeding
 Research Mentor: Ann Marie Schmidt
 Research Institution: New York University Sackler Institute
 Home Institution: Florida Atlantic University
 Co-Authors: Evelyn Litwinoff and Ann Marie Schmidt, New York University Sackler Institute
 BB

Wisberty Gordian Velez5:45 PM, Elm II

Presentation Title: In vitro Synaptogenesis in Micro-Tissue Engineered Neural Networks
 Research Mentor: D. Kacy Cullen
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Mayaguez
 Co-Authors: D. Kacy Cullen, Dmitriy Petrov and Kritika Katiyar, University of Pennsylvania
 AB

Hamilton Green 3:45 PM, Glen I

Presentation Title: Understanding the Role of the Metabolite Sensors YpdAB and YehUT in Uropathogenic Escherichia coli Adherence and Biofilm Formation
 Research Mentor: Allison Eberly
 Research Institution: Vanderbilt University
 Home Institution: Dillard University
 Co-Authors: Allison Eberly, Vanderbilt University; Stefan Behr, Ludwig-Maximillan University; Maria Hadjifrangiskou, Vanderbilt University; Kirsten Jung, Ludwig-Maximilians University
 BB

Ahmad Greene-Hayes.....5:15 PM, Springdale II

Presentation Title: Black Women's and Men's Legacies and Activism: Legal Discourse and Literary Interventions Against Sexual Violence, 1990-Present
 Research Mentor: Celia Naylor
 Research Institution: Columbia University
 Home Institution: Williams College
 Co-Authors: Celia Naylor, Columbia University
 HU

Patrick Griffin 12:00 PM, Aspen II

Presentation Title: ZBTB24: A Novel Protein Linking Pericentromeric Heterochromatinization to Centromeric Instability
 Research Mentor: Mamta Tahilizni
 Research Institution: New York University Sackler Institute
 Home Institution: University of Georgia
 Co-Authors: Mamta Tahiliani and Amir Moarefi, New York University Sackler Institute
 BB

Anthony Guerrero 4:00 PM, High Ridge

Presentation Title: Paclitaxel Effect on Nuclear Envelope Morphology in Different Ovarian Cancer Cell Lines
 Research Mentor: Xiang-Xi Xu
 Research Institution: University of Miami
 Home Institution: Connecticut College
 Co-Authors: Xiang-Xi Xu, Elizabeth R. Smith and Toni Yeasky, University of Miami
 AB

Andrea Guzman..... 3:30 PM, Elm I

Presentation Title: Synthesis and Characterization of Thermally Sensitive Liposomes for Targeted Drug Delivery
 Research Mentor: Andrew Tsourkas
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Andrew Tsourkas and Jessica F. Liu, University of Pennsylvania
 AB

Sara Haile 12:15 PM, Aspen II

Presentation Title: The Mystery Proteins of SCCmec Type V
 Research Mentor: Phoebe Rice
 Research Institution: University of Chicago
 Home Institution: UC Santa Cruz
 Co-Authors: Phoebe A. Rice, University of Chicago
 BB

Amelia Hallworth 12:00 PM, Elm I

Presentation Title: Characterizing Forkhead Binding Specificity
 Research Mentor: Amelia Hallworth
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Martha Bulyk and Julia Rogers, Harvard Medical School
 BB

Andrew Hart 3:15 PM, Alder
Presentation Title: Molecular Dissection of the
Complement-like Pathway in Anopheles Mosquitoes
Research Mentor: Michael Povelones
Research Institution: University of Pennsylvania
Home Institution: Marshall University
Co-Authors: Michael Povelones and Letitia Thompson,
University of Pennsylvania
BB

Brandon Hart 2:45 PM, High Ridge
Presentation Title: The Effects of EphB2 and EphrinB2
Knockouts with CRISPR/Cas9 in Spermatogonial
Stem Cell Maintenance
Research Mentor: Marco Scandel
Research Institution: Weill Cornell Medical College
Home Institution: Southern Nazarene University
Co-Authors: Marco Seandel, Weill Cornell
Graduate School
AB

Malik Hayes..... 12:15 PM, Long Ridge
Presentation Title: Efforts Towards Maximum
Performance Distributed Computation with
Limited Power Budgets
Research Mentor: Henry Hoffmann
Research Institution: University of Chicago
Home Institution: Claflin University
Co-Authors: Henry Hoffmann, University of Chicago
PS

Julia Heinze3:30 PM, Aspen I
Presentation Title: Models for Herpes Simplex Virus
Infection Using Human Embryonic Stem Cell
Derived Neurons
Research Mentor: Angus Wilson
Research Institution: New York University
Sackler Institute
Home Institution: Jacobs University Bremen
Co-Authors: Aldo Pourchet, Aram Modrek and Angus
Wilson, New York University Sackler Institute
AB

Jessica Heppler3:30 PM, Springdale II
Presentation Title: Assessing the Value of Justice
in Plato
Research Mentor: Russell Jones
Research Institution: Harvard University
Home Institution: SUNY College at Geneseo
Co-Authors: Russell Jones, Harvard University
PE

Mateo Hernandez3:45 PM, Elm II
Presentation Title: Intracellular Vesicular Interactions
During Salmonella Infection
Research Mentor: Amy Palmer
Research Institution: University of Colorado Boulder
Home Institution: University of South Florida
Co-Authors: Sarah McQuate and Amy Palmer,
University of Colorado at Boulder
BB

Andrea Hernández-Vega 4:00 PM, Cove II
Presentation Title: The Association of Methamphetamine
Abuse and Poor Cognitive Flexibility in a Sample
of Gay and Bisexual Men
Research Mentor: Jeffrey Parsons
Research Institution: Hunter College
Home Institution: UPR-Ponce
Co-Authors: H. Jonathon Rendina and Jeffrey Parsons,
Hunter College
SS

Erin Hollander 5:30 PM, Long Ridge
Presentation Title: Tau Immunotherapy for Alzheimer's
Disease: Analyzing the Effects of Single and Multiple
Epitope Vaccines on Astrocytes and Microglia
Research Mentor: Einar Sigurdsson
Research Institution: New York University
Sackler Institute
Home Institution: University of Georgia
Co-Authors: Einar Sigurdsson, New York University
Sackler Institute
AB

Tabatha Holley 5:15 PM, Belltown
Presentation Title: Black Women Negotiating 'Ratchet'
Politics in the Southern U.S.
Research Mentor: Keisha-Khan Perry
Research Institution: Brown University
Home Institution: Spelman College
Co-Authors: Keisha-Khan Perry, Brown University
HU

JoVaun Holmes5:45 PM, Springdale II
Presentation Title: African Modernism? Gauging the
Intersection of Race, Modernist Art Historical
Studies, and the Idea of Authenticity
Research Mentor: Cecile Fromont
Research Institution: University of Chicago
Home Institution: Brown University
Co-Authors: Cecile Fromont, University of Chicago
HU

Kerwin Holmes Jr5:00 PM, Waterside

Presentation Title: Popular Ethics: Southern Christians and Slave Theology, 1830-1861
 Research Mentor: Alison Booth
 Research Institution: University of Virginia
 Home Institution: Morehouse College
 Co-Authors: Alison Booth, University of Virginia - Education Sciences
 HU

Aaron Hudson..... 5:45 PM, Glen I

Presentation Title: An Analysis of the Interaction Between Obesity and Measures Predicting Prostate Cancer-Free Survival
 Research Mentor: Knashawn Morales
 Research Institution: University of Pennsylvania
 Home Institution: University of Illinois at Urbana-Champaign
 Co-Authors: Knashawn Morales, University of Pennsylvania
 AB

Jason Hughes..... 2:45 PM, Westover

Presentation Title: Changes in Metallic Glass Thin Film Microstructures upon Annealing in Supercooled Liquid Region
 Research Mentor: Yanhui Liu
 Research Institution: Yale University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Jingbei Liu and Yanhui Liu, Yale University
 EN

Felipe Huicochea..... 5:00 PM, Cove II

Presentation Title: Perceptions of Mexican Restaurants in Yelp Reviews
 Research Mentor: Tomas Jimenez
 Research Institution: Stanford University
 Home Institution: UCLA
 Co-Authors: Tomas Jimenez and Anna Boch, Stanford University
 SS

Joanna Hurtado 12:30 PM, Alder

Presentation Title: Characterization of ER Stress Mediated ARPE Cell Death Triggered by Lipofuscin Bisretinoid A2E
 Research Mentor: Marcelo Nociari
 Research Institution: Weill Cornell Graduate School
 Home Institution: CSU Northridge
 Co-Authors: Marcelo Nociari, Weill Cornell Graduate School
 BB

Oscar Hurtado5:00 PM, Cove I

Presentation Title: Mission Gentrification: Finding Spatial Meaningfulness and Cultural Identity in San Francisco
 Research Mentor: Ann Pellegrini
 Research Institution: New York University
 Home Institution: Williams College
 Co-Authors: Ann Pellegrini, New York University
 HU

Shermaine Hutchins 3:30 PM, Glenbrook

Presentation Title: Corroborating the Involvement of Polymerase Beta in Non-Homologous End Joining via DNA Basic Local Alignment Search Tool
 Research Mentor: Sreerupa Ray
 Research Institution: Yale University
 Home Institution: Bowling Green State University
 Co-Authors: Joann Sweasy, Sreerupa Ray and Alireza Senejani, Yale University
 BB

Chibuokem Ikwuazom 5:30 PM, Elm I

Presentation Title: SSRIs Upregulate Expression of 5-HT1A Receptor mRNA in the Dentate Gyrus of Major Depression Disorder Patients
 Research Mentor: Ciara Torres
 Research Institution: Columbia University
 Home Institution: SUNY at Albany
 Co-Authors: Maura Boldrini and Cristina Rossino, New York State Psychiatric Institute
 AB

Geena Ildefonso12:00 PM, Glen II

Presentation Title: Mathematical Modeling of the NF- κ B Signaling Pathway Using PySB
 Research Mentor: Carlos Lopez
 Research Institution: Vanderbilt University
 Home Institution: University of Central Florida
 Co-Authors: Carlos Lopez and Alex Lubbock, Vanderbilt University
 AB

Arielle Irizarry12:00 PM, Cove I

Presentation Title: Disassembling Logic With Historical Context and Feeling in 20th to 21st Century Literature
 Research Mentor: Adrienne Brown
 Research Institution: University of Chicago
 Home Institution: Hunter College
 Co-Authors: Adrienne Brown, University of Chicago
 HU

Mauricio Isaac..... 2:45 PM, Glen I

Presentation Title: The Role of Lipid Phosphatase SHIP
In Skeletal Development
Research Mentor: Olin Liang
Research Institution: Brown University
Home Institution: Santa Barbara City College
Co-Authors: Olin Liang, Brown University
AB

Ehiremen Iyoha..... 3:45 PM, High Ridge

Presentation Title: The Role of SDF1B in the
Development of the Hypobronchial Artery
in Zebrafish
Research Mentor: Holger Knaut
Research Institution: New York University
Sackler Institute
Home Institution: University of Georgia
Co-Authors: Danielle Nagelberg and Holger Knaut,
New York University Sackler Institute
BB

Jihane Jadi 5:30 PM, Glenbrook

Presentation Title: Labeling Autophagosomes with
Fluorescent Markers to Investigate Autophagy in
Neurons of C. Elegans
Research Mentor: Sarah Hill
Research Institution: Yale University
Home Institution: University of North Carolina
Chapel Hill
Co-Authors: Sarah Hill and Daniel Colon Ramos,
Yale University
BB

Mahmoud Jalloh3:00 PM, Springdale II

Presentation Title: Reflections on Physics: Philosophy,
the Limits of Reason, and the Human Perspective
Research Mentor: Edward Hall
Research Institution: Harvard University
Home Institution: Northeastern University
Co-Authors: Edward Hall, Harvard University
HU

Couger Jaramillo..... 11:30 AM, Elm II

Presentation Title: The Ins and Outs of Calreticulin
Induction of ECM
Research Mentor: Leslie Gold
Research Institution: New York University
Sackler Institute
Home Institution: Harvard University
Co-Authors: Leslie Gold, Unnati Pandya and Julien
Daubriac, New York University Sackler Institute
AB

August Jenkins 4:45 PM, Belltown

Presentation Title: Content and Context Limitations
with University Level International Students:
Reader's Gender, Topic Knowledge and
Comprehension
Research Mentor: Cindy Brantmeier
Research Institution: Washington University in St. Louis
Home Institution: Michigan State University
Co-Authors: Cindy Brantmeier and Lyndsie Schultz,
Washington University in St. Louis
HU

Tiarra Joell..... 5:00 PM, Glen I

Presentation Title: Defining Asthma Pathology
Associated with Airway Acidification Through
a Molecular Window of the Ovarian Cancer G
Protein-Coupled Receptor 1
Research Mentor: Steven An
Research Institution: Johns Hopkins University
Home Institution: Claflin University
Co-Authors: Jessie Huang, Wanqu Zhu and Steven An,
Johns Hopkins University
AB

Malikia Johnson..... 11:30 AM, Waterside

Presentation Title: Missing Lives: Diversifying
Representations of African-American Women
in Elementary Texts
Research Mentor: Alison Booth
Research Institution: University of Virginia
Home Institution: Howard University
Co-Authors: Alison Booth, University of Virginia -
Education Sciences
SS

Ayanna Jones.....11:30 AM, Long Ridge

Presentation Title: Dynamics of Habitable Planets in the
Triple-Star System Alpha Centauri
Research Mentor: Daniel Fabrycky
Research Institution: University of Chicago
Home Institution: Clark Atlanta University
Co-Authors: Daniel Fabrycky, University of Chicago
PS

Shirley Jusino 2:45 PM, Aspen II

Presentation Title: Role of the Human Parainfluenza
Virus Type 3 Fusion Machinery in Viral Growth in
the Natural Host
Research Mentor: Anne Moscona
Research Institution: Weill Cornell Graduate School
Home Institution: UPR-Ponce
Co-Authors: Laura M. Palermo and Anne Moscona,
Weill Cornell Graduate School
AB

Jasmine Kaur 5:15 PM, Aspen II

Presentation Title: Prostaglandin J2 alters Amyloid Precursor Protein (APP) Localization and Trafficking: Relevance to Alzheimers Disease
 Research Mentor: Maria Figueiredo-Pereira
 Research Institution: Hunter College
 Home Institution: University of Indianapolis
 Co-Authors: Maria Figueiredo-Pereria and Teneka Jean-Louis, Hunter College
 BB

Hebron Kelecha..... 11:15 AM, Elm II

Presentation Title: The Cellular Localization of KRIT1
 Research Mentor: David Calderwood
 Research Institution: Yale University
 Home Institution: University of Kansas
 Co-Authors: Kyle Draheim and David Calderwood, Yale University
 BB

Sarah Keltz 4:45 PM, High Ridge

Presentation Title: Colocalization of NMDA Receptor and Prion Protein in Mouse Primary Hippocampal Neurons
 Research Mentor: Martin Sadowski
 Research Institution: New York University
 Home Institution: Harvard University
 Co-Authors: Martin Sadowski, New York University Sackler Institute
 AB

Assama Ketegou.....3:00 PM, Aspen I

Presentation Title: The Effects of Pediatric SIV Infection on Neurogenesis
 Research Mentor: Mark Burke
 Research Institution: Howard University
 Home Institution: New York University
 Co-Authors: Mark Burke, Howard University
 AB

Aleena Khan..... 3:30 PM, Springdale I

Presentation Title: American Public Opinion of the United States' Standpoint on the Palestinian-Israeli Conflict
 Research Mentor: Robert Shapiro
 Research Institution: Columbia University
 Home Institution: Simmons College
 Co-Authors: Robert Shapiro, Columbia University
 PE

Rody Kingston 5:00 PM, Long Ridge

Presentation Title:: The Cellular Mechanisms Underlying the Effects of the Tail Suspension Test
 Research Mentor: Ana Carneiro
 Research Institution: Vanderbilt University
 Home Institution: Morehouse College
 Co-Authors: Ana Carneiro, Vanderbilt University
 BB

Jasmine Kirby..... 11:30 AM, Belltown

Presentation Title:: Challenging Racist Assumptions of Biological Origins of Violence and the Ethics of Human Experimentation on Marginalized Populations: The UCLA Violence Research Controversy 1972-1974
 Research Mentor: Evelyn Hammonds
 Research Institution: Harvard University
 Home Institution: University of Illinois at Urbana-Champaign
 Co-Authors: Evelyn Hammonds, Harvard University
 HU

Tiara Lacey 5:45 PM, Long Ridge

Presentation Title: CaMKII Alpha Expression Patterns in the Mouse Ventral Tegmental Area
 Research Mentor: Marina Picciotto
 Research Institution: Yale University
 Home Institution: Spelman College
 Co-Authors: Marina Picciotto and Megan Miller, Yale University
 AB

Yauheniya Lahoda..... 3:15 PM, Glenbrook

Presentation Title: Augmenting the Edge Connectivity of Planar Straight Line Graphs to Two
 Research Mentor: Csaba D. Toth
 Research Institution: Tufts University
 Home Institution: CSU Northridge
 Co-Authors: Csaba Toth, Tufts University
 PS

Tianjian Lai 12:00 PM, Waterside

Presentation Title: What Counts as Bullying?: Ethnic and Gender Differences in Adolescents' Interpretations of Peer Victimization
 Research Mentor: Grace Kao
 Research Institution: University of Pennsylvania Arts & Sciences
 Home Institution: University of Chicago
 Co-Authors: Grace Kao, University of Pennsylvania
 SS

Paige Leary 5:30 PM, Westover

Presentation Title: Clarifying Phenotypes of Glass
Target Genes in Drosophila Photoreceptor
Differentiation

Research Mentor: Jessica Treisman

Research Institution: New York University

Sackler Institute

Home Institution: New College of Florida

Co-Authors: Jessica Treisman and Carolyn Morrison,
New York University Sackler Institute

BB

Brittanie Lewis11:15 AM, Cove II

Presentation Title: The Iranian Woman in the Chador:
Symbolic Representation of Nationhood in
the 1970s

Research Mentor: Marwa Elshakry

Research Institution: Columbia University

Home Institution: Amherst College

Co-Authors: Marwa Elshakry and Westenley Alcenat,
Columbia University

HU

Lesia Liao..... 5:15 PM, Elm I

Presentation Title: Sex Differences in Anxiety-Like
Behavior in Response to a Synthetic Cannabinoid

Research Mentor: Vanya Quiñones-Jenab

Research Institution: Hunter College

Home Institution: Swarthmore College

Co-Authors: Vanya Quiñones-Jenab, Shirzad Jenab and
Helen French, Hunter College

BB

Emily Linton4:00 PM, Elm II

Presentation Title: Analysis of Helicobacter pylori
Growth and Protein Secretion under Multiple
Culture Conditions

Research Mentor: Timothy Cover

Research Institution: Vanderbilt University

Home Institution: Campbell University

Co-Authors: Timothy Cover, Rhonda Caston and
Christina Snider, Vanderbilt University

BB

Susie Lira-Gonzalez 3:15 PM, Westover

Presentation Title: Ethnographic Analysis of First-Year
Engineering Design Teams and Senior Engineering
Design Teams

Research Mentor: Mark Rentschler

Research Institution: University of Colorado Boulder

Home Institution: Gonzaga University

Co-Authors: Mark Rentschler and Carlye Lauff,
University of Colorado Boulder

EN

Christopher Lites5:15 PM, Elm II

Presentation Title: Effects of Epigallocatechin Gallate on
Astrocyte Activation In METH-induced Toxicity

Research Mentor: Jesus Angulo

Research Institution: Hunter College

Home Institution: Columbia University

Co-Authors: Allen Pan and Jesus Angulo,
Hunter College

BB

Anthony Longoria..... 3:00 PM, Belltown

Presentation Title: Investigating the Molecular Pathways
of Methamphetamine Impact on Hippocampal-
Dependent Spatial Memory Performance

Research Mentor: Peter Serrano

Research Institution: Hunter College

Home Institution: Saint Edward's University

Co-Authors: Peter Serrano, Hunter College

SS

Lindsey Lopes 4:45 PM, Glenbrook

Presentation Title: Identifying Neuropeptides
Regulating C. Elegans Sleep

Research Mentor: David Raizen

Research Institution: University of Pennsylvania

Home Institution: Haverford College

Co-Authors: David Raizen and Michael Iannacone,
University of Pennsylvania

BB

Katherine Lopez.....5:30 PM, Elm II

Presentation Title: BDNF Prodomain Polymorphism
Val66Met Induces Neuronal Changes

Research Mentor: Francis Lee

Research Institution: Weill Cornell Graduate School

Home Institution: Hunter College

Co-Authors: Joanna Giza and Francis Lee, Weill Cornell
Graduate School

BB

Mike Lopez..... 12:30 PM, Westover

Presentation Title: Fostering Scientific Identity in
Underrepresented Minorities Through Informal
Science Programs: The Role of PISEC

Research Mentor: Noah Finkelstein

Research Institution: University of Colorado Boulder

Home Institution: UC San Diego

Co-Authors: Noah Finkelstein, Kathleen Hinko and
Simone Hyater-Adams, University of Colorado

Boulder

PS

Chloe Lopez-Lee 5:15 PM, High Ridge

Presentation Title: The Influence of Estrogen Receptor Alpha on Hippocampal Phosphorylated TrkB Synaptic Plasticity

Research Mentor: Teresa Milner

Research Institution: Weill Cornell Graduate School

Home Institution: Mount Holyoke College

Co-Authors: Teresa Milner and Sanoara Mazid, Weill Cornell Graduate School

AB

Raymond Lopez-Rios 3:45 PM, Westover

Presentation Title: Hyperspectral Coherent Diffractive Imaging Using Ptychography

Research Mentor: Henry Kapteyn

Research Institution: University of Colorado Boulder

Home Institution: University of Rochester

Co-Authors: Henry Kapteyn, Margaret Murnane and Dennis Gardner, University of Colorado Boulder

PS

Ana Maldonado3:45 PM, Cove I

Presentation Title: Intimate Partner Violence: The Effects of Perpetrator Characteristics on Treatment Engagement and Outcome

Research Mentor: Christopher Murphy

Research Institution: University of Maryland, Baltimore County

Home Institution: Princeton University

Co-Authors: Christopher Murphy, University of Maryland, Baltimore County

SS

Syeda Malliha 5:15 PM, Springdale I

Presentation Title: What Factors Influence Public Opinion on Natural Disasters?

Research Mentor: Robert Shapiro

Research Institution: Columbia University

Home Institution: Amherst College

Co-Authors: Robert Y. Shapiro, Columbia University

PE

Elena Malloy..... 3:00 PM, Glenbrook

Presentation Title: On the Study of Discriminants and Resultants of Polynomials over Finite Fields

Research Mentor: Elena Malloy

Research Institution: University of Chicago

Home Institution: Yale University

Co-Authors: Benson Farb and Claudio Gonzales, University of Chicago; Marcus Morales, Heritage University

PS

Tomaz Manzoni 3:00 PM, Aspen II

Presentation Title: Modeling Interactions Between APOBEC3G and HIV Vif Polymorphs In vivo

Research Mentor: Susan Ross

Research Institution: University of Pennsylvania

Home Institution: St. Olaf College

Co-Authors: Cristhian Cadena, Spyridon Stavrou and Susan Ross, University of Pennsylvania

AB

Benny Marin-Acevedo..... 4:00 PM, Alder

Presentation Title: Differential Expression of Micro-RNAs in Hypertrophic Cardiomyopathy Mouse Model

Research Mentor: Benny Marin-Acevedo

Research Institution: University of Colorado Boulder

Home Institution: UPR-Rio Piedras

Co-Authors: Leslie Leinwand and Kaylan Haizlip, University of Colorado Boulder

AB

Cynthia Marrero-Ramos 12:15 PM, Cove II

Presentation Title: El Diablito Subterneo: Hidden Knowledge, Public Power, and the Abaku Society in Colonial Cuba

Research Mentor: Aisha Khan

Research Institution: New York University

Home Institution: DePaul University

Co-Authors: Aisha Khan, New York University - Arts & Sciences

HU

Amra Marshall12:15 PM, Waterside

Presentation Title: Social Support and Educational Attainment: The Pursuit of Academic Achievement in African American Male College Freshman

Research Mentor: Micere Keels

Research Institution: University of Chicago

Home Institution: Bennett College

Co-Authors: Micere Keels, University of Chicago

SS

Victor Martinez..... 11:45 AM, Elm II

Presentation Title: Examining the Sub-Cellular Localization of the Ajuba Protein in Human Cells

Research Mentor: Diego Loayza

Research Institution: Hunter College

Home Institution: UPR-Mayaguez

Co-Authors: Diego Loayza, Hunter College

BB

Matheus Martins.....12:30 PM, Aspen I

Presentation Title: Engineering a Selective DNA Sequestration Platform for Biomolecular Nanotechnology
Research Mentor: William Shih
Research Institution: Harvard University, Division of Medical Sciences
Home Institution: University of Texas at Austin
Co-Authors: Elisha Krieg and William Shih, Harvard Medical School
AB

Sarah Master3:30 PM, Waterside

Presentation Title: Trauma-Related Symptoms and Reduced Gray Matter Volume in the Ventral Anterior Cingulate Cortex
Research Mentor: Mariann Weierich
Research Institution: Hunter College
Home Institution: Brown University
Co-Authors: Mariann R. Weierich and Seungyeon A. Yoon, Hunter College
SS

Stephanie Matos 11:15 AM, Waterside

Presentation Title: Cultures of Ethics in Engineering-for-Development (EfD) and Design-for-Development (DfD) University-Based Programs
Research Mentor: Shawhin Roudbari
Research Institution: University of Colorado Boulder
Home Institution: University of Central Florida
Co-Authors: Shawhin Roudbari, University of Colorado Boulder
SS

Monique McClain 11:15 AM, Glenbrook

Presentation Title: Lagrangian Coherent Structures in High-Speed Premixed Turbulent Reacting Flows
Research Mentor: Peter Hamlington
Research Institution: University of Colorado Boulder
Home Institution: UC San Diego
Co-Authors: Peter Hamlington and Clarissa Briner, University of Colorado Boulder
EN

Kiara McDaniel.....5:00 PM, Aspen I

Presentation Title: Development of Melanoma 3D-organoids: A New Preclinical Model for the Understanding and Treatment of Melanoma
Research Mentor: Iman Osman
Research Institution: New York University Sackler Institute
Home Institution: North Carolina A&T State University
Co-Authors: Iman Osman, Eleazar Vega y Saenz de Miera and Amel Salhi, New York University Sackler Institute
AB

Nasib McIntosh12:30 PM, Cove I

Presentation Title: Some Vaster, Mightier Thing: Representations of Intimacy in Afrofuturist Literature
Research Mentor: Herman Beavers
Research Institution: University of Pennsylvania Arts & Sciences
Home Institution: New College of Florida
Co-Authors: Herman Beavers, University of Pennsylvania
HU

Grace McKenzie-Smith11:30 AM, Aspen II

Presentation Title: Antigen Development for Human and Mouse CENP-A and CENP-C
Research Mentor: Benjamin Black
Research Institution: University of Pennsylvania
Home Institution: Bowdoin College
Co-Authors: Samantha J. Falk, Lucie Y. Guo and Ben E. Black, University of Pennsylvania
BB

Christopher Mendoza.....3:00 PM, Waterside

Presentation Title: First Impressions: A Prosodic Analysis of Interactional Style and Social Perception
Research Mentor: Renée Blake
Research Institution: New York University
Home Institution: Macalester College
Co-Authors: Renée Blake, New York University - Arts & Sciences
HU

Michael Menefee 5:15 PM, Cove II

Presentation Title: Criminal Records, Race, and the Search for Work
Research Mentor: Devah Pager
Research Institution: Harvard University
Home Institution: Southern Oregon University
Co-Authors: Devah Pager, Harvard University
SS

Arnaldo Mercado-Perez4:00 PM, Glen II

Presentation Title: Metabolic Flux Analysis of Obesity-Associated Inflammation
Research Mentor: Jose Aleman
Research Institution: Weill Cornell Graduate School
Home Institution: Johns Hopkins University
Co-Authors: Max Schechter, Jose Aleman and Jan Breslow, Weill Cornell Graduate School
BB

Grace Milburn.....5:45 PM, Glen II

Presentation Title: Investigating the Role of CXCR4 in T-Cell Acute Lymphoblastic Leukemia
 Research Mentor: Susan Schwab
 Research Institution: New York University Sackler Institute
 Home Institution: Saint Louis University
 Co-Authors: Susan Schwab and Lauren Pitt, New York University Sackler Institute
 BB

Jared Mitchell11:15 AM, Long Ridge

Presentation Title: Sharpening the Image of the Universe
 Research Mentor: Suzanne Staggs
 Research Institution: Princeton University
 Home Institution: Morehouse College
 Co-Authors: Suzanne Staggs and Steve Choi, Princeton University
 PS

Victoria Mogollon Montagne.....5:45 PM, Cove I

Presentation Title: Preparing for the Show: Ideologies of Children's Development at Two New York City Community Music Programs
 Research Mentor: Aaron Fox
 Research Institution: Columbia University
 Home Institution: University of Denver
 Co-Authors: Aaron A. Fox, Columbia University
 HU

David Molina3:15 PM, Glen II

Presentation Title: Area-level Determinants of Blood Pressure Across the Life Course
 Research Mentor: Eric Loucks
 Research Institution: Brown University
 Home Institution: University of Rhode Island
 Co-Authors: Eric Loucks and Marcia Pescador Jimenez, Brown University
 AB

Salvador Montes.....11:45 AM, Westover

Presentation Title: Measuring Dynamic Instability of Microtubules
 Research Mentor: Meredith Betterton
 Research Institution: University of Colorado Boulder
 Home Institution: CSU Stanislaus
 Co-Authors: Meredith Betterton and Zachery Gargeley, University of Colorado Boulder
 PS

Anna Morales..... 11:45 AM, Alder

Presentation Title: The Molecular Effects of In utero Nicotine Exposure on C57BL/6 Mice and Their Progeny
 Research Mentor: Jerry Stitzel
 Research Institution: University of Colorado Boulder
 Home Institution: University of Texas at Dallas
 Co-Authors: Jerry Stitzel and Heidi O'Neill, University of Colorado Boulder
 BB

Ari Morgenstern 5:15 PM, Glen III

Presentation Title: AMIGO2 is a Novel Therapeutic Target in Melanoma
 Research Mentor: Eva Hernando
 Research Institution: New York University Sackler Institute
 Home Institution: University of Rochester
 Co-Authors: Barbara Fontanals-Cirera, New York University Sackler Institute; Dan Hasson, Icahn School of Medicine at Mount Sinai; Emily Bernstein, Icahn School of Medicine at Mount Sinai; and Eva Hernando, New York University Sackler Institute
 AB

Cheswayo Mphanza 12:30 PM, Belltown

Presentation Title: Tha Block Is Hot: Gwendolyn Brooks' Black Aesthetic
 Research Mentor: Farah Griffin
 Research Institution: Columbia University
 Home Institution: Middlebury College
 Co-Authors: Farah Griffin, Columbia University
 HU

Jessica Murdzek.....11:15 AM, High Ridge

Presentation Title: Atomically Flat BaSnO₃ Surface as a Novel Substrate for Epitaxial Films Growth
 Research Mentor: Charles Ahn
 Research Institution: Yale University
 Home Institution: University of Connecticut
 Co-Authors: Charles Ahn and Daniela Morales, Yale University
 EN

Saparja Nag 4:00 PM, Glenbrook

Presentation Title: Synthesis and Characterization of Magnetic Contrast Agent Liposomes for Biomedical Imaging Applications
 Research Mentor: Paul Van Tassel
 Research Institution: Yale University
 Home Institution: Vassar College
 Co-Authors: Paul Van Tassel, Yale University
 AB

Maria Navarro 5:00 PM, Elm I
 Presentation Title: Striatal Gene Expression Changes
 Associated with Sex-Specific Behavioral Deficits in
 Mouse Models of Autism
 Research Mentor: Ted Abel
 Research Institution: University of Pennsylvania
 Home Institution: University of Miami
 Co-Authors: Nicola Grissom, Shaila Berlas and
 Ted Abel, University of Pennsylvania
 AB

Natasha Navejar 11:30 AM, Alder
 Presentation Title: A Kinematic Analysis of Reaching
 in the Naturally Foraging Common Marmoset
 (*Callithrix jacchus*)
 Research Mentor: Nicholas Hatsopoulos
 Research Institution: University of Chicago
 Home Institution: Tulane University
 Co-Authors: Nicholas Hatsopoulos and Jeffrey Walker,
 University of Chicago
 AB

Libere Ndacayisaba 11:45 AM, Glen I
 Presentation Title: Exploring miRNA Silencing
 Mechanisms Using Machine Learning Algorithms
 to Discover Biologically-Relevant Pathway Nodes
 Research Mentor: Yuan Wang
 Research Institution: Novartis Institutes for
 BioMedical Research
 Home Institution: Syracuse University
 Co-Authors: Yuan Wang, Novartis Institutes for
 Biomedical Research
 AB

Armand Ngassam 2:45 PM, Glenbrook
 Presentation Title: Treatment of Water with Modified
 MFI Zeolites and UV Radiation
 Research Mentor: Karl Linden
 Research Institution: University of Colorado Boulder
 Home Institution: University of Maryland, College Park
 Co-Authors: Karl Linden and Natalie Hull, University
 of Colorado Boulder
 EN

Binh Nguyen 2:45 PM, Glen II
 Presentation Title: Studying the Localization and
 Dynamics of Adherens Junction Proteins in
 Epithelial Cells Under Force
 Research Mentor: William Razzell
 Research Institution: Weill Cornell Medical College
 Home Institution: Lehman College CUNY
 Co-Authors: William Razzell and Jennifer Zallen,
 Weill Cornell Medical College
 BB

Logan Northcutt 4:45 PM, Alder
 Presentation Title: Manipulating Chemokines and
 TBF-Beta to Enhance Neutrophil Killing and
 Reduce Metastasis
 Research Mentor: Ann Richmond
 Research Institution: Vanderbilt University
 Home Institution: Morehouse College
 Co-Authors: Nicole Lavender, Jiming Yang and Ann
 Richmond, Vanderbilt University
 BB

Ron Nwumeh 5:15 PM, Glen II
 Presentation Title: The Role of TERT Promotor
 Mutations in Oncogenesis
 Research Mentor: Thomas Cech
 Research Institution: University of Colorado Boulder
 Home Institution: Washington University in St. Louis
 Co-Authors: Tom Cech and Josh Stern, University of
 Colorado Boulder
 BB

Juliana Nzongo 3:30 PM, Elm II
 Presentation Title: Genetic Screen of Novel *Vibrio*
Cholerae Factors Involved in Biofilm Dispersal
 During Infection
 Research Mentor: Jun Zhu
 Research Institution: University of Pennsylvania
 Home Institution: San Francisco State University
 Co-Authors: Jun (Jay) Zhu and Amanda Hay,
 University of Pennsylvania
 BB

Prisca Obi 3:15 PM, Glen I
 Presentation Title: Characterization of Murine Model
 of Osteogenesis Imperfecta Type VII in CRTAP
 Deficient Male Mice
 Research Mentor: Adele Boskey
 Research Institution: Weill Cornell Medical College
 Home Institution: Harvard University
 Co-Authors: Lyudmila Lukashova, Lyudmila Spevak
 and Adele Boskey, Hospital for Special Surgery
 BB

Trini Ochoa 4:00 PM, Aspen II
 Presentation Title: Revisiting Classical Definitions of
 Hemagglutinin Antigenic Sites Using Different
 H1N1 Strains
 Research Mentor: Scott Hensley
 Research Institution: University of Pennsylvania
 Home Institution: University of Texas at El Paso
 Co-Authors: Scott E. Hensley, Susanne L. Linderman
 and Seth J. Zost, University of Pennsylvania
 BB

Victoria Ochoa4:45 PM, Springdale II

Presentation Title: Latinos and the Media
 Research Mentor: Gary Segura
 Research Institution: Stanford University
 Home Institution: Saint Edward's University
 Co-Authors: Gary Segura, Stanford University
 PE

Nnaemeka Ofodire 3:15 PM, Springdale I

Presentation Title: Challenges for Renewable Energy
 Implementation in Sub-Saharan Africa
 Research Mentor: Amaney Jamal
 Research Institution: Princeton University
 Home Institution: UC Berkeley
 Co-Authors: Amaney Jamal, Princeton University
 SS

Adaeze Okoli 12:15 PM, Belltown

Presentation Title: Migration in the Rainbow Nation: A
 Look at Internal Migration in South Africa 20 Years
 Post-Apartheid
 Research Mentor: Michael White
 Research Institution: Brown University
 Home Institution: Ohio State University
 Co-Authors: Michael White, Brown University
 SS

Chimdiya Onwukwe4:45 PM, Elm II

Presentation Title: Exploring Nicotine Induced
 Aversion in Projections from the Interpenduncular
 Nucleus to the Dorsal Raphe Nucleus
 Research Mentor: Daniel McGehee
 Research Institution: University of Chicago
 Home Institution: University of Maryland,
 Baltimore County
 Co-Authors: Daniel McGehee, Shannon Wolfman
 and Daniel Gill, University of Chicago
 BB

Michael Onyszczak11:45 AM, High Ridge

Presentation Title: A Schrodinger-Poisson Solver for
 Oxide Interfaces
 Research Mentor: Sohrab Ismail-Beigi
 Research Institution: Yale University
 Home Institution: Iowa State University
 Co-Authors: Sohrab Ismail-Beigi, Yale University
 PS

Alberto Ortiz..... 12:15 PM, High Ridge

Presentation Title: Synthesis of a Superlattice and
 LaNiO₃ and Effect of Oxygen Annealing
 Research Mentor: Frederick Walker
 Research Institution: Yale University
 Home Institution: Central Connecticut State University
 Co-Authors: Fred Walker, Ankit Disa and Divine
 Kumah, Yale University
 EN

Jeremy Pagan.....3:15 PM, Cove I

Presentation Title: From Stereotype Threat to Violence:
 The Focus on Police & Demonstrators During
 a "Perfect Storm"
 Research Mentor: James Sidanius
 Research Institution: Harvard University
 Home Institution: DePaul University
 Co-Authors: James Sidanius and Sa-Kiera Hudson,
 Harvard University
 SS

Andria Palmer..... 12:30 PM, Long Ridge

Presentation Title: Radiation Modeling in GEO and
 Jupiter Radiation Environments
 Research Mentor: Fran Bagenal
 Research Institution: University of Colorado Boulder
 Home Institution: University of West Florida
 Co-Authors: Timothy Cassidy and Fran Bagenal,
 University of Colorado Boulder
 PS

Thibaut Pardo 4:45 PM, Westover

Presentation Title: Behavioral Effects of a Novel Kappa
 Opioid Receptor Antagonist, LY2444296
 Research Mentor: Caroline Browne
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Irwin Lucki and Caroline Browne,
 University of Pennsylvania
 BB

Daymond Parrilla 3:00 PM, Alder

Presentation Title: Monitoring Plk4 Kinase Activity
 in Living Cells
 Research Mentor: Andrew Holland
 Research Institution: Johns Hopkins University
 Home Institution: University of South Carolina
 Co-Authors: Andrew Holland, Johns Hopkins University
 BB

Kajal Patel..... 3:00 PM, Elm I
Presentation Title: Investigating the Contribution of FIS to Stress Response and Virulence in *Yersinia*
Research Mentor: Joan Mecsas
Research Institution: Tufts University Graduate BioMedical Sciences
Home Institution: Clemson University
Co-Authors: Joan Mecsas and Erin Green, Tufts University School of Graduate Biomedical Sciences
BB

Andrea Penman-Lomeli 11:15 AM, Belltown
Presentation Title: Bodies that Work: Citizenship and the Rendering of Chicana/o Identity in Tomas Rivera's "y no se lo trago la tierra"
Research Mentor: Joseph Slaughter
Research Institution: Columbia University
Home Institution: Middlebury College
Co-Authors: Joseph Slaughter, Columbia University
HU

Swathi Penumutthu 3:00 PM, Long Ridge
Presentation Title: Impact of Antibiotics on Horizontal Gene Transfer in *Vibrio cholerae*
Research Mentor: Peter Belenky
Research Institution: Brown University
Home Institution: University of Maryland, Baltimore County
Co-Authors: Peter Belenky and Benjamin Korry, Brown University
BB

Daniel Perez 12:15 PM, Alder
Presentation Title: Analyzing the Effects of Parental Dietary Stressors on Embryonic Development in *C. elegans*
Research Mentor: John Murray
Research Institution: University of Pennsylvania
Home Institution: University of Florida
Co-Authors: John Isaac Murray, University of Pennsylvania
BB

Jonatan Perez..... 12:00 PM, Cove II
Presentation Title: Closing the Door: LULAC and the Exclusion of Mexican Immigrants in San Antonio, Texas During the Great Depression
Research Mentor: Ana Minian
Research Institution: Stanford University
Home Institution: Brown University
Co-Authors: Monica Martinez and Ana Minian, Stanford University
HU

Ricardo Perez Dulzaides 12:30 PM, Glen III
Presentation Title: TET Enzyme Variants as Tools to Understand Cytosine Epigenetic Modifications
Research Mentor: Rahul Kohli
Research Institution: University of Pennsylvania
Home Institution: Florida International University
Co-Authors: Monica Yun Liu and Rahul Kohli, University of Pennsylvania
BB

Christopher Persaud.....5:00 PM, Springdale II
Presentation Title: Social Science Research, Media Response, and Moral Judgment: Content Analysis of News Articles on the "LaCour Scandal"
Research Mentor: Michèle Lamont
Research Institution: Harvard University
Home Institution: Temple University
Co-Authors: Michèle Lamont, Harvard University
SS

Michael Pineda..... 11:45 AM, Glen II
Presentation Title: Geospatial Characterization Of Distinct Metagenomic Landscapes
Research Mentor: Christopher Mason
Research Institution: Weill Cornell Medical College
Home Institution: Arizona State University
Co-Authors: Christopher Mason, Weill Cornell Medical College
BB

Kayla Pinson5:30 PM, Cove I
Presentation Title: The Narrow Path to Justice: Amnesty and Memory in Post Apartheid South Africa
Research Mentor: Allison Booth
Research Institution: University of Virginia
Home Institution: Virginia State University
Co-Authors: Allison Booth, University of Virginia - Education Sciences
HU

Rebecca Plessel..... 3:30 PM, High Ridge
Presentation Title: Identifying Self-Renewal Factors That Maintain Stem Cells in *Drosophila* Testes
Research Mentor: Erika Bach
Research Institution: New York University Sackler Institute
Home Institution: Pennsylvania State University
Co-Authors: Erika Bach, Shally Margolis and Lydia Grmai, New York University Sackler Institute
BB

Mariyah Pressley 2:45 PM, Long Ridge

Presentation Title: Antibacterial Effects of Substrate Composition
 Research Mentor: Themis Kyriakides
 Research Institution: Yale University
 Home Institution: North Carolina A&T State University
 Co-Authors: Jagannath Padmanabhan, Bettina Cheung and Themis Kyriakides, Yale University
 AB

Amanda Ramdular 3:00 PM, Westover

Presentation Title: Diversity Oriented Synthesis of a Novel Benzannulated Spiroketal Screening Library
 Research Mentor: Derek Tan
 Research Institution: Weill Cornell Graduate School
 Home Institution: Hunter College
 Co-Authors: Corinne Foley, Memorial Sloan Kettering Cancer Center; Derek Tan, Weill Cornell Graduate School
 PS

Blanca Ramirez 3:45 PM, Cove II

Presentation Title: Is Adolescent Intimate Partner Violence a Learned Behavior? Insights from the Fragile Families Study
 Research Mentor: Marta Tienda
 Research Institution: Princeton University
 Home Institution: CSU Fullerton
 Co-Authors: Marta Tienda, Princeton University
 SS

Tara Ramirez 11:45 AM, Elm I

Presentation Title: Expression Screening of TRP Channels for Structural and Biochemical Studies
 Research Mentor: Alexander Sobolevsky
 Research Institution: Columbia University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Alexander Sobolevsky and Kei Saotome, Columbia University
 BB

Tania Ramos Santiago 5:45 PM, High Ridge

Presentation Title: Development of Gene Therapy for Leber's Congenital Amaurosis Due to RDH12 Mutations
 Research Mentor: Jean Bennett
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Jean Bennett and Vidyullatha Vasireddy, University of Pennsylvania
 BB

Gerardo Reyes Chavez 11:30 AM, Elm I

Presentation Title: Logistics of the Vitellogenin and Yolk Proteins in the Sea Star, Patiria miniata
 Research Mentor: Gary Wessel
 Research Institution: Brown University
 Home Institution: LaGuardia Community College CUNY
 Co-Authors: Gary Wessel, Brown University; Thomas Onorato, LaGuardia Community College; Vanesa Zazueta, Brown University
 BB

Joel Rhone 11:45 AM, Cove I

Presentation Title: Surveillance, Policing, and the Politics of Space in Superman Comic Books
 Research Mentor: Alison Booth
 Research Institution: University of Virginia
 Home Institution: Howard University
 Co-Authors: Alison Booth, University of Virginia - Education Sciences
 HU

Remington Rimple 4:00 PM, Glen III

Presentation Title: Evaluating the Efficacy of Silk Sponge Patches for In Vivo Repair of the Heart Following Myocardial Infarction Using Immunohistochemistry
 Research Mentor: Lauren Black III
 Research Institution: Tufts University
 Home Institution: CSU San Marcos
 Co-Authors: Whitney L. Stoppel, Kelly E. Sullivan and Lauren D. Black III, Tufts University
 AB

Laura Ritenour 3:00 PM, Glen II

Presentation Title: Probing the Role of Adipocyte mTORC2 in Whole-Body Metabolism and Cold-Induced Thermogenesis
 Research Mentor: Joseph Baur
 Research Institution: University of Pennsylvania
 Home Institution: Messiah College
 Co-Authors: Cassie Tran and Joseph Baur, University of Pennsylvania
 AB

Osvaldo Rivera 5:30 PM, Alder

Presentation Title: Roles of BRCA2 and SLX4 in Replication- Stress-Induced Genomic Break Sites
 Research Mentor: Eric Brown
 Research Institution: University of Pennsylvania
 Home Institution: Universidad Metropolitana
 Co-Authors: Eric Brown and Nishita Shastri, University of Pennsylvania
 BB

Mario Rodriguez..... 5:45 PM, Westover

Presentation Title: Morphological and Behavioral Examination of Olfaction Recovery After Irritant Exposure in Mice
Research Mentor: Weihong Lin
Research Institution: University of Maryland, Baltimore County
Home Institution: University of Miami
Co-Authors: Weihong Lin, Kayla Lemons and David Dunston, University of Maryland, Baltimore County
BB

Krystal Roggeron4:00 PM, Aspen I

Presentation Title: Investigating the Effects of Hepatitis C Virus-induced Exosomes on T Cells
Research Mentor: Drew Cobb
Research Institution: University of Virginia School of Medicine
Home Institution: Hampton University
Co-Authors: Young S. Hahn and Drew Cobb, University of Virginia, School of Medicine
BB

Ariel Rosario3:15 PM, Waterside

Presentation Title: Examining the Effects of Divided Attention on Memory Retrieval After Different Learning Approaches
Research Mentor: Marvin Chun
Research Institution: Yale University
Home Institution: York College CUNY
Co-Authors: Marc Coutanche and Marvin Chun, Yale University
SS

Debanjan Roychoudhury 4:45 PM, Cove II

Presentation Title: All Eyes on Me: Surveillance and Policing in West Harlem's Neighborhood of Hamilton Heights
Research Mentor: Van Tran
Research Institution: Columbia University
Home Institution: Middlebury College
Co-Authors: Van Tran, Brittany Fox and Devon Wade, Columbia University
SS

Amorette Sanchez-Valdenegro ...11:30 AM, Glen III

Presentation Title: Modeling the Distribution of ChIP Pol II Along a Gene
Research Mentor: Robin Dowell
Research Institution: University of Colorado Boulder
Home Institution: Regis College
Co-Authors: Robin Dowell and Joey Azofeifa, University of Colorado Boulder
BB

Madelene Santizo..... 5:30 PM, Cove II

Presentation Title: Eres lo que Comes: Ethnic Restaurants and the (Re)production of Cultural Identities in Upper Manhattan
Research Mentor: Madelene Santizo
Research Institution: Columbia University
Home Institution: Bates College
Co-Authors: Van Tran, Devon Wade and Brittany Fox, Columbia University
SS

Ololade Sanusi 4:00 PM, Glen I

Presentation Title: Study of Novel and Ultra Rare Arrhythmogenic Gene Variants in Sudden Unexplained Deaths
Research Mentor: Yingying Tang
Research Institution: New York University Sackler Institute
Home Institution: Rutgers University
Co-Authors: Yingying Tang and Ying Lin, New York University Sackler Institute
BB

Adrienne Scott3:00 PM, Cove I

Presentation Title: American Perceptions of Welfare Policy and the Welfare Queen: An Analysis of Generosity Before and After the Great Recession
Research Mentor: Dara Strolovitch
Research Institution: Princeton University
Home Institution: Brooklyn College CUNY
Co-Authors: Dara Strolovitch, Princeton University
PE

Alina Scott..... 2:45 PM, Springdale I

Presentation Title: Research Toward a Comparison of Cherokee and Wampanoag Women's Antiremoval Petitioning
Research Mentor: Daniel Carpenter
Research Institution: Harvard University
Home Institution: Southern Nazarene University
Co-Authors: Daniel Carpenter and Nicole Topich, Harvard University
HU

Courtney Scott 4:00 PM, Springdale I

Presentation Title: Plant Species Composition on Recent Landslides on the Front Range of Colorado: Relationship Between Soil Status and Plant Characteristics
Research Mentor: Tim Seastedt
Research Institution: University of Colorado Boulder
Home Institution: University of Colorado Boulder
Co-Authors: Tim Seastedt, University of Colorado Boulder
ES

Julian Segert 5:15 PM, Glenbrook

Presentation Title: Determination of the Downstream
Ras Effector Pathway in *C. elegans* Neuroblast
Delamination

Research Mentor: Meera Sundaram

Research Institution: University of Pennsylvania

Home Institution: Swarthmore College

Co-Authors: Meera Sundaram, University of
Pennsylvania

BB

Jaqueline Serrano..... 3:15 PM, High Ridge

Presentation Title: Using Human Embryonic Stem Cells
to Recapitulate Skin Development

Research Mentor: Alessia Deglincerti

Research Institution: Weill Cornell Medical College

Home Institution: Williams College

Co-Authors: Ali H. Brivanlou and Alessia Deglincerti,
Weill Cornell Medical College

BB

Sarah Seto..... 11:15 AM, Aspen I

Presentation Title: Nucleolar Response and DNA
Damage after Exportin-1 Inhibition

Research Mentor: James Orth

Research Institution: University of Colorado Boulder

Home Institution: Johns Hopkins University

Co-Authors: James Orth and Russell Burke, University
of Colorado Boulder

BB

Rahul Sharma.....12:00 PM, Aspen I

Presentation Title: Characterizing Novel
Interactors of the Sin3B Complex and Their
Roles in Transformation

Research Mentor: Gregory David

Research Institution: New York University
Sackler Institute

Home Institution: Johns Hopkins University

Co-Authors: Gregory David and Anthony Bainor,
New York University Sackler Institute

BB

Lilybeth Shields.....2:45 PM, Waterside

Presentation Title: The Gaming Effect: Why the
Members of the Puerto Rican Gaming Community
Acquire English More Easily Than Their Peers

Research Mentor: Allison Booth

Research Institution: University of Virginia

Home Institution: UPR-Humacao

Co-Authors: Alison Booth, University of Virginia -
Education Sciences

HU

Abigail Shilvock 12:00 PM, Glen III

Presentation Title: Examining the Mechanism of
ADAR1 Mediated ISG Regulation

Research Mentor: Hachung Chung

Research Institution: Weill Cornell Medical College

Home Institution: Cornell University

Co-Authors: Hachung Chung and Charles Rice,
Weill Cornell Medical College

BB

Akinola Sogunro..... 2:45 PM, Elm I

Presentation Title: Dendritic Cell Migration Within
the Spleen Regulates the Induction of Red Blood
Cell Alloimmunization

Research Mentor: Stephanie Eisenbarth

Research Institution: Yale University

Home Institution: Johns Hopkins University

Co-Authors: Samuele Calabro and Stephanie Eisenbarth,
Yale University

BB

Isaiah Speight 12:00 PM, Westover

Presentation Title: Chemoenzymatic Synthesis of
Functionalized Galactooligosaccharides.

Research Mentor: Steven Townsend

Research Institution: Vanderbilt University

Home Institution: Norfolk State University

Co-Authors: Steven Townsend and Dorothy Ackerman,
Vanderbilt University

PS

Phillip Stephens5:45 PM, Aspen I

Presentation Title: Does Chemotherapy-induced
Peripheral Neuropathy Affect Different Sensory
Neuron Subtypes?

Research Mentor: Rosalind Segal

Research Institution: Harvard University, Division of
Medical Sciences

Home Institution: Morehouse College

Co-Authors: Rosalind Segal and Sarah Pease,
Harvard Medical School

AB

Tamrin Stewart4:00 PM, Cove I

Presentation Title: Black President, Continued Black
Suffering: Predicting African-American Political
Behavior in the Post-Obama Era

Research Mentor: Omar McRoberts

Research Institution: University of Chicago

Home Institution: UC Berkeley

Co-Authors: Omar McRoberts, University of Chicago
PE

Cesar Suarez..... 3:30 PM, Long Ridge

Presentation Title: Testing the Efficacy of a
Self-Assembling, Epitope-Based Vaccine
That Was Designed to Reduce Systematic
Chronic Inflammation

Research Mentor: Joel Collier

Research Institution: University of Chicago

Home Institution: University of Maryland,
Baltimore County

Co-Authors: Joel Collier, Carolina Mora Solano and
Jacqueline Handley, University of Chicago

AB

Cassandra Sunga..... 12:30 PM, Glen I

Presentation Title: Determining the Basis of UV
Crosslinking Between Lin28 and let-7 miRNA

Research Mentor: Elizabeth Ransey

Research Institution: Harvard University

Home Institution: Boston University

Co-Authors: Elizabeth Ransey and Piotr Sliz,
Harvard Medical School

BB

Canessa Swanson11:15 AM, Aspen II

Presentation Title: Characterization of linc-RNA Gas5
Binding Affinity to Glucocorticoid Receptor
Through Mutagenesis

Research Mentor: Nicholas Parsonnet

Research Institution: University of Colorado Boulder

Home Institution: Jackson State University

Co-Authors: Deborah Wuttke and Nicholas Parsonnet,
University of Colorado Boulder

BB

Huong Tang.....12:15 PM, Glen II

Presentation Title: Mass Spectrometric Analysis of
De novo Assembled Transcriptomes

Research Mentor: Avantika Dhabaria

Research Institution: Weill Cornell Graduate School

Home Institution: UMass Boston

Co-Authors: Avantika Dhabaria, Anton Henssen and
Alex Kentsis, Weill Cornell Graduate School

BB

Kelly Tellez 5:45 PM, Aspen II

Presentation Title: Restoration of Neuropeptide
Y Signaling in Mice Overexpressing Amyloid
Precursor Protein

Research Mentor: Makoto Ishii

Research Institution: Weill Cornell Medical College

Home Institution: Williams College

Co-Authors: Makoto Ishii, Weill Cornell
Medical College

AB

Monica Thapaliya..... 3:15 PM, Long Ridge

Presentation Title: Role of Vitamin A Metabolism in
Antimicrobial Response in Intestinal Paneth Cell

Research Mentor: Shipra Vaishnava

Research Institution: Brown University

Home Institution: Claflin University

Co-Authors: Shipra Vaishnava and Mayara
Grizotte-Lake, Brown University

BB

Chrystal Thomas.....12:30 PM, Glen II

Presentation Title: Shooting Blanks: Optimizing Mass
Spectrometry Metabolomics Methods via Analysis
of Injection Blank Effects

Research Mentor: Aalim Weljie

Research Institution: University of Pennsylvania

Home Institution: Carnegie Mellon University

Co-Authors: Aalim Weljie, Saikumari Krishnaiah and
Seth Rhoades, University of Pennsylvania

AB

Andrew Thompson 3:45 PM, Aspen II

Presentation Title: Identification of Cellular Factors
That Restrict ChiKV Replication

Research Mentor: David Levy

Research Institution: New York University

Home Institution: Colgate University

Co-Authors: David Levy and Alissa Pham, New York
University Sackler Institute

BB

Jamal Thorne 3:15 PM, Cove II

Presentation Title: The Effects of Phrasing, Visualization,
and Spatial Ability on Bayesian Reasoning

Research Mentor: Remco Chang

Research Institution: Tufts University

Home Institution: Morehouse College

Co-Authors: Remco Chang and Alvitta Ottley,
Tufts University

SS

Daniel Tirado 12:00 PM, Alder

Presentation Title: Diurnal CORT Circulation
Influences Conditioned Fear Extinction Learning
and Fear Renewal

Research Mentor: Robert Spencer

Research Institution: University of Colorado Boulder

Home Institution: University of Miami

Co-Authors: Robert Spencer and Elizabeth Woodruff,
University of Colorado Boulder

BB

Paulina Toro Isaza..... 3:45 PM, Springdale I

Presentation Title: Subnational Variation of Federal and Local State Capacity in Colombia
 Research Mentor: Miguel Centeno
 Research Institution: Princeton University
 Home Institution: Hunter College
 Co-Authors: Miguel Centeno, Princeton University
 SS

Priscilla Torres 12:00 PM, High Ridge

Presentation Title: Single Atom Catalyst for Solar Fuel Production
 Research Mentor: Andrew Peterson
 Research Institution: Brown University
 Home Institution: Saint Edward's University
 Co-Authors: Andrew Peterson, Yin-Jia Zhang and Seokki Kim, Brown University
 PS

Jasmine Towns 5:15 PM, Long Ridge

Presentation Title: Investigating Neuronal and Microglial Characteristics on Platinum Bulk Metallic Glasses
 Research Mentor: Themis Kyriakides
 Research Institution: Yale University
 Home Institution: North Carolina A&T State University
 Co-Authors: Ayomiposi Loye and Themis Kyriakides, Yale University
 AB

Thuy Tran 12:00 PM, Belltown

Presentation Title: The Vietnam/American War: Representation of the Enemy in Literature
 Research Mentor: David Palumbo-Liu
 Research Institution: Stanford University
 Home Institution: Sewanee: The University of the South
 Co-Authors: David Palumbo-Liu, Stanford University
 HU

Sam Trejo..... 12:30 PM, Cove II

Presentation Title: Foreign Aid, Fire-Arms, and Civil War
 Research Mentor: Kristopher Ramsay
 Research Institution: Princeton University
 Home Institution: University of Texas at Austin
 Co-Authors: Kristopher Ramsay, Princeton University
 SS

Julie Trolle 12:15 PM, Glen I

Presentation Title: Generating a CRISPRi System to Study the Function of lncRNAs in AML
 Research Mentor: Iannis Aifantis
 Research Institution: New York University Sackler Institute
 Home Institution: Jacobs University Bremen
 Co-Authors: Hsuan-Ting Huang and Iannis Aifantis, New York University Sackler Institute
 BB

Rachael Turner.....11:30 AM, Westover

Presentation Title: Synthesis of a Seco-ring C Derivative of Stepholidine as a Potential Dopamine D3 Receptor Antagonist
 Research Mentor: Wayne W. Harding
 Research Institution: Hunter College
 Home Institution: SUNY Binghamton
 Co-Authors: Satish Gadhiya, Nirav Kapadia and Wayne W. Harding, Hunter College
 PS

Rasaan Turner.....5:30 PM, Springdale II

Presentation Title: Millennial Musings: The Influence of Racial/Ethnic Identity on Music Consumption Behaviors Among the "Millennial" Generation
 Research Mentor: Kiri Miller
 Research Institution: Brown University
 Home Institution: Tougaloo College
 Co-Authors: Kiri Miller, Brown University
 SS

Jonathan Ueki..... 12:30 PM, High Ridge

Presentation Title: Characterizing the Force Between Z3 Strings
 Research Mentor: Mark Alford
 Research Institution: Washington University in St. Louis
 Home Institution: Harvey Mudd College
 Co-Authors: Mark Alford, Andreas Windisch and Kumar Mallavarapu, Washington University in St. Louis
 PS

Erik Ugalde..... 12:30 PM, Waterside

Presentation Title: Common Core: The New Labyrinth
 Research Mentor: Kenji Hakuta
 Research Institution: Stanford University
 Home Institution: San Jose State University
 Co-Authors: Kenji Hakuta, Stanford University
 SS

Hector Vargas-Acevedo 3:45 PM, Long Ridge

Presentation Title: Role of agr Quorum Sensing Gene in the Induction of Staphylococcal Resistance to Antimicrobial Agents
Research Mentor: Bo Shopsin
Research Institution: New York University Sackler Institute
Home Institution: UPR-Mayaguez
Co-Authors: Bo Shopsin, Krishan Kumar and Yi Li, New York University Sackler Institute
AB

Marilyn Vasquez 3:15 PM, Aspen II

Presentation Title: Identifying Genetic Regulators of the LukAB Toxin in Staphylococcus Aureus
Research Mentor: Victor Torres
Research Institution: New York University Sackler Institute
Home Institution: Yale University
Co-Authors: Victor Torres, Divya Balasubramanian and Elizabeth Ohneck, New York University Sackler Institute
BB

Anthony Velázquez..... 3:00 PM, Springdale I

Presentation Title: The Faces of Puerto Rico: Public Perception of Phenotype and Experienced Identity
Research Mentor: Alison Booth
Research Institution: University of Virginia
Home Institution: UPR-Rio Piedras
Co-Authors: Alison Booth, University of Virginia - BioMedical Sciences
SS

Donte' Verrill-Huffman..... 5:30 PM, High Ridge

Presentation Title: Nonluminance-Mediated Changes in Pupil Diameter and its Relationship with Synchronized Neural Firing
Research Mentor: Joshua Gold
Research Institution: University of Pennsylvania
Home Institution: Morehouse College
Co-Authors: Joshua Gold, University of Pennsylvania
BB

Ashley Viera-Ortiz..... 5:30 PM, Aspen II

Presentation Title: Biochemical and Molecular Analysis of Subcellular Fractions of ALS/FTD Brains
Research Mentor: Edward Lee
Research Institution: University of Pennsylvania
Home Institution: UPR-Mayaguez
Co-Authors: Edward Lee and Elaine Liu, University of Pennsylvania
AB

Camila Villasante..... 11:45 AM, Aspen I

Presentation Title: Sequence Preference of the Human DNA Transposase PGBD5
Research Mentor: Alex Kentsis
Research Institution: Weill Cornell Medical College
Home Institution: Johns Hopkins University
Co-Authors: Alex Kentsis, Anton Henssen and Eileen Jiang, Weill Cornell Medical College
BB

Andres Villegas 5:45 PM, Elm I

Presentation Title: Role of a Cell Cycle Regulator in Subcortical Parvalbumin Interneurons: Implication for Schizophrenia
Research Mentor: Holly Moore
Research Institution: Columbia University
Home Institution: Rutgers University
Co-Authors: Holly Moore, Columbia University
AB

Zaire Wade 12:00 PM, Long Ridge

Presentation Title: The Energy Saving Potential of Reduced Accuracy Computation On Mobile Systems
Research Mentor: Henry Hoffmann
Research Institution: University of Chicago
Home Institution: Norfolk State University
Co-Authors: Henry Hoffman, University of Chicago
PS

Samantha Walker..... 12:30 PM, Glenbrook

Presentation Title: Cryogenic Testing for BICEP3
Research Mentor: Chao-Lin Kuo
Research Institution: Stanford University
Home Institution: Fordham University
Co-Authors: Chao-Lin Kuo, Keith L. Thompson and Val Monticue, Stanford University
PS

Maurice Whalen, Jr. 3:45 PM, Glen III

Presentation Title: Does the Arterial Natriuretic Peptide Attenuate Agonist-Induced Pulmonary Edema Through Natriuretic Peptide Receptor-C?
Research Mentor: Elizabeth Harrington
Research Institution: Brown University
Home Institution: Tougaloo College
Co-Authors: Huetran Duong, Randy Alsabe and Elizabeth Harrington, Brown University
AB

Alexander White3:15 PM, Springdale II

Presentation Title: Agree to Disagree: Achieving
Productive Moral Discussion in the Face
of Controversy

Research Mentor: Sarah McGrath

Research Institution: Princeton University

Home Institution: University of Washington

Co-Authors: Sarah McGrath, Princeton University

PE

Brandyn White.....5:30 PM, Glen II

Presentation Title: Characterization of SETD2's Catalytic
Domain Mutations Implicated in Kidney Renal
Clear Cell Carcinoma

Research Mentor: Minkui Luo

Research Institution: Weill Cornell Medical College

Home Institution: Hampton University

Co-Authors: Minkui Luo, Shi Chen and Kanshik

Kapilashrami, Weill Cornell Medical College

BB

Elyce Williams..... 2:45 PM, Belltown

Presentation Title: The Effects of Unconscious
Awareness on Size-Depth Visual Illusions

Research Mentor: Joo-Hyun Song

Research Institution: Brown University

Home Institution: Hunter College

Co-Authors: Christine Gamble and Joo-Hyun Song,
Brown University

SS

Heidi Williams 5:00 PM, Springdale I

Presentation Title: Scaling Up Social
Belonging Interventions

Research Mentor: Gregory Walton

Research Institution: Stanford University

Home Institution: Indiana University-Bloomington

Co-Authors: Shannon Brady and Gregory Walton,
Stanford University

SS

Jermaine Wilson 2:45 PM, Glen III

Presentation Title: Fabricate Patient-Specific Left Atrial
Appendage (LAA) from a Silicone Elastomer 3D

Research Mentor: Bobak Mosadegh

Research Institution: Weill Cornell Graduate School

Home Institution: Medgar Evers College CUNY

Co-Authors: Bobak Mosadegh, Guanglei Xiong and
James K. Min, Weill Cornell Graduate School

AB

James Wondra 4:00 PM, Elm I

Presentation Title: Determining the Role of LXR Alpha/
Beta in Newly Recruited Macrophages During
Atherosclerosis Regression

Research Mentor: Edward Fisher

Research Institution: New York University

Sackler Institute

Home Institution: CSU Northridge

Co-Authors: Edward Fisher and Karishma Rahman,
New York University Sackler Institute

BB

Saidah Wright 4:45 PM, Elm I

Presentation Title: Effects of GABA(B) Agonist Baclofen
on Locomotor Activity and Anxiety in a Mouse
Model of Fragile X Syndrome

Research Mentor: Steven Siegel

Research Institution: University of Pennsylvania

Home Institution: Claflin University

Co-Authors: Steven Siegel, Duncan Sinclair and Rob
Featherstone, University of Pennsylvania

AB

Chih Ching Wu11:15 AM, Glen I

Presentation Title: CRISPR Knockout Tandem Gene
Pairs in Arabidopsis

Research Mentor: Alison DeLong

Research Institution: Brown University

Home Institution: San Jose State University

Co-Authors: Alison DeLong, Brown University

BB

Stephanie Wyche..... 3:30 PM, Westover

Presentation Title: Size Dependence of Critical Heating
and Cooling Rates in Bulk Metallic Glass Nano-rods

Research Mentor: Corey O'Hern

Research Institution: Yale University

Home Institution: Claflin University

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

EN

Nadira Yusif..... 3:45 PM, Belltown

Presentation Title: Interference Effect on Visuomotor
Rotational Adaptation and Recall

Research Mentor: Joo-Hyun Song

Research Institution: Brown University

Home Institution: UPR-Rio Piedras

Co-Authors: Tony Wang and Joo-Hyun Song,
Brown University

SS

Habib Zahir 5:00 PM, Glenbrook
Presentation Title: The Role of Ubiquitin Inclusions in
Post-Ischemic Brain Tissue/Neurons
Research Mentor: Karin Hochrainer
Research Institution: Weill Cornell Graduate School
Home Institution: Hunter College
Co-Authors: Karin Hochrainer, Weill Cornell
Graduate School
BB

Alyssa Zannella12:15 PM, Cove I
Presentation Title: Poverty in U.S. Fiction
Research Mentor: William Gleason
Research Institution: Princeton University
Home Institution: University of Michigan-Ann Arbor
Co-Authors: William Gleason, Princeton University
HU

Vladislav Zhitny4:45 PM, Glen II
Presentation Title: The Role of Matrix Metalloproteinase
23 (MMP-23) in T-cell Effector Memory Responses
to Melanoma
Research Mentor: Michelle Krogsgaard
Research Institution: New York University
Sackler Institute
Home Institution: University of Nevada, Las Vegas
Co-Authors: Michelle Krogsgaard, Tianqi Li and Duane
Moogk, New York University Sackler Institute
BB

Cipriano Zuluaga..... 11:30 AM, Aspen I
Presentation Title: Determining the Role of Nucleolar
Factors in Replication of DNA Viruses
Research Mentor: Matthew Weitzman
Research Institution: University of Pennsylvania
Home Institution: CSU San Marcos
Co-Authors: Matthew Weitzman and Emigdio Reyes,
University of Pennsylvania
AB

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

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|----------|----|-----------------------------|---|------------|
| 11:15 AM | AB | Philip Adejumo | Application of Pattern-Mixture Models for Missing Data in Longitudinal Studies | Glen II |
| 11:15 AM | EN | Roy Anderson | Analyzing the Mechanical Properties of Three Polymer Based Vascular Grafts | Westover |
| 11:15 AM | BB | Rebecca Arteaga | Understanding the Amino Acid Requirements of a Simple Transmembrane Oncoprotein | Elm I |
| 11:15 AM | HU | Gabriela Barrios | Varying Narratives: Traumatic Memory and Subversion in Nellie Campobello's <i>Cartucho</i> | Cove I |
| 11:15 AM | BB | Evan Brooks | Characterization of Tissue Mineralization Defects in Fin Rays of Zebrafish Mutants | Alder |
| 11:15 AM | BB | Kelly Fogelson | The Role of Potential LXR Associated Factors Identified by Mass Spectrometry on LXR Mediated Gene Transcription | Glen III |
| 11:15 AM | BB | Hebron Kelecha | The Cellular Localization of KRIT1 | Elm II |
| 11:15 AM | HU | Brittanie Lewis | The Iranian Woman in the Chador: Symbolic Representation of Nationhood in the 1970s | Cove II |
| 11:15 AM | SS | Stephanie Matos | Cultures of Ethics in Engineering-for-Development (EfD) and Design-for-Development (DfD) University-Based Programs | Waterside |
| 11:15 AM | EN | Monique McClain | Lagrangian Coherent Structures in High-Speed Premixed Turbulent Reacting Flows | Glenbrook |
| 11:15 AM | PS | Jared Mitchell | Sharpening the Image of the Universe | Long Ridge |
| 11:15 AM | EN | Jessica Murdzek | Atomically Flat BaSnO ₃ Surface as a Novel Substrate for Epitaxial Films Growth | High Ridge |
| 11:15 AM | HU | Andrea Penman-Lomeli | Bodies that Work: Citizenship and the Rendering of Chicana/o Identity in Tomas Rivera's "...y no se lo trago la tierra" | Belltown |
| 11:15 AM | BB | Sarah Seto | Nucleolar Response and DNA Damage after Exportin-1 Inhibition | Aspen I |
| 11:15 AM | BB | Canessa Swanson | Characterization of linc-RNA Gas5 Binding Affinity to Glucocorticoid Receptor Through Mutagenesis | Aspen II |
| 11:15 AM | BB | Chih Ching Wu | CRISPR Knockout Tandem Gene Pairs in Arabidopsis | Glen I |
| 11:30 AM | HU | Lindsey Burgess | The Effects of Neo-Colonialism on Late 20th Century Drug Trafficking in Nigeria | Cove II |
| 11:30 AM | BB | Gabriela Canales | En'Cas'ing the Stress: Engineering a Human Cell Line Knockout of Heat Shock Response Coordinator Genes Using CRISPR Cas9 System | Glen I |
| 11:30 AM | HU | Olivia Carpenter | (Re-)Examining Literacies: Native Authors of Early American Literature | Cove I |
| 11:30 AM | PS | Alexis Clavijo | Development of Nanosphere Lithography for Nanomagnetism | Glenbrook |

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|----------|----|------------------------------------|--|------------|
| 11:30 AM | BB | Lester Dela Cruz | Defining a Non-coding RNA Transcriptome: Applying Hidden Markov Model (HMM) to Define the Non-coding Areas of a Genome | Glen II |
| 11:30 AM | EN | Tyler Dunbar | Carbon Dioxide Conversion Using Reduced Graphene Oxide as a Support for Single-atom Metal Catalysts | High Ridge |
| 11:30 AM | AB | Couger Jaramillo | The Ins and Outs of Calreticulin Induction of ECM | Elm II |
| 11:30 AM | SS | Malikia Johnson | Missing Lives: Diversifying Representations of African-American Women in Elementary Texts | Waterside |
| 11:30 AM | PS | Ayanna Jones | Dynamics of Habitable Planets in the Triple-Star System Alpha Centauri | Long Ridge |
| 11:30 AM | HU | Jasmine Kirby | Challenging Racist Assumptions of Biological Origins of Violence and the Ethics of Human Experimentation on Marginalized Populations: The UCLA Violence Research Controversy 1972-1974 | Belltown |
| 11:30 AM | BB | Grace McKenzie-Smith | Antigen Development for Human and Mouse CENP-A and CENP-C | Aspen II |
| 11:30 AM | AB | Natasha Navejar | A Kinematic Analysis of Reaching in the Naturally Foraging Common Marmoset (<i>Callithrix jacchus</i>) | Alder |
| 11:30 AM | BB | Gerardo Reyes Chavez | Logistics of the Vitellogenin and Yolk Proteins in the Sea Star, <i>Patiria miniata</i> | Elm I |
| 11:30 AM | BB | Amorette Sanchez-Valdenegro | Modeling the Distribution of ChIP Pol II Along a Gene | Glen III |
| 11:30 AM | PS | Rachael Turner | Synthesis of a Seco-ring C Derivative of Stepholidine as a Potential Dopamine D3 Receptor Antagonist | Westover |
| 11:30 AM | AB | Cipriano Zuluaga | Determining the Role of Nucleolar Factors in Replication of DNA Viruses | Aspen I |
| 11:45 AM | HU | Ouma Amadou | Constructing (Black) Girlhood: Assimilation, Americanization, or Ambivalence | Belltown |
| 11:45 AM | EN | Valeria Aucapina | Growth of Nanorod Arrays with Controlled Geometries | Glenbrook |
| 11:45 AM | BB | Pineal Bekere | The Role of K63-Linked Ubiquitination in Telomere Cohesion | Aspen II |
| 11:45 AM | PS | Ashley Chontos | Simulations of Detectability of Extrasolar Planets for Future Space Mission WFIRST | Long Ridge |
| 11:45 AM | BB | Comfort Effi | YY1 Deletion Controls Condensin, Cohesin, and PcG DNA Recruitment, But Not Their Expression Levels | Glen III |
| 11:45 AM | SS | Brandon Enriquez | Who Should Help Underprepared Students? The Effects of Limiting Remediation to Two-Year Colleges | Waterside |
| 11:45 AM | HU | Matthew Fairchild | Civil War and Reconstruction Historiography: A Shift in Perspective | Cove II |
| 11:45 AM | BB | Victor Martinez | Examining the Sub-Cellular Localization of the Ajuba Protein in Human Cells | Elm II |
| 11:45 AM | PS | Salvador Montes | Measuring Dynamic Instability of Microtubules | Westover |

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|----------|----|---------------------|--|------------|
| 11:45 AM | BB | Anna Morales | The Molecular Effects of In Utero Nicotine Exposure on C57BL/6 Mice and Their Progeny | Alder |
| 11:45 AM | AB | Libere Ndacayisaba | Exploring miRNA Silencing Mechanisms Using Machine Learning Algorithms to Discover Biologically-Relevant Pathway Nodes | Glen I |
| 11:45 AM | PS | Michael Onysczak | A Schrodinger-Poisson Solver for Oxide Interfaces | High Ridge |
| 11:45 AM | BB | Michael Pineda | Geospatial Characterization Of Distinct Metagenomic Landscapes | Glen II |
| 11:45 AM | BB | Tara Ramirez | Expression Screening of TRP Channels for Structural and Biochemical Studies | Elm I |
| 11:45 AM | HU | Joel Rhone | Surveillance, Policing, and the Politics of Space in Superman Comic Books | Cove I |
| 11:45 AM | BB | Camila Villasante | Sequence Preference of the Human DNA Transposase PGBD5 | Aspen I |
| 12:00 PM | BB | Felipe Anguiano | Suppressor Analysis of Cold Sensitive Mutations in the ATPase Prp43p | Elm II |
| 12:00 PM | BB | Marcos Ayala Rivera | Characterizing the Molecular Mechanisms of Diabetes by Using CRISPRs/CAS9 | Glen I |
| 12:00 PM | EN | Itza Beltran | The Effect of Vacuum Level and Water Charge on the Performance of Ultra-Thin Thermal Ground Planes | Glenbrook |
| 12:00 PM | BB | Patrick Griffin | ZBTB24: A Novel Protein Linking Pericentromeric Heterochromatinization to Centromeric Instability | Aspen II |
| 12:00 PM | BB | Amelia Hallworth | Characterizing Forkhead Binding Specificity | Elm I |
| 12:00 PM | AB | Geena Ildefonso | Mathematical Modeling of the NF-kB Signaling Pathway Using PySB | Glen II |
| 12:00 PM | HU | Arielle Irizarry | Disassembling Logic With Historical Context and Feeling in 20th to 21st Century Literature | Cove I |
| 12:00 PM | SS | Tianjian Lai | What Counts as Bullying?: Ethnic and Gender Differences in Adolescents' Interpretations of Peer Victimization | Waterside |
| 12:00 PM | HU | Jonatan Perez | Closing the Door: LULAC and the Exclusion of Mexican Immigrants in San Antonio, Texas During the Great Depression | Cove II |
| 12:00 PM | BB | Rahul Sharma | Characterizing Novel Interactors of the Sin3B Complex and Their Roles in Transformation | Aspen I |
| 12:00 PM | BB | Abigail Shilvock | Examining the Mechanism of ADAR1 Mediated ISG Regulation | Glen III |
| 12:00 PM | PS | Isaiah Speight | Chemoenzymatic Synthesis of Functionalized Galactooligosaccharides. | Westover |
| 12:00 PM | BB | Daniel Tirado | Diurnal CORT Circulation Influences Conditioned Fear Extinction Learning and Fear Renewal | Alder |
| 12:00 PM | PS | Priscilla Torres | Single Atom Catalyst for Solar Fuel Production | High Ridge |
| 12:00 PM | HU | Thuy Tran | The Vietnam/American War: Representation of the Enemy in Literature | Belldown |

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|----------|----|-----------------------|--|------------|
| 12:00 PM | PS | Zaire Wade | The Energy Saving Potential of Reduced Accuracy Computation On Mobile Systems | Long Ridge |
| 12:15 PM | BB | Diana Aponte Colon | Role of Epigenetic Proteins in Maintaining Programs of Endothelial Cell Gene Expression Under Basal Conditions | Glen III |
| 12:15 PM | PS | Carla Bezjian | Synthesis and Study of Bipyridal Troger's Base Complexes | Westover |
| 12:15 PM | BB | Noah Bloch | Regulation of RAG2 Protein in Response to DNA Damage | Aspen I |
| 12:15 PM | PS | Ann Brasacchio | Suzuki-Miyaura Cross-Coupling of Aryl Sulfamates with Aryl Boronic Acids using Nickel Catalysts | Glenbrook |
| 12:15 PM | BB | Alissa DiMasi | The Effects of miR-138 on Nicotine Consumption and Preference | Elm II |
| 12:15 PM | BB | Rolando Garza | Phosphatidylinositol Phosphate Facilitates the TIPE:Pleckstrin Homology-Domain Protein-Protein Interaction | Elm I |
| 12:15 PM | BB | Sara Haile | The Mystery Proteins of SCCmec Type V | Aspen II |
| 12:15 PM | PS | Malik Hayes | Efforts Towards Maximum Performance Distributed Computation with Limited Power Budgets | Long Ridge |
| 12:15 PM | HU | Cynthia Marrero-Ramos | El Diablito Subterneo: Hidden Knowledge, Public Power, and the Abaku Society in Colonial Cuba | Cove II |
| 12:15 PM | SS | Amra Marshall | Social Support and Educational Attainment: The Pursuit of Academic Achievement in African American Male College Freshman | Waterside |
| 12:15 PM | SS | Adaeze Okoli | Migration in the Rainbow Nation: A Look at Internal Migration in South Africa 20 Years Post-Apartheid | Belltown |
| 12:15 PM | EN | Alberto Ortiz | Synthesis of a Superlattice and LaNiO ₃ and Effect of Oxygen Annealing | High Ridge |
| 12:15 PM | BB | Daniel Perez | Analyzing the Effects of Parental Dietary Stressors on Embryonic Development in C. Elegans | Alder |
| 12:15 PM | BB | Huong Tang | Mass Spectrometric Analysis of De novo Assembled Transcriptomes | Glen II |
| 12:15 PM | BB | Julie Trolle | Generating a CRISPRi System to Study the Function of lncRNAs in AML | Glen I |
| 12:15 PM | HU | Alyssa Zannella | Poverty in U.S. Fiction | Cove I |
| 12:30 PM | BB | Jonuelle Acosta | Should I Stay or Should I Go: Screening for Regulators of Mitochondrial Motility | Elm I |
| 12:30 PM | BB | Kiana Annunziata | Roles of Ubiquitination and Deubiquitination in the Regulation of the DNA Damage Recognition Factor XPC | Aspen II |
| 12:30 PM | BB | Porfirio Fernandez | Characterization of miRNA Expression Profile Modified by α -Conotoxin in Chronic Constriction Injury Rat Model | Elm II |
| 12:30 PM | BB | Joanna Hurtado | Characterization of ER Stress Mediated ARPE Cell Death Triggered by Lipofuscin Bisretinoid A2E | Alder |

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|----------|----|-------------------------|---|---------------|
| 12:30 PM | PS | Mike Lopez | Fostering Scientific Identity in Underrepresented Minorities Through Informal Science Programs: The Role of PISEC | Westover |
| 12:30 PM | AB | Matheus Martins | Engineering a Selective DNA Sequestration Platform for Biomolecular Nanotechnology | Aspen I |
| 12:30 PM | HU | Nasib McIntosh | Some Vaster, Mightier Thing: Representations of Intimacy in Afrofuturist Literature | Cove I |
| 12:30 PM | HU | Cheswayo Mphanza | Tha Block Is Hot: Gwendolyn Brooks' Black Aesthetic | Belltown |
| 12:30 PM | PS | Andria Palmer | Radiation Modeling in GEO and Jupiter Radiation Environments | Long Ridge |
| 12:30 PM | BB | Ricardo Perez Dulzaides | TET Enzyme Variants as Tools to Understand Cytosine Epigenetic Modifications | Glen III |
| 12:30 PM | BB | Cassandra Sunga | Determining the Basis of UV Crosslinking Between Lin28 and let-7 miRNA | Glen I |
| 12:30 PM | AB | Chrystal Thomas | Shooting Blanks: Optimizing Mass Spectrometry Metabolomics Methods via Analysis of Injection Blank Effects | Glen II |
| 12:30 PM | SS | Sam Trejo | Foreign Aid, Fire-Arms, and Civil War | Cove II |
| 12:30 PM | PS | Jonathan Ueki | Characterizing the Force Between Z3 Strings | High Ridge |
| 12:30 PM | SS | Erik Ugalde | Common Core: The New Labyrinth | Waterside |
| 12:30 PM | PS | Samantha Walker | Cryogenic Testing for BICEP3 | Glenbrook |
| 2:45 PM | AB | Ezekiel Bello | Entry Coreceptor use by SIV from Mustached Monkey, the Ancestor of HIV-1 | Aspen I |
| 2:45 PM | BB | Stephany Caicedo | Understanding the Interaction Between Anthrax Lethal Factor and MAP Kinase Kinase Substrates | Alder |
| 2:45 PM | AB | Erlyana Clarke | Interleukin-25-Activated Innate Lymphoid Cells in Sepsis | Elm II |
| 2:45 PM | SS | Courtney Cooper | The Power of Social Class in Relationship Outlook | Cove I |
| 2:45 PM | SS | Beverlin Del Rosario | The Relationship Between Sleep Disturbances and Emotion Dysregulation in Self-Harm Behavior | Cove II |
| 2:45 PM | PE | Melissa Espinosa | What Influences Public Opinion on Immigrants and Immigration Policies? | Springdale II |
| 2:45 PM | AB | Brandon Hart | The Effects of EphB2 and EphrinB2 Knockouts with CRISPR/Cas9 in Spermatogonial Stem Cell Maintenance | High Ridge |
| 2:45 PM | EN | Jason Hughes | Changes in Metallic Glass Thin Film Microstructures upon Annealing in Supercooled Liquid Region | Westover |
| 2:45 PM | AB | Mauricio Isaac | The Role of Lipid Phosphatase SHIP In Skeletal Development | Glen I |
| 2:45 PM | AB | Shirley Jusino | Role of the Human Parainfluenza Virus Type 3 Fusion Machinery in Viral Growth in the Natural Host | Aspen II |
| 2:45 PM | EN | Armand Ngassam | Treatment of Water with Modified MFI Zeolites and UV Radiation | Glenbrook |

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|---------|----|---------------------|---|---------------|
| 2:45 PM | BB | Binh Nguyen | Studying the Localization and Dynamics of Adherens Junction Proteins in Epithelial Cells Under Force | Glen II |
| 2:45 PM | AB | Mariyah Pressley | Antibacterial Effects of Substrate Composition | Long Ridge |
| 2:45 PM | HU | Alina Scott | Research Toward a Comparison of Cherokee and Wampanoag Women's Antiremoval Petitioning | Springdale I |
| 2:45 PM | HU | Lilybeth Shields | The Gaming Effect: Why the Members of the Puerto Rican Gaming Community Acquire English More Easily Than Their Peers | Waterside |
| 2:45 PM | BB | Akinola Sogunro | Dendritic Cell Migration Within the Spleen Regulates the Induction of Red Blood Cell Alloimmunization | Elm I |
| 2:45 PM | SS | Elyce Williams | The Effects of Unconscious Awareness on Size-Depth Visual Illusions | Belldtown |
| 2:45 PM | AB | Jermaine Wilson | Fabricate Patient-Specific Left Atrial Appendage (LAA) from a Silicone Elastomer 3D | Glen III |
| 3:00 PM | AB | Kemi Akinnola | Generation of Lin28 Human Embryonic Stem Cell Reporter Line Using CRISPR Technique | High Ridge |
| 3:00 PM | BB | Sierra Atwater | Influence of Substrate Stiffness on Cardiomyocyte Behavior | Glen III |
| 3:00 PM | AB | Giovanni Calixte | Chondrogenesis Deficiency in Matrilin-1 Knock-out Mice | Glen I |
| 3:00 PM | AB | Edgar Carlo | Endothelial Cell Barrier Lost by Angiopoietin 2 Levels in Indirect Acute Lung Injury Induced by Sepsis and Hemorrhage in Lung, Kidney and Liver Tissues | Elm II |
| 3:00 PM | SS | Aja Evans | Learning and Transfer of Sequential Task Control Policies | Cove II |
| 3:00 PM | HU | Mahmoud Jalloh | Reflections on Physics: Philosophy, the Limits of Reason, and the Human Perspective | Springdale II |
| 3:00 PM | AB | Assama Ketegou | The Effects of Pediatric SIV Infection on Neurogenesis | Aspen I |
| 3:00 PM | SS | Anthony Longoria | Investigating the molecular Pathways of Methamphetamine Impact on Hippocampal-Dependent Spatial Memory Performance | Belldtown |
| 3:00 PM | PS | Elena Malloy | On the Study of Discriminants and Resultants of Polynomials over Finite Fields | Glenbrook |
| 3:00 PM | AB | Tomaz Manzoni | Modeling Interactions Between APOBEC3G and HIV Vif Polymorphs In Vivo | Aspen II |
| 3:00 PM | HU | Christopher Mendoza | First Impressions: A Prosodic Analysis of Interactional Style and Social Perception | Waterside |
| 3:00 PM | BB | Daymond Parrilla | Monitoring Plk4 Kinase Activity in Living Cells | Alder |
| 3:00 PM | BB | Kajal Patel | Investigating the Contribution of FIS to Stress Response and Virulence in Yersinia | Elm I |
| 3:00 PM | BB | Swathi Penumutthu | Impact of Antibiotics on Horizontal Gene Transfer in Vibrio cholerae | Long Ridge |

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|---------|----|-------------------------|--|--------------|
| 3:00 PM | PS | Amanda Ramdular | Diversity Oriented Synthesis of a Novel Benzannulated Spiroketal Screening Library | Westover |
| 3:00 PM | AB | Laura Ritenour | Probing the Role of Adipocyte mTORC2 in Whole-Body Metabolism and Cold-Induced Thermogenesis | Glen II |
| 3:00 PM | PE | Adrienne Scott | American Perceptions of Welfare Policy and the Welfare Queen: An Analysis of Generosity Before and After the Great Recession | Cove I |
| 3:00 PM | SS | Anthony Velázquez | The Faces of Puerto Rico: Public Perception of Phenotype and Experienced Identity | Springdale I |
| 3:15 PM | BB | Chiamaka Ani | The Role of Stat6 in Altering the Microbiota During Helminth Infection | Elm II |
| 3:15 PM | AB | Ambar Cajigas Hernandez | SIV Infection of Pigtail Macaque Monocytes-Derived Macrophages Induces Heme Oxygenase-1 Expression | Aspen I |
| 3:15 PM | AB | Luis Cortina | Fatty Acid Oxidation Regulates Metabolic Adaptation to Low Glucose in Primary Human T-Cells | Elm I |
| 3:15 PM | BB | Patrick Donegan | The Role of Smooth Muscle Cell Mineralocorticoid Receptor in Cardiac Aging and Atrial Fibrillation | Glen III |
| 3:15 PM | SS | Aeriel Ferreira | The Role of Prison Based Substance Abuse Treatment Programs in Preventing Post-Incarceration Substance Use | Belltown |
| 3:15 PM | BB | Andrew Hart | Molecular Dissection of the Complement-like Pathway in Anopheles Mosquitoes | Alder |
| 3:15 PM | PS | Yauheniya Lahoda | Augmenting the Edge Connectivity of Planar Straight Line Graphs to Two | Glenbrook |
| 3:15 PM | EN | Susie Lira-Gonzalez | Ethnographic Analysis of First-Year Engineering Design Teams and Senior Engineering Design Teams | Westover |
| 3:15 PM | AB | David Molina | Area-level Determinants of Blood Pressure Across the Life Course | Glen II |
| 3:15 PM | BB | Prisca Obi | Characterization of Murine Model of Osteogenesis Imperfecta Type VII in CRTAP Deficient Male Mice | Glen I |
| 3:15 PM | SS | Nnaemeka Ofodire | Challenges for Renewable Energy Implementation in Sub-Saharan Africa | Springdale I |
| 3:15 PM | SS | Jeremy Pagan | From Stereotype Threat to Violence: The Focus on Police & Demonstrators During a "Perfect Storm" | Cove I |
| 3:15 PM | SS | Ariel Rosario | Examining the Effects of Divided Attention on Memory Retrieval After Different Learning Approaches | Waterside |
| 3:15 PM | BB | Jaqueline Serrano | Using Human Embryonic Stem Cells to Recapitulate Skin Development | High Ridge |
| 3:15 PM | BB | Monica Thapaliya | Role of Vitamin A Metabolism in Antimicrobial Response in Intestinal Paneth Cell | Long Ridge |
| 3:15 PM | SS | Jamal Thorne | The Effects of Phrasing, Visualization, and Spatial Ability on Bayesian Reasoning | Cove II |
| 3:15 PM | BB | Marilyn Vasquez | Identifying Genetic Regulators of the LukAB Toxin in Staphylococcus Aureus | Aspen II |

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|---------|----|-------------------------|--|---------------|
| 3:15 PM | PE | Alexander White | Agree to Disagree: Achieving Productive Moral Discussion in the Face of Controversy | Springdale II |
| 3:30 PM | BB | Gabrielle Akcelik | qPCR Validation of Asthma-Associated Genes Differentially Expressed in Airway Smooth Muscle Cells in Response to IL-13 and IL-17 | Glen III |
| 3:30 PM | SS | Andrea Baltazar | Personality and Demographic Characteristics of Dropouts in a Longitudinal Study | Cove I |
| 3:30 PM | AB | Evelyn Campbell | The Influence of Interferon Stimulated Genes Ifi44 and Ifi2712a on the Thermogenic Capacity of Brown Adipocytes | Glen I |
| 3:30 PM | AB | Lauren Caton | Predictors of Weight Loss Magnitude in Johns Hopkins Weight Management Center Patients | Glen II |
| 3:30 PM | AB | Emmanuella Egbonim | Optimization of PCR for Oxalobacter Formigenes Group 2 | Alder |
| 3:30 PM | SS | Hailey Egado-Betancourt | Neuroimaging and Negative Valence Conditioned Inhibition Studies of the Habenula | Belltown |
| 3:30 PM | SS | Celia Ford | Status Judgments as a Function of the Interaction Between Facial Dominance and Social Context | Cove II |
| 3:30 PM | BB | Philip Frasse | GlpQ- and Pce-Dependent Interactions Between Streptococcus pneumoniae and Haemophilus influenzae | Aspen II |
| 3:30 PM | AB | Andrea Guzman | Synthesis and Characterization of Thermally Sensitive Liposomes for Targeted Drug Delivery | Elm I |
| 3:30 PM | AB | Julia Heinze | Models for Herpes Simplex Virus Infection Using Human Embryonic Stem Cell Derived Neurons | Aspen I |
| 3:30 PM | PE | Jessica Heppler | Assessing the Value of Justice in Plato | Springdale II |
| 3:30 PM | BB | Shermaine Hutchins | Corroborating the Involvement of Polymerase Beta in Non-Homologous End Joining via DNA Basic Local Alignment Search Tool | Glenbrook |
| 3:30 PM | PE | Aleena Khan | American Public Opinion of the United States' Standpoint on the Palestinian-Israeli Conflict | Springdale I |
| 3:30 PM | SS | Sarah Master | Trauma-Related Symptoms and Reduced Gray Matter Volume in the Ventral Anterior Cingulate Cortex | Waterside |
| 3:30 PM | BB | Juliana Nzongo | Genetic Screen of Novel Vibrio Cholerae Factors Involved in Biofilm Dispersal During Infection | Elm II |
| 3:30 PM | BB | Rebecca Plessel | Identifying Self-Renewal Factors That Maintain Stem Cells in Drosophila Testes | High Ridge |
| 3:30 PM | AB | Cesar Suarez | Testing the Efficacy of a Self-Assembling, Epitope-Based Vaccine That Was Designed to Reduce Systematic Chronic Inflammation | Long Ridge |
| 3:30 PM | EN | Stephanie Wyche | Size Dependence of Critical Heating and Cooling Rates in Bulk Metallic Glass Nano-rods | Westover |
| 3:45 PM | BB | Kiara Berrios | eNOS-derived Nitric Oxide Regulates Lipid Metabolites in Restricted Diet | Glen II |

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|---------|----|-------------------------------|--|---------------------|
| 3:45 PM | BB | Camilla Castro | Characterizing the Role of Herpes Simplex Virus Type 1 Protein Kinase Us3 in Regulating mRNA Translation | Aspen I |
| 3:45 PM | SS | Kelvin De Leon | Ascending and Descending Alcohol Effects in Healthy Volunteers | Waterside |
| 3:45 PM | AB | Linda Egbosiuba | Determination of GCH1 Copy Number Variation in Field Samples from Nigeria | Glenbrook |
| 3:45 PM | BB | Keishla Figueroa Colón | Micro RNA-93 Targets IRF9 to Regulate Macrophage Polarization | Alder |
| 3:45 PM | BB | Katherine Gonzalez | The Effect of RAGE in the Immune Response to High Fat Feeding | Elm I |
| 3:45 PM | BB | Hamilton Green | Understanding the Role of the Metabolite Sensors YpdAB and YehUT in Uropathogenic Escherichia coli Adherence and Biofilm Formation | Glen I |
| 3:45 PM | BB | Mateo Hernandez | Intracellular Vesicular Interactions During Salmonella Infection | Elm II |
| 3:45 PM | BB | Ehiremen Iyoha | The Role of SDF1B in the Development of the Hypobronchial Artery in Zebrafish | High Ridge |
| 3:45 PM | PS | Raymond Lopez-Rios | Hyperspectral Coherent Diffractive Imaging Using Ptychography | Westover |
| 3:45 PM | SS | Ana Maldonado | Intimate Partner Violence: The Effects of Perpetrator Characteristics on Treatment Engagement and Outcome | Cove I |
| 3:45 PM | SS | Blanca Ramirez | Is Adolescent Intimate Partner Violence a Learned Behavior? Insights from the Fragile Families Study | Cove II |
| 3:45 PM | BB | Andrew Thompson | Identification of Cellular Factors That Restrict ChiKV Replication | Aspen II |
| 3:45 PM | SS | Paulina Toro Isaza | Subnational Variation of Federal and Local State Capacity in Colombia | Springdale I |
| 3:45 PM | AB | Hector Vargas-Acevedo | Role of agr Quorum Sensing Gene in the Induction of Staphylococcal Resistance to Antimicrobial Agents | Long Ridge |
| 3:45 PM | AB | Maurice Whalen, Jr. | Does the Arterial Natriuretic Peptide Attenuate Agonist-Induced Pulmonary Edema Through Natriuretic Peptide Receptor-C? | Glen III |
| 3:45 PM | SS | Nadira Yusif | Interference Effect on Visuomotor Rotational Adaptation and Recall | Belltown |
| 4:00 PM | AB | Rachel Brown | Examining the Role of p300 in Endotoxin Tolerance in Monocytes | Long Ridge |
| 4:00 PM | SS | Kiana Dash | Effect of Emotional State on Self Control in the Presence of Appetitive Cues | Waterside |
| 4:00 PM | ES | Luis Duarte | Common Air Pollutants Impact Surface Proteins of Airborne Fungi and Pollens | Westover |
| 4:00 PM | AB | Anthony Guerrero | Paclitaxel Effect on Nuclear Envelope Morphology in Different Ovarian Cancer Cell Lines | High Ridge |

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|---------|----|------------------------------|---|---------------------|
| 4:00 PM | SS | Andrea Hernández-Vega | The Association of Methamphetamine Abuse and Poor Cognitive Flexibility in a Sample of Gay and Bisexual Men | Cove II |
| 4:00 PM | BB | Emily Linton | Analysis of Helicobacter Pylori Growth and Protein Secretion under Multiple Culture Conditions | Elm II |
| 4:00 PM | AB | Benny Marin-Acevedo | Differential Expression of Micro-RNAs in Hypertrophic Cardiomyopathy Mouse Model | Alder |
| 4:00 PM | BB | Arnaldo Mercado-Perez | Metabolic Flux Analysis of Obesity-Associated Inflammation | Glen II |
| 4:00 PM | AB | Saparja Nag | Synthesis and Characterization of Magnetic Contrast Agent Liposomes for Biomedical Imaging Applications | Glenbrook |
| 4:00 PM | BB | Trini Ochoa | Revisiting Classical Definitions of Hemagglutinin Antigenic Sites Using Different H1N1 Strains | Aspen II |
| 4:00 PM | AB | Remington Rimple | Evaluating the Efficacy of Silk Sponge Patches for In Vivo Repair of the Heart Following Myocardial Infarction Using Immunohistochemistry | Glen III |
| 4:00 PM | BB | Krystal Roggeron | Investigating the Effects of Hepatitis C Virus-induced Exosomes on T Cells | Aspen I |
| 4:00 PM | BB | Ololade Sanusi | Study of Novel and Ultra Rare Arrhythmogenic Gene Variants in Sudden Unexplained Deaths | Glen I |
| 4:00 PM | ES | Courtney Scott | Plant Species Composition on Recent Landslides on the Front Range of Colorado: Relationship Between Soil Status and Plant Characteristics | Springdale I |
| 4:00 PM | PE | Tamrin Stewart | Black President, Continued Black Suffering: Predicting African-American Political Behavior in the Post-Obama Era | Cove I |
| 4:00 PM | BB | James Wondra | Determining the Role of LXR Alpha/Beta in Newly Recruited Macrophages During Atherosclerosis Regression | Elm I |
| 4:45 PM | BB | Ruka Aderogba | Screening for Genetic Suppressors of a C. elegans Model of ALS | Aspen II |
| 4:45 PM | BB | Diana Arroyo | Counting Gonadotropin-Releasing Hormone Neurons in the Brains of Different Mouse Strains | Long Ridge |
| 4:45 PM | AB | Oluwatomiwa Awobayiku | The Role of Focal Adhesion Kinase (FAK) in Pancreatic Cancer | Aspen I |
| 4:45 PM | HU | Hannah Basta | Julia's Nuptials: Free, Freed, and Slave Marriage in Late Fifth-Century Roman Law | Waterside |
| 4:45 PM | SS | Clair Beltran | Fields of Difference: Differences in Usage and Perception of Urban Park Spaces | Cove I |
| 4:45 PM | AB | Nikaela Bryan | Fluorinated Bromothymol Blue: A Cerenkov-Absorbing Molecular Probe for In-Vitro pH Measurement of Tumor Microenvironment | Glen I |
| 4:45 PM | HU | Juliana Cruz Martínez | Allophones in the Parallel Shift of /uw/ and /ow/ in the Philadelphia Dialect | Springdale I |

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|---------|----|------------------------------|---|----------------------|
| 4:45 PM | AB | Julie Dorland | Radiation Modulates Inflammation and Immunity in Aged Trp53 Null Mammary Carcinogenesis | Glen III |
| 4:45 PM | HU | August Jenkins | Content and Context Limitations with University Level International Students: Reader's Gender, Topic Knowledge and Comprehension | Belltown |
| 4:45 PM | AB | Sarah Keltz | Colocalization of NMDA Receptor and Prion Protein in Mouse Primary Hippocampal Neurons | High Ridge |
| 4:45 PM | BB | Lindsey Lopes | Identifying Neuropeptides Regulating C. Elegans Sleep | Glenbrook |
| 4:45 PM | BB | Logan Northcutt | Manipulating Chemokines and TBF-Beta to Enhance Neutrophil Killing and Reduce Metastasis | Alder |
| 4:45 PM | PE | Victoria Ochoa | Latinos and the Media | Springdale II |
| 4:45 PM | BB | Chimdiya Onwukwe | Exploring Nicotine Induced Aversion in Projections from the Interpenduncular Nucleus to the Dorsal Raphe Nucleus | Elm II |
| 4:45 PM | BB | Thibaut Pardo | Behavioral Effects of a Novel Kappa Opioid Receptor Antagonist, LY2444296 | Westover |
| 4:45 PM | SS | Debanjan Roychoudhury | All Eyez on Me: Surveillance and Policing in West Harlem's Neighborhood of Hamilton Heights | Cove II |
| 4:45 PM | AB | Saidah Wright | Effects of GABA(B) Agonist Baclofen on Locomotor Activity and Anxiety in a Mouse Model of Fragile X Syndrome | Elm I |
| 4:45 PM | BB | Vladislav Zhitny | The Role of Matrix Metalloproteinase 23 (MMP-23) in T-cell Effector Memory Responses to Melanoma | Glen II |
| 5:00 PM | AB | Denise Aquino | Targeting the Cancer Stem Cell Population in Pancreatic Ductal Adenocarcinoma with BET and MEK Inhibitors | Glen II |
| 5:00 PM | BB | Tim Barry | Novel Suppressor Inhibits G-protein Coupled Receptor Signaling in Serotonergic Neurons | Elm II |
| 5:00 PM | AB | Victor Bayona | Mediation of Chemoresistance by ALOX5 in Acute Myeloid Leukemia | Glen III |
| 5:00 PM | BB | Stephanie Capsuto | The Role of Cav 1.3 L-type Ca ²⁺ Channels in Cocaine-induced Activation of CREB. CaMKIIg Translocation to the Nucleus to Activate CREB | Westover |
| 5:00 PM | BB | Cesar Dominguez | Novel PPAR-Agonist Treatment of an Experimental Model of Sporadic Alzheimer's Disease | Aspen II |
| 5:00 PM | PE | Gail Fletcher | Culture or Cruelty? How Women's Rights Debates on Female Genital Cutting and Child Marriage Have Changed Over Time | Belltown |
| 5:00 PM | BB | Prencia Gant | Determining the Effects of Mutant Miro1 in the Neurons of a New Transgenic Mouse Model In Vivo | High Ridge |
| 5:00 PM | HU | Kerwin Holmes Jr. | Popular Ethics: Southern Christians and Slave Theology, 1830-1861 | Waterside |
| 5:00 PM | SS | Felipe Huicochea | Perceptions of Mexican Restaurants in Yelp Reviews | Cove II |

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|---------|----|---------------------|--|---------------|
| 5:00 PM | HU | Oscar Hurtado | Mission Gentrification: Finding Spatial Meaningfulness and Cultural Identity in San Francisco | Cove I |
| 5:00 PM | AB | Tiarra Joell | Defining Asthma Pathology Associated with Airway Acidification Through a Molecular Window of the Ovarian Cancer G Protein-Coupled Receptor 1 | Glen I |
| 5:00 PM | BB | Rody Kingston | The Cellular Mechanisms Underlying the Effects of the Tail Suspension Test | Long Ridge |
| 5:00 PM | AB | Kiara McDaniel | Development of Melanoma 3D-Organoids: A New Preclinical Model for the Understanding and Treatment of Melanoma | Aspen I |
| 5:00 PM | AB | Maria Navarro | Striatal Gene Expression Changes Associated with Sex-Specific Behavioral Deficits in Mouse Models of Autism | Elm I |
| 5:00 PM | SS | Christopher Persaud | Social Science Research, Media Response, and Moral Judgment: Content Analysis of News Articles on the "LaCour Scandal" | Springdale II |
| 5:00 PM | SS | Heidi Williams | Scaling Up Social Belonging Interventions | Springdale I |
| 5:00 PM | BB | Habib Zahir | The Role of Ubiquitin Inclusions in Post-Ischemic Brain Tissue/Neurons | Glenbrook |
| 5:15 PM | BB | Nicolas Balbi | Ultrasound Molecular Imaging for the Quantification of Endothelial Cell Receptor Expression During Tumor Angiogenesis | Glen I |
| 5:15 PM | HU | Amanda Bennett | Body Politics: Examining African American Social Invisibility Through Slave Burial Grounds and the Pre-Texts Reading Program | Waterside |
| 5:15 PM | AB | Patrick Bruck | Development of Neoantigen-Specific Vaccines for Pancreatic Cancer | Aspen I |
| 5:15 PM | SS | Shemiah Curry | School Choice in Gentrifying Neighborhoods | Cove I |
| 5:15 PM | AB | Kelcee Everette | Uncovering Heterogeneity in the Motility of Breast Cancer Cells | Alder |
| 5:15 PM | AB | Nayib Gloria | Electrophysiological Responses to Decreased Contrast Sensitivity and Different Pattern Reversal Rates | Westover |
| 5:15 PM | HU | Ahmad Greene-Hayes | Black Women's and Men's Legacies and Activism: Legal Discourse and Literary Interventions Against Sexual Violence, 1990-present | Springdale II |
| 5:15 PM | HU | Tabatha Holley | Black Women Negotiating 'Ratchet' Politics in the Southern U.S. | Belltown |
| 5:15 PM | BB | Jasmine Kaur | Prostaglandin J2 alters Amyloid Precursor Protein (APP) Localization and Trafficking: Relevance to Alzheimers Disease | Aspen II |
| 5:15 PM | BB | Lesia Liao | Sex Differences in Anxiety-Like Behavior in Response to a Synthetic Cannabinoid | Elm I |
| 5:15 PM | BB | Christopher Lites | Effects of Epigallocatechin Gallate on Astrocyte Activation In METH-induced Toxicity | Elm II |

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|---------|----|--------------------|--|--------------|
| 5:15 PM | AB | Chloe Lopez-Lee | The Influence of Estrogen Receptor Alpha on Hippocampal Phosphorylated TrkB Synaptic Plasticity | High Ridge |
| 5:15 PM | PE | Syeda Malliha | What Factors Influence Public Opinion on Natural Disasters? | Springdale I |
| 5:15 PM | SS | Michael Menefee | Criminal Records, Race, and the Search for Work | Cove II |
| 5:15 PM | AB | Ari Morgenstern | AMIGO2 is a Novel Therapeutic Target in Melanoma | Glen III |
| 5:15 PM | BB | Ron Nwumeh | The Role of TERT Promotor Mutations in Oncogenesis | Glen II |
| 5:15 PM | BB | Julian Segert | Determination of the Downstream Ras Effector Pathway in <i>C. elegans</i> Neuroblast Delamination | Glenbrook |
| 5:15 PM | AB | Jasmine Towns | Investigating Neuronal and Microglial Characteristics on Platinum Bulk Metallic Glasses | Long Ridge |
| 5:30 PM | AB | Jackson Allen | Modeling Secondary AML Through In vitro Characterizations of Combined IDH and JAK-STAT Activation Mutations | Glen I |
| 5:30 PM | AB | David Bunn | Nucleoside Analogues Activated by Adenosine Kinase for the Treatment of Primary Effusion Lymphoma and Multiple Myeloma | Aspen I |
| 5:30 PM | AB | Kelsey Gallant | Determining the Mechanism of Resistance to Akt Inhibitors in Breast Cancer | Glen III |
| 5:30 PM | SS | Isaiah Gibson | Just(us) and the Black Church: A Case Study of Social Justice in Harlem's St. Luke AME Church | Waterside |
| 5:30 PM | HU | Jeremy Glover | Blurred Understandings and Interpretations: A Queer Reading of Two Women in Chaucer's <i>Canterbury Tales</i> | Belldown |
| 5:30 PM | AB | Erin Hollander | Tau Immunotherapy for Alzheimer's Disease: Analyzing the Effects of Single and Multiple Epitope Vaccines on Astrocytes and Microglia | Long Ridge |
| 5:30 PM | AB | Chibuokem Ikwuazom | SSRIs Upregulate Expression of 5-HT1A Receptor mRNA in the Dentate Gyrus of Major Depression Disorder Patients | Elm I |
| 5:30 PM | BB | Jihane Jadi | Labeling Autophagosomes with Fluorescent Markers to Investigate Autophagy in Neurons of <i>C. Elegans</i> | Glenbrook |
| 5:30 PM | BB | Paige Leary | Clarifying Phenotypes of Glass Target Genes in <i>Drosophila</i> Photoreceptor Differentiation | Westover |
| 5:30 PM | BB | Katherine Lopez | BDNF Prodomain Polymorphism Val66Met Induces Neuronal Changes | Elm II |
| 5:30 PM | HU | Kayla Pinson | The Narrow Path to Justice: Amnesty and Memory in Post Apartheid South Africa | Cove I |
| 5:30 PM | BB | Osvaldo Rivera | Roles of BRCA2 and SLX4 in Replication-Stress-Induced Genomic Break Sites | Alder |
| 5:30 PM | SS | Madelene Santizo | Eres lo que Comes: Ethnic Restaurants and the (Re)production of Cultural Identities in Upper Manhattan | Cove II |

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|---------|----|-----------------------------------|---|----------------------|
| 5:30 PM | SS | Rasaan Turner | Millennial Musings: The Influence of Racial/Ethnic Identity on Music Consumption Behaviors Among the "Millennial" Generation | Springdale II |
| 5:30 PM | BB | Donte' Verrill-Huffman | Nonluminance-Mediated Changes in Pupil Diameter and its Relationship with Synchronized Neural Firing | High Ridge |
| 5:30 PM | AB | Ashley Viera-Ortiz | Biochemical and Molecular Analysis of Subcellular Fractions of ALS/FTD Brains | Aspen II |
| 5:30 PM | BB | Brandyn White | Characterization of SETD2's Catalytic Domain Mutations Implicated in Kidney Renal Clear Cell Carcinoma | Glen II |
| 5:45 PM | AB | Jeffrey Boakye | Anticancer Activity of Novel DCLK1 Inhibitors in Neuroblastoma Cells | Glen III |
| 5:45 PM | SS | Iliana De Santis | The Expansion of Comida Chatarra: An Analysis on Diet Change in Mexico | Cove II |
| 5:45 PM | HU | Taylor Evans | "We Are Here and We Will Not Be Silenced": Conflict, Resistance, and the Role of Transgender Women of Color during the Gay Liberation Movement, 1969-1974 | Waterside |
| 5:45 PM | HU | Cassandra Flores-Montano | Esta Cafe: Brown Berets, Gender, and the State | Belltown |
| 5:45 PM | BB | Jenna Freund | Elucidating Rab7 and Actomyosin Interactions in Schwann Cell Development and Myelination | Glenbrook |
| 5:45 PM | AB | Hector Galvez | Mitochondrial Mass and Function in Breast Cancer: Significance for Cancer Subtyping and Treatment | Alder |
| 5:45 PM | AB | Wisberty Gordian Velez | In vitro Synaptogenesis in Micro-Tissue Engineered Neural Networks | Elm II |
| 5:45 PM | HU | JoVaun Holmes | African Modernism? Gauging the Intersection of Race, Modernist Art Historical Studies, and the Idea of Authenticity | Springdale II |
| 5:45 PM | AB | Aaron Hudson | An Analysis of the Interaction Between Obesity and Measures Predicting Prostate Cancer-Free Survival | Glen I |
| 5:45 PM | AB | Tiara Lacey | CaMKII Alpha Expression Patterns in the Mouse Ventral Tegmental Area | Long Ridge |
| 5:45 PM | BB | Grace Milburn | Investigating the Role of CXCR4 in T-Cell Acute Lymphoblastic Leukemia | Glen II |
| 5:45 PM | HU | Victoria Mogollon Montagne | Preparing for the Show: Ideologies of Children's Development at Two New York City Community Music Programs | Cove I |
| 5:45 PM | BB | Tania Ramos Santiago | Development of Gene Therapy for Leber's Congenital Amaurosis due to RDH12 Mutations | High Ridge |
| 5:45 PM | BB | Mario Rodriguez | Morphological and Behavioral Examination of Olfaction Recovery After Irritant Exposure in Mice | Westover |
| 5:45 PM | AB | Phillip Stephens | Does Chemotherapy-induced Peripheral Neuropathy Affect Different Sensory Neuron Subtypes? | Aspen I |
| 5:45 PM | AB | Kelly Tellez | Restoration of Neuropeptide Y Signaling in Mice Overexpressing Amyloid Precursor Protein | Aspen II |
| 5:45 PM | AB | Andres Villegas | Role of a Cell Cycle Regulator in Subcortical Parvalbumin Interneurons: Implication for Schizophrenia | Elm I |

Oral Presentations by Room

Alder, AB/BB

11:15 am - 5:45 pm

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| Evan Brooks | Characterization of Tissue Mineralization Defects in Fin Rays of Zebrafish Mutants | 11:15 AM |
| Natasha Navejar | A Kinematic Analysis of Reaching in the Naturally Foraging Common Marmoset (<i>Callithrix jacchus</i>) | 11:30 AM |
| Anna Morales | The Molecular Effects of In Utero Nicotine Exposure on C57BL/6 Mice and Their Progeny | 11:45 AM |
| Daniel Tirado | Diurnal CORT Circulation Influences Conditioned Fear Extinction Learning and Fear Renewal | 12:00 PM |
| Daniel Perez | Analyzing the Effects of Parental Dietary Stressors on Embryonic Development in <i>C. Elegans</i> | 12:15 PM |
| Joanna Hurtado | Characterization of ER Stress Mediated ARPE Cell Death Triggered by Lipofuscin Bisretinoid A2E | 12:30 PM |
| Stephany Caicedo | Understanding the Interaction Between Anthrax Lethal Factor and MAP Kinase Kinase Substrates | 2:45 PM |
| Daymond Parrilla | Monitoring Plk4 Kinase Activity in Living Cells | 3:00 PM |
| Andrew Hart | Molecular Dissection of the Complement-like Pathway in Anopheles Mosquitoes | 3:15 PM |
| Emmanuella Egbonim | Optimization of PCR for <i>Oxalobacter Formigenes</i> Group 2 | 3:30 PM |
| Keishla Figueroa Colón | Micro RNA-93 Targets IRF9 to Regulate Macrophage Polarization | 3:45 PM |
| Benny Marin-Acevedo | Differential Expression of Micro-RNAs in Hypertrophic Cardiomyopathy Mouse Model | 4:00 PM |
| Logan Northcutt | Manipulating Chemokines and TGF- β to Enhance Neutrophil Killing and Reduce Metastasis | 4:45 PM |
| Russell Arellanes | MIF's Role in Cancer Metastasis Through the Regulation of Fibronectin, Collagen Crosslinking, and Myeloid Cell Infiltration | 5:00 PM |
| Kelcee Everette | Uncovering Heterogeneity in the Motility of Breast Cancer Cells | 5:15 PM |
| Osvaldo Rivera | Roles of BRCA2 and SLX4 in Replication-Stress-Induced Genomic Break Sites | 5:30 PM |
| Hector Galvez | Mitochondrial Mass and Function in Breast Cancer: Significance for Cancer Subtyping and Treatment | 5:45 PM |

Aspen I, AB/BB

11:15 am - 5:45 pm

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| Sarah Seto | Nucleolar Response and DNA Damage after Exportin-1 Inhibition | 11:15 AM |
| Cipriano Zuluaga | Determining the Role of Nucleolar Factors in Replication of DNA Viruses | 11:30 AM |
| Camila Villasante | Sequence Preference of the Human DNA Transposase PGBD5 | 11:45 AM |
| Rahul Sharma | Characterizing Novel Interactors of the Sin3B Complex and Their Roles in Transformation | 12:00 PM |
| Noah Bloch | Regulation of RAG2 Protein in Response to DNA Damage | 12:15 PM |
| Matheus Martins | Engineering a Selective DNA Sequestration Platform for Biomolecular Nanotechnology | 12:30 PM |
| Ezekiel Bello | Entry Coreceptor use by SIV from Mustached Monkey, the Ancestor of HIV-1 | 2:45 PM |
| Assama Ketegou | The Effects of Pediatric SIV Infection on Neurogenesis | 3:00 PM |
| Ambar Cajigas Hernandez | SIV Infection of Pigtail Macaque Monocytes-Derived Macrophages Induces Heme Oxygenase-1 Expression | 3:15 PM |
| Julia Heinze | Models for Herpes Simplex Virus Infection Using Human Embryonic Stem Cell Derived Neurons | 3:30 PM |
| Camilla Castro | Characterizing the Role of Herpes Simplex Virus Type 1 Protein Kinase Us3 in Regulating mRNA Translation | 3:45 PM |

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| Krystal Roggeron | Investigating the Effects of Hepatitis C Virus-induced Exosomes on T Cells | 4:00 PM |
| Oluwatomiwa Awobayiku | The Role of Focal Adhesion Kinase (FAK) in Pancreatic Cancer | 4:45 PM |
| Kiara McDaniel | Development of Melanoma 3D-Organoids: A New Preclinical Model for the Understanding and Treatment of Melanoma | 5:00 PM |
| Patrick Bruck | Development of Neoantigen-Specific Vaccines for Pancreatic Cancer | 5:15 PM |
| David Bunn | Nucleoside Analogues Activated by Adenosine Kinase for the Treatment of Primary Effusion Lymphoma and Multiple Myeloma | 5:30 PM |
| Phillip Stephens | Does Chemotherapy-induced Peripheral Neuropathy Affect Different Sensory Neuron Subtypes? | 5:45 PM |

Aspen II, AB/BB

11:15 am - 5:45 pm

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| Canessa Swanson | Characterization of linc-RNA Gas5 Binding Affinity to Glucocorticoid Receptor Through Mutagenesis | 11:15 AM |
| Grace McKenzie-Smith | Antigen Development for Human and Mouse CENP-A and CENP-C | 11:30 AM |
| Pineal Bekere | The Role of K63-Linked Ubiquitination in Telomere Cohesion | 11:45 AM |
| Patrick Griffin | ZBTB24: A Novel Protein Linking Pericentromeric Heterochromatinization to Centromeric Instability | 12:00 PM |
| Sara Haile | The Mystery Proteins of SCCmec Type V | 12:15 PM |
| Kiana Annunziata | Roles of Ubiquitination and Deubiquitination in the Regulation of the DNA Damage Recognition Factor XPC | 12:30 PM |
| Shirley Jusino | Role of the Human Parainfluenza Virus type 3 Fusion Machinery in Viral Growth in the Natural Host | 2:45 PM |
| Tomaz Manzoni | Modeling Interactions Between APOBEC3G and HIV Vif Polymorphs In Vivo | 3:00 PM |
| Marilyn Vasquez | Identifying Genetic Regulators of the LukAB Toxin in Staphylococcus Aureus | 3:15 PM |
| Philip Frasse | GlpQ- and Pce-Dependent Interactions Between Streptococcus pneumoniae and Haemophilus influenzae | 3:30 PM |
| Andrew Thompson | Identification of Cellular Factors That Restrict ChiKV Replication | 3:45 PM |
| Trini Ochoa | Revisiting Classical Definitions of Hemagglutinin Antigenic Sites Using Different H1N1 Strains | 4:00 PM |
| Ruka Aderogba | Screening for Genetic Suppressors of a C. elegans Model of ALS | 4:45 PM |
| Cesar Dominguez | Novel PPAR-Agonist Treatment of an Experimental Model of Sporadic Alzheimer's Disease | 5:00 PM |
| Jasmine Kaur | Prostaglandin J2 alters Amyloid Precursor Protein (APP) Localization and Trafficking: Relevance to Alzheimers Disease | 5:15 PM |
| Ashley Viera-Ortiz | Biochemical and Molecular Analysis of Subcellular Fractions of ALS/FTD Brains | 5:30 PM |
| Kelly Tellez | Restoration of Neuropeptide Y Signaling in Mice Overexpressing Amyloid Precursor Protein | 5:45 PM |

Belltown, HU/PE/SS

11:15 am - 5:45 pm

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| Andrea Penman-Lomeli | Bodies that Work: Citizenship and the Rendering of Chicana/o Identity in Tomas Rivera's "...y no se lo trago la tierra" | 11:15 AM |
| Jasmine Kirby | Challenging Racist Assumptions of Biological Origins of Violence and the Ethics of Human Experimentation on Marginalized Populations: The UCLA Violence Research Controversy 1972-1974 | 11:30 AM |
| Ouma Amadou | Constructing (Black) Girlhood: Assimilation, Americanization, or Ambivalence | 11:45 AM |
| Thuy Tran | The Vietnam/American War: Representation of the Enemy in Literature | 12:00 PM |

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| Adaeze Okoli | Migration in the Rainbow Nation: A Look at Internal Migration in South Africa 20 Years Post-Apartheid | 12:15 PM |
| Cheswayo Mphanza | Tha Block Is Hot: Gwendolyn Brooks' Black Aesthetic | 12:30 PM |
| Elyce Williams | The Effects of Unconscious Awareness on Size-Depth Visual Illusions | 2:45 PM |
| Anthony Longoria | Investigating the molecular Pathways of Methamphetamine Impact on Hippocampal-Dependent Spatial Memory Performance | 3:00 PM |
| Aeriel Ferreira | The Role of Prison Based Substance Abuse Treatment Programs in Preventing Post-Incarceration Substance Use | 3:15 PM |
| Hailey Egidio-Betancourt | Neuroimaging and Negative Valence Conditioned Inhibition Studies of the Habenula | 3:30 PM |
| Nadira Yusif | Interference Effect on Visuomotor Rotational Adaptation and Recall | 3:45 PM |
| August Jenkins | Content and Context Limitations with University Level International Students: Reader's Gender, Topic Knowledge and Comprehension | 4:45 PM |
| Gail Fletcher | Culture or Cruelty? How Women's Rights Debates on Female Genital Cutting and Child Marriage Have Changed Over Time | 5:00 PM |
| Tabatha Holley | Black Women Negotiating 'Ratchet' Politics in the Southern U.S. | 5:15 PM |
| Jeremy Glover | Blurred Understandings and Interpretations: A Queer Reading of Two Women in Chaucer's <i>Canterbury Tales</i> | 5:30 PM |
| Cassandra Flores-Montano | Esta Cafe: Brown Berets, Gender, and the State | 5:45 PM |
| Hector Galvez | Mitochondrial Mass and Function in Breast Cancer: Significance for Cancer Subtyping and Treatment | 5:45 PM |

Cove I, HU/PE/SS

11:15 am - 5:45 pm

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|-----------------------------------|--|-----------------|
| Gabriela Barrios | Varying Narratives: Traumatic Memory and Subversion in Nellie Campobello's <i>Cartucho</i> | 11:15 AM |
| Olivia Carpenter | (Re-)Examining Literacies: Native Authors of Early American Literature | 11:30 AM |
| Joel Rhone | Surveillance, Policing, and the Politics of Space in Superman Comic Books | 11:45 AM |
| Arielle Irizarry | Disassembling Logic With Historical Context and Feeling in 20th to 21st Century Literature | 12:00 PM |
| Alyssa Zannella | Poverty in U.S. Fiction | 12:15 PM |
| Nasib McIntosh | Some Vaster, Mightier Thing: Representations of Intimacy in Afrofuturist Literature | 12:30 PM |
| Courtney Cooper | The Power of Social Class in Relationship Outlook | 2:45 PM |
| Adrienne Scott | American Perceptions of Welfare Policy and the Welfare Queen: An Analysis of Generosity Before and After the Great Recession | 3:00 PM |
| Jeremy Pagan | From Stereotype Threat To Violence: The Focus On Police & Demonstrators During A "Perfect Storm" | 3:15 PM |
| Andrea Baltazar | Personality and Demographic Characteristics of Dropouts in a Longitudinal Study | 3:30 PM |
| Ana Maldonado | Intimate Partner Violence: The Effects of Perpetrator Characteristics on Treatment Engagement and Outcome | 3:45 PM |
| Tamrin Stewart | Black President, Continued Black Suffering: Predicting African-American Political Behavior in the Post-Obama Era | 4:00 PM |
| Clair Beltran | Fields of Difference: Differences in Usage and Perception of Urban Park Spaces | 4:45 PM |
| Oscar Hurtado | Mission Gentrification: Finding Spatial Meaningfulness and Cultural Identity in San Francisco | 5:00 PM |
| Shemiah Curry | School Choice in Gentrifying Neighborhoods | 5:15 PM |
| Kayla Pinson | The Narrow Path to Justice: Amnesty and Memory in Post Apartheid South Africa | 5:30 PM |
| Victoria Mogollon Montagne | Preparing for the Show: Ideologies of Children's Development at Two New York City Community Music Programs | 5:45 PM |

Cove II, HH/SS**11:15 am - 5:45 pm**

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| Brittanie Lewis | The Iranian Woman in the Chador: Symbolic Representation of Nationhood in the 1970s | 11:15 AM |
| Lindsey Burgess | The Effects of Neo-Colonialism on Late 20th Century Drug Trafficking in Nigeria | 11:30 AM |
| Matthew Fairchild | Civil War and Reconstruction Historiography: A Shift in Perspective | 11:45 AM |
| Jonatan Perez | Closing the Door: LULAC and the Exclusion of Mexican Immigrants in San Antonio, Texas During the Great Depression | 12:00 PM |
| Cynthia Marrero-Ramos | El Diablito Subterneo: Hidden Knowledge, Public Power, and the Abaku Society in Colonial Cuba | 12:15 PM |
| Sam Trejo | Foreign Aid, Fire-Arms, and Civil War | 12:30 PM |
| Beverlin Del Rosario | The Relationship Between Sleep Disturbances and Emotion Dysregulation in Self-Harm Behavior | 2:45 PM |
| Aja Evans | Learning and Transfer of Sequential Task Control Policies | 3:00 PM |
| Jamal Thorne | The Effects of Phrasing, Visualization, and Spatial Ability on Bayesian Reasoning | 3:15 PM |
| Celia Ford | Status Judgments as a Function of the Interaction Between Facial Dominance and Social Context | 3:30 PM |
| Blanca Ramirez | Is Adolescent Intimate Partner Violence a Learned Behavior? Insights from the Fragile Families Study | 3:45 PM |
| Andrea Hernández-Vega | The Association of Methamphetamine Abuse and Poor Cognitive Flexibility in a Sample of Gay and Bisexual Men | 4:00 PM |
| Debanjan Roychoudhury | All Eyez on Me: Surveillance and Policing in West Harlem's Neighborhood of Hamilton Heights | 4:45 PM |
| Felipe Huicochea | Perceptions of Mexican Restaurants in Yelp Reviews | 5:00 PM |
| Michael Menefee | Criminal Records, Race, and the Search for Work | 5:15 PM |
| Madelene Santizo | Eres lo que Comes: Ethnic Restaurants and the (Re)production of Cultural Identities in Upper Manhattan | 5:30 PM |
| Iliana De Santis | The Expansion of Comida Chatarra: An Analysis on Diet Change in Mexico | 5:45 PM |

Elm I, AB/BB**11:15 am - 5:45 pm**

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| Rebecca Arteaga | Understanding the Amino Acid Requirements of a Simple Transmembrane Oncoprotein | 11:15 AM |
| Gerardo Reyes Chavez | Logistics of the Vitellogenin and Yolk Proteins in the Sea Star, Patiria miniata | 11:30 AM |
| Tara Ramirez | Expression Screening of TRP Channels for Structural and Biochemical Studies | 11:45 AM |
| Amelia Hallworth | Characterizing Forkhead Binding Specificity | 12:00 PM |
| Rolando Garza | Phosphatidylinositol Phosphate Facilitates the TIPE:Pleckstrin Homology-Domain Protein-Protein Interaction | 12:15 PM |
| Jonuelle Acosta | Should I Stay or Should I Go: Screening for Regulators of Mitochondrial Motility | 12:30 PM |
| Akinola Sogunro | Dendritic Cell Migration Within the Spleen Regulates the Induction of Red Blood Cell Alloimmunization | 2:45 PM |
| Kajal Patel | Investigating the contribution of FIS to stress response and virulence in Yersinia | 3:00 PM |
| Luis Cortina | Fatty Acid Oxidation Regulates Metabolic Adaptation to Low Glucose in Primary Human T-Cells | 3:15 PM |
| Andrea Guzman | Synthesis and Characterization of Thermally Sensitive Liposomes for Targeted Drug Delivery | 3:30 PM |
| Katherine Gonzalez | The Effect of RAGE in the Immune Response to High Fat Feeding | 3:45 PM |
| James Wondra | Determining the Role of LXR Alpha/Beta in Newly Recruited Macrophages During Atherosclerosis Regression | 4:00 PM |

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|---------------------------|--|----------------|
| Saidah Wright | Effects of GABA(B) Agonist Baclofen on Locomotor Activity and Anxiety in a Mouse Model of Fragile X Syndrome | 4:45 PM |
| Maria Navarro | Striatal Gene Expression Changes Associated with Sex-Specific Behavioral Deficits in Mouse Models of Autism | 5:00 PM |
| Lesia Liao | Sex Differences in Anxiety-Like Behavior in Response to a Synthetic Cannabinoid | 5:15 PM |
| Chibuokem Ikwuazom | SSRIs Upregulate Expression of 5-HT1A Receptor mRNA in the Dentate Gyrus of Major Depression Disorder Patients | 5:30 PM |
| Andres Villegas | Role of a Cell Cycle Regulator in Subcortical Parvalbumin Interneurons: Implication for Schizophrenia | 5:45 PM |

Elm II, AB/BB

11:15 am - 5:45 pm

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|-------------------------------|---|-----------------|
| Hebron Kelecha | The Cellular Localization of KRIT1 | 11:15 AM |
| Couger Jaramillo | The Ins and Outs of Calreticulin Induction of ECM | 11:30 AM |
| Victor Martinez | Examining the Sub-Cellular Localization of the Ajuba Protein in Human Cells | 11:45 AM |
| Felipe Anguiano | Suppressor Analysis of Cold Sensitive Mutations in the ATPase Prp43p | 12:00 PM |
| Alissa DiMasi | The Effects of miR-138 on Nicotine Consumption and Preference | 12:15 PM |
| Porfirio Fernandez | Characterization of miRNA Expression Profile Modified by α -Conotoxin in Chronic Constriction Injury Rat Model | 12:30 PM |
| Erlyana Clarke | Interleukin-25-Activated Innate Lymphoid Cells in Sepsis | 2:45 PM |
| Edgar Carlo | Endothelial Cell Barrier Lost by Angiopoietin 2 Levels in Indirect Acute Lung Injury Induced by Sepsis and Hemorrhage in Lung, Kidney and Liver Tissues | 3:00 PM |
| Chiamaka Ani | The Role of Stat6 in Altering the Microbiota During Helminth Infection | 3:15 PM |
| Juliana Nzongo | Genetic Screen of Novel Vibrio Cholerae Factors Involved in Biofilm Dispersal During Infection | 3:30 PM |
| Mateo Hernandez | Intracellular Vesicular Interactions during Salmonella Infection | 3:45 PM |
| Emily Linton | Analysis of Helicobacter pylori Growth and Protein Secretion under Multiple Culture Conditions | 4:00 PM |
| Chimdiya Onwukwe | Exploring Nicotine Induced Aversion in Projections from the Interpenduncular Nucleus to the Dorsal Raphe Nucleus | 4:45 PM |
| Tim Barry | Novel Suppressor Inhibits G-protein Coupled Receptor Signaling in Serotonergic Neurons | 5:00 PM |
| Christopher Lites | Effects of Epigallocatechin Gallate on Astrocyte Activation In METH-induced Toxicity | 5:15 PM |
| Katherine Lopez | BDNF Prodomain Polymorphism Val66Met Induces Neuronal Changes | 5:30 PM |
| Wisberty Gordian Velez | In vitro Synaptogenesis in Micro-Tissue Engineered Neural Networks | 5:45 PM |

Glen I, AB/BB

11:15 am - 5:45 pm

| | | |
|----------------------------|---|-----------------|
| Chih Ching Wu | CRISPR Knockout Tandem Gene Pairs in Arabidopsis | 11:15 AM |
| Gabriela Canales | En'Cas'ing the Stress: Engineering a Human Cell Line Knockout of Heat Shock Response Coordinator Genes Using CRISPR Cas9 System | 11:30 AM |
| Libere Ndacayisaba | Exploring miRNA Silencing Mechanisms Using Machine Learning Algorithms to Discover Biologically-Relevant Pathway Nodes | 11:45 AM |
| Marcos Ayala Rivera | Characterizing the Molecular Mechanisms of Diabetes by Using CRISPRs/CAS9 | 12:00 PM |
| Julie Trolle | Generating a CRISPRi System to Study the Function of lncRNAs in AML | 12:15 PM |
| Cassandra Sunga | Determining the Basis of UV Crosslinking Between Lin28 and let-7 miRNA | 12:30 PM |
| Mauricio Isaac | The Role of Lipid Phosphatase SHIP In Skeletal Development | 2:45 PM |

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|-------------------------|--|----------------|
| Giovanni Calixte | Chondrogenesis Deficiency in Matrilin-1 Knock-out Mice | 3:00 PM |
| Prisca Obi | Characterization of Murine Model of Osteogenesis Imperfecta Type VII in CRTAP Deficient Male Mice | 3:15 PM |
| Evelyn Campbell | The Influence of Interferon Stimulated Genes Ifi44 and Ifi2712a on the Thermogenic Capacity of Brown Adipocytes | 3:30 PM |
| Hamilton Green | Understanding the Role of the Metabolite Sensors YpdAB and YehUT in Uropathogenic Escherichia coli Adherence and Biofilm Formation | 3:45 PM |
| Ololade Sanusi | Study of Novel and Ultra Rare Arrhythmogenic Gene Variants in Sudden Unexplained Deaths | 4:00 PM |
| Nikaela Bryan | Fluorinated Bromothymol Blue: A Cerenkov-Absorbing Molecular Probe for In-Vitro pH Measurement of Tumor Microenvironment | 4:45 PM |
| Tiarra Joell | Defining Asthma Pathology Associated with Airway Acidification Through a Molecular Window of the Ovarian Cancer G Protein-Coupled Receptor 1 | 5:00 PM |
| Nicolas Balbi | Ultrasound Molecular Imaging for the Quantification of Endothelial Cell Receptor Expression During Tumor Angiogenesis | 5:15 PM |
| Jackson Allen | Modeling Secondary AML Through In vitro Characterizations of Combined IDH and JAK-STAT Activation Mutations | 5:30 PM |
| Aaron Hudson | An Analysis of the Interaction Between Obesity and Measures Predicting Prostate Cancer-Free Survival | 5:45 PM |

Glen II, AB/BB

11:15 am - 5:45 pm

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|------------------------------|--|-----------------|
| Philip Adejumo | Application of Pattern-Mixture Models for Missing Data in Longitudinal Studies | 11:15 AM |
| Lester Dela Cruz | Defining a Non-coding RNA Transcriptome: Applying Hidden Markov Model (HMM) to Define the Non-coding Areas of a Genome | 11:30 AM |
| Michael Pineda | Geospatial Characterization Of Distinct Metagenomic Landscapes | 11:45 AM |
| Geena Ildefonso | Mathematical Modeling of the NF-kB Signaling Pathway Using PySB | 12:00 PM |
| Huong Tang | Mass Spectrometric Analysis of De novo Assembled Transcriptomes | 12:15 PM |
| Chrystal Thomas | Shooting Blanks: Optimizing Mass Spectrometry Metabolomics Methods via Analysis of Injection Blank Effects | 12:30 PM |
| Binh Nguyen | Studying the Localization and Dynamics of Adherens Junction Proteins in Epithelial Cells Under Force | 2:45 PM |
| Laura Ritenour | Probing the Role of Adipocyte mTORC2 in Whole-Body Metabolism and Cold-Induced Thermogenesis | 3:00 PM |
| David Molina | Area-level Determinants of Blood Pressure Across the Life Course | 3:15 PM |
| Lauren Caton | Predictors of Weight Loss Magnitude in Johns Hopkins Weight Management Center Patients | 3:30 PM |
| Kiara Berrios | eNOS-derived Nitric Oxide Regulates Lipid Metabolites in Restricted Diet | 3:45 PM |
| Arnaldo Mercado-Perez | Metabolic Flux Analysis of Obesity-Associated Inflammation | 4:00 PM |
| Vladislav Zhitny | The Role of Matrix Metalloproteinase 23 (MMP-23) in T-cell Effector Memory Responses to Melanoma | 4:45 PM |
| Denise Aquino | Targeting the Cancer Stem Cell Population in Pancreatic Ductal Adenocarcinoma with BET and MEK Inhibitors | 5:00 PM |
| Ron Nwumeh | The Role of TERT Promotor Mutations in Oncogenesis | 5:15 PM |
| Brandyn White | Characterization of SETD2's Catalytic Domain Mutations Implicated in Kidney Renal Clear Cell Carcinoma | 5:30 PM |
| Grace Milburn | Investigating the Role of CXCR4 in T-Cell Acute Lymphoblastic Leukemia | 5:45 PM |

Glen III AB/BB

11:15 am - 5:45 pm

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|------------------------------------|---|-----------------|
| Kelly Fogelson | The Role of Potential LXR Associated Factors Identified by Mass Spectrometry on LXR Mediated Gene Transcription | 11:15 AM |
| Amorette Sanchez-Valdenegro | Modeling the Distribution of ChIP Pol II Along a Gene | 11:30 AM |
| Comfort Effi | YY1 Deletion Controls Condensin, Cohesin, and PcG DNA Recruitment, But Not Their Expression Levels | 11:45 AM |
| Abigail Shilvock | Examining the Mechanism of ADAR1 Mediated ISG Regulation | 12:00 PM |
| Diana Aponte Colon | Role of Epigenetic Proteins in Maintaining Programs of Endothelial Cell Gene Expression Under Basal Conditions | 12:15 PM |
| Ricardo Perez Dulzaides | TET Enzyme Variants as Tools to Understand Cytosine Epigenetic Modifications | 12:30 PM |
| Jermaine Wilson | Fabricate Patient-Specific Left Atrial Appendage (LAA) from a Silicone Elastomer 3D | 2:45 PM |
| Sierra Atwater | Influence of Substrate Stiffness on Cardiomyocyte Behavior | 3:00 PM |
| Patrick Donegan | The Role of Smooth Muscle Cell Mineralocorticoid Receptor in Cardiac Aging and Atrial Fibrillation | 3:15 PM |
| Gabrielle Akcelik | qPCR Validation of Asthma-Associated Genes Differentially Expressed in Airway Smooth Muscle Cells in Response to IL-13 and IL-17 | 3:30 PM |
| Maurice Whalen, Jr. | Does the Arterial Natriuretic Peptide Attenuate Agonist-Induced Pulmonary Edema Through Natriuretic Peptide Receptor-C? | 3:45 PM |
| Remington Rimple | Evaluating the Efficacy of Silk Sponge Patches for In Vivo Repair of the Heart Following Myocardial Infarction Using Immunohistochemistry | 4:00 PM |
| Julie Dorland | Radiation Modulates Inflammation and Immunity in Aged Trp53 Null Mammary Carcinogenesis | 4:45 PM |
| Victor Bayona | Mediation of Chemoresistance by ALOX5 in Acute Myeloid Leukemia | 5:00 PM |
| Ari Morgenstern | AMIGO2 is a Novel Therapeutic Target in Melanoma | 5:15 PM |
| Kelsey Gallant | Determining the Mechanism of Resistance to Akt Inhibitors in Breast Cancer | 5:30 PM |
| Jeffrey Boakye | Anticancer Activity of Novel DCLK1 Inhibitors in Neuroblastoma Cells | 5:45 PM |

Glenbrook EN/PS

11:15 am - 3:15 pm

| | | |
|-------------------------|--|-----------------|
| Monique McClain | Lagrangian Coherent Structures in High-Speed Premixed Turbulent Reacting Flows | 11:15 AM |
| Alexis Clavijo | Development of Nanosphere Lithography for Nanomagnetism | 11:30 AM |
| Valeria Aucapina | Growth of Nanorod Arrays with Controlled Geometries | 11:45 AM |
| Itza Beltran | The Effect of Vacuum Level and Water Charge on the Performance of Ultra-Thin Thermal Ground Planes | 12:00 PM |
| Ann Brasacchio | Suzuki-Miyaura Cross-Coupling of Aryl Sulfamates with Aryl Boronic Acids using Nickel Catalysts | 12:15 PM |
| Samantha Walker | Cryogenic Testing for BICEP3 | 12:30 PM |
| Armand Ngassam | Treatment of Water with Modified MFI Zeolites and UV Radiation | 2:45 PM |
| Elena Malloy | On the Study of Discriminants and Resultants of Polynomials over Finite Fields | 3:00 PM |
| Yauheniya Lahoda | Augmenting the Edge Connectivity of Planar Straight Line Graphs to Two | 3:15 PM |

Glenbrook AB/BB

3:30 pm - 3:15 pm

| | | |
|---------------------------|--|----------------|
| Shermaine Hutchins | Corroborating the Involvement of Polymerase Beta in Non-Homologous End Joining via DNA Basic Local Alignment Search Tool | 3:30 PM |
| Linda Egbosiuba | Determination of GCH1 Copy Number Variation in Field Samples from Nigeria | 3:45 PM |

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|----------------------|---|----------------|
| Saparja Nag | Synthesis and Characterization of Magnetic Contrast Agent Liposomes for Biomedical Imaging Applications | 4:00 PM |
| Lindsey Lopes | Identifying Neuropeptides Regulating C. Elegans Sleep | 4:45 PM |
| Habib Zahir | The Role of Ubiquitin Inclusions in Post-Ischemic Brain Tissue/Neurons | 5:00 PM |
| Julian Segert | Determination of the Downstream Ras Effector Pathway in C. elegans Neuroblast Delamination | 5:15 PM |
| Jihane Jadi | Labeling Autophagosomes with Fluorescent Markers to Investigate Autophagy in Neurons of C. Elegans | 5:30 PM |
| Jenna Freund | Elucidating Rab7 and Actomyosin Interactions in Schwann Cell Development and Myelination | 5:45 PM |

High Ridge, EN/PS

11:15 am - 12:30 pm

| | | |
|-------------------------|---|-----------------|
| Jessica Murdzek | Atomically Flat BaSnO ₃ Surface as a Novel Substrate for Epitaxial Films Growth | 11:15 AM |
| Tyler Dunbar | Carbon Dioxide Conversion Using Reduced Graphene Oxide as a Support for Single-atom Metal Catalysts | 11:30 AM |
| Michael Onyszcak | A Schrodinger-Poisson Solver for Oxide Interfaces | 11:45 AM |
| Priscilla Torres | Single Atom Catalyst for Solar Fuel Production | 12:00 PM |
| Alberto Ortiz | Synthesis of a Superlattice and LaNiO ₃ and Effect of Oxygen Annealing | 12:15 PM |
| Jonathan Ueki | Characterizing the Force Between Z3 Strings | 12:30 PM |

High Ridge, AB/BB

2:45 pm - 5:45 pm

| | | |
|-------------------------------|--|----------------|
| Brandon Hart | The Effects of EphB2 and EphrinB2 Knockouts with CRISPR/Cas9 in Spermatogonial Stem Cell Maintenance | 2:45 PM |
| Kemi Akinola | Generation of Lin28 Human Embryonic Stem Cell Reporter Line Using CRISPR Technique | 3:00 PM |
| Jaqueline Serrano | Using Human Embryonic Stem Cells to Recapitulate Skin Development | 3:15 PM |
| Rebecca Plessel | Identifying Self-Renewal Factors That Maintain Stem Cells in Drosophila Testes | 3:30 PM |
| Ehiremen Iyoha | The Role of SDF1B in the Development of the Hypobronchial Artery in Zebrafish | 3:45 PM |
| Anthony Guerrero | Paclitaxel Effect on Nuclear Envelope Morphology in Different Ovarian Cancer Cell Lines | 4:00 PM |
| Sarah Keltz | Colocalization of NMDA Receptor and Prion Protein in Mouse Primary Hippocampal Neurons | 4:45 PM |
| Prenicia Gant | Determining the Effects of Mutant Miro1 in the Neurons of a New Transgenic Mouse Model In Vivo | 5:00 PM |
| Chloe Lopez-Lee | The Influence of Estrogen Receptor Alpha on Hippocampal Phosphorylated TrkB Synaptic Plasticity | 5:15 PM |
| Donte' Verrill-Huffman | Nonluminance-Mediated Changes in Pupil Diameter and its Relationship with Synchronized Neural Firing | 5:30 PM |
| Tania Ramos Santiago | Development of Gene Therapy for Leber's Congenital Amaurosis due to RDH12 Mutations | 5:45 PM |

Long Ridge PS

11:15 am - 12:30 pm

| | | |
|-----------------------|--|-----------------|
| Jared Mitchell | Sharpening the Image of the Universe | 11:15 AM |
| Ayanna Jones | Dynamics of Habitable Planets in the Triple-Star System Alpha Centauri | 11:30 AM |
| Ashley Chontos | Simulations of Detectability of Extrasolar Planets for Future Space Mission WFIRST | 11:45 AM |
| Zaire Wade | The Energy Saving Potential of Reduced Accuracy Computation On Mobile Systems | 12:00 PM |
| Malik Hayes | Efforts Towards Maximum Performance Distributed Computation with Limited Power Budgets | 12:15 PM |
| Andria Palmer | Radiation Modeling in GEO and Jupiter Radiation Environments | 12:30 PM |

Long Ridge AB/BB

2:45 pm - 5:45 pm

| | | |
|------------------------------|--|----------------|
| Mariyah Pressley | Antibacterial Effects of Substrate Composition | 2:45 PM |
| Swathi Penumutthu | Impact of Antibiotics on Horizontal Gene Transfer in <i>Vibrio Cholerae</i> | 3:00 PM |
| Monica Thapaliya | Role of Vitamin A Metabolism in Antimicrobial Response in Intestinal Paneth Cell | 3:15 PM |
| Cesar Suarez | Testing the Efficacy of a Self-Assembling, Epitope-Based Vaccine That Was Designed to Reduce Systematic Chronic Inflammation | 3:30 PM |
| Hector Vargas-Acevedo | Role of agr Quorum Sensing Gene in the Induction of Staphylococcal Resistance to Antimicrobial Agents | 3:45 PM |
| Rachel Brown | Examining the Role of p300 in Endotoxin Tolerance in Monocytes | 4:00 PM |
| Diana Arroyo | Counting Gonadotropin-Releasing Hormone Neurons in the Brains of Different Mouse Strains | 4:45 PM |
| Rody Kingston | The Cellular Mechanisms Underlying the Effects of the Tail Suspension Test | 5:00 PM |
| Jasmine Towns | Investigating Neuronal and Microglial Characteristics on Platinum Bulk Metallic Glasses | 5:15 PM |
| Erin Hollander | Tau Immunotherapy for Alzheimer's Disease: Analyzing the Effects of Single and Multiple Epitope Vaccines on Astrocytes and Microglia | 5:30 PM |
| Tiara Lacey | CaMKII Alpha Expression Patterns in the Mouse Ventral Tegmental Area | 5:45 PM |

Springdale I, ES/HU/PE/SS

2:45 am - 5:45 pm

| | | |
|-------------------------------|---|----------------|
| Alina Scott | Research Toward a Comparison of Cherokee and Wampanoag Women's Antiremoval Petitioning | 2:45 PM |
| Anthony Velázquez | The Faces of Puerto Rico: Public Perception of Phenotype and Experienced Identity | 3:00 PM |
| Nnaemeka Ofodire | Challenges for Renewable Energy Implementation in Sub-Saharan Africa | 3:15 PM |
| Aleena Khan | American Public Opinion of the United States' Standpoint on the Palestinian-Israeli Conflict | 3:30 PM |
| Paulina Toro Isaza | Subnational Variation of Federal and Local State Capacity in Colombia | 3:45 PM |
| Courtney Scott | Plant Species Composition on Recent Landslides on the Front Range of Colorado: Relationship Between Soil Status and Plant Characteristics | 4:00 PM |
| Juliana Cruz Martínez | Allophones in the Parallel Shift of /uw/ and /ow/ in the Philadelphia Dialect | 4:45 PM |
| Heidi Williams | Scaling Up Social Belonging Interventions | 5:00 PM |
| Syeda Malliha | What Factors Influence Public Opinion on Natural Disasters? | 5:15 PM |
| Rebecca Plessel | Identifying Self-Renewal Factors That Maintain Stem Cells in <i>Drosophila</i> Testes | 3:30 PM |
| Ehiremen Iyoha | The Role of SDF1B in the Development of the Hypobronchial Artery in Zebrafish | 3:45 PM |
| Anthony Guerrero | Paclitaxel Effect on Nuclear Envelope Morphology in Different Ovarian Cancer Cell Lines | 4:00 PM |
| Sarah Keltz | Colocalization of NMDA Receptor and Prion Protein in Mouse Primary Hippocampal Neurons | 4:45 PM |
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| Chloe Lopez-Lee | The Influence of Estrogen Receptor Alpha on Hippocampal Phosphorylated TrkB Synaptic Plasticity | 5:15 PM |
| Donte' Verrill-Huffman | Nonluminance-Mediated Changes in Pupil Diameter and its Relationship with Synchronized Neural Firing | 5:30 PM |
| Tania Ramos Santiago | Development of Gene Therapy for Leber's Congenital Amaurosis due to RDH12 Mutations | 5:45 PM |

Springdale II HU/PE/SS

2:45 am - 5:45 pm

| | | |
|-------------------------------|---|----------------|
| Melissa Espinosa | What Influences Public Opinion on Immigrants and Immigration Policies? | 2:45 PM |
| Mahmoud Jalloh | Reflections on Physics: Philosophy, the Limits of Reason, and the Human Perspective | 3:00 PM |
| Alexander White | Agree to Disagree: Achieving Productive Moral Discussion in the Face of Controversy | 3:15 PM |
| Jessica Heppler | Assessing the Value of Justice in Plato | 3:30 PM |
| Victoria Ochoa | Latinos and the Media | 4:45 PM |
| Christopher Persaud | Social Science Research, Media Response, and Moral Judgment: Content Analysis of News Articles on the "LaCour Scandal" | 5:00 PM |
| Ahmad Greene-Hayes | Black Women's and Men's Legacies and Activism: Legal Discourse and Literary Interventions Against Sexual Violence, 1990-present | 5:15 PM |
| Rasaan Turner | Millennial Musings: The Influence of Racial/Ethnic Identity on Music Consumption Behaviors Among the "Millennial" Generation | 5:30 PM |
| JoVaun Holmes | African Modernism? Gauging the Intersection of Race, Modernist Art Historical Studies, and the Idea of Authenticity | 5:45 PM |
| Rebecca Plessel | Identifying Self-Renewal Factors That Maintain Stem Cells in Drosophila Testes | 3:30 PM |
| Ehiremen Iyoha | The Role of SDF1B in the Development of the Hypobronchial Artery in Zebrafish | 3:45 PM |
| Anthony Guerrero | Paclitaxel Effect on Nuclear Envelope Morphology in Different Ovarian Cancer Cell Lines | 4:00 PM |
| Sarah Keltz | Colocalization of NMDA Receptor and Prion Protein in Mouse Primary Hippocampal Neurons | 4:45 PM |
| Prenicia Gant | Determining the Effects of Mutant Miro1 in the Neurons of a New Transgenic Mouse Model In Vivo | 5:00 PM |
| Chloe Lopez-Lee | The Influence of Estrogen Receptor Alpha on Hippocampal Phosphorylated TrkB Synaptic Plasticity | 5:15 PM |
| Donte' Verrill-Huffman | Nonluminance-Mediated Changes in Pupil Diameter and its Relationship with Synchronized Neural Firing | 5:30 PM |
| Tania Ramos Santiago | Development of Gene Therapy for Leber's Congenital Amaurosis due to RDH12 Mutations | 5:45 PM |

Waterside HU/SS

11:15 am - 5:45 pm

| | | |
|----------------------------|--|-----------------|
| Stephanie Matos | Cultures of Ethics in Engineering-for-Development (EfD) and Design-for-Development (DfD) University-Based Programs | 11:15 AM |
| Malikia Johnson | Missing Lives: Diversifying Representations of African-American Women in Elementary Texts | 11:30 AM |
| Brandon Enriquez | Who Should Help Underprepared Students? The Effects of Limiting Remediation to Two-Year Colleges | 11:45 AM |
| Tianjian Lai | What Counts as Bullying?: Ethnic and Gender Differences in Adolescents' Interpretations of Peer Victimization | 12:00 PM |
| Amra Marshall | Social Support and Educational Attainment: The Pursuit of Academic Achievement in African American Male College Freshman | 12:15 PM |
| Erik Ugalde | Common Core: The New Labyrinth | 12:30 PM |
| Lilybeth Shields | The Gaming Effect: Why the Members of the Puerto Rican Gaming Community Acquire English More Easily Than Their Peers | 2:45 PM |
| Christopher Mendoza | First Impressions: A Prosodic Analysis of Interactional Style and Social Perception | 3:00 PM |
| Ariel Rosario | Examining the Effects of Divided Attention on Memory Retrieval After Different Learning Approaches | 3:15 PM |
| Sarah Master | Trauma-Related Symptoms and Reduced Gray Matter Volume in the Ventral Anterior Cingulate Cortex | 3:30 PM |

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|--------------------------|---|----------------|
| Kelvin De Leon | Ascending and Descending Alcohol Effects in Healthy Volunteers | 3:45 PM |
| Kiana Dash | Effect of Emotional State on Self Control in the Presence of Appetitive Cues | 4:00 PM |
| Hannah Basta | Julia's Nuptials: Free, Freed, and Slave Marriage in Late Fifth-Century Roman Law | 4:45 PM |
| Kerwin Holmes Jr. | Popular Ethics: Southern Christians and Slave Theology, 1830-1861 | 5:00 PM |
| Amanda Bennett | Body Politics: Examining African American Social Invisibility Through Slave Burial Grounds and the Pre-Texts Reading Program | 5:15 PM |
| Isaiah Gibson | Just(us) and the Black Church: A Case Study of Social Justice in Harlem's St. Luke AME Church | 5:30 PM |
| Taylor Evans | "We Are Here and We Will Not Be Silenced": Conflict, Resistance, and the Role of Transgender Women of Color during the Gay Liberation Movement, 1969-1974 | 5:45 PM |

Westover EN/PS

11:15 am - 4:00 pm

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|----------------------------|---|-----------------|
| Roy Anderson | Analyzing the Mechanical Properties of Three Polymer Based Vascular Grafts | 11:15 AM |
| Rachael Turner | Synthesis of a Seco-ring C Derivative of Stepholidine as a Potential Dopamine D3 Receptor Antagonist | 11:30 AM |
| Salvador Montes | Measuring Dynamic Instability of Microtubules | 11:45 AM |
| Isaiah Speight | Chemoenzymatic Synthesis of Functionalized Galactooligosaccharides. | 12:00 PM |
| Carla Bezjian | Synthesis and Study of Bipyridal Troger's Base Complexes | 12:15 PM |
| Mike Lopez | Fostering Scientific Identity in Underrepresented Minorities Through Informal Science Programs: The Role of PISEC | 12:30 PM |
| Jason Hughes | Changes in Metallic Glass Thin Film Microstructures upon Annealing in Supercooled Liquid Region | 2:45 PM |
| Amanda Ramdular | Diversity Oriented Synthesis of a Novel Benzannulated Spiroketal Screening Library | 3:00 PM |
| Susie Lira-Gonzalez | Ethnographic Analysis of First-Year Engineering Design Teams and Senior Engineering Design Teams | 3:15 PM |
| Stephanie Wyche | Size Dependence of Critical Heating and Cooling Rates in Bulk Metallic Glass Nano-rods | 3:30 PM |
| Raymond Lopez-Rios | Hyperspectral Coherent Diffractive Imaging Using Ptychography | 3:45 PM |
| Luis Duarte | Common Air Pollutants Impact Surface Proteins of Airborne Fungi and Pollens | 4:00 PM |

Westover AB/BB

4:45 pm - 5:45 pm

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|--------------------------|---|----------------|
| Thibaut Pardo | Behavioral Effects of a Novel Kappa Opioid Receptor Antagonist, LY2444296 | 4:45 PM |
| Stephanie Capsuto | The Role of Cav 1.3 L-type Ca ²⁺ Channels in Cocaine-induced Activation of CREB. CaMKII α Translocation to the Nucleus to Activate CREB | 5:00 PM |
| Nayib Gloria | Electrophysiological Responses to Decreased Contrast Sensitivity and Different Pattern Reversal Rates | 5:15 PM |
| Paige Leary | Clarifying Phenotypes of Glass Target Genes in Drosophila Photoreceptor Differentiation | 5:30 PM |
| Mario Rodriguez | Morphological and Behavioral Examination of Olfaction Recovery After Irritant Exposure in Mice | 5:45 PM |

Poster Presentations by Name

Osasumwen Aimiwu, 3

Presentation Title: Activational Differences of Orexin Neurons in Binge Eating Prone and Binge Eating Resistant Female Rats
Research Mentor: Kimberlei Richardson
Research Institution: Howard University
Home Institution: UC Irvine
Co-Authors: Kimberlei Richardson and Amber Kimble, Howard University; James Brown, Morehouse College

Jasmine Alexander-Brookings, 66

Presentation Title: Analyzing Adolescent Attachment: The Association Between Peer Attachment and Youth's Relationships with Important Adults
Research Mentor: Nancy Deutsch
Research Institution: University of Virginia
Home Institution: University of Connecticut
Co-Authors: Nancy Deutsch, Valerie Futch and Shannon Varga, University of Virginia - Education Sciences

Adriana Alire, 52

Presentation Title: Effects of DLGAP1 Gene Knockdown via shRNA in Autism Spectrum Disorders
Research Mentor: Derek Dykxhoorn
Research Institution: University of Miami
Home Institution: New Mexico State University
Co-Authors: Derek Dykxhoorn, University of Miami

Christopher Animashaun, 30

Presentation Title: Chemotaxis of Pseudomonas Aeruginosa to Arginine Metabolism-Derived Compounds
Research Mentor: Jane E. Hill
Research Institution: Dartmouth College
Home Institution: University of Maryland, Baltimore County
Co-Authors: Theodore Mellors and Jane Hill, Dartmouth College

Brennan Boyle, 1

Presentation Title: The Role of ErbB2 and EGFR Kinase on Cardiac Hypertrophy Protein Expression
Research Mentor: Kathleen Gabrielson
Research Institution: Johns Hopkins University
Home Institution: Boston College
Co-Authors: Kathleen Gabrielson, Polina Sysa-Shah and Cullen Bray, Johns Hopkins University

Alaysia Brown, 67

Presentation Title: I Am Not My Hair: Experiences of Appearance-Related Harassment Within the Black Community
Research Mentor: Patrick Tolan
Research Institution: University of Virginia
Home Institution: University of San Diego
Co-Authors: Patrick Tolan and Joanna Lee Williams, University of Virginia - Education Sciences

Amirah Burton, 9

Presentation Title: The Interaction of Pain Sensation, Age, and Weight with Locomotor Performance in Rats Following Thoracic Contusive Spinal Cord Injury
Research Mentor: Jeffrey Datto
Research Institution: University of Miami
Home Institution: North Carolina A&T State University
Co-Authors: Jeffrey Datto, University of Miami

Robert Calco, 42

Presentation Title: Targeting of Arrhythmogenic Ion Channels by MicroRNA-365
Research Mentor: Peng Zhang
Research Institution: Brown University
Home Institution: Kalamazoo College
Co-Authors: Peng Zhang and Nedyalka Valkov, Brown University

Johnny Castillo, 24

Presentation Title: Tackling EGFR Inhibitor Resistance In Non Small Cell Lung Cancer
Research Mentor: Feng Cong
Research Institution: Novartis Institutes for BioMedical Research
Home Institution: Novartis Institutes for BioMedical Research
Co-Authors: Xiaomo Jiang and Feng Cong, Novartis Institutes for Biomedical Research

Kurt Castro, 6

Presentation Title: Multiplexed Detection of Sexually Transmitted Diseases Based On Rolling Circle Amplification
Research Mentor: Jeff Wang
Research Institution: Johns Hopkins University
Home Institution: George Washington University
Co-Authors: Ye Zhang and Jeff Wang, Johns Hopkins University

Blake Chancellor, 38

Presentation Title: Dissecting the Role of ABIN1 in Programmed Cell Death
 Research Mentor: Junying Yuan
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: University of Tulsa
 Co-Authors: Slawomir A. Dziedzic and Zhenyi Su, Harvard Medical School; Junying Yuan, Harvard University

Lauren Christopher, 31

Presentation Title: Associations Between Stature and Foraging Behavior in a Rainforest Hunter-Gatherer Population
 Research Mentor: Nathaniel J. Dominy
 Research Institution: Dartmouth College
 Home Institution: Hunter College
 Co-Authors: Vivek V. Venkataraman, Nathaniel J. Dominy and Kirk M. Endicott, Dartmouth College

Genesis Colon 54

Presentation Title: The Measurement of the Shear Stress-Deformation Behaviors of Sand and Synthetic Lightweight Aggregate Under Monotonic and Cyclic Loadings
 Research Mentor: Genesis Ortiz
 Research Institution: Tufts University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Chris Swan and Matthew Masi-Phelps, Tufts University

Manju Connolly, 69

Presentation Title: Exploring the Role of Perceived Cognitive Load on the Vocabulary Performance of Students With and Without Disabilities in Middle School Science
 Research Mentor: Michael Kennedy
 Research Institution: University of Virginia
 Home Institution: University of Minnesota-Twin Cities
 Co-Authors: Michael Kennedy, University of Virginia - Education Sciences

Ana Defendini, 19

Presentation Title: Measurements of Spinal Motoneuron Excitability through F wave Analysis in Thenar Muscles Impaired by Spinal Cord Injury
 Research Mentor: Christine Thomas
 Research Institution: University of Miami
 Home Institution: UPR-Rio Piedras
 Co-Authors: Christine K Thomas and Bradley DeForest, University of Miami

Miranda Delgado, 5

Presentation Title: Effects of Radiation Therapy on Transforming Growth Factor Beta in Breast Cancer Prognosis
 Research Mentor: Jennifer Hu
 Research Institution: University of Miami
 Home Institution: DePaul University
 Co-Authors: Omar Nelson, Eunkyung Lee and Jennifer Hu, University of Miami

Nazia Denese, 65

Presentation Title: A Multimedia-Based Approach to Improving Vocabulary Performance of Middle School Science Students With and Without Disabilities
 Research Mentor: Michael Kennedy
 Research Institution: University of Virginia
 Home Institution: Hunter College
 Co-Authors: Michael Kennedy, University of Virginia - Education Sciences

Amanda Dortch, 62

Presentation Title: Effects of Sex Differences and Differing Light Cycles on Physical Activity Levels
 Research Mentor: Rebecca Burwell
 Research Institution: Brown University
 Home Institution: Tougaloo College
 Co-Authors: Rebecca Burwell, Valerie Estela and Methma Udawatta, Brown University

Christine Fisher 29

Presentation Title: Reactive Oxygen Species and Endothelial Function
 Research Mentor: Ruhul Abid
 Research Institution: Brown University
 Home Institution: College of Staten Island CUNY
 Co-Authors: Ruhul Abid, Bonnie Colantuono and Karla Reichert, Brown University

Zanah Francis, 23

Presentation Title: Characterization of *Epulopiscium* spp. Morphotype B Populations Using Multilocus Sequence Analysis
 Research Mentor: Esther Angert
 Research Institution: Cornell University
 Home Institution: Cornell University
 Co-Authors: Francine Arroyo and Esther Angert, Cornell University

Karina García Vazquez, 55

Presentation Title: Why “Do Not Touch”?
 Research Mentor: Lisa Piazza
 Research Institution: University of South Florida
 Home Institution: UPR-Rio Piedras
 Co-Authors: Lisa Piazza, University of South Florida

Sofia Gasperino, 10

Presentation Title: Role of the Chondroitin Sulfate (CS) Biosynthesis Pathway Enzymes in Axon-Glia Interaction
 Research Mentor: Sudheendra Rao
 Research Institution: University of Miami
 Home Institution: Virginia Polytechnic Institute and State University
 Co-Authors: Sudheendra Rao, University of Miami

Yohana Ghebrehristos, 7

Presentation Title: Effects of Polybrominated Diphenyl Ether (PBDE)-47 Exposure on DNA Methylation in Mouse Brain
 Research Mentor: Wan-ye Tang
 Research Institution: Johns Hopkins University
 Home Institution: Cornell University
 Co-Authors: Bonnie Yeung, James Limjunyawong and Wan-ye Tang, Johns Hopkins University

Khari Gilmore, 50

Presentation Title: Studies of V. Cholerae ToxR and ToxS Interactions in Response to Bile
 Research Mentor: F. Jon Kull
 Research Institution: Dartmouth College
 Home Institution: Xavier University of Louisiana
 Co-Authors: F. Jon Kull and Charles Midgett, Dartmouth College

Wesley Godfrey, 15

Presentation Title: Use of the Inspirotec as a Novel Sampler for Particulate Matter
 Research Mentor: Kirsten Koehler
 Research Institution: Johns Hopkins University
 Home Institution: University of Texas at Austin
 Co-Authors: Kirsten Koehler, Johns Hopkins University

Andrea Gutierrez Arango, 17

Presentation Title: Dramatic Changes in the Mortality and Lifespan Identified by Examination of Genealogical Records for Hanover, New Hampshire
 Research Mentor: Ruth Craig
 Research Institution: Dartmouth College
 Home Institution: UMass Boston
 Co-Authors: Nancy Wu, Emily Husson and Ruth Craig, Dartmouth College

Christiann Hill, 20

Presentation Title: Too Young to Be This Old: Regulation of Alternative Splice Sites that Lead to Progeria
 Research Institution: Novartis Institutes for BioMedical Research
 Home Institution: Novartis Institutes for BioMedical Research
 Co-Authors: Susanne Swalley, Sarah Luchansky and Cheng Song, Novartis Institutes for Biomedical Research

Tatiana Hill, 58

Presentation Title: Perceiving Visual Cues for the Interpretation of Intact and Scrambled Objects
 Research Mentor: George Alvarez
 Research Institution: Harvard University
 Home Institution: Amherst College
 Co-Authors: Bria Long and George Alvarez, Harvard University

Errol Hunte Jr, 43

Presentation Title: Impact of Age on the Metabolism of the Anti-HIV Drug Maraviroc
 Research Mentor: Namandje Bumpus
 Research Institution: Johns Hopkins University
 Home Institution: Brooklyn College CUNY
 Co-Authors: Namandje Bumpus, Johns Hopkins University

Robyn Jasper, 37

Presentation Title: Discovering the Role of Red1 and Mmi1 in Fission Yeast Meiotic Gene Silencing
 Research Mentor: Danesh Moazed
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Emily Egan and Danesh Moazed, Harvard Medical School

Sherrall Jenkins, 48

Presentation Title: Transcriptional Regulation of Cardiac Sodium Channel SCN5A Expression
 Research Mentor: Samuel Dudley
 Research Institution: Brown University
 Home Institution: Tougaloo College
 Co-Authors: Samuel Dudley and Anyu Zhou, Brown University

Virnaliz Jimenez, 61

Presentation Title: Goddess in the Mirror? Girls' Self-Worth and Mentoring
 Research Mentor: Nancy Deutsch
 Research Institution: University of Virginia
 Home Institution: University of North Carolina Chapel Hill
 Co-Authors: Nancy Deutsch and Valerie A Futch, University of Virginia - Education Sciences

Neco Johnson 60

Presentation Title: Exploring the Cognitive Mechanisms Underlying Memory Benefits of Wakeful Rest
 Research Mentor: Dave Balota
 Research Institution: Washington University in St. Louis
 Home Institution: San Diego State University
 Co-Authors: Peter Millar and David Balota, Washington University in St. Louis

Stephanie Kabeche, 47

Presentation Title: Characterization of a Prefusion-Specific Antibody that Recognizes a Quaternary, Cleavage-Dependent Epitope on the RSV Fusion Glycoprotein
 Research Mentor: Jason McLellan
 Research Institution: Dartmouth College
 Home Institution: University of Miami
 Co-Authors: Morgan Gilman and Jason McLellan, Dartmouth College

So Min (Lori) Kim, 36

Presentation Title: Biochemical and Structural Studies of Sigma-1 Receptor Homologs
 Research Mentor: Andrew Kruse
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: Northwestern University
 Co-Authors: Andrew Kruse, Harvard Medical School

Alicia Lee, 16

Presentation Title: Bosutinib-Loaded Nanofibers for Inhibiting Cancer Cell Migration
 Research Mentor: Hai-Quan Mao
 Research Institution: Johns Hopkins University
 Home Institution: Rutgers University
 Co-Authors: Hai-Quan Mao and Ji Suk Choi, Johns Hopkins University

Paola Lopez, 13

Presentation Title: Engineering Biomagnetism for Diagnostics and Therapy
 Research Mentor: Leon Xueliang Liu
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: University of Arizona
 Co-Authors: Leon Xueliang Liu, Jeffrey Way and Pamela Silver, Harvard Medical School

Beverly Lopez-Cancel, 63

Presentation Title: Do Parents Understand? Examining the Congruence Between Mothers' and Sons' Perceptions of Parental Practices
 Research Mentor: Patrick Tolan
 Research Institution: University of Virginia
 Home Institution: UPR-Rio Piedras
 Co-Authors: Patrick Tolan and Joanna Lee Williams, University of Virginia - Education Sciences

Kimberly Rose Madhwani, 32

Presentation Title: Enhancing the Expression of cJun to Promote Cortical Neuron Outgrowth
 Research Mentor: Vance Lemmon
 Research Institution: University of Miami
 Home Institution: CSU Northridge
 Co-Authors: Saloni Mehta and Vance Lemmon, University of Miami

Mahmoud Matar Abed, 2

Presentation Title: Characterizing Paper Platforms to Study The Effect of Interstitial Fluid Flow on 3D Cell Culturing
 Research Mentor: Melody Swartz
 Research Institution: University of Chicago
 Home Institution: UPR-Humacao
 Co-Authors: Melody Swartz and Luis Alonzo, University of Chicago

Elizabeth May, 39

Presentation Title: Investigating the Function of a Novel Actin/Spectrin Structure Discovered in Neuronal Axons by Super-Resolution Microscopy
 Research Mentor: Xiaowei Zhuang
 Research Institution: Harvard University
 Home Institution: Rochester Institute of Technology
 Co-Authors: Jiang He, Ruobo Zhou and Xiaowei Zhuang, Harvard University

Jamaarl Mercado Rivera 33

Presentation Title: Impact of Environmental Chemicals on Reproductive Health
 Research Mentor: Monica Colaiacovo
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: UPR-Aguadilla
 Co-Authors: Luciann Cuenca, Nara Shin and Monica Colaiacovo, Harvard Medical School

Ashley Metelus, 64

Presentation Title: Does Quality Matter? The Association Between Youth Adult Relationships and Future Aspirations
 Research Mentor: Nancy Deutsch
 Research Institution: University of Virginia
 Home Institution: University of South Florida
 Co-Authors: Nancy Deutsch, Valerie Futch and Mark Yu, University of Virginia - Education Sciences

Naomi Morales-Medina, 11

Presentation Title: Do Lipids Promote Angiogenesis? A Study of Liposomes as a Drug Delivery Vehicle
 Research Mentor: Phei Er Saw
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: UPR-Rio Piedras
 Co-Authors: Phei Er Saw, Omid Farokhzad and , Harvard Medical School

Ayeshia Morris, 56

Presentation Title: Molecular Insights into Pharmacological Inhibition of Microglial Pro-Inflammatory Response Using Mass Spectrometry-Based Proteomics
 Research Mentor: Stanley Stevens
 Research Institution: University of South Florida
 Home Institution: Rider University
 Co-Authors: Stanley Stevens, Dale Chaput and Jennifer Guergues, University of South Florida

Gabriel Mpilla, 28

Presentation Title: The Interaction of the MADS-box Protein in Aquilegia Floral Development
 Research Mentor: Elena Kramer
 Research Institution: Harvard University
 Home Institution: Delaware State University
 Co-Authors: Lynn D. Holappa and Elena M. Kramer, Harvard University

Salma Mumuni, 22

Presentation Title: Sex Steroid Hormones Effect on p53 Expression in Prostate Cancer Lines
 Research Mentor: Bernard Kwabi-Addo
 Research Institution: Howard University
 Home Institution: Western Michigan University
 Co-Authors: Bernard Kwabi-Addo, Pamela Clarke and Roderick Davis, Howard University

Ashley Ngo, 41

Presentation Title: Is it Left or is it Right?: Investigating Novel Regulators of Left-Right Asymmetry
 Research Mentor: Alex Schier
 Research Institution: Harvard University
 Home Institution: Williams College
 Co-Authors: Tessa Montague and Alex Schier, Harvard University

Mahogany Oldham, 18

Presentation Title: Mechanistic Effects of Cigarette Smoke Exposure (CSE) and Acrolein on Lung Permeability
 Research Mentor: Sharon Rounds
 Research Institution: Brown University
 Home Institution: Malone University
 Co-Authors: Sharon Rounds, Julie Newton and Qing Lu, Brown University

Martha Ordenez, 34

Presentation Title: Temporal and Spatial Origin of Cortical Interneurons
 Research Mentor: Corey Harwell
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: Hunter College
 Co-Authors: Miguel Turrero Garcia, Nicolas Gomez and Corey Harwell, Harvard Medical School

Taylor Patrick, 57

Presentation Title: Autonomous Behavioral Health Countermeasures for Spaceflight
 Research Mentor: Lorie Loeb
 Research Institution: Dartmouth College
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Jay Buckey, Mark Hegel and Lorie Loeb, Dartmouth College

Elizabeth Paul 8

Presentation Title: Engineering a Sensor in *S. Cerevisiae* for Arabinose Utilization
 Research Mentor: Nikhil Nair
 Research Institution: Tufts University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Venkatesh Gopinarayanan and Nikhil Nair, Tufts University

Miranda Petty, 59

Presentation Title: Investigating the Role of Interhemispheric Communication in Multiple Object Tracking
 Research Mentor: George Alvarez
 Research Institution: Harvard University
 Home Institution: CSU Fullerton
 Co-Authors: Roger Strong and George Alvarez, Harvard University

Kayla Prater, 21

Presentation Title: The Role of Stat3 in Bacterial Prostatitis and Prostatic Epithelial Proliferation
 Research Mentor: Edward Schaeffer
 Research Institution: Johns Hopkins University
 Home Institution: University of Findlay
 Co-Authors: Brian W. Simons and Edward M. Shaeffer, Johns Hopkins University

Keyera Randolph, 26

Presentation Title: Determining Cellular and Viral Interaction Partners of the Kaposi's Sarcoma-Associated Herpesvirus Protein ORF55
 Research Mentor: Marta Gaglia
 Research Institution: Tufts University Graduate BioMedical Sciences
 Home Institution: Saint Mary's University
 Co-Authors: Marta Gaglia and Hembly Rivas, Tufts University School of Graduate Biomedical Sciences

Josean Reyes, 53

Presentation Title: DNA-Polypeptide Complexes
 Research Mentor: Matthew Tirrell
 Research Institution: University of Chicago
 Home Institution: UPR-Rio Piedras
 Co-Authors: Matthew Tirrell, Lorraine León and Michael Lueckheide, University of Chicago

Bianca Romo, 44

Presentation Title: A Screen for Transmembrane Proteins that Promote Cell-Cell Fusion
 Research Mentor: Elizabeth Chen
 Research Institution: Johns Hopkins University
 Home Institution: Saint Mary's University
 Co-Authors: Shuo Li, Khurts Shilagardi and Elizabeth Chen, Johns Hopkins University

Jiwon Seo, 27

Presentation Title: The Effects of Upstream Nucleotides on the Readthrough Rate of VEGF-Ax
 Research Mentor: Victoria D'Souza
 Research Institution: Harvard University
 Home Institution: John Jay College of Criminal Justice CUNY
 Co-Authors: Nico Wagner and Victoria D'Souza, Harvard University

Jean Serrano, 14

Presentation Title: Engineering Mechano-Activated Cellular Sensors
 Research Mentor: Guillermo Garcia Cardena
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: UPR-Mayaguez
 Co-Authors: Guillermo Garcia Cardena, Harvard Medical School

Michaela Siver, 46

Presentation Title: Identifying Antibodies for Imaging of Copper Transporter CTR1 in Enteroids
 Research Mentor: Svetlana Lutsenko
 Research Institution: Johns Hopkins University
 Home Institution: Salve Regina University
 Co-Authors: Hannah Pierson and Svetlana Lutsenko, Johns Hopkins University

Ashley St. John, 45

Presentation Title: Analysis of the Role of Tonic Inhibition Mediated by Extrasynaptic GABAA Delta Subunit Receptors in Binge Drinking Behavior and Its Effects
 Research Mentor: Laverne Melon
 Research Institution: Tufts University Graduate BioMedical Sciences
 Home Institution: Lafayette College
 Co-Authors: Jamie Maguire and Laverne Melón, Tufts University School of Graduate Biomedical Sciences

Kahealani Uehara, 25

Presentation Title: Metabolomic Analysis of Anti-cancer Drug, NCL-240, in Ovarian Carcinoma
 Research Mentor: James Baleja
 Research Institution: Tufts University Graduate BioMedical Sciences
 Home Institution: Chaminade University of Honolulu
 Co-Authors: James Baleja and Alexei Degterev, Tufts University School of Graduate Biomedical Sciences

Jennifer Vargas 49

Presentation Title: pH Alters Epithelial Cell Susceptibility of Pseudomonas Infection-Induced Cytotoxicity
 Research Mentor: Brent Berwin
 Research Institution: Dartmouth College
 Home Institution: University of Miami
 Co-Authors: Iviana Margot Torres Fernandez and Brent Berwin, Dartmouth College

Brenda Velasco, 12

Presentation Title: The Role of Granulysin in Bacterial Infections
 Research Mentor: Judy Lieberman
 Research Institution: Harvard University, Division of Medical Sciences
 Home Institution: CSU Northridge
 Co-Authors: Judy Lieberman, Harvard Medical School

Jose Velilla, 35

Presentation Title: Structural and Physiological Role of Conserved Cysteines in the TRPC4 Ion Channel
 Research Mentor: Rachelle Gaudet
 Research Institution: Harvard University
 Home Institution: University of Florida
 Co-Authors: Rachelle Gaudet and Jeffrey McArthur, Harvard University

Sara Whitlock, 40

Presentation Title: Reverse Transcription Activity of HIV-1 Heat Annealed vs. Nucleocapsid Annealed Reverse Transcription Initiation Complexes
 Research Mentor: Victoria D'Souza
 Research Institution: Harvard University
 Home Institution: John Brown University
 Co-Authors: Victoria D'Souza and Zehra Yildiz, Harvard University

Nia Williams, 4

Presentation Title: The Interactions of NADPH Oxidase Subunits 2, 4, Reactive Oxygen Species, Interleukin-17 and Peroxisome Proliferator Activated Receptor - Alpha in the Mouse Kidney During Angiotensin II Hypertension
 Research Mentor: Dexter Lee
 Research Institution: Howard University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Dexter L. Lee, Ugoeze C. Ananaba and Joanne S. Allard, Howard University

Amber Williamson, 68

Presentation Title: Sisterly Support: The Links Between Mentor Quality and Mentee Perceived Program Effectiveness and Projected Goals
 Research Mentor: Nancy Deutsch
 Research Institution: University of Virginia
 Home Institution: College of Charleston
 Co-Authors: Nancy Deutsch and Valerie Futch, University of Virginia - Education Sciences

Qiu Chang Wu 51

Presentation Title: Acquired Resistance for Helminth Infections in the Cuban Tree Frog *O. Septentrionalis*
 Research Mentor: Jason Rohr
 Research Institution: University of South Florida
 Home Institution: The Colorado College
 Co-Authors: Sarah Knutie and Jason Rohr, University of South Florida

Poster Presentations by Number

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

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|----|--------------------------------|----|--|
| 1 | Brennan Boyle | AB | The Role of ErbB2 and EGFR Kinase on Cardiac Hypertrophy Protein Expression |
| 2 | Mahmoud Matar Abed | AB | Characterizing Paper Platforms to Study The Effect of Interstitial Fluid Flow on 3D Cell Culturing |
| 3 | Osasumwen Aimiwu | AB | Activational Differences of Orexin Neurons in Binge Eating Prone and Binge Eating Resistant Female Rats |
| 4 | Nia Williams | AB | The Interactions of NADPH Oxidase Subunits 2, 4, Reactive Oxygen Species, Interleukin-17 and Peroxisome Proliferator Activated Receptor - Alpha in the Mouse Kidney During Angiotensin II Hypertension |
| 5 | Miranda Delgado | AB | Effects of Radiation Therapy on Transforming Growth Factor Beta in Breast Cancer Prognosis |
| 6 | Kurt Castro | AB | Multiplexed Detection of Sexually Transmitted Diseases Based On Rolling Circle Amplification |
| 7 | Yohana Ghebrechristos | AB | Effects of Polybrominated Diphenyl Ether (PBDE)-47 Exposure on DNA Methylation in Mouse Brain |
| 8 | Elizabeth Paul | AB | Engineering a Sensor in <i>S. Cerevisiae</i> for Arabinose Utilization |
| 9 | Amirah Burton | AB | The Interaction of Pain Sensation, Age, and Weight with Locomotor Performance in Rats Following Thoracic Contusive Spinal Cord Injury |
| 10 | Sofia Gasperino | AB | Role of the Chondroitin Sulfate (CS) Biosynthesis Pathway Enzymes in Axon-Glia Interaction |
| 11 | Naomi Morales-Medina | AB | Do Lipids Promote Angiogenesis? A Study of Liposomes as a Drug Delivery Vehicle |
| 12 | Brenda Velasco | AB | The Role of Granulysin in Bacterial Infections |
| 13 | Paola Lopez | AB | Engineering Biomagnetism for Diagnostics and Therapy |
| 14 | Jean Serrano | AB | Engineering Mechano-Activated Cellular Sensors |
| 15 | Wesley Godfrey | AB | Use of the Inspirotec as a Novel Sampler for Particulate Matter |
| 16 | Alicia Lee | AB | Bosutinib-Loaded Nanofibers for Inhibiting Cancer Cell Migration |
| 17 | Andrea Gutierrez Arango | AB | Dramatic Changes in the Mortality and Lifespan Identified by Examination of Genealogical Records for Hanover, New Hampshire |
| 18 | Mahogany Oldham | AB | Mechanistic Effects of Cigarette Smoke Exposure (CSE) and Acrolein on Lung Permeability |
| 19 | Ana Defendini | AB | Measurements of Spinal Motoneuron Excitability through F wave Analysis in Thenar Muscles Impaired by Spinal Cord Injury |
| 20 | Christiann Hill | BB | Too Young to Be This Old: Regulation of Alternative Splice Sites that Lead to Progeria |
| 21 | Kayla Prater | BB | The Role of Stat3 in Bacterial Prostatitis and Prostatic Epithelial Proliferation |
| 22 | Salma Mumuni | BB | Sex Steroid Hormones Effect on p53 Expression in Prostate Cancer Lines |
| 23 | Zanah Francis | BB | Characterization of <i>Epulopiscium</i> spp. Morphotype B Populations Using Multilocus Sequence Analysis |
| 24 | Johnny Castillo | BB | Tackling EGFR Inhibitor Resistance In Non Small Cell Lung Cancer |
| 25 | Kahealani Uehara | BB | Metabolomic Analysis of Anti-cancer Drug, NCL-240, in Ovarian Carcinoma |
| 26 | Keyera Randolph | BB | Determining Cellular and Viral Interaction Partners of the Kaposi's Sarcoma-Associated Herpesvirus Protein ORF55 |

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| 27 | Jiwon Seo | BB | The Effects of Upstream Nucleotides on the Readthrough Rate of VEGF-Ax |
| 28 | Gabriel Mpilla | BB | The Interaction of the MADS-box Protein in Aquilegia Floral Development |
| 29 | Christine Fisher | BB | Reactive Oxygen Species and Endothelial Function |
| 30 | Christopher Animashaun | BB | Chemotaxis of Pseudomonas Aeruginosa to Arginine Metabolism-Derived Compounds |
| 31 | Lauren Christopher | BB | Associations Between Stature and Foraging Behavior in a Rainforest Hunter-Gatherer Population |
| 32 | Kimberly Rose Madhwani | BB | Enhancing the Expression of cJun to Promote Cortical Neuron Outgrowth |
| 33 | Jamaarl Mercado Rivera | BB | Impact of Environmental Chemicals on Reproductive Health |
| 34 | Martha Ordonez | BB | Temporal and Spatial Origin of Cortical Interneurons |
| 35 | Jose Velilla | BB | Structural and Physiological Role of Conserved Cysteines in the TRPC4 Ion Channel |
| 36 | So Min (Lori) Kim | BB | Biochemical and Structural Studies of Sigma-1 Receptor Homologs |
| 37 | Robyn Jasper | BB | Discovering the Role of Red1 and Mmi1 in Fission Yeast Meiotic Gene Silencing |
| 38 | Blake Chancellor | BB | Dissecting the Role of ABIN1 in Programmed Cell Death |
| 39 | Elizabeth May | BB | Investigating the Function of a Novel Actin/Spectrin Structure Discovered in Neuronal Axons by Super-Resolution Microscopy |
| 40 | Sara Whitlock | BB | Reverse Transcription Activity of HIV-1 Heat Annealed vs. Nucleocapsid Annealed Reverse Transcription Initiation Complexes |
| 41 | Ashley Ngo | BB | Is it Left or is it Right?: Investigating Novel Regulators of Left-Right Asymmetry |
| 42 | Robert Calco | BB | Targeting of Arrhythmogenic Ion Channels by MicroRNA-365 |
| 43 | Errol Hunte Jr | BB | Impact of Age on the Metabolism of the Anti-HIV Drug Maraviroc |
| 44 | Bianca Romo | BB | A Screen for Transmembrane Proteins that Promote Cell-Cell Fusion |
| 45 | Ashley St. John | BB | Analysis of the Role of Tonic Inhibition Mediated by Extrasynaptic GABAA Delta Subunit Receptors in Binge Drinking Behavior and Its Effects |
| 46 | Michaela Siver | BB | Identifying Antibodies for Imaging of Copper Transporter CTR1 in Enteroids |
| 47 | Stephanie Kabeche | BB | Characterization of a Prefusion-Specific Antibody that Recognizes a Quaternary, Cleavage-Dependent Epitope on the RSV Fusion Glycoprotein |
| 48 | Sherrall Jenkins | BB | Transcriptional Regulation of Cardiac Sodium Channel SCN5A Expression |
| 49 | Jennifer Vargas | BB | pH Alters Epithelial Cell Susceptibility of Pseudomonas Infection-Induced Cytotoxicity |
| 50 | Khari Gilmore | BB | Studies of V. cholerae ToxR and ToxS Interactions in Response to Bile |
| 51 | Qiu Chang Wu | BB | Acquired Resistance for Helminth Infections in the Cuban Tree Frog O. Septentrionalis |
| 52 | Adriana Alire | BB | Effects of DLGAP1 Gene Knockdown via shRNA in Autism Spectrum Disorders |
| 53 | Josean Reyes | EN | DNA-Polypeptide Complexes |
| 54 | Genesis Colon | EN | The Measurement of the Shear Stress-Deformation Behaviors of Sand and Synthetic Lightweight Aggregate Under Monotonic and Cyclic Loadings |
| 55 | Karina García Vazquez | HU | Why "Do Not Touch"? |
| 56 | Ayeshia Morris | PS | Molecular Insights into Pharmacological Inhibition of Microglial Pro-Inflammatory Response Using Mass Spectrometry-Based Proteomics |
| 57 | Taylor Patrick | PS | Autonomous Behavioral Health Countermeasures for Spaceflight |
| 58 | Tatiana Hill | SS | Perceiving Visual Cues for the Interpretation of Intact and Scrambled Objects |
| 59 | Miranda Petty | SS | Investigating the Role of Interhemispheric Communication in Multiple Object Tracking |

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| 60 | Neco Johnson | SS | Exploring the Cognitive Mechanisms Underlying Memory Benefits of Wakeful Rest |
| 61 | Virnaliz Jimenez | SS | Goddess in the Mirror? Girls' Self-Worth and Mentoring |
| 62 | Amanda Dortch | SS | Effects of Sex Differences and Differing Light Cycles on Physical Activity Levels |
| 63 | Beverly Lopez-Cancel | SS | Do Parents Understand? Examining the Congruence Between Mothers' and Sons' Perceptions of Parental Practices |
| 64 | Ashley Metelus | SS | Does Quality Matter? The Association Between Youth Adult Relationships and Future Aspirations |
| 65 | Nazia Denese | SS | A Multimedia-Based Approach to Improving Vocabulary Performance of Middle School Science Students With and Without Disabilities |
| 66 | Jasmine Alexander-Brookings | SS | Analyzing Adolescent Attachment: The Association Between Peer Attachment and Youth's Relationships with Important Adults |
| 67 | Alaysia Brown | SS | I Am Not My Hair: Experiences of Appearance-Related Harassment Within the Black Community |
| 68 | Amber Williamson | SS | Sisterly Support: The Links Between Mentor Quality and Mentee Perceived Program Effectiveness and Projected Goals |
| 69 | Manju Connolly | SS | Exploring the Role of Perceived Cognitive Load on the Vocabulary Performance of Students With and Without Disabilities in Middle School Science |

New Doctoral Scholars

The Leadership Alliance congratulates the following Doctoral Scholars who have completed their PhDs or MD-PhDs. These Doctoral Scholars bring the total number of Leadership Alliance Doctoral Scholars to 338.

Debora Figueroa-Nieves, PhD

BS, 2002, UPR-Rio Piedras
PhD, 2014, University of New Hampshire
(Durham)

Sabriya Linton, PhD

BS, 2002, Florida A&M University
PhD, 2013, Johns Hopkins University

Grisselle Cordero Mendez, PhD

BS, 2003, UPR-Mayaguez
PhD, 2008, UPR-Mayaguez

Luz-Jeannette Sierra

Gonzalez, PhD

BS, 2004, UPR-Mayaguez
PhD, 2014, Drexel University

Vera Hau, PhD

BA, 2004, Hunter College
PhD, 2012, SUNY Stony Brook

Moya Bailey, PhD

BA, 2005, Spelman College
PhD, 2013, Emory University

Nicole Manns-Mayo, PhD

BA, 2004, Spelman College
PhD, 2012, Howard University

Jessica S Henry, PhD

BA, 2005, Howard University
PhD, 2014, George Washington University

Nnenna Okeke, PhD

BA, 2005, Georgia Institute of Technology
PhD, 2014, University of Texas Health
Science Center at Houston

Samuel Haile, PhD

BS, 2006, Jackson State University
PhD, 2013, University of Maryland,
Baltimore County

Joan G Marcano Velazquez, PhD

BS, 2008, UPR-Mayaguez
PhD, 2015, University of Colorado Boulder

Zakiya Whatley, PhD

BS, 2007, Hampton University
PhD, 2014, Duke University

Jessica Larson, PhD

BS, 2006, Swarthmore College
PhD, 2012, Harvard University

Jeannice Louine, PhD

BA, 2009, Claflin University
PhD, 2015, Mississippi State University

Jenna Sablan, PhD

BA, 2010, American University
PhD, 2015, USC Rossier School
of Education

Monique Foster, PhD

BS, 2010, University of Maryland,
Baltimore County
PhD, 2015, New York University Sackler

Felicia Moralez, PhD

BA, 2009, Purdue University
PhD, 2015, University of Notre Dame

Jewell Debnam, PhD

BA, 2010, University of Virginia
PhD, 2015, Michigan State University

Jasmine Abrams, PhD

BA, 2010, Virginia State University
PhD, 2015, Virginia Commonwealth
University

Doctoral Scholar Participants

Vanessa T. Bobb

Psychiatrist
Psychiatry
Vanessa T. Bobb MD, PhD
vanessabobb@gmail.com

Travis Boyce

Associate Professor
Africana Studies
University of Northern Colorado
travis.boyce@unco.edu

Arnaldo Diaz

Assistant Dean for Research
Training Programs
Biomedical Graduate Studies
University of Pennsylvania
diaz@mail.med.upenn.edu

Yaihara Fortis

Program Manager
Science Alliance
The New York Academy of Sciences
yfortiss@gmail.com

Marisa Galvez

Assistant Professor of French
French and Italian
Stanford University
mgalvez@stanford.edu

Alyssa Garcia

Postdoctoral Fellow
African Diaspora Studies
DePaul University
alyssa1236@yahoo.com

Jesús Hernández

Visiting Assistant Professor of
Latina/o Studies
American Studies and Ethnicity
Mount Holyoke College
jesusjameshernandez@gmail.com

Meda Higa

Assistant Professor
Biological Sciences
York College of Pennsylvania
mhiga@ycp.edu

Jerainne Johnson-Heywood

Materials Engineer
jmichellej@hotmail.com

Marcus Jones

Sr. Research Scientist
Microbiome Development
Human Longevity, Inc.
mjones@humanlongevity.com

Joan Marciano-Velázquez

SMART Program Organizer
MCDB
University of Colorado Boulder
joan.marciano@colorado.edu

Teresa Nguyen

Postdoctoral Scholar
Obstetrics and Gynecology
University of Wisconsin Madison
nguyen25@wisc.edu

Chinonye Nnakwe

Director of Graduate Diversity Initiatives
Office of the Provost
University of Chicago
cnnakwe@gmail.com

Jihan Osborne

Post-Doctoral Fellow
Hematology/Oncology
Harvard University
jko1009@yahoo.com

Robert Patterson

Associate Professor and Director
African American Studies and English
Georgetown University
robert.patterson@georgetown.edu

Cesar Perez

Regulatory Officer Office of Compliance
Food and Drug Administration
cesar.perez@fda.hhs.gov

Teresa Ramirez

Post-doc
Laboratory of Liver Diseases
National Institute on Alcohol Abuse
and Alcoholism
ramirezte@mail.nih.gov

Frank Roberts

Lecturer
The Gallatin School of Individualized Study
New York University
frank.roberts@yale.edu

Yisa Rumala

Research Associate
Institute for Ultrafast Spectroscopy
and Lasers; Department of Physics;
Department of Electrical Engineering
City College of New York
yrumala@gmail.com

Shella Saint Fleur-Lominy

Research Track Fellow
Medicine-Hematology/Oncology
New York University Sackler Institute
ssf224@nyumc.org

Edgardo Sanabria-Valentín

Undergraduate Research Program
Coordinator/Pre-Professional Advisor
Department of Sciences
John Jay College of Criminal Justice CUNY
esanabriavalentin@jjay.cuny.edu

Evelyn Simien

Associate Professor
Political Science and Africana Studies
University of Connecticut
simien@uconn.edu

David Stout

Assistant Professor
Mechanical and Aerospace Engineering
CSU Long Beach
david.stout@csulb.edu

Tammi Taylor

Medical Laboratory Scientist
Microbiology
University of Mississippi
tamtaylo@gmail.com

Scharri Walker

Assistant Professor
Biology
Tougaloo College
swalker@tougaloo.edu

Shanta Whitaker

Health Policy Consultant
LMI
shantamwhitaker@gmail.com

Faculty, Administrators, and Other Participants

Carlos Alonso

Professor
Latin American and Iberian Cultures
Columbia University
calonso@columbia.edu

Earnestine Baker

Executive Director Meyerhoff
Scholars Program
Meyerhoff
University of Maryland, Baltimore County
erbaker@umbc.edu

Geneva Baxter

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

Jabbar Bennett

Associate Dean
Graduate School
Brown University
jabbar_bennett@brown.edu

Anastacia Berzat

Scientific Program Manager
Education, Diversity & Inclusion
Novartis Institutes for BioMedical Research
anastacia.berzat@novartis.com

Jeremy Boggs

Design Architect
Scholars' Lab, UVa Library
University of Virginia
jeremy@virginia.edu

Elizabeth Bowman

Assistant Professor
Biomedical Research Education
and Training
Vanderbilt University
elizabeth.a.bowman@vanderbilt.edu

Joseph Brown

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

Don Brunson

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

Eric Buckles

Interim Chairman
School of STEM
Dillard University
ebuckles@dillard.edu

Luis Cámara-Fuertes

Director Honors Program
Honors Program
UPR-Rio Piedras
luisraulcamara@gmail.com

Ana Carneiro

Assistant Professor
Pharmacology
Vanderbilt University
ana.carneiro@vanderbilt.edu

Carlos Castillo-Chavez

Executive Director
SAL MCMSC
Arizona State University
ccchavez@asu.edu

Roger Chalkley

Senior Associate Dean
Biomedical Research Education & Training
Vanderbilt University
roger.g.chalkley@vanderbilt.edu

Deborah Collins

Associate Director
Leadership Alliance
Brown University
deborah_collins_1@brown.edu

Leah Creque

Director of Honors Program/
Associate Professor
English
Morehouse College
leah.creque@morehouse.edu

Yvette Dalton-McCoy

Assoc. Director Graduate
Diversity Programs
Provost's Office
Tufts University
yvette.dalton-mccoy@tufts.edu

Shideh Dashti

Assistant Professor
Civil Environmental and
Architectural Engineering
University of Colorado Boulder
shideh.dashti@colorado.edu

Gabrielle DeVale

Project Assistant
Leadership Alliance
Brown University
gabz2098@gmail.com

Maria DeVale

Coordinator for Professional
Development & Networking
The Leadership Alliance
Brown University
maria_dovale@brown.edu

Denise Ellis

Program Manager, Alfred P. Sloan
Foundation Graduate
Scholarship Programs
Scholarships & University Relations
National Action Council for Minorities
in Engineering
sloanphds@nacme.org

Saul Fisher

Executive Director for Grants
and Academic Initiatives
Office of the Provost
Mercy College
sfisher@mercy.edu

Tiffani Fonseca

Fellowship Programs
Education
American Society For Microbiology
fellowships@asmusa.org

Michael Gaines

Professor
Biology
University of Miami
m.gaines@miami.edu

Isabel Geathers

Assistant Dean of Academic Diversity
GSAS
Columbia University
igeathers@columbia.edu

Medeva Ghee

Executive Director
The Leadership Alliance
Brown University
medeva_ghee@brown.edu

Alexander Gil

Digital Scholarship Coordinator
Humanities and History Division
Columbia University
colibri.alex@gmail.com

Leslie Godo-Solo

Associate Director
IRT
Institute for Recruitment of Teachers
lgodosolo@andover.edu

Christine Gonzalez

Associate Program Manager
Center for Translational and Basic Research
Hunter College
christine.gonzalez@hunter.cuny.edu

Fred Gorelick

Deputy Director
MD/PhD Program
Yale University
fred.gorelick@yale.edu

Louise Hainline

Professor
Psychology
Brooklyn College CUNY
louiseh@brooklyn.cuny.edu

Adam Hammond

Senior Lecturer
Biochemistry
University of Chicago
ahammond@uchicago.edu

Linda Harris

Associate Director
Office of Academic Programs
St. Jude Children's Research Hospital
linda.harris@stjude.org

Mark Harris

Quantitative Analyst
Institute for Children, Poverty,
and Homelessness
markha@gse.upenn.edu

Mark Hernandez

Professor
Civil Engineering
University of Colorado Boulder
mark.hernandez@colorado.edu

Sara Hernandez

Associate Dean for Inclusion
& Student Engagement
Graduate School
Cornell University
sh267@cornell.edu

Justene Hill

Postdoctoral Fellow
History
Princeton University
jghill@princeton.edu

Amber Hodges

Associate Professor
Psychology
Morgan State University
amber.hodges@morgan.edu

Alejandro Huezo

Coordinator
RISE Program
Brooklyn College CUNY
ahuezo@brooklyn.cuny.edu

Keisha John

Director of Diversity
Office of Graduate and
Postdoctoral Affairs
University of Virginia
keishajohn@virginia.edu

Amri Johnson

Head, Diversity & Inclusion
Education, Diversity & Inclusion
Novartis Institutes for BioMedical Research
amri.johnson@novartis.com

Ruth Kabeche

Graduate Student
Biochemistry
Dartmouth College
ruth.v.kabeche.gr@dartmouth.edu

Barbara Kahn

Program Coordinator
Leadership Alliance
Brown University
barbara_kahn@brown.edu

Colleen Kearns

Assoc. Director of Undergraduate
Research, Biological Sciences
Undergraduate Biology
Cornell University
cmk4@cornell.edu

Florence Kempner

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

Dexter Lee

Associate Professor
Physiology and Biophysics
Howard University
dllee@howard.edu

Eric Lee

Student Service Specialist
Office of Graduate Student Affairs
Johns Hopkins University
elee74@jhmi.edu

Patricia Lee-Robinson

Associate Provost
Administration
Chaminade University of Honolulu
plrobins@chaminade.edu

Purdum Lindblad

Head of Graduate Programs
Scholars' Lab
University of Virginia
jpl8e@virginia.edu

Neyda Lopez

Senior Assistant Director
Graduate School of Arts and Science
New York University
neyda.lopez@nyu.edu

Gwynneth Malin

Director
The Humanities Initiative
New York University
gcm207@nyu.edu

Olivia Mansion

Graduate Student + Project Assistant at
the Leadership Alliance
The Education Alliance
Brown University
olivia_mansion@brown.edu

Aliza Mansolino

Administrative Coordinator
Research Training Programs
University of Pennsylvania
amanso@mail.med.upenn.edu

William McDade

Deputy Provost
DACC
University of Chicago
wmcdade@bsd.uchicago.edu

Caryl McFarlane

Senior Program Officer
Woodrow Wilson National
Fellowship Foundation
mcfarlane@woodrow.org

Margie Mendoza

Program Coordinator
Tri-Institutional PhD Programs
Weill Cornell Medical College
mah2036@med.cornell.edu

Renita Miller

Program Coordinator/Director of Studies
Office of the Dean of the College
Princeton University
renitam@princeton.edu

Beth Murphy

Assistant Director
Office of Financial Aid Brown University
GS_Financial_Aid@Brown.edu

Darryl Murray

Dir. NIH Undergraduate
Scholarship Program
Office of Intramural Training and Education
National Institutes of Health
murrayda@mail.nih.gov

Clarissa Myrick-Harris

Associate Provost for Pedagogical
& Curricular Initiatives
Academic Affairs
Morehouse College
clarissa.myrick-harris@morehouse.edu

Michelle Nearon

Associate Dean
Graduate and Professional Schools
Yale University
michelle.nearon@yale.edu

Stephen Nelson

Professor
Educational Leadership
Brown University
stephen_j_nelson@brown.edu

Michael Nusbaum

Assoc Dean for Biomedical Graduate
Studies/Professor
BGS/Neuroscience
University of Pennsylvania
nusbaum@upenn.edu

Christine O'Brien

Program Manager, Fellowship Programs
Fellowship Programs
National Academies
cobrien@nas.edu

Joel Oppenheim

Professor Emeritus
Microbiology
New York University Sackler Institute
joel.oppenheim@nyumc.org

Benjamin Ortiz

Associate Professor
Biological Sciences
Hunter College
ortiz@genectr.hunter.cuny.edu

Stephanie Parsons

Assistant Director of Diversity and
Minority Affairs
Graduate School of Arts & Sciences
Harvard University
sparsons@fas.harvard.edu

Christopher Peete

Residential Services Coordinator
Residential Services
Youth Villages
cjpeete85@gmail.com

Lisa Piazza

Assistant Director
Office for Undergraduate Research
University of South Florida
lmpiazza@usf.edu

Kathleen Pickering

Executive Director
Tri-Institutional Research &
Training Programs
Weill Cornell Medical College
kap2013@med.cornell.edu

Dinko Pocanic

Associate Dean for Graduate Programs
College of Arts and Sciences/Physics
University of Virginia
pocanic@virginia.edu

Leslie Pond

Head, Postdoctoral Program
Education, Diversity & Inclusion
Novartis Institutes for BioMedical Research
leslie.pond@novartis.com

Chloe Poston

AAAS Science & Technology Policy Fellow
Division of Molecular and
Cellular Biosciences
American Association for the
Advancement of Science
chloepostonphd@gmail.com

David Rainbow

Postdoctoral Fellow
Harriman Institute
New York University
david.rainbow@nyu.edu

Peggy Ratliff

Professor
Humanities
Claflin University
pratliff@claflin.edu

Roosevelt Ratliff, Jr.

Professor/Assistant Vice President
For Academic Affairs
Academic Affairs
Claflin University
rratliff@claflin.edu

Maria Robertson

Manager
Office of Undergraduate Research
University of Miami
mrobertson@miami.edu

John Rose

Dean, Diversity and Compliance
Office of the President
Hunter College
john.rose@hunter.cuny.edu

Shawhin Roudbari

Visiting Assistant Professor
Environmental Design
University of Colorado Boulder
shawhin@colorado.edu

Vanessa Ryan

Associate Dean, Graduate School
Graduate School
Brown University
vanessa_ryan@brown.edu

Ruth Schemmer

Assistant Dean for Career Development
The Graduate School
Vanderbilt University
ruth.schemmer@vanderbilt.edu

Joel Schildbach

Professor and Vice Dean for
Undergraduate Education
Biology
Johns Hopkins University
joel@jhu.edu

Allen Schwartz

Program Administrator
Psychology
Brooklyn College CUNY
floral1@verizon.net

Nancy Schwartz

Professor/Dean
Biological Sciences
University of Chicago
n-schwartz@uchicago.edu

Jane Seibel

Dartmouth College
jane.b.seibel@dartmouth.edu

Melvin Simoyi

Assistant Professor: Biology,
Director: Title V Project
Biology Department
Heritage University
simoyi_m@heritage.edu

Bernard Singleton

Associate Professor
Biology
Dillard University
bsingleton@dillard.edu

Andrea Solomon

Vice Dean of GSAS
Academic Affairs
Columbia University
asolomon@columbia.edu

Laurel Southard

Director of Undergraduate Research
Office of the Provost
Cornell University
les3@cornell.edu

Cynthia Spence

Associate Professor
Sociology
Spelman College
cspence@spelman.edu

Brian Sullivan

MD-PhD Program Executive Director
Division of Biology and Biomedical
Sciences
Washington University in St. Louis
briansullivan@wustl.edu

Naoko Tanese

Associate Dean for Biomedical Sciences
Office of Science and Research
New York University Sackler Institute
tanesn01@med.nyu.edu

Sheila Thomas

Faculty, Division of Medical Sciences and
Asst Dean of Diversity, GSAS
Medicine/GSAS
Harvard University
stthomas@fas.harvard.edu

Tracie Thomas

Director
Office of Graduate Placement and
University Summer Programs
Xavier University of Louisiana
tlthomas@xula.edu

Rahmelle Thompson

Director, Hopps Scholars Program
Science and Math
Morehouse College
rahmelle.thompson@morehouse.edu

Micha Tomkiewicz

Professor
Physics
Brooklyn College CUNY
michatom@brooklyn.cuny.edu

Ciara Torres Vargas

Postdoctoral Research Scientist
Neuropsychopharmacology
Columbia University
cat2119@columbia.edu

Steven Townsend

Assistant Professor
Chemistry
Vanderbilt University
steven.d.townsend@vanderbilt.edu

Susanne Tranguich

Director, Academic Programs & Operations
Sackler Institute of Graduate
Biomedical Sciences
New York University Sackler Institute
susanne.tranguich@nyumc.org

Rodrigo Valles

Professor and Associate Program Director
Center for Translational and Basic Research
Hunter College
rvalles@hunter.cuny.edu

Anda Veverbrants

Senior Specialist, Cultural Diversity
& Inclusion
Education, Diversity & Inclusion
Novartis Institutes for BioMedical Research
anda.veverbrants@novartis.com

Angelino Viceisza

Assistant Professor
Economics
Spelman College
aviceisza@spelman.edu

Clara Weishahn

Administrative Assistant
The Leadership Alliance
Brown University
clara_weishahn@brown.edu

Christina Williams

Interdisciplinary Coordinator of the
IMSD program
Biomedical Research Education
and Training
Vanderbilt University
christina.k.williams@vanderbilt.edu

Megan Williams

Assistant Director of the Medical Scientist
Training Program
Medical Scientist Training Program
Vanderbilt University
megan.a.fettig@vanderbilt.edu

Quinton Williams

Professor and Chair
Physics and Astronomy
Howard University
quinton.williams@howard.edu

John Wilson

Dean
College of Arts and Sciences
Dillard University
jwilson@dillard.edu

Claire Wright

Assistant Professor
Natural Sciences & Mathematics
Chaminade University of Honolulu
claire.wright@chaminade.edu

Walter Zekanowski

Creative Consultant
WZ Design
walter@wz-design.com

Graduate Student Participants

Alejandro Arroyo
University of Pennsylvania
alejandro.arroyo7@gmail.com

Monika Avello
Massachusetts Institute of Technology
mavello@mit.edu

Jesus Ayala Figueroa
UPR-Humacao
jesus.ayala@upr.edu

Clifford Bridges
University of Colorado Boulder
clifford.bridges@colorado.edu

Bailey Brown
Columbia University
bab2194@columbia.edu

Aisha Burton
Indiana University-Bloomington
aisha.t.burton@gmail.com

Daniel Cabrera
Weill Cornell Medical College
dac9130@med.cornell.edu

Adrian Cadar
Vanderbilt University
adrian.g.cadar@vanderbilt.edu

Eboni Chambers
Brown University
eboni_chambers@brown.edu

Tamuka Chidyausiku
University of Washington
ttchidi@gmail.com

Cesar Colon-Montijo
Columbia University
cac2221@columbia.edu

Ashley Conoway
University of Alabama-Birmingham
acc46@uab.edu

Ashley Cureton
University of Chicago
aecureton@uchicago.edu

Gregory Davis
Harvard University
gdavis@g.harvard.edu

Justin Doromal
University of Virginia
jbd3fc@virginia.edu

Brittney Edmonds
Princeton University
bedmonds@princeton.edu

Norrell Edwards
University of Maryland, College Park
nedwards220@gmail.com

Lauren Eldridge
University of Chicago
leldridge@uchicago.edu

Karina Evora
Vanderbilt University
karina.evora@vanderbilt.edu

Margarita Fajardo
Princeton University
mfajardo@princeton.edu

Joshua Frenster
New York University Sackler Institute
joshua.frenster@nyumc.org

Rebecca Grunberg
Massachusetts Institute of Technology
rgrunberg@mit.edu

Matthew Harris
Duke University
mch47@duke.edu

Maria Jones
University of Missouri-Columbia
mariajones@mail.missouri.edu

Majida Kargbo
Brown University
majida_kargbo@brown.edu

Marilyn Le
Brown University
marilyn_le@brown.edu

Key Jo Lee
Yale University
keyjo.lee@yale.edu

Jamel Love
Rutgers University
jamel.love@rutgers.edu

Claudia Lovell
New York University Sackler Institute
claudiadlovell@gmail.com

Isabel Martinez
Yale University
isabel.martinez@yale.edu

Vladimir Medenica
Princeton University
medenica@princeton.edu

Kevin Muite
University of Chicago
Kmuite@gmail.com

Alexandra Navarro
Massachusetts Institute of Technology
navarroa@mit.edu

Antoinette Nelson
Rutgers University
antgnelson@gmail.com

Javier Padilla
Princeton University
javierp@princeton.edu

Tiana Reid
Columbia University
tar2130@columbia.edu

Camille Reynolds
University of Chicago
creynolds3@uchicago.edu

Juan Rivera Correa
New York University Sackler Institute
juan.rivera-correa@med.nyu.edu

Viviana Rivera-Burgos
Columbia University
vr2341@columbia.edu

Jose Rosales Chavez
Arizona State University
jrosales88@hotmail.com

Santas Rosario
University of Miami
srosario@med.miami.edu

Tanya Sanabria
UC Irvine
tsanabri@uci.edu

Gabriella Sanguinetti
Columbia University
gps2118@columbia.edu

Emilce Santana
Princeton University
emilceas@princeton.edu

Jessica Santos-Parker
University of Colorado Boulder
jessica.santos@colorado.edu

Keli Santos-Parker
University of Colorado Boulder
keli.parker@colorado.edu

Ashley Schloss
Yale University
ashley.schloss@yale.edu

Davonda Smith
University of Virginia
dmb7n@virginia.edu

Jose Marc Techner
Northwestern University
jm.techner@fsm.northwestern.edu

Phillip Thomas
New York University Sackler Institute
phillip.thomas@nyumc.org

Rachel Vaughn-Coaxum
Harvard University
rachelvaughn@fas.harvard.edu

Devon Wade
Columbia University
dtw2114@columbia.edu

Novartis Institutes for BioMedical Research Post Bac Students

Johnny Castillo
Novartis Institutes for BioMedical Research
johnny.castillo@novartis.com

Christiann Hill
Novartis Institutes for BioMedical Research
christiann.hill@novartis.com

Ceran Messam
Novartis Institutes for BioMedical Research
ceran.messam@novartis.com

Undergraduate Participants

Jonuelle Acosta
Harvard University, Division of
Medical Sciences
Purdue University
acosta7@purdue.edu

Philip Adejumo
University of Chicago
University of Maryland, Baltimore County
padejumo@umbc.edu

Ruka Aderogba
Brown University
Hunter College
ruka.aderogba@gmail.com

Osasumwen Aimiwu
Howard University
UC Irvine
oaimiwu@uci.edu

Gabrielle Akcelik
University of Chicago
Brooklyn College CUNY
gaby.akcelik@gmail.com

Kemi Akinnola
Harvard University, Division of
Medical Sciences
University of Maryland, Baltimore County
oakinn1@umbc.edu

Jasmine Alexander-Brookings
University of Virginia
University of Connecticut
jasmine.alexander-brookings@uconn.edu

Adriana Alire
University of Miami
New Mexico State University
alire12@nmsu.edu

Jackson Allen
Weill Cornell Medical College
Harvard University
jacksonallen@college.harvard.edu

Ouma Amadou
New York University
Iowa State University
ozamadou@iastate.edu

Roy Anderson
University of Colorado Boulder
University of Maryland, Baltimore County
randers2@umbc.edu

Felipe Anguiano
University of Chicago
Heritage University
anguianof@heritage.edu

Chiamaka Ani
New York University
University of Georgia
cani3@uga.edu

Christopher Animashaun
Dartmouth College
University of Maryland, Baltimore County
canim1@umbc.edu

Kiana Annunziata
University of Miami
Chaminade University of Honolulu
kiana_emilia@yahoo.com

Diana Aponte Colon

Harvard University, Division of
Medical Sciences
UPR-Rio Piedras
diana.aponte@upr.edu

Denise Aquino

University of Virginia School of Medicine
Pacific University
aqui3641@pacificu.edu

Russell Arellanes

University of Virginia School of Medicine
Rogers State University
soy_arellanes@yahoo.com

Diana Arroyo

University of Colorado Boulder
Arizona State University
dianasarroyo@gmail.com

Rebecca Arteaga

Yale University
Columbia University
raa2178@columbia.edu

Sierra Atwater

University of Colorado Boulder
University of North Carolina Chapel Hill
satwater@live.unc.edu

Valeria Aucapina

Yale University
City College of New York
vaucapina94@gmail.com

Oluwatomiwa Awobayiku

University of Chicago
Indiana University-Bloomington
oluawoba@umail.iu.edu

Marcos Ayala Rivera

University of Pennsylvania
UPR-Rio Piedras
marcos.ayala@live.com

Nicolas Balbi

New York University Sackler Institute
Rutgers University
nicolas.balbi@yahoo.com

Andrea Baltazar

Washington University in St. Louis
University of Texas at El Paso
abbaltazar@miners.utep.edu

Gabriela Barrios

Columbia University
Rice University
gpb3@rice.edu

Tim Barry

New York University Sackler Institute
University of North Carolina Chapel Hill
tbarry@live.unc.edu

Hannah Basta

University of Pennsylvania Arts & Sciences
Georgia State University
hbasta1@student.gsu.edu

Victor Bayona

Weill Cornell Medical College
Kettering College of Medical Arts
victor.bayona@outlook.com

Pineal Bekere

New York University Sackler Institute
Millersville University
pibekere@millersville.edu

Ezekiel Bello

University of Pennsylvania
Florida A&M University
ezeziel1.bello@fam.u.edu

Clair Beltran

Columbia University
Middlebury College
clair.beltran@gmail.com

Itza Beltran

University of Colorado Boulder
University of Central Florida
itzamaria94@knights.ucf.edu

Amanda Bennett

Harvard University
University of Alabama-Tuscaloosa
abennett@crimson.ua.edu

Kiara Berrios

University of Pennsylvania
UPR-Rio Piedras
k.berrios1@hotmail.com

Carla Bezjian

University of Pennsylvania
CSU Los Angeles
cbezjia@calstatela.edu

Noah Bloch

University of Pennsylvania
Haverford College
nbloch@haverford.edu

Jeffrey Boakye

Harvard University, Division of
Medical Sciences
Philander Smith College
jephrie384@yahoo.com

Brennan Boyle

Johns Hopkins University
Boston College
boylebh@bc.edu

Ann Brasacchio

Yale University
Wheaton College
ann.m.brasacchio@gmail.com

Evan Brooks

Tufts University Graduate
BioMedical Sciences
North Carolina State University
ecbrooks@ncsu.edu

Alaysia Brown

University of Virginia
University of San Diego
alaysiabrown@sandiego.edu

Rachel Brown

University of Pennsylvania
Morehead State University
biomedcat@gmail.com

Patrick Bruck

Harvard University, Division of
Medical Sciences
Creighton University
patrickbruck@creighton.edu

Nikaela Bryan

University of Pennsylvania
University of Maryland, Baltimore County
brynik1@umbc.edu

David Bunn

Weill Cornell Medical College
SUNY at Albany
dbunn@albany.edu

Lindsey Burgess

Brown University
Spelman College
lindseyburgess94@yahoo.com

Amirah Burton

University of Miami
North Carolina A&T State University
amirah.burton@ymail.com

Stephany Caicedo

Yale University
Rutgers University
smc383@scarletmail.rutgers.edu

Ambar Cajigas Hernandez

University of Pennsylvania
UPR-Rio Piedras
ambar.cajigas12@gmail.com

Robert Calco

Brown University
Kalamazoo College
k13rc01@kzoo.edu

Giovanni Calixte

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

Evelyn Campbell

University of Pennsylvania
Rider University
evelyncampbell@yahoo.com

Gabriela Canales

New York University Sackler Institute
University of Maryland, Baltimore County
gcan1@umbc.edu

Stephanie Capsuto

Weill Cornell Medical College
Smith College
scapsuto@smith.edu

Edgar Carlo

Brown University
UPR-Mayaguez
edgar.carlo@upr.edu

Olivia Carpenter

Brown University
University of New Mexico
ocarpent@unm.edu

Camilla Castro

New York University Sackler Institute
Florida Atlantic University
ccastr10@fau.edu

Kurt Castro

Johns Hopkins University
George Washington University
castro.kurt10@gmail.com

Lauren Caton

Johns Hopkins University
University of Texas at Austin
catonlauren@yahoo.com

Blake Chancellor

Harvard University, Division of
Medical Sciences
University of Tulsa
blc073@utulsa.edu

Ashley Chontos

Stanford University
SUNY at Albany
ashleychontos@gmail.com

Lauren Christopher

Dartmouth College
Hunter College
lchri@hunter.cuny.edu

Erlyana Clarke

Brown University
Brooklyn College CUNY
clarke.erlyana@yahoo.com

Alexis Clavijo

University of Miami
Rutgers University
asc164@rutgers.edu

Genesis Colon

Tufts University
UPR-Rio Piedras
genesiscoln@gmail.com

Manju Connolly

University of Virginia
University of Minnesota-Twin Cities
conno186@umn.edu

Courtney Cooper

Stanford University
Hampton University
kelsey28277@yahoo.com

Luis Cordero

Heritage University
Heritage University
corderol@heritage.edu

Lucila Cornejo

Heritage University
Heritage University
cornejol1@heritage.edu

Luis Cortina

University of Pennsylvania
Johns Hopkins University
lcortin1@jhu.edu

Juliana Cruz Martínez

University of Pennsylvania Arts & Sciences
UPR-Rio Piedras
julianaicm0107@gmail.com

Angie Cuervo

Brooklyn College CUNY
Brooklyn College CUNY
acuervo308@gmail.com

Shemiah Curry

University of Chicago
Bennett College
shemiah.curry@bennett.edu

Adriana Cushnie

Brooklyn College CUNY
Brooklyn College CUNY
adrianacushnie@yahoo.com

Kiana Dash

Weill Cornell Medical College
Hampton University
dash.kiana@gmail.com

Kelvin De Leon

Brown University
Hunter College
kelvin.deleon71@myhunter.cuny.edu

Iliana De Santis

Princeton University
Emory University
isantis@emory.edu

Ana Defendini

University of Miami
UPR-Rio Piedras
ana.defendini@upr.edu

Beverlin Del Rosario

Hunter College
Xavier University of Louisiana
beverlindelrosario@gmail.com

Lester Dela Cruz

University of Colorado Boulder
UC Santa Barbara
lgdelacruz@umail.ucsb.edu

Miranda Delgado

University of Miami
DePaul University
miranda.mia.delgado@gmail.com

Nazia Denese

University of Virginia
Hunter College
naziadenese@gmail.com

Tatyana Desire-Brisard

Brooklyn College CUNY
Brooklyn College CUNY
tdbrisard@gmail.com

Alissa DiMasi

University of Colorado Boulder
Regis College
adimasi@regis.edu

Cesar Dominguez

Brown University
Williams College
cfd1@williams.edu

Patrick Donegan

Tufts University Graduate
BioMedical Sciences
University of Notre Dame
pdonegan@nd.edu

Julie Dorland

New York University
University of Texas at Austin
juliedorland@utexas.edu

Amanda Dortch

Brown University
Tougaloo College
adortch613@yahoo.com

Luis Duarte

University of Colorado Boulder
New Mexico State University
lcduarte@nmsu.edu

Tyler Dunbar

Brown University
University of Wisconsin Madison
tdunbar@wisc.edu

Comfort Effi

University of Pennsylvania
Cheyney University of Pennsylvania
efficomfort@yahoo.com

Emmanuella Egbonim

New York University Sackler Institute
University of Texas at Austin
nuella_egbonim@utexas.edu

Linda Egboziuba

Weill Cornell Graduate School
University of Georgia
chinelo@uga.edu

Hailey Egido-Betancourt

University of Colorado Boulder
University of West Florida
hxe1@students.uwf.edu

Brandon Enriquez

Harvard University
University of Maryland, Baltimore County
eu02615@umbc.edu

Melissa Espinosa

Columbia University
Saint Edward's University
mespino6@stedwards.edu

Aja Evans

Brown University
New York University
aqe200@nyu.edu

Taylor Evans

Princeton University
UC Berkeley
tgevans@berkeley.edu

Kelcee Everette

Johns Hopkins University
Harvard University
keverette@college.harvard.edu

Matthew Fairchild

Princeton University
Rutgers University
mff55@scarletmail.rutgers.edu

Porfirio Fernandez

University of Miami
John Jay College of Criminal Justice CUNY
porfirio.fernandez@jjay.cuny.edu

Aerielle Ferreira

Yale University
Chaminade University of Honolulu
aerielle.ferreira@student.chaminade.edu

Keishla Figueroa Colón

University of Virginia School of Medicine
UPR-Cayey
keishla.figueroa7@upr.edu

Christine Fisher

Brown University
College of Staten Island CUNY
christine.fisher@cix.csi.cuny.edu

Gail Fletcher

University of Pennsylvania Arts & Sciences
Cornell University
gaf55@cornell.edu

Cassandra Flores-Montano

New York University
Wellesley College
cfloresm@wellesley.edu

Kelly Fogelson

New York University Sackler Institute
University of Minnesota-Twin Cities
fogel074@umn.edu

Celia Ford

University of Chicago
Brown University
celia_ford@brown.edu

Zanah Francis

Cornell University
Cornell University
zkf2@cornell.edu

Philip Frasse

New York University Sackler Institute
Rice University
philip.frasse@gmail.com

Jenna Freund

Hunter College
Rowan University
freund27@students.rowan.edu

Kelsey Gallant

Harvard University, Division of
Medical Sciences
Spelman College
kgallant@scmail.spelman.edu

Hector Galvez

University of Chicago
CSU San Marcos
hgalvez8337@gmail.com

Prencia Gant

Weill Cornell Graduate School
Grambling State University
prenciagant@yahoo.com

Eyram Ganu

Brooklyn College CUNY
Brooklyn College CUNY
eyram.ganu@yahoo.com

Sandry Garcia

Brooklyn College CUNY
Brooklyn College CUNY
sandry.garcia11@gmail.com

Karina García

Vazquez University of South Florida
UPR-Rio Piedras
karina.garcia5@upr.edu

Rolando Garza

University of Pennsylvania
University of Texas at San Antonio
rolando_garza25@yahoo.com

Sofia Gasperino

University of Miami
Virginia Polytechnic Institute and
State University
sofia.gasperino@gmail.com

Yohana Ghebrechristos

Johns Hopkins University
Cornell University
yeg2@cornell.edu

Isaiah Gibson
Columbia University
Dickinson College
gibsoni@dickinson.edu

Khari Gilmore
Dartmouth College
Xavier University of Louisiana
kgilmor1@xula.edu

Nayib Gloria
University of Miami
Duke University
nayib.gloria@duke.edu

Jeremy Glover
Columbia University
Bates College
jg3653@columbia.edu

Wesley Godfrey
Johns Hopkins University
University of Texas at Austin
wesleygodfrey@utexas.edu

Katherine Gonzalez
New York University Sackler Institute
Florida Atlantic University
kgonzalez2412@outlook.com

Wisberty Gordian Velez
University of Pennsylvania
UPR-Mayaguez
wisberty.gordian@upr.edu

Hamilton Green
Vanderbilt University
Dillard University
hamiltongreen66@yahoo.com

Ahmad Greene-Hayes
Columbia University
Williams College
atg1@williams.edu

Patrick Griffin
New York University Sackler Institute
University of Georgia
pgriff10@uga.edu

Anthony Guerrero
University of Miami
Connecticut College
aguerrer@conncoll.edu

Andrea Gutierrez Arango
Dartmouth College
UMass Boston
andrea.gutierrez001@umb.edu

Andrea Guzman
University of Pennsylvania
UPR-Rio Piedras
andrea.guzman@upr.edu

Sara Haile
University of Chicago
UC Santa Cruz
sthaile@ucsc.edu

Amelia Hallworth
Harvard University, Division of
Medical Sciences
University of Maryland, Baltimore County
ahallwo1@umbc.edu

Caitlin Hansen
Yale University
Southern Connecticut State University
hansenc8@owls.southernct.edu

Andrew Hart
University of Pennsylvania
Marshall University
hart78@marshall.edu

Brandon Hart
Weill Cornell Medical College
Southern Nazarene University
brhart@mail.snu.edu

Malik Hayes
University of Chicago
Claflin University
hayesmalik96@gmail.com

Julia Heinze
New York University Sackler Institute
Jacobs University Bremen
jule.heinze@gmail.com

Jessica Heppler
Harvard University
SUNY College at Geneseo
heppler.jessica@gmail.com

Mateo Hernandez
University of Colorado Boulder
University of South Florida
mateoh115@gmail.com

Andrea Hernández-Vega
Hunter College
UPR-Ponce
andrea.hernandez4@upr.edu

Tatiana Hill
Harvard University
Amherst College
tawnyhill20@gmail.com

Erin Hollander
New York University Sackler Institute
University of Georgia
erinhollander@gmail.com

Tabatha Holley
Brown University
Spelman College
tholley@scmail.spelman.edu

JoVaun Holmes
University of Chicago
Brown University
jovaunh@uchicago.edu

Kerwin Holmes Jr.
University of Virginia
Morehouse College
kerwin.holmes.jr@gmail.com

Aaron Hudson
University of Pennsylvania
University of Illinois at Urbana-Champaign
awhudson2@illinois.edu

Jason Hughes
Yale University
University of Maryland, Baltimore County
h66@umbc.edu

Felipe Huicochea
Stanford University
UCLA
felipehuico@g.ucla.edu

Errol Hunte Jr
Johns Hopkins University
Brooklyn College CUNY
ehunte23@gmail.com

Joanna Hurtado
Weill Cornell Graduate School
CSU Northridge
joanna.hurtado.790@my.csun.edu

Oscar Hurtado
New York University
Williams College
ooh1@williams.edu

Shermaine Hutchins
Yale University
Bowling Green State University
shutchins@live.com

Chibuokem Ikwuazom
Columbia University
SUNY at Albany
ci2209@columbia.edu

Geena Ildefonso

Vanderbilt University
University of Central Florida
geena.ildefonso@ucf.edu

Arielle Irizarry

University of Chicago
Hunter College
arielle.irizarry73@myhunter.cuny.edu

Mauricio Isaac

Brown University
Santa Barbara City College
maisaac1@pipeline.sbccc.edu

Ehiremen Iyoha

New York University Sackler Institute
University of Georgia
ehiremen@uga.edu

Jihane Jadi

Yale University
University of North Carolina Chapel Hill
jadi@live.unc.edu

Mahmoud Jalloh

Harvard University
Northeastern University
mahmoudtimbojalloh@gmail.com

Couger Jaramillo

New York University Sackler Institute
Harvard University
cjimenezjaramillo@college.harvard.edu

Robyn Jasper

Harvard University, Division of
Medical Sciences
University of Maryland, Baltimore County
rjasper1@umbc.edu

August Jenkins

Washington University in St. Louis
Michigan State University
augustjenki@gmail.com

Sherrall Jenkins

Brown University
Tougaloo College
sherralljenkins@gmail.com

Virnaliz Jimenez

University of Virginia
University of North Carolina Chapel Hill
virnalizj@gmail.com

Tiarra Joell

Johns Hopkins University
Claflin University
tiarrajoell@gmail.com

Malikia Johnson

University of Virginia
Howard University
malikia_johnson@yahoo.com

Neco Johnson

Washington University in St. Louis
San Diego State University
necoxjohnson@gmail.com

Ayanna Jones

University of Chicago
Clark Atlanta University
jones.jayanna@gmail.com

Alana Jordon

Brooklyn College CUNY
Brooklyn College CUNY
jordonalana@gmail.com

Shirley Jusino

Weill Cornell Graduate School
UPR-Ponce
shirley.jusino@upr.edu

Stephanie Kabeche

Dartmouth College
University of Miami
s.kabeche@umiami.edu

Jasmine Kaur

Hunter College
University of Indianapolis
jasmine.kaur@aol.com

Hebron Kelecha

Yale University
University of Kansas
hkelecha@ku.edu

Sarah Keltz

New York University
Harvard University
skeltz@college.harvard.edu

Assama Ketegou

Howard University
New York University
ak4000@nyu.edu

Aleena Khan

Columbia University
Simmons College
ak3842@columbia.edu

So Min (Lori) Kim

Harvard University, Division of
Medical Sciences
Northwestern University
sokim2016@u.northwestern.edu

Rody Kingston

Vanderbilt University
Morehouse College
rodykingston@yahoo.com

Jasmine Kirby

Harvard University
University of Illinois at Urbana-Champaign
jskirby2@illinois.edu

Tiara Lacey

Yale University
Spelman College
tlacey1@scmail.spelman.edu

Yauheniya Lahoda

Tufts University
CSU Northridge
yauheniya.lahoda.428@my.csun.edu

Tianjian Lai

University of Pennsylvania Arts & Sciences
University of Chicago
tianjian@uchicago.edu

Paige Leary

New York University Sackler Institute
New College of Florida
paige.leary12@ncf.edu

Alicia Lee

Johns Hopkins University
Rutgers University
a.lee.8104@gmail.com

Brittanie Lewis

Columbia University
Amherst College
blewis17@amherst.edu

Lesia Liao

Hunter College
Swarthmore College
lliao1@swarthmore.edu

Emily Linton

Vanderbilt University
Campbell University
ealinton1002@email.campbell.edu

Susie Lira-Gonzalez

University of Colorado Boulder
Gonzaga University
slira-gonzalez@zagmail.gonzaga.edu

Christopher Lites

Hunter College
Columbia University
chrisjmlites@gmail.com

Anthony Longoria

Hunter College
Saint Edward's University
alongor6@stedwards.edu

Lindsey Lopes

University of Pennsylvania
Haverford College
lopes.lindsey@yahoo.com

Katherine Lopez

Weill Cornell Graduate School
Hunter College
katherine.lopez534@myhunter.cuny.edu

Mike Lopez

University of Colorado Boulder
UC San Diego
mike8lopez6@gmail.com

Paola Lopez

Harvard University, Division of
Medical Sciences
University of Arizona
lopez29@email.arizona.edu

Beverly Lopez-Cancel

University of Virginia
UPR-Rio Piedras
blopezcancel@gmail.com

Chloe Lopez-Lee

Weill Cornell Graduate School
Mount Holyoke College
lopez26c@mtholyoke.edu

Raymond Lopez-Rios

University of Colorado Boulder
University of Rochester
rlopezri@u.rochester.edu

Kimberly Rose Madhwani

University of Miami
CSU Northridge
kimberlyrose.madhwani.220@my.csun.edu

Ana Maldonado

University of Maryland, Baltimore County
Princeton University
aim@princeton.edu

Syeda Malliha

Columbia University
Amherst College
smalliha17@amherst.edu

Elena Malloy

University of Chicago
Yale University
elena.malloy@yale.edu

Tomaz Manzoni

University of Pennsylvania
St. Olaf College
manzoni@stolaf.edu

Benny Marin-Acevedo

University of Colorado Boulder
UPR-Rio Piedras
bennyfaustinni@gmail.com

Cynthia Marrero-Ramos

New York University
DePaul University
cynthiamramos05@gmail.com

Amra Marshall

University of Chicago
Bennett College
amramarshall@uchicago.edu

Victor Martinez

Hunter College
UPR-Mayaguez
victor.martinez2@upr.edu

Matheus Martins

Harvard University, Division of
Medical Sciences
University of Texas at Austin
matmartins2012@utexas.edu

Sarah Master

Hunter College
Brown University
sarah_master@brown.edu

Mahmoud Matar Abed

University of Chicago
UPR-Humacao
mahmoud.abed@upr.edu

Stephanie Matos

University of Colorado Boulder
University of Central Florida
smatos2006@knights.ucf.edu

Elizabeth May

Harvard University
Rochester Institute of Technology
ejm3689@rit.edu

Monique McClain

University of Colorado Boulder
UC San Diego
msmclai@ucsd.edu

Kiara McDaniel

New York University Sackler Institute
North Carolina A&T State University
klmcdani@aggies.ncat.edu

Sierra McDonald

Novartis Institutes for BioMedical Research
Williams College
s_mcdonald94@yahoo.com

Nasib McIntosh

University of Pennsylvania Arts & Sciences
New College of Florida
nasib.mcintosh12@ncf.edu

Grace McKenzie-Smith

University of Pennsylvania
Bowdoin College
gmckenzi@bowdoin.edu

Christopher Mendoza

New York University
Macalester College
cmendoza@macalester.edu

Michael Menefee

Harvard University
Southern Oregon University
menefeem@sou.edu

Jamaarl Mercado Rivera

Harvard University, Division of
Medical Sciences
UPR-Aguadilla
jamaarl.mercado@upr.edu

Arnaldo Mercado-Perez

Weill Cornell Graduate School
Johns Hopkins University
amercado@jhu.edu

Ceran Messam

Novartis Institutes for BioMedical Research
ceran.messam@novartis.com

Ashley Metelus

University of Virginia
University of South Florida
ab.metus@live.com

Grace Milburn

New York University Sackler Institute
Saint Louis University
gmilburn@slu.edu

Claudia Mimoso

Cornell University
Cornell University
cam465@cornell.edu

Jared Mitchell

Princeton University
Morehouse College
jared.mitchell@morehouse.edu

Victoria Mogollon Montagne

Columbia University
University of Denver
vickymogollon@gmail.com

David Molina

Brown University
University of Rhode Island
david_molina@my.uri.edu

Salvador Montes

University of Colorado Boulder
CSU Stanislaus
smontes3@csustan.edu

Anna Morales

University of Colorado Boulder
University of Texas at Dallas
annamoraes@about.me

Naomi Morales-Medina

Harvard University, Division of
Medical Sciences
UPR-Rio Piedras
naomi.morales@upr.edu

Ari Morgenstern

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

Ayeshia Morris

University of South Florida
Rider University
ayeshia@mail.usf.edu

Cheswayo Mphanza

Columbia University
Middlebury College
cmphanza@gmail.com

Gabriel Mpilla

Harvard University
Delaware State University
gbmpilla13@students.desu.edu

Salma Mumuni

Howard University
Western Michigan University
salma.p.mumuni@wmich.edu

Jessica Murdzek

Yale University
University of Connecticut
jessica.murdzek@uconn.edu

Saparja Nag

Yale University
Vassar College
sanag@vassar.edu

Maria Navarro

University of Pennsylvania
University of Miami
m.navarro10@umiami.edu

Natasha Navejar

University of Chicago
Tulane University
nnavejar@tulane.edu

Libere Ndacayisaba

Novartis Institutes for BioMedical Research
Syracuse University
lndacayi@syr.edu

Armand Ngassam

University of Colorado Boulder
University of Maryland, College Park
armand_sandjeu@yahoo.fr

Ashley Ngo

Harvard University
Williams College
ashleynngo42@gmail.com

Binh Nguyen

Weill Cornell Medical College
Lehman College CUNY
mashimaro0387@yahoo.com

Catherine Njaaga

Cornell University
Cornell University
catherine.njaaga@aol.com

Logan Northcutt

Vanderbilt University
Morehouse College
northcuttlogan@gmail.com

Ron Nwumeh

University of Colorado Boulder
Washington University in St. Louis
ron.nwumeh@wustl.edu

Juliana Nzongo

University of Pennsylvania
San Francisco State University
juliananzongo@gmail.com

Prisca Obi

Weill Cornell Medical College
Harvard University
pobi@college.harvard.edu

Trini Ochoa

University of Pennsylvania
University of Texas at El Paso
taochoa@miners.utep.edu

Victoria Ochoa

Stanford University
Saint Edward's University
vochoa@stedwards.edu

Nnaemeka Ofodire

Princeton University
UC Berkeley
nofodire@princeton.edu

Adaeze Okoli

Brown University
Ohio State University
okoli.2@osu.edu

Mahogany Oldham

Brown University
Malone University
mroldham1@malone.edu

Chimdiya Onwukwe

University of Chicago
University of Maryland, Baltimore County
chimdiy1@umbc.edu

Michael Onyszcak

Yale University
Iowa State University
mikeonys@iastate.edu

Martha Ordonez

Harvard University, Division of
Medical Sciences
Hunter College
martha.ordonez79@myhunter.cuny.edu

Alberto Ortiz

Yale University
Central Connecticut State University
alberto.ortiz@my.ccsu.edu

Jesus Oyola

Washington University in St. Louis
Washington University in St. Louis
jesus.oyola@upr.edu

Jeremy Pagan

Harvard University
DePaul University
paganjeremy4@gmail.com

Andria Palmer

University of Colorado Boulder
University of West Florida
ajp10@students.uwf.edu

Thibaut Pardo

University of Pennsylvania
UPR-Rio Piedras
thi.pg@hotmail.com

Daymond Parrilla

Johns Hopkins University
University of South Carolina
parrild@email.usca.edu

Kajal Patel

Tufts University Graduate
BioMedical Sciences
Clemson University
kajalp@g.clemson.edu

Taylor Patrick

Dartmouth College
University of Maryland, Baltimore County
pattay1@umbc.edu

Elizabeth Paul

Tufts University
University of Maryland, Baltimore County
epaul1@umbc.edu

Andrea Penman-Lomeli

Columbia University
Middlebury College
apenmanlomeli@middlebury.edu

Swathi Penumutthu

Brown University
University of Maryland, Baltimore County
swath1@umbc.edu

Daniel Perez

University of Pennsylvania
University of Florida
drperez@ufl.edu

Jonatan Perez

Stanford University
Brown University
jonatan_perez@brown.edu

Ricardo Perez Dulzaides

University of Pennsylvania
Florida International University
rpere312@fiu.edu

Christopher Persaud

Harvard University
Temple University
christopher.persaud@temple.edu

Miranda Petty

Harvard University
CSU Fullerton
mlpetty@csu.fullerton.edu

Michael Pineda

Weill Cornell Medical College
Arizona State University
pineda.michaela@gmail.com

Kayla Pinson

University of Virginia
Virginia State University
pinson.kayla@gmail.com

Rebecca Plessel

New York University Sackler Institute
Pennsylvania State University
rxp5172@psu.edu

Kayla Prater

Johns Hopkins University
University of Findlay
praterk@findlay.edu

Mariyah Pressley

Yale University
North Carolina A&T State University
mpressle@aggies.ncat.edu

Amanda Ramdular

Weill Cornell Graduate School
Hunter College
amanda.ramdular@gmail.com

Blanca Ramirez

Princeton University
CSU Fullerton
ramirez_blanca@csu.fullerton.edu

Tara Ramirez

Columbia University
UPR-Rio Piedras
tarasofia.ramirez@yahoo.com

Tania Ramos Santiago

University of Pennsylvania
UPR-Rio Piedras
tania.ramos1@upr.edu

Keyera Randolph

Tufts University Graduate
BioMedical Sciences
Saint Mary's University
krandolph@mail.stmarytx.edu

Josean Reyes

University of Chicago
UPR-Rio Piedras
josean.reyesrivera@gmail.com

Gerardo Reyes Chavez

Brown University
LaGuardia Community College CUNY
gerar.lreyes@gmail.com

Sophia Reyes-Hadsall

Novartis Institutes for BioMedical Research
Massachusetts Institute
of Technology
shadsall@mit.edu

Joel Rhone

University of Virginia
Howard University
rhonejoel@gmail.com

Remington Rimple

Tufts University
CSU San Marcos
rimpl001@cougars.csusm.edu

Laura Ritenour

University of Pennsylvania
Messiah College
ritenourlaura@gmail.com

Osvaldo Rivera

University of Pennsylvania
Universidad Metropolitana
osvaldorivera.g@gmail.com

Mario Rodriguez

University of Maryland, Baltimore County
University of Miami
mario-rdez@hotmail.com

Krystal Roggeron

University of Virginia School of Medicine
Hampton University
krystal.roggeron@my.hamptonu.edu

Bianca Romo

Johns Hopkins University
Saint Mary's University
bromo1@mail.stmarytx.edu

Ariel Rosario

Yale University
York College CUNY
arielrosario19@gmail.com

Debanjan Roychoudhury

Columbia University
Middlebury College
droychoudhury@middlebury.edu

Amorette Sanchez-Valdenegro

University of Colorado Boulder
Regis College
asanchezvaldene@regis.edu

Madelene Santizo

Columbia University
Bates College
msantizo@bates.edu

Ololade Sanusi

New York University Sackler Institute
Rutgers University
ololade.sanusi@rutgers.edu

Paul Schwein

Novartis Institutes for BioMedical Research
Massachusetts Institute
of Technology
pschwein@mit.edu

Adrienne Scott

Princeton University
Brooklyn College CUNY
adrienne-scott@live.com

Alina Scott

Harvard University
Southern Nazarene University
alscott@mail.snu.edu

Courtney Scott

University of Colorado Boulder
University of Colorado Boulder
courtneynicolescott@gmail.com

Julian Segert

University of Pennsylvania
Swarthmore College
jsegert1@swarthmore.edu

Jiwon Seo

Harvard University
John Jay College of Criminal Justice CUNY
jiwonseo93@gmail.com

Jaqueline Serrano

Weill Cornell Medical College
Williams College
jaqueline.serrano@williams.edu

Jean Serrano

Harvard University, Division of
Medical Sciences
UPR-Mayaguez
jean.serrano1@upr.edu

Sarah Seto

University of Colorado Boulder
Johns Hopkins University
sseto1@jhu.edu

Rahul Sharma

New York University Sackler Institute
Johns Hopkins University
rsharm21@jhu.edu

Lilybeth Shields

University of Virginia
UPR-Humacao
shieldslilybeth@gmail.com

Abigail Shilvock

Weill Cornell Medical College
Cornell University
ars374@cornell.edu

Michaela Siver

Johns Hopkins University
Salve Regina University
michaela.siver@salve.edu

Akinola Sogunro

Yale University
Johns Hopkins University
akinsog@hotmail.com

Isaiah Speight

Vanderbilt University
Norfolk State University
i.speight@spartans.nsu.edu

Ashley St. John

Tufts University Graduate
BioMedical Sciences
Lafayette College
ashley.t.stjohn@gmail.com

Phillip Stephens

Harvard University, Division of
Medical Sciences
Morehouse College
phillip.c.stephens@gmail.com

Tamrin Stewart

University of Chicago
UC Berkeley
tamrin.stewart@gmail.com

Cesar Suarez

University of Chicago
University of Maryland, Baltimore County
csuarez1@uchicago.edu

Cassandra Sunga

Harvard University
Boston University
csunga@bu.edu

Canessa Swanson

University of Colorado Boulder
Jackson State University
swan.brown@hotmail.com

Huong Tang

Weill Cornell Graduate School
UMass Boston
huong.tang001@umb.edu

Kelly Tellez

Weill Cornell Medical College
Williams College
kt2@williams.edu

Monica Thapaliya

Brown University
Claflin University
mthapaliya@claflin.edu

Chrystal Thomas

University of Pennsylvania
Carnegie Mellon University
chrystal.thomas@gatesscholars.com

Andrew Thompson

New York University
Colgate University
awthompson@colgate.edu

Jamal Thorne

Tufts University
Morehouse College
jamal.thorne@gmail.com

Jannel Tillman

Brooklyn College CUNY
Brooklyn College CUNY
tillman.jannel@gmail.com

Daniel Tirado

University of Colorado Boulder
University of Miami
d.tirado@umiami.edu

Paulina Toro Isaza

Princeton University
Hunter College
pautoroisaza@gmail.com

Priscilla Torres

Brown University
Saint Edward's University
ptorres3@stedwards.edu

Jasmine Towns

Yale University
North Carolina A&T State University
jetowns@aggies.ncat.edu

Thuy Tran

Stanford University
Sewanee: The University of the South
trantt0@sewanee.edu

Sam Trejo

Princeton University
University of Texas at Austin
sam.trejo@utexas.edu

Julie Trolle

New York University Sackler Institute
Jacobs University Bremen
trolle.julie@gmail.com

Rachael Turner

Hunter College
SUNY Binghamton
rtturner1@binghamton.edu

Rasaan Turner

Brown University
Tougaloo College
rasaan_turner@gmail.com

Kahealani Uehara

Tufts University Graduate
BioMedical Sciences
Chaminade University of Honolulu
kahealani.uehara@gmail.com

Jonathan Ueki

Washington University in St. Louis
Harvey Mudd College
jueki@hmc.edu

Erik Ugalde

Stanford University
San Jose State University
erik.ugalde@sjsu.edu

Jennifer Vargas

Dartmouth College
University of Miami
j.vargas6@umiami.edu

Hector Vargas-Acevedo

New York University Sackler Institute
UPR-Mayaguez
hector.vargas3@upr.edu

Marilyn Vasquez

New York University Sackler Institute
Yale University
marilyn.vasquez@yale.edu

Brenda Velasco

Harvard University, Division of
Medical Sciences
CSU Northridge
brenda.velasco.499@my.csun.edu

Anthony Velázquez

University of Virginia
UPR-Rio Piedras
a_v_g_94@hotmail.com

Jose Velilla

Harvard University
University of Florida
josealevel@hotmail.com

Donte' Verrill-Huffman

University of Pennsylvania
Morehouse College
donteVERRILL@yahoo.com

Ashley Viera-Ortiz

University of Pennsylvania
UPR-Mayaguez
ashley.viera@upr.edu

Camila Villasante

Weill Cornell Medical College
Johns Hopkins University
cvillas1@jhu.edu

Andres Villegas

Columbia University
Rutgers University
andres.villegas@rutgers.edu

Zaire Wade

University of Chicago
Norfolk State University
zairelwade@gmail.com

Samantha Walker

Stanford University
Fordham University
swalker17@fordham.edu

Maurice Whalen, Jr.

Brown University
Tougaloo College
maurice_whelenjr@brown.edu

Alexander White

Princeton University
University of Washington
alexwhite@uw.edu

Brandyn White

Weill Cornell Medical College
Hampton University
brandynbmw@aol.com

Sara Whitlock

Harvard University
John Brown University
whitlocks@jbu.edu

Elyce Williams

Brown University
Hunter College
elyce.williams80@myhunter.cuny.edu

Heidi Williams

Stanford University
Indiana University-Bloomington
heiwilli@indiana.edu

Nia Williams

Howard University
Xavier University of Louisiana
nwilli14@xula.edu

Amber Williamson

University of Virginia
College of Charleston
williamson.amber15@gmail.com

Jermaine Wilson

Weill Cornell Graduate School
Medgar Evers College CUNY
jermaineqdd@gmail.com

James Wondra

New York University Sackler Institute
CSU Northridge
james.wondra851@gmail.com

Saidah Wright

University of Pennsylvania
Claflin University
sairwright@gmail.com

Chih Ching Wu

Brown University
San Jose State University
wu.jodie@yahoo.com

Qiu Chang Wu

University of South Florida
The Colorado College
qiuchang.wu@coloradocollege.edu

Stephanie Wyche

Yale University
Claflin University
stephanie.wyche@gmail.com

Nadira Yusif

Brown University
UPR-Rio Piedras
nadiyusif@gmail.com

Habib Zahir

Weill Cornell Graduate School
Hunter College
hzahir1992@gmail.com

Alyssa Zannella

Princeton University
Providence College
azannell@umich.edu

Vladislav Zhitny

New York University Sackler Institute
University of Nevada, Las Vegas
vladislavzhitny@gmail.com

Cipriano Zuluaga

University of Pennsylvania
CSU San Marcos
zulua002@cougars.csusm.edu

Alejandro Zuniga

Brooklyn College CUNY
Brooklyn College CUNY
afzuniga96@gmail.com

Who's Who at the Symposium



Geneva H. Baxter

Spelman College

Geneva H. Baxter, Associate Dean for Undergraduate Studies, assists in providing oversight for the development and implementation of academic standards, policies, and programs. She also works with other offices to provide academic support services for students. She coordinates academic advising for first-year students and the First-year Experience Seminar. She also oversees the College's First-generation Student Success and Leadership Initiative. A member of several professional and civic organizations, Dr.

Baxter received her BA degree in English from Spelman College, MA degree in American Literature from the University of Wisconsin and her PhD in American Literature and Rhetoric from Georgia State University.

Areas of Research: African American Literature and Early American Literature with emphasis on the Slave Narrative

Board/Committee standings: Leadership Alliance Membership Committee, Membership Committee Chair for College Language Association, member of several collegiate committees at Spelman College

Literary accomplishments: "Frederick Douglass." *The Companion to Southern Literature*. Baton Rouge: LSU Press, 2001.

"Transforming Learning: Academic Advising At Spelman College." (Winter 2008) 10.1.

Presented numerous papers and lectures on African American Literary topics, the First-year Experience, first-generation college students.



Jabbar R. Bennett

Brown University

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

at Harvard Medical School and directed the Office for Multicultural Faculty Careers at Brigham and Women's Hospital.

Previously, Dr. Bennett also served as Senior Director of Development for Life Sciences, Healthcare and Education Industry Partnerships with United Way of Massachusetts Bay (UWMB) in Boston, and as Research and Science Specialist in the Office for Diversity and Community Partnership at Harvard Medical School. Dr. Bennett received his B.S. in biology and minor in Spanish from North Carolina Agricultural and Technical (A&T) State University, and his Ph.D. in biomedical sciences from Meharry Medical College.



Anastacia Berzat

Novartis Institutes for BioMedical Research

Anastacia Berzat joined Novartis Institutes for BioMedical Research as a Scientific Program Manager following completion of a postdoctoral fellowship at Memorial Sloan-Kettering Cancer Center. Her work includes the development and implementation of training programs for young scientists. Prior to joining NIBR, Anastacia earned a BS in Biology from Florida A&M University and a PhD in Genetics and Molecular Biology from the University of North Carolina at Chapel Hill. As a recipient of graduate fellowships from the National Cancer Institute and UNC-CH, her work examined the molecular

mechanisms utilized by small GTPases in regulating cellular transformation. At Memorial Sloan-Kettering, Anastacia was awarded an American Cancer Society fellowship to investigate the role of Rho GTPases in driving glioma invasion under the guidance of Professor Alan Hall. Anastacia also completed a program management internship with the New York Academy of Sciences and served as an executive member on several postdoctoral advocacy councils during her fellowship.



Vanessa Toney Bobb

New Alternatives for Children, Inc.

Vanessa Toney Bobb MD/PhD is a child, adolescent and adult psychiatrist and a former Leadership Alliance scholar. Dr. Bobb completed an MD, PhD at Brown University in comparative physiology. Following medical school, she completed adult and child psychiatry residencies at New York Presbyterian Hospital, and completed public psychiatry fellowship at Columbia University Medical Center. Currently, Dr. Bobb's clinical and academic interests relate to mechanisms and processes by which biological and psychosocial factors mediate mental health etiology and treatment outcomes in under-served youth and adults. Dr. Bobb is committed to working collaboratively to promote research, early detection, improved treatment, and better access to quality mental healthcare. Dr. Bobb is immediate past Secretary of the Black Psychiatrists of Greater NY. She is an Executive Committee member of New York Public Psychiatry. Dr. Bobb is a Fellow of the American Psychiatric Association.



Elizabeth A. Bowman

Vanderbilt University

Dr. Elizabeth Bowman is an Assistant Professor of Medical Administration in the Vanderbilt University Medical School. As the Assistant Director of Graduate Programs in Biomedical Sciences, Dr. Bowman is primarily responsible for graduate student recruitment and admissions. Dr. Bowman also serves as co-Director of the Vanderbilt Summer Science Academy, an undergraduate research program with over 100 students. Dr. Bowman received her Ph.D from the Biochemistry, Cell, and Developmental Biology program at Emory University in 2013.



Travis Boyce

University of Northern Colorado

Dr. Travis D. Boyce (2001 Yale University SR-EIP fellow) is an Associate Professor of Africana Studies and the Faculty Fellow for the Office of Undergraduate Research at the University of Northern Colorado. He holds a Ph.D. in Cultural Studies from Ohio University. Although his expertise is in African American university presidents during the mid-20th century, he also has research interests in the U.S. during Reconstruction, contemporary U.S. History, African diasporic studies, as well as film, popular culture and sports studies. He has articles and book reviews published in various peer viewed journals and chapters published in edited books. He recently completed a book manuscript titled *Historicizing Fear* that is in contract with University Press of Colorado and currently working on a biography of Benner C. Turner, former president of South Carolina State University 1950-67.



Joseph Brown

Stanford University

Joseph Brown currently has two positions at Stanford University: Graduate Diversity Recruitment Officer for the School of Humanities and Sciences and Director of Diversity & FirstGen Programs for the Vice Provost for Student Affairs. He received his B.S. degree in physics from Southwest Texas State University and an Sc.M. degree in biomedical engineering from Brown University. After working for IBM as a marketing representative he was admitted to the PhD program in social psychology at Stanford University. His graduate work focused on the influence of stereotypes and prejudice on the intellectual identities and performance of women and minorities.



Don C. Brunson

Vanderbilt University

Dr. Don Brunson is the Assistant Dean of the Vanderbilt University Graduate School and the Director of the Graduate School's Enhancing Diversity in Graduate Education Program. He is responsible for leading recruitment and retention efforts for Ph.D. students from under-represented minority groups and other diverse student populations in all fields of study and women Ph.D. students majoring in science, technology, engineering, or mathematics fields. He was a MARC Honors Undergraduate Research Training Program at Morgan State University and attended the Massachusetts Institute of Technology (MIT) on a MARC graduate fellowship where he became the first African-American to earn a Ph.D. in Toxicology from MIT. After completing a two-year post-doctoral fellowship in the Department of Pharmacology and Molecular Sciences at the Johns Hopkins University School of Medicine, he altered his career path from scientific research to university administration and has held administrative positions at MIT, Morgan State University, and Vanderbilt University.



Arnaldo Diaz

University of Pennsylvania

Arnaldo J. Diaz, PhD, is the Assistant Dean for Research Training and Programs and Adjunct Assistant Professor of Pharmacology at the Perelman School of Medicine at the University of Pennsylvania. Dr. Diaz works with University leadership to develop and coordinate targeted recruitment strategies and to provide academic and professional career development for underrepresented minority trainees across the full spectrum of undergraduate, graduate and post-graduate programs in the biomedical sciences. In addition to serving as liaison to The Leadership Alliance, he directs the Summer Undergraduate Internship Program (SUIP) and the Post-Baccalaureate Research Education Program (PennPREP). He works closely with program members by advising them, monitoring their progress, and assisting them with the graduate school admission process and fellowships.



Denise Ellis

Alfred P. Sloan Foundation's Minority Graduate Scholarship Programs

Denise Ellis is the Program Manager for the Alfred P. Sloan Foundation's Minority Graduate Scholarship Programs, which NACME has administered since 2001. Since 2012, Mrs. Ellis has been responsible for the management of all aspects of the Minority Ph.D. (MPHD) and the Sloan Indigenous Graduate Partnership (SIGP) Programs, representing a portfolio of scholarship programs totaling \$50 million.

Mrs. Ellis has more than 15 years of experience in educational and non-profit organizations, having served as financial administrator for the New York City Department of Education and as Budget Director for the US Fund for UNICEF prior to joining NACME.

She holds a B.A. degree in Languages & Linguistics from the University of the West Indies and an M.B.A in Finance from Baruch College, City University of New York.



Karina Evora

Vanderbilt University

Currently a graduate student at Vanderbilt University, Karina Evora earned her bachelor's degree at the University of Miami in 2012, by way of Bryant University. Though she graduated with a concentration in Economics, she built a strong desire to work in the realm of education after several related experiences throughout her undergraduate career; namely the Upward Bound Program at Rhode Island College and the Kalulu Program at the University of Miami. These experiences have led to her position with the College Advising Corps at Brown University where she advised students of Charles E. Shea High School in Pawtucket. This work was specific to guiding students through the college application process but also to building a college going culture and providing early awareness to the underclassmen. Karina also spent multiple summers working with The

Leadership Alliance as the Leadership Alliance National Symposium (LANS) Project Assistant, where the emphasis of higher education and research opportunities for underrepresented students stimulated her decision to enroll in a post-baccalaureate program. Karina is currently enrolled in the Master's of Education program in Higher Education Administration at Peabody College at Vanderbilt University and hopes to work on improving college access for underrepresented and low-SES background students following the completion of the program in May 2016.



Saul Fisher

Mercy College

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



Tiffani Fonseca

American Society for Microbiology

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



Isabel Geathers

Columbia University

Dr. Geathers is the current Assistant Dean for Academic Diversity at Columbia's GSAS. Dr. Geathers graduated with her PhD in English from the University of Pennsylvania and went on to complete her postdoctoral work at Princeton University. Her research is centered in contemporary American and African American literature with a specialization in aesthetic theory and genre theory. Dr. Geathers has held positions with the McNair Scholars Program and is the former Senior Associate Director of the Institute for Recruitment of Teachers.



Alex Gil

Columbia University

Alex Gil is Digital Scholarship Coordinator for the Humanities and History at Columbia. He consults with faculty, students and the library on the impact of technology on humanities research, pedagogy and scholarly communications. Current projects include an open repository of syllabi for curricular research, an aggregator for digital humanities projects worldwide and other initiatives at the intersection of technology and the humanities. He is currently vice-chair of global-outlook::digital-humanities

(GO::DH) and the organizer of the THATCamp Caribe series. His scholarly heart remains betrothed to Caribbean Literature in the 20th Century.



Leislle Godo-Solo

Institute for the Recruitment of Teachers

Ms. Godo-Solo has served as the Associate Director of the Institute for Recruitment of Teachers (IRT) since 2002. She plays an integral role in every aspect of IRT from recruiting and selecting IRT scholars to counseling them and assisting students as they prepare graduate application materials. She holds a B.A. in Spanish from Cleveland State University and a M.A. degree in Spanish Literature from the University of Rhode Island. In 2007, Ms. Godo-Solo completed a Specialist of Education (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. She is a proud alumna of IRT (class of ’91) and deeply passionate about educational access as it pertains to recruitment and completion of graduate degrees, mentoring, and best practices regarding programs that ensure students’ success in graduate school.



Fred Gorelick

Yale University School of Medicine

Fred Gorelick, M.D. is a Professor of Medicine (Digestive Diseases) and Cell Biology at Yale University School of Medicine and a physician scientist who cares for patients and does research. He went to medical school and did a residency at the University of Missouri in Columbia followed by a GI fellowship at Yale University. Afterward, he trained in research with James D. Jamieson, MD, PhD at Yale and Paul Greengard, PhD at the Rockefeller University. His laboratory studies acute cell and tissue injury using models of pancreatitis and he is specifically interested in identifying pathologic signaling pathways that

can be therapeutically targeted. He also works with Dr. Greengard’s group to examine the proteolytic generation of the protein responsible for Alzheimer’s disease. Dr. Gorelick has been the Acting Chief of the Digestive Diseases Section, the Digestive Diseases Research Training Program Director and is the Deputy Director of the Yale MD-PhD Program. Dr. Gorelick has also served as the President of the American Pancreatic Association and has chaired grant review committees for the NIH. His laboratory has received support for over 30 years from the NIH NIDDK and NIAAA, from the Veterans Administration, and the State of Connecticut.



Mark Hernandez

University of Colorado Boulder

Mark Hernandez attained all of his degrees from Berkeley’s College of Engineering. After a post-doc (also at Berkeley) and several years of professional practice, he joined the University of Colorado faculty in 1996, where he is a Professor of Environmental Engineering. For more than a decade, he served 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. Dr. Hernandez maintains an active environmental

microbiology research program which focuses on the remediation of polluted air and water. He won the Water Environment Foundation’s Canham Award to support technology transfer between the US and England, and was a recipient of a National Science Foundation early CAREER award. Dr. Hernandez maintains a modest consulting practice, serves as an expert witness in the remediation field, and holds US patents for wastewater reclamation; he has over 65 archival publications. Professor Hernandez has personally mentored numerous undergraduates (30), graduates and post-doctoral fellows (15) from student groups that are physically disabled or have otherwise been historically underrepresented in engineering education. His academic protégés now hold tenured faculty positions at Yale, Ohio State, and Cornell University in the US, as well as National Technical Universities in Copenhagen, Shanghai, and Amman.



Sara Xayarath Hernández

Cornell University

Sara Xayarath Hernández is the Associate Dean for Inclusion & Student Engagement for the Graduate School at Cornell University. In this role, she serves as one of Cornell's five University Diversity Officers and as a core member of the Dean's leadership team, providing vision, leadership, and overall management for Graduate School initiatives and policies related to diversity and inclusion. Hernández directs the Office of Inclusion & Student Engagement (OISE), which leads the Graduate School's efforts to recruit, retain, and support a diverse student body with a particular focus on students from groups historically underrepresented in graduate education. OISE in partnership with other Graduate School and university partners, leads student engagement and professional development programming that fosters community and develops skills to enhance academic success, improve retention and completion rates, and prepare students to pursue academic and non-academic careers following attainment of their graduate degrees.

Hernández has served as a University Member Representative to the National GEM Consortium since 2009. In 2010, GEM recognized Hernández as the University Member Representative of the Year and in 2013, she became the Standing Chair for the Operations Committee. In her previous role as Director of Diversity Programs in Engineering at Cornell, Hernández served as the Co-PI for Cornell's Alfred P. Sloan Foundation funded UCEM Program and for Cornell's NSF funded Louis Stokes Alliance for Minority Participation and STEM Talent Expansion Programs.

Hernández holds a Bachelor of Arts in Zoology from Ohio Wesleyan University and a Master of Regional Planning from Cornell University.



J. K. Purdom Lindblad

University of Virginia

As the Head of Graduate Programs in the Scholars' Lab at the University of Virginia Libraries, Purdom Lindblad coordinate our two fellowship programs, the Graduate Fellowship in Digital Humanities and our innovative Praxis Program. In addition, she works with the international Praxis Network, which showcases new models of humanities methods training. Lindblad has a background in Religious Studies, American Studies, and Information Science.



Renita Miller

Princeton University

Renita Miller is the Director of Studies at Princeton University. Dr. Miller is also working with the graduate school at Princeton, directing the Princeton Summer Undergraduate Research Experience (PSURE) this summer. In her role as director of studies, she is responsible for managing, training and professional development of Princeton faculty academic advisers. She is also responsible for academic programming and advising for freshmen and sophomores. She received her Bachelors in Business Administration from Baylor University and her Masters and Ph.D. from Rice University in Political Science. Her research focuses on understanding the influence of race and gender in political institutions with a particular focus on political rhetoric, deliberation, and leadership within state legislatures. Prior to Princeton, she taught in the political science department at Texas A&M and Rice University. She was also a research fellow for the Project of Equity, Representation, and Governance at Texas A&M and the Kinder Institute of Urban Research at Rice University. Dr. Miller also has work experience as an education policy consultant and pharmaceutical sales representative and trainer.



Beth Murphy

Brown University

Beth Murphy currently serves as Assistant Director of Financial Aid at Brown University. In the financial aid industry for over 20 years, she has become a champion for financial literacy after realizing that many children and young adults lack basic foundation and life skills in budgeting, personal finance, and building wealth to help ensure financial success. Beth is one of the founding members of GET YOUR BEARINGS: Brown Financial Literacy program at Brown University and shares her knowledge with a wide variety of audiences to help strengthen her cause. She received her Bachelor of Science degree from Stonehill College and Master's degree from Simmons College. She is also a Microsoft Certified Professional, and is currently taking classes in interior decorating. With two children in college, Beth enjoys finding free activities to enjoy with her husband and dog in and around Massachusetts.



Darryl Murray

National Institutes of Health

Dr. Darryl Murray is a native of Birmingham, Alabama. He earned undergraduate degree in Biology and a Masters degree in Microbiology from Alabama State University (ASU). Since leaving ASU, he has spent the last 28 years at the National Institutes of Health (NIH) in varying capacities. First as a technician for two years and later as a graduate student, earning his Ph.D. in Biology from the Johns Hopkins University. Subsequently, he trained as a postdoctoral fellow in Laboratory of Genetics at the National Institute on Aging (NIA). Next, he transitioned to administration, becoming the Training Director and Recruitment Specialist at NIA. Currently, Dr. Murray is the Director of the NIH Undergraduate Scholarship Program in the NIH Office of Intramural Training and Education.



Chinonye Nnakwe

University of Chicago

Chinonye "Chi-Chi" Nnakwe, Ph.D. is the inaugural Director of Graduate Diversity Initiatives for the Office of the Provost at the University of Chicago. At the university, she collaborates with faculty, students and administrators in all divisions and professional schools to advance the mission of increasing the representation of Ph.D. seeking graduate students from underrepresented populations and advocating for their successful matriculation and degree completion.

Her work includes brokering multi-institutional collaborations with consortium partners, serving as a consultant to faculty in devising recruitment and retention strategies, managing the Leadership Alliance Summer Research Early Identification Program at the University of Chicago and spearheading outreach initiatives to attract talented students to the university. In addition, she pursues interventions that address the disparity of underrepresented groups in higher education with a focus on building competencies for mentoring, addressing bias and promoting cross-cultural interaction. In the fall of 2015, Dr. Nnakwe will pursue a science and technology policy fellowship through the American Association for the Advancement of Science (AAAS) at the National Science Foundation (NSF) and will focus on innovation and entrepreneurship through the I-Corps program.

In past roles, Dr. Nnakwe was an Associate Consultant for Campbell Alliance—a leading management consulting company that provides strategy services to pharmaceutical and biotech companies. She obtained her Bachelors of Science in Biochemistry with Distinction in the Curriculum from the University of Illinois at Urbana-Champaign and her Ph.D. in Pathology, with a concentration in Cancer Biology and Yeast Genetics from the University of Chicago.



Christine O'Brien

National Academy of Science

Christine O'Brien, of the Fellowships Office of the Policy and Global Affairs Division of the National Academies, administers fellowship programs and has done so since January 1974. Chris currently provides administrative leadership for the Ford Foundation Fellowship Programs. 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). Chris works on the Ford Foundation Predoctoral, Dissertation, and Postdoctoral Fellowship Programs. In 2004 and 2008, the Ford Fellowship administrative team was awarded National Academies' recognition for outstanding performance.

Christine provides leadership for the Fellowship Roundtable, a Fellowships Office activity that convenes fellowship administrators in the DC region and beyond. The Fellowship Roundtable addresses issues of importance to fellowship administrators and those who advise graduate students and fellowship applicants. The Fellowship Roundtable meets bi-annually. In 2015, the Roundtable participants celebrated its 20 year anniversary.



Joel Oppenheim

New York University School of Medicine

Presently Dr. Joel D. Oppenheim is Professor Emeritus of Microbiology and also serves as the Diversity Advisor to the Office of Science Research at the NYU School of Medicine. From 1994 -2014 he was the Senior Associate Dean of the Medical Center where he oversaw all PhD and Postdoctoral programs. For the past 24 years he has served (and continues to serve) on the NYU School of Medicine's MD and MD/PhD Admissions Committees and previously chaired the PhD Admissions (1994-2014). He was the founder and director of the NYU's Summer Undergraduate Research Program (1990-2013) and of the "What Can You Be With a PhD?" Symposium (1995 – 2013), the largest university based career development program for predoctoral students and postdoctoral fellows in the country. He has served on many national advisory committees (AAMC, NIH, NRC, NSF, ASM, Leadership Alliance, and UNCF/Merck), grant study sections (NCATS, NIAID, NIGMS, NSF, Sloan Foundation, UNCF/Merck), as a reviewer of numerous NRC, NSF and NAS reports involved with graduate education, pipeline issues and the recruitment and retention of underrepresented students to graduate programs. He also has served (serves) on the external advisory boards and program review boards of a number of state and national accrediting agencies, colleges and universities. Dr. Oppenheim has been an invited speaker to over 70 colleges and universities, at the NRC, NSF and NIH as well as at ABRCMS, Leadership Alliance, McNair, SACNAS and UNCF/Merck national meetings, speaking to students and faculty on topics ranging from how to prepare for and apply to graduate and professional schools, to strategies for the recruitment and retention of students and career options. In 2010 Dr Oppenheim was the recipient of the AAAS (American Association of the Advancement of Sciences) Life Time Mentoring Award, one of the nations highest mentoring awards. Dr Oppenheim was also one of the founding members of the Leadership Alliance in 1992.



Cesar Perez

Food & Drug Administration

Cesar Perez attended the State University of New York at New Paltz in 1998 and obtained his Bachelor degree in biology. In 2008, he obtained his PhD degree in microbiology from the New York University School of Medicine. His research thesis focused on elucidating the mechanisms responsible for manipulating cellular protein synthesis in Human Cytomegalovirus-infected cells.

Also, Cesar served in the United States Army Reserve from 1998-2006 as a Non-Commissioned Officer. In 2003, he was activated and served one year on active duty at Fort Hood, Texas for operation Global War on Terrorism (GWOT).

He currently works in the Abdominal and Surgical Devices Branch, Division of Manufacturing and Quality, Office of Compliance, Center for Devices and Radiological Health, Food and Drug Administration as a Regulatory Officer. He reviews

domestic enforcement activities, recalls related to device quality and safety and the manufacturing section of premarket approval applications. In addition, he reviews compliance issues associated with sterilization and reprocessing of medical devices.



Ruth Schemmer

Vanderbilt University

Dr. Schemmer initiated career development services for Graduate School students at Vanderbilt 2 years ago. Through individual advising, workshops and web-based resources, Ruth educates PhD and master's level students about all aspects of their job search, preparing them for careers in academia, government, non-profit organizations, or industry/business. As a self-described collector of stories, she places great emphasis on introducing students to the power of networking.

Reflecting a longstanding interest in the public sector and understanding organizational behavior, Ruth's Ph.D. in Sociology, from Texas A&M University, focused on Complex Organizations and Political Sociology. Ruth's own accidental career began 16 years ago as an advisor at the Texas A&M Career Center. At Vanderbilt, she particularly values being supported by the Graduate School with her focus solely on graduate students and making their success a priority.



Nancy Schwartz

University of Chicago

Dr. Nancy Schwartz is 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 PREP,

IMSD, and NRMN-CAN. 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. 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.



David Stout

California State University

Dr. David A Stout is an assistant professor in the Department of Mechanical and Aerospace Engineering at California State University, Long Beach. He received his B.S. degree in Aerospace Engineering with a minor in Chemistry from California State University, Long Beach in 2010, and a Ph.D. in Biomedical Engineering in 2014. While at Brown, Dr. Stout was a member of the Nanomedicine Laboratories focusing on the development of cardiovascular nano-biomaterials under the direction of Dr. Thomas J.

Webster. Under the direction of Dr. Christian Franck, Dr. Stout then developed a system to investigate the migration forces of human neutrophils in a 3D environment in the Cell- Mechanics Laboratory. Dr. Stout's main research focus is applying engineering techniques to the biomedical world to combat some of the most deadly diseases and infections. His research expertise is in cardiovascular biomaterials, orthopedic biomaterials, nano-medicine, solid mechanics, cell mechanics and migration. Dr. Stout is a recipient of The National Science Foundation (NSF) Graduate Student Fellowship and (twice) Indo-US Science and Technology Forum (IUSSTF) Research Fellowship. He is a member of BMES, Tau Beta Pi, Sigma Xi and SFB.



Naoko Tanese

New York University

Naoko Tanese PhD, Professor of Microbiology, received her PhD in Biochemistry from Columbia University studying the replication of retroviruses with Dr. Stephen Goff, and trained as a postdoctoral fellow at UC Berkeley with Professor Robert Tjian where she performed innovative work on transcriptional regulatory mechanisms. Continuation of this research at NYU as an independent investigator has led to numerous scientific collaborations with faculty studying cancer, developmental biology, virology, neuroscience, and stem cells. Since joining the NYU faculty in 1993, Dr. Tanese was appointed Co-director of the Medical Scientist Training Program in 2010, and Director of Basic Science Faculty Mentoring in 2013. Through these channels she plays an instrumental role in advancing the careers of many young scientists. Her current research focuses on the molecular basis of Huntington's disease, a devastating inherited neurodegenerative disease. In May 2014, Dr. Tanese was appointed associate dean for Biomedical Sciences and director of the Sackler Institute of Graduate Biomedical Sciences, which oversees NYU School of Medicine's PhD, MD/PhD, and Summer Undergraduate Research Programs. She leads recruitment and retention for all programs to ensure that recruits receive outstanding training throughout their tenure, from coursework and matching with the right faculty mentors to career development.



Sheila M. Thomas

Harvard Medical School and Harvard University

Sheila Thomas is a faculty member in the Division of Medical Sciences (DMS) PhD Programs and Department of Medicine at Harvard Medical School and Assistant Dean for Diversity and Minority Affairs for the Graduate School of Arts and Sciences (GSAS). Her research interests are in cancer cell signaling; and she is actively involved in teaching and advising students in the DMS PhD programs and sits on the admissions committees for the life science PhD programs as well as the MD/PhD program.

As Dean, she oversees diversity efforts for Harvard's 57 PhD programs. She directs the Summer Honors Undergraduate Research Program (SHURP), Summer Research Opportunities at Harvard (SROH) and the Graduate School's post-baccalaureate program, GSAS Research Scholar Initiative. Dr. Thomas received her BA in Biochemistry and Molecular and Cellular Biology from Northwestern University, her PhD in Molecular Genetics from University of Pennsylvania, and did her post-doctoral training at Fred Hutchinson Cancer Research Center.



Christina Williams-Keeton

Vanderbilt University

Dr. Williams-Keeton is the Interdisciplinary Program Coordinator for the Initiative for Maximizing Student Diversity (IMSD) and Co-Director of the Vanderbilt Summer Science Academy (VSSA). IMSD exists to guide and support under-represented minority graduate students to completion of a Ph.D. in biomedical research at Vanderbilt University. As IMSD Program Coordinator, she is responsible for management of program and student related activities, including recruitment and mentoring. The VSSA provides summer research experience to undergraduate students from across the country. As

Co-Director of the VSSA, she is responsible for management of program logistics as well as creation and implementation of program activities. She received her B.S. in Biochemistry at Syracuse University. While working as an environmental chemist for the Syracuse Research Corporation, she decided to pursue her Ph.D. At Vanderbilt University, she earned her Ph.D. in Biochemistry in the laboratory of Dr. Walter Chazin and was a Postdoctoral Fellow in Science Education Administration.

The Leadership Alliance Executive Office Staff



Medeva Ghee

Executive Director

Dr. Medeva Ghee, a graduate of North Carolina State University with a bachelor's degree in zoology, earned her M.S. and Ph.D. in microbiology from New York University School of Medicine. Her postdoctoral research was conducted in Paris, France with a team of researchers associated with the National Center for Scientific Research (CNRS), where she employed biochemical and gene therapy technologies to investigate the impact of protein aggregation in Parkinson's disease. In 2005, Dr. Ghee worked with the Clinton Foundation as a Laboratory Systems Specialist for the HIV/AIDS Initiative. In this capacity, she provided technical assistance and strategic advice on the development of laboratory plans and systems to support national HIV/AIDS prevention care and treatment programs in the Initiative's partner countries in Sub-Saharan Africa. Dr. Ghee joined the Leadership Alliance in 2006 and was appointed the Executive Director of the Leadership Alliance in July 2011. In this capacity, she is responsible for leading the 35 member consortium of institutions and private industry dedicated to increasing the participation of underrepresented students in competitive graduate and doctoral training programs and ultimately developing leaders and role models in academia, the public and private sectors. In addition to her administrative responsibilities, Dr. Ghee is an Assistant Professor of the Practice of Behavioral and Social Sciences at Brown University where she has developed a course that leverages multidisciplinary approaches to support HIV/AIDS care and treatment programs in Sub-Saharan Africa. Actively engaged in research aimed at mentoring and supporting students through critical transitions along the academic pathway, Dr. Ghee has been invited to serve as an external consultant for federal mentoring programs and has given keynote lectures regarding mentoring strategies for graduate students, postdoctoral fellows, faculty members and senior administrators. At Brown, she serves as a mentor for both undergraduates and graduate students. In recognition of her mentoring efforts, Dr. Ghee received the Ruth J. Simmons Award for Leadership by the Samuel M. Nabrit Black Graduate Student Association.



Deborah Collins

Associate Director

Dr. Deborah Collins received her Ph.D. in educational research and policy analysis from Virginia Tech in 1984. While at Virginia Tech, she was Co-Director of the Vocational Education Evaluation in Virginia program, as well as responsible for the development and funding of two national research projects through the National Center for Research in Vocational Education at UC Berkley/Virginia Tech. As Co-Project Director, her research focused on longitudinal assessment of vocational enrollment patterns and their relationship to academic program achievement and postsecondary enrollments. At the same time, she co-directed a research project exploring the linkages between educational evaluation utilization and planning in vocational education. Dr. Collins taught research methods courses in both education and sociology, collaborating with colleagues in the sociology department to create and administer Virginia Tech's Center for Survey Research. As Center Co-Director, she worked with researchers and policy analysts across multiple disciplines to pursue and support funded research and regional public policy initiatives. In 1997, she came to Brown University as the Director of Research and Evaluation, leading two cycles of research activities for the Regional Educational Laboratory at Brown University (LAB). During her tenure at The Education Alliance, the Research and Evaluation division annually fielded up to 20 contract and grant initiatives, including multi-year national research awards through NSF, NIH and the U.S. Department of Education.



Barbara Kahn

Coordinator for Graduate and Undergraduate Programs

Barbara Kahn is the Coordinator for Graduate and Undergraduate Programs for the Leadership Alliance. In this capacity, she coordinates the combined application process for the 21 undergraduate summer research sites and supervises the Alliance summer research program at Brown University. Prior to her appointment with the Leadership Alliance, Ms. Kahn was part of the professional development team at Brown University's Annenberg Institute for School Reform, a center promoting quality education 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

Coordinator for Professional Development and Networking

Maria DoVale is the Coordinator for Professional Development & Networking for the Leadership Alliance. It is Ms. DoVale's primary responsibility to plan, organize, coordinate and develop sessions that promote networking, mentoring and professional development for undergraduate students, graduate students and our doctoral scholars. As the Ex-Oficio of the Leadership Alliance Symposium Planning Committee, she works alongside colleagues from various member institutions who provide suggestions on different aspects of program planning for the Symposium. 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.



Clara Weishahn

Project Assistant

Clara Weishahn provides administrative support to the Executive Office staff and assists on all Alliance programs, events, and initiatives. She facilitates communication between the Executive Office and member institutions and manages the Alliance's website maintenance and media projects. This autumn will mark her third year with the Leadership Alliance. Previously, Ms. Weishahn was a Legal Assistant in Portland, Oregon and assisted the Human Resources and Capital Campaign departments at Portland Center Stage. Clara is a theatre artist who collaborates with East and West coast companies and artists.

In Rhode Island, she works with the Sandra Feinstein-Gamm Theatre, Strange Attractor Theatre Company, Wilbury Theatre Group, Elemental Theatre Collective, Providence College, and Brown University Opera Productions. She is passionate about the development of new work in theatre and opera and facilitates the Play Salon, informal play readings in Rhode Island living rooms. She organizes social and networking events for women in the West End of Providence. Originally from Alaska, Ms. Weishahn received a B.A. in Theatre from Portland State University in Oregon.



Olivia Mansion

LANS Project Assistant

Olivia Mansion is the Project Assistant at the Leadership Alliance. In this role, she assists with the preparations and logistics for the Leadership Alliance's national Symposium. Ms. Mansion is passionate about creating platforms for sharing people's personal stories and opening pathways in science for underrepresented minorities. She is a Master's candidate here at Brown University in Cross-Cultural Studies and ESL, and the Cross-Cultural Communications Intern at the Brown University Writing Center where she co-facilitates culture and language workshops alongside the Director of English Language

Learning. In this role, Ms. Mansion co-founded the International Writers' Blog, where in addition to editing and writing, she manages the technology and visual media of the blog. Additionally, Ms. Mansion is a part of the Education and Outreach team of the NASA CubeSat Launch Initiative at Brown University where she co-writes STEM curriculum and teaches astronomy to middle school students in Providence. Ms. Mansion was born and raised in Venezuela, but is in Providence by way of Tampa, Florida where she received her Bachelor's degree at the University of Tampa.

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| Rahmelle Thompson | Director, Dr. John H. Hopps Research Scholar Program Morehouse College |
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| | |
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| Medeva Ghee | Executive Director |
| Deborah Collins | Associate Director |
| Barbara Kahn | Coordinator for Graduate and Undergraduate Programs |
| Maria DoVale | Coordinator for Professional Development and Networking |
| Clara Weishahn | Administrative Assistant |

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