

25 YEARS

A CELEBRATION OF SUCCESS



LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM

Hartford Marriott & Convention Center | Hartford, Connecticut | July 27-29, 2018

WELCOME

~ to the ~

2018 Leadership Alliance National Symposium



Welcome to the 2018 Leadership Alliance National Symposium! The theme, 25 Years: A Celebration of Success, calls us to reflect upon and commemorate the 25th anniversary of the Summer Research Early Identification Program (SR-EIP)!

As I think about this milestone, I think of the ongoing relevance of mentorship through critical transitions along the academic pathway. 25 years ago, when the SR-EIP began, I was a predoctoral candidate in the microbiology department at NYU School of Medicine. Just as the SR-EIP would not have been launched without our founders, Vartan Gregorian, Jim Wyche and others, I would not have launched my academic career without a professor who believed in my

potential and shared the application to the prestigious Undergraduate Research Program at Cold Spring Harbor. He simply said: *You should apply to this*. This one pivotal moment illuminated a challenging and enriching academic and professional pathway.

Our founders established the Leadership Alliance SR-EIP in 1993 so that talented students from underrepresented backgrounds would have the opportunity to explore research questions and careers within a supportive environment at the most competitive institutions in the country. For a quarter of a century, faculty and administrators have amplified the voice of that one professor by reaching out and saying to students: *You should apply to this*. As a result, the program grew dramatically from our first cohort of 92 participants in 1993 to our current cohort of more than 300 students. We are indebted to the longstanding commitment and dedication of our faculty and administrators to the mission of developing underrepresented students into outstanding leaders and role models in all career sectors.

The Leadership Alliance is still relevant because each of you is a testament to our belief that talent resides in individuals from a wide range of backgrounds and that our investments in your development would yield leaders who reflect the dynamism that diversity brings to an inclusive and competitive workforce.

Congratulations to all of the undergraduates at our SR-EIP institutions, graduate students, and Doctoral Scholars. Heartfelt thanks to our faculty mentors and program administrators. This is an opportune moment for us to acknowledge our past and present community of scholars, celebrate our accomplishments, and recommit to fulfilling our promise of leadership.

Have a wonderful conference — Make it memorable!

A handwritten signature in black ink, appearing to read "Medera" followed by a stylized flourish.

Dear LANS Attendees,



This is the Silver Anniversary of the Leadership Alliance Summer Research-Early Identification Program (SR-EIP)! We, the members of the Symposium Planning Committee, welcome you to Hartford, CT, and we are thrilled that you have joined us at our annual conference!

In past years, the weekend conference for our undergraduate and graduate students was known as the Leadership Alliance National Symposium (LANS). The Alliance has redefined our scope and vision for this event. Now, LANS is comprised of the Wednesday-Thursday Career Development Workshop for graduate students and post-doctoral scholars, Grant Writing Coaching Groups for faculty members from Thursday to Friday, and the weekend Research Conference where undergraduate scholars share their research with the Alliance community of Doctoral Scholar alumni, graduate students, faculty and administrators. We are very excited about our newly-branded Symposium and the benefits that the participants will receive.

During the LANS Research Conference, there will be a myriad of events especially planned to support and promote the academic, personal and professional development of our emerging scholars and others that focus on supporting our Alliance faculty, staff and administrators. We encourage you to participate fully in the events associated with your conference track and let us know how the events helped you and how we can improve them for future LANS participants.

The conference will feature several outstanding speakers. Our Friday dinner will feature our Doctoral Scholars, SR-EIP alumni who have obtained their PhD or MD-PhD degree and are diversifying the research workforce. They will share stories of their journey from emerging scholars to preeminent scholars. On Saturday, Dr. Yajaira Sierra-Sastre will share her experiences of her time at NASA. The closing session on Sunday will feature Rev. Dr. Nichelle Guidry from Spelman College who will provide words of wisdom to motivate and inspire!

Should you need anything during your time at LANS, please do not hesitate to let us know. We hope that you have a positively productive experience with us, and we hope that this will be an unforgettable experience that allows us to benefit from your knowledge and presence.

Warm regards,

A handwritten signature in dark ink that reads "Don C. Brunson". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Don C. Brunson, Chair
Symposium Planning Committee

LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM

1993 – 2018



25 YEARS

A CELEBRATION OF SUCCESS

In Memoriam

“Her thoughtfulness and insights paved many a path in the sciences and the academy for the historically underrepresented, for whom she was such a tireless advocate.”

—Leadership Alliance Coordinator



Dr. Valerie P. Wilson served as the Executive Director of the Leadership Alliance from 2003 to 2011. Under her leadership, we celebrated the 1st 100 PhD's in 2008, new programs were launched, and the visibility and prominence of the Alliance was enhanced through numerous national and international conferences and awards, most notably the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring, presented by President Obama. Because of these efforts, the Alliance is a much stronger entity that will continue to have a prominent place as a national model of excellence. Dr. Wilson has transformed lives and launched countless careers.

“He was a truly caring educator whose passion for his students and their development was unmatched.”

—Leadership Alliance Coordinator



Dr. Roosevelt Ratliff Jr. was the Assistant Vice President of Academic Affairs and Professor of Education in the Division of Academic Affairs at Claflin University. As the Leadership Alliance Institutional Coordinator for Claflin University, Roosevelt served for more than five years on the Executive Committee. In this capacity, he played a central role in developing the strategic plan of the Leadership Alliance, which was ratified in 2010. For many years, he worked in the trenches and had a solid understanding of developing Claflin's students into leaders and role models. Ratliff was the quintessential advocate for all of his students who applied to the Leadership Alliance and other programs.

“DeVon was a kind person with an infectious smile and personality. He cared about the community and his light brightened the lives of so many.”

—Leadership Alliance Community Member



Dr. DeVon Wade participated in the Summer Research-Early Identification Program at the University of Chicago in 2009. After this experience, he enrolled in the doctoral program in the Sociology Department at Columbia University. His doctoral research focused on understanding inequality along racial and class lines as it pertained to criminality and urban areas. DeVon received multiple prestigious awards including the Truman Scholarship, the Ford Foundation Pre-Doctoral Fellowship and the National Science Foundation Fellowship. He will be remembered as a remarkable and promising young scholar. DeVon was awarded a posthumous degree by Columbia University.

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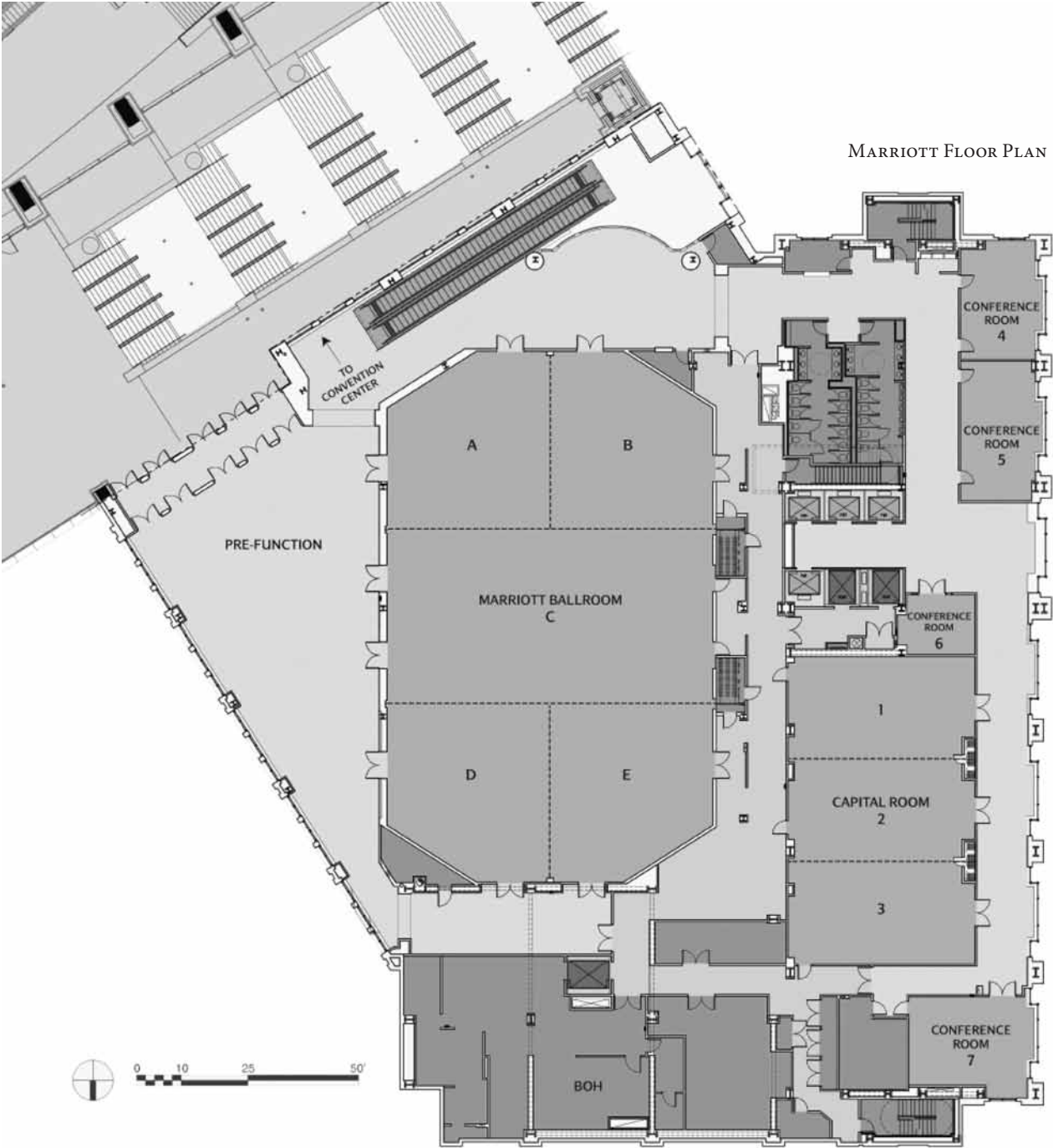


LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM

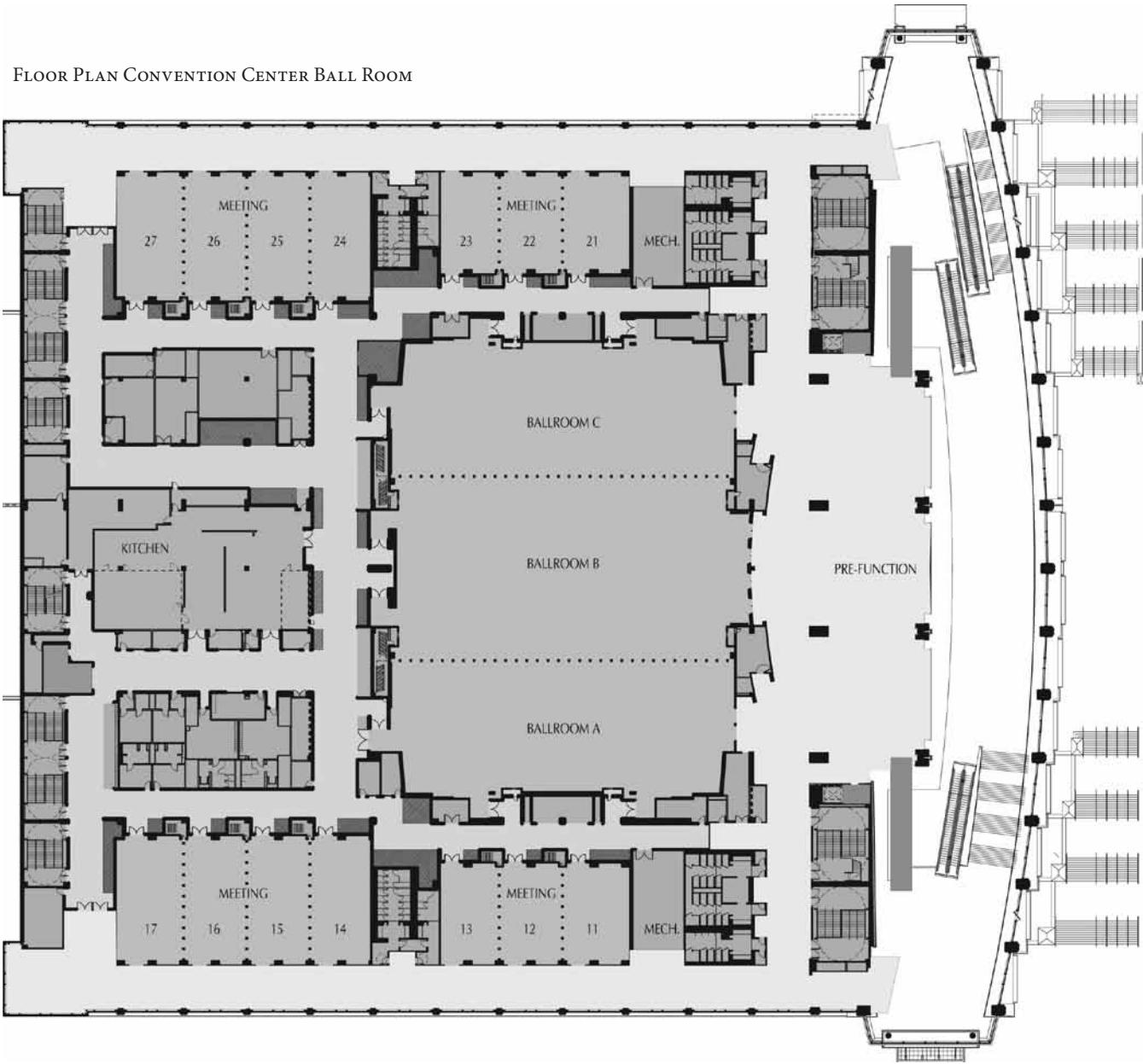
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FLOOR PLAN CONVENTION CENTER BALL ROOM



Symposium At-A-Glance

Friday		
Everyone	11:00 am – 5:00 pm	Registration
	12:00 pm – 2:00 pm	Networking Lunch
	2:00 pm – 3:00 pm	Break
	7:00 pm – 9:00 pm	Open Plenary — Welcome Dinner
Undergraduate Sessions	11:00 am – 3:00 pm	PowerPoint Presentation Upload I
	3:00 pm – 5:00 pm	Orientation/What is LANS? — <i>Sessions by Discipline</i>
	5:30 pm – 6:30 pm	Graduate Research Fellowship Programs (GRFP) <i>Undergraduate Seniors, First and Second Year Graduate Students in STEM, Social Sciences, Psychology, Physics & Astronomy, Materials Research, Life Sciences, Geosciences</i>
	5:30 pm – 6:30 pm	PowerPoint Presentation Upload II
	9:30 pm – 10:30 pm	PowerPoint Presentation Upload III
Graduate Sessions	4:00 pm – 5:00 pm	Moderator Training
	5:30 pm – 6:30 pm	Graduate Research Fellowship Programs (GRFP) <i>Undergraduate Seniors, First and Second Year Graduate Students in STEM, Social Sciences, Psychology, Physics & Astronomy, Materials Research, Life Sciences, Geosciences, Humanities</i>
	Following Dinner	Reception (Sponsored by Biocytogen)
Doctoral Scholars	3:30 pm – 4:30 pm	Reunion & Welcome Back
	5:30 pm – 6:30 pm	Leadership Alliance Community Meeting
	Following Dinner	Reception (Sponsored by Biocytogen)
Administrators, Coordinators, Faculty & Guests	5:30 pm – 6:30 pm	Leadership Alliance Community Meeting
	Following Dinner	Reception (Sponsored by Biocytogen)

Saturday		
Everyone	9:00 am – 5:00 pm	Registration
	9:00 am – 5:00 pm	Professional Headshots
	9:00 am – 11:00 am	Student Oral Presentations Session I — <i>All Disciplines</i>
	9:15 am – 10:45 am	Student Poster Presentations — <i>All Disciplines</i>
	11:15 am – 12:45 pm	Student Oral Presentations Session II — <i>All Disciplines</i>
	2:45 pm – 4:15 pm	Student Oral Presentations III — <i>All Disciplines</i>
	4:20 pm – 4:40 pm	Break
	4:45 pm – 6:00 pm	Student Oral Presentations Session IV — <i>All Disciplines</i>
	7:00 pm – 9:00 pm	Dinner & Keynote Speaker
	9:30 pm – Midnight	Dance

Symposium At-A-Glance

Saturday Continued...		
Undergraduate Sessions	7:00 am – 7:30 am	Poster Setup
	7:30 am – 9:00 am	Post-Baccalaureate Opportunities (PREP & Gap Year Scholar Program) <i>Applied & Basic BioSciences, Engineering, Physical Sciences & MD-PhD</i>
	7:30 am – 9:00 am	The Art of the Statement of Purpose <i>Humanities & Social Sciences</i>
	1:00 pm – 2:30 pm	Graduate School, I Wish I Knew... <i>Applied & Basic BioSciences, Engineering, Physical Sciences & MD-PhD</i>
	1:00 pm – 2:30 pm	My Life as a Humanist <i>Humanities & Social Sciences</i>
	5:40 pm	Group Photo — ONLY FYRE Students
	6:15 pm	Group Photo — ONLY LAMI Students
Graduate Sessions	7:30 am – 9:00 am	Coincert, The Soundtrack to Financial Freedom
	1:00 pm – 2:30 pm	Post-Doc Opportunities
Doctoral Scholars	7:30 am – 9:00 am	Coincert, The Soundtrack to Financial Freedom
	7:30 am – 9:00 am	Fair Play Part I
	1:00 pm – 2:30 pm	Fair Play Part II
	1:00 pm – 2:30 pm	Post-Doc Opportunities
Administrators, Coordinators, Faculty & Guests	7:30 am – 9:00 am	Fair Play Part I
	1:00 pm – 2:30 pm	Fair Play Part II
	6:00 pm	Group Photo — Leadership Alliance Coordinators
Sunday		
Everyone	7:30 am – 10:00 am	Recruiting Fair Set-Up
	10:00 am – 11:00 am	Closing Plenary & Keynote
	11:00 am – 1:00 pm	Recruiting Fairs
	1:00 pm – 2:00 pm	Lunch to Go — Pick Up at Marriott
Undergraduate Sessions	8:30 am – 9:30 am	The Graduate School Application — <i>Sessions by Discipline</i>
Graduate Sessions	8:30 am – 9:30 am	Leadership Alliance Alumni Association Meeting
Doctoral Scholars	8:30 am – 9:30 am	Leadership Alliance Alumni Association Meeting
Administrators, Coordinators, Faculty & Guests	8:30 am – 9:30 am	Leadership Alliance Alumni Association Meeting

AGENDA 2018

Friday, July 27

Conference Registration	11:00 am – 5:00 pm	Esplanade
Power Point Upload Session I	11:00 am – 3:00 pm	Ballroom Pre-Function
Networking Lunch – Everyone	12:00 pm – 2:00 pm	Ballroom B

Break > 2:00 pm – 3:00 pm

3:00 pm – 5:00 pm | Undergraduates by Discipline
Orientation [What is LANS?] / Funding / Networking Sessions by Discipline

Applied & Basic Biosciences	Meeting Room 24–26
Moderators: Eric Buckles , Program Coordinator and Associate Professor of Biology School of Science, Technology, Engineering and Mathematics (STEM); Sheila Thomas , Assistant Professor of Medicine, Assistant Dean of Diversity and Minority Affairs for GSAS and DMS, Harvard University	
Funding Your Education Panel:	
Leah Gibbons , Coordinator, Student Programs, American Society for Microbiology	
Joel Oppenheim , Research Professor, Department of Microbiology, Professor Emeritus of Microbiology, Department of Microbiology, New York University	
Humanities & Social Sciences	Meeting Room 21–22
Moderators: Keisha John , Director of Diversity Programs, Office of Graduate and Postdoctoral Affairs, University of Virginia; Natalie Strobach , Director of Undergraduate Research, Krieger School of Arts and Sciences, Johns Hopkins University	
Funding Your Education Panel:	
Leislle Godo-Solo , Associate Director, Institute for Recruitment of Teachers	
Christine O'Brien , Ford Fellowship, The National Academy of Sciences, Engineering, and Medicine	
Natalie Strobach , Director of Undergraduate Research, Krieger School of Arts & Sciences, Johns Hopkins University	
Engineering and Physical Sciences	Meeting Room 23
Moderators: Don Brunson , Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University; Ja'Wanda Grant , Special Assistant to the Provost for Scholar Development and Institutional Alliances, Academic Affairs, Xavier University in Louisiana	
Funding Your Education Panel:	
Denise Ellis , Program Manager, Alfred P. Sloan Foundation Minority Graduate Scholarship Programs	
Sara Xayarath Hernandez , Graduate School Associate Dean for Inclusion & Student Engagement University Diversity Officer, Cornell University	

3:30 pm – 4:30 pm

Doctoral Scholars Reunion/Welcome Back Meeting Room 13

4:00 pm – 5:00 pm

Moderators Training Meeting Room 27

Moderator: D'Ondre Swails, Graduate Student Africana Studies, Brown University

5:30 pm – 6:30 pm

Graduate Research Fellowship Programs (GRFP) Meeting Room 24-26

Moderator: David Stout, Assistant Professor, Department of Mechanical & Aerospace Engineering, California State University, Long Beach

(This session is for Undergraduate Seniors, First and Second Year Graduate Students in STEM, Social Sciences, Psychology, Physics & Astronomy, Materials Research, Life Sciences, Geosciences)

5:30 pm – 6:30 pm

Leadership Alliance Community Meeting Meeting Room 11

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

5:30 pm – 6:30 pm

Power Point Upload Session II Ballroom Pre-Function

Dinner > Doors open at 6:30 pm

7:00 pm – 9:00 pm

Welcome Dinner — Open Plenary Ballroom B

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

Speakers:

Amalia Figueroa, Sales Manager, Biocytogen

Jade Carter Gibbons, Forensic Scientist, Ventura County Sheriff's Office Forensic Services Bureau

Malo Hutson, Associate Professor in Urban Planning, Founder & Director of the Urban Community & Health Equity Lab, Columbia University

Chelsea Pinnix, Assistant Professor, Department of Radiation Oncology, Division of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX

Edgardo Sanabria-Valentín, Associate Director of the Program for Research Initiatives in Science & Math, John Jay College (CUNY)

Following Dinner

Reception (*Sponsored by Biocytogen*) City Side Lounge

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

9:30 pm – 10:30 pm

Power Point Upload Session III Ballroom Pre-Function

Saturday, July 28

7:00 am - 7:30 am

Posters Setup Ballroom C

Breakfast > 7:30 am – 9:00 am

Applied & Basic Biosciences, Engineering, Physical Sciences, & MD-PhD (Undergraduates)

Post-Baccalaureate Opportunities (PREP & Gap Year Scholar Program) Ballroom B

Moderator: Arnaldo Diaz, Assistant Dean for Research Training Programs, University of Pennsylvania

Speakers:

Raquel Castellanos, Assistant Director, Office of Research and Diversity, University of Pennsylvania

Mareshia Donald, Scientific Programs Manager and Diversity & Inclusion Partner, Novartis Institutes for BioMedical Research

Humanities & Social Sciences (Undergraduates)

The Art of the Statement of Purpose Ballroom A

William Wittels, Manager of Undergraduate & Graduate Programs

Stephanie Parsons, Assistant Director of Diversity and Minority Affairs, Harvard University The Graduate School of Arts & Sciences

Asabe Poloma, Assistant Dean for International Students & Associate Director of the Mellon Mays Undergraduate Fellows Program

Natalie Strobach, Director of Undergraduate Research, Krieger School of Arts & Sciences, Johns Hopkins University

Graduate Students & Doctoral Scholars Breakfast

new Coinsert, The Soundtrack to Financial Freedom Marriott A&B

Antionette Mutcherson, Director, Coinsetters

Makisha Cameron, Director, Coinsetters

Administrators, Coordinators, Doctoral Scholars, Faculty, and Guests

Fair Play Part I Marriott C

Moderator: Fair Play, Wisconsin Center for Education Research

9:00 am – 5:00 pm

Professional Headshots Ballroom Pre-Function

9:00 am – 5:00 pm

Leadership Alliance Conference Registration Esplanade

9:00 am – 11:00 am

Student Oral Presentations Session I

Applied & Basic Biosciences Meeting Rooms 11–12

Humanities & Social Sciences Meeting Rooms 13, 23, 26, 27

Engineering & Physical Sciences Meeting Room 13

9:15 am – 10:45 am

Student Poster Presentations Ballroom C

11:15am – 12:45 pm

Student Oral Presentations Session II

Applied & Basic Biosciences Meeting Rooms 11–17

Engineering & Physical Sciences Meeting Rooms 21–23

Humanities & Social Sciences Meeting Rooms 24–27

Lunch > Served 1:00 pm**Concurrent Sessions for Undergraduates Conducted from 1:30 pm – 2:30 pm****Undergraduates in Applied & Basic Biosciences, MD-PhD, Engineering & Physical Sciences**

Grad School, I Wish I Knew Ballroom B

Moderator: Marcus Jones, Sr. Manager, R&D Planning, Strategy & Operations, Regeneron Pharmaceuticals, Inc.

Speakers:Daniel Cabrera, 6th Year MD-PhD, Weill Cornell MedicineRobert Gutierrez, 2nd Year Bioengineering, Brown UniversityJean Rivera, 2nd Year Neuroscience, Weill Cornell Graduate School of Medical SciencesAsais Camila Uzcategui, 3rd Year Materials Science and Engineering, University of Colorado Boulder**Undergraduates in Humanities & Social Science**

My Life as a Humanist Ballroom A

Moderator: Olivia Mansion, Manager of Operations, Entrepreneurship Center, The University of Tampa

Speaker: Marisa Galvez, Associate Professor of French and, by courtesy, of German Studies, Chair of Undergraduate Studies, French, Stanford University

Graduate Students & Doctoral Scholars

new Post Doc Opportunities Marriott A&B

Moderator: Brittany Allison, SyNERGI Postdoctoral Fellow

Panelists:

Teresa Ramirez, Program Manager, Federation of American Societies for Experimental Biology

Kathryn Haklin, Postdoctoral Fellow, Johns Hopkins University;

Tracy Costello, Chair, Board of Directors, National Postdoctoral Association

Lyndon Mitnaul, Director, R&D Planning, Strategy and Operations, Regeneron Pharmaceuticals, Inc.

Administrators, Coordinators, Doctoral Scholars, Faculty, and Guests

Fair Play Part II Marriott C

Moderator: Fair Play, Wisconsin Center for Education Research

2:45pm – 4:15pm

Student Oral Presentations Session III

Applied & Basic Biosciences Meeting Rooms 11–17

Engineering & Physical Sciences Meeting Rooms 21–23

Humanities & Social Sciences Meeting Rooms 24–27

Break > 4:20 pm – 4:40 pm

4:45 pm – 6:00 pm

Student Oral Presentations Session IV

Applied & Basic Biosciences	Meeting Rooms 11–17
Engineering & Physical Sciences	Meeting Rooms 21–23
Humanities & Social Sciences	Meeting Rooms 24–27

Leadership Alliance Photos for the Following Groups ONLY:
CTCC Carpeted Stairs on Exhibitor Level

FYRE Students	5:40 pm
L.A. Coordinators	6:00 pm
LAMI Students	6:15 pm

Dinner > Doors open at 6:30 pm

7:00 pm – 9:00 pm

Dinner, Keynote Speaker	Ballroom B
Moderators: Medeva Ghee, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University	
Arnaldo Diaz, Assistant Dean for Research Training Programs, University of Pennsylvania	
Keynote Speaker: Dr. Yajaira Sierra-Sastre, Co-Founder and CEO, Science in Space	

9:30 pm – Midnight

Dance	Ballroom A
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Sunday, July 29

7:30 am – 10:00 am

Exhibitors Set-up for Recruiting Fair	Ballroom C
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Breakfast Sessions > 8:30 am – 9:30 am

Undergraduate Breakfast and Panels: The Graduate School Application

Applied & Basic Biosciences	Ballroom B
Speakers:	
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	
Marcus Lambert, Director of Diversity and Student Services, Graduate School of Medical Sciences, Weill Cornell Graduate School of Medical Sciences	

MD-PhD Meeting Room 21–22**Speakers:****Brian Sullivan**, Executive Director of the Medical Scientist Training Program, Washington University in St. Louis**Fred Gorelick**, Henry J. and Joan W. Binder Professor of Medicine (Digestive Diseases) and of Cell Biology; Deputy Director, Yale M.D., Ph.D. Program**Naoko Tanese**, Associate Dean for Biomedical Sciences, Director, Sackler Institute of Graduate Biomedical Sciences, Professor, Department of Microbiology, New York University**Megan Williams**, Assistant Director for Recruitment & Admissions, Medical Scientist Training Program, Vanderbilt University**Humanities & Social Sciences Meeting Room 25–26****Speakers:****Natalie Strobach**, Director of Undergraduate Research, Krieger School of Arts and Sciences, Johns Hopkins University**Pat Rea**, Associate Director at University of Pennsylvania, Graduate Division SAS, University of Pennsylvania**Joseph Brown**, Graduate Diversity Recruitment Officer Stanford University**Engineering and Physical Sciences Meeting Room 24****Speakers:****Don C. Brunson**, Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University**Michelle Nearon**, Associate Dean for Graduate Student Development and Diversity, Yale University**8:30 am – 9:30 am****Leadership Alliance Alumni Association Meeting Meeting Room 11****10:00 am – 11:00 am****Closing Plenary Ballroom B****Moderators: Medeva Ghee**, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University**Cynthia Neal Spence**, Social Justice Fellows Program Director, UNCF/Mellon Programs Director and Associate Professor, Spelman College**Keynote Speaker: Rev. Dr. Neichelle Guidry**, Dean of Sisters Chapel, Spelman College**11:00 am – 1:00 pm****Recruiting Fair Ballroom C****11:00 am – 12:00 pm****Closed IPERT Committee Meeting Meeting Room 26****1:00 pm – 2:00 pm****Lunch Pick-Up Marriott Hotel 2nd Floor**

KEYNOTE SPEAKERS

SATURDAY: Dr. Yajaira Sierra-Sastre

SUNDAY: Rev. Dr. Neichelle R. Guidry



DR. YAJAIRA SIERRA-SASTRE is a materials scientist and educator with ten years of research experience in academic, federal, and private institutions. Yajaira received her BS degree in chemistry and teacher's certification from the University of Puerto Rico-Mayaguez. After college, she returned to her hometown Arroyo and taught chemistry at her former high school. At the end of the academic year, Yajaira was awarded a summer research fellowship for teachers at Stanford University. There she discovered her passion for nanotechnology and returned home to work at the NASA Research Center for Advanced Nanoscale Materials at the University of Puerto Rico-Río Piedras, where she investigated materials for space applications. After gaining valuable research experience, Yajaira decided to pursue graduate studies at Cornell

University and obtained a Ph.D. in nanomaterials chemistry in 2009. As part of her doctoral thesis, Dr. Sierra-Sastre worked as a researcher at Los Alamos National Laboratory. Upon graduation, she joined a nanotechnology start-up company where she developed coating processes for multinational clients in the military, environment, medical diagnostics, and textile sectors.

Yajaira is currently dedicated to developing her own social enterprise, which focuses on providing mentoring and professional development opportunities to students from socially disadvantaged communities in Puerto Rico. She also collaborates on a variety of projects with the National Nanotechnology Infrastructure Network and the Cornell Nanoscale Facility, including the smallest national anthem ever written 'La Borinqueña más pequeña'. Her work in nanotechnology, educational outreach, and her aspirations to become the first Puerto Rican female astronaut have been recently featured in televised, radio, and news media. Her interests also include suborbital materials research, nanomaterials for the energy sector and technology commercialization in Latin America and Puerto Rico. In her spare time, Yajaira enjoys Latin dance, theatre, outdoor activities, and international cuisine.



Rev. Dr. Neichelle R. Guidry is a spiritual daughter of New Creation Christian Fellowship of San Antonio, Texas, where the Bishop David Michael Copeland and the Rev. Dr. Claudette Anderson Copeland are her pastors and where she was ordained to ministry in 2010. She is a graduate of Clark Atlanta University (2007, BA, Lambda Pi Eta) and Yale Divinity School (2010, M.Div.), where she was the 2010 recipient of the Walcott Prize for Clear and Effective Public and Pulpit Speaking. She is also a graduate of Garrett-Evangelical Theological Seminary (2017), where she completed her Doctor of Philosophy in the area of Liturgical Studies with a concentration in Homiletics. Her dissertation is entitled, "Towards a Womanist Homiletical Theology for Subverting Rape Culture." She currently serves

as the Dean of the Chapel and the Director of the WISDOM Center at Spelman College in Atlanta, Georgia. She is the creator of *shepreaches*, a virtual community and professional development organization that aspires to uplift African-American millennial women in ministry through theological reflection, fellowship, and liturgical curation. For six years, she served as the Associate Pastor to Young Adults and the Liaison to Worship and Arts Ministries in the Office of the Senior Pastor at Trinity United Church of Christ on the South side of Chicago, where the Rev. Dr. Otis Moss, III is the Senior Pastor. She served as the 2016 Preacher/Pastor-In-Residence at the Black Theology and Leadership Institute at Princeton Theological Seminary. She was listed as one of "12 New Faces of Black Leadership" in TIME Magazine (January 2015). She was recognized for "quickly becoming one of her generation's most powerful female faith leaders" on Ebony Magazine's 2015 Power 100 list (December 2015), and one of "Ten Women of Faith Leading the Charge Ahead" by Sojourners (March 2017). Additionally, Rev. Dr. Neichelle and the work of *shepreaches* were featured in the *New York Times* (April 3, 2015). She is a contributor to *What Would Jesus Ask?: Christian Leaders Reflect on His Questions of Faith* (Time Books, 2015), and the author of *Curating a World: Sermonic Words from a Young Woman Who Preaches* (self-published, June 2016). She is a proud member of Delta Sigma Theta Sorority, Incorporated.

Oral Presentations by Name

Abalo-Toga, Mariam 4:45 PM, CC-21

Using machine learning to aid in the classification of galaxy morphology

Research Mentor: Meg Urry
Research Institution: Yale University
Home Institution: University of Maryland, Baltimore County
Co-Authors: Meg Urry, Yale University
PS

Abbas, Leena 3:30 PM, CC-17

The Evaluation of Smoke-Free Housing Policy - Field Data Collection Methods and Baseline Results of Cigarette Butt Quantification

Research Mentor: Lorna Thorpe
Research Institution: New York University
Home Institution: Wayne State University
Co-Authors: Lorna Thorpe, New York University
AB

Acevedo, Sergio 5:00 PM, CC-16

Structure of G-protein Heterotrimer-Class C GPCR Complexes: Mutagenesis and Implementation of Dominant Negative Ga Subunits

Research Mentor: Qing Fan
Research Institution: Columbia University
Home Institution: UPR-Aguadilla
Co-Authors: Aure Frangaj and Qing Fan, Columbia University
BB

Adelgren, Paul 4:45 PM, CC-23

Imaging Magnetic Domains and Skyrmions with MOKE Microscopy

Research Mentor: Margaret Murnane
Research Institution: University of Colorado Boulder
Home Institution: Fort Lewis College
Co-Authors: Margaret Murnane, University of Colorado Boulder
PS

Agarwal, Astha 9:00 AM, CC-23

Exploring the Relationships Between Parent-Child Interactions, Teacher-Student Interactions, and Executive Functioning

Research Mentor: Khara Turnbull
Research Institution: University of Virginia
Home Institution: McGill University
Co-Authors: Khara Turnbull, Aliza Husain and Kathryn Smith, University of Virginia
SS

Alexander, Ezra 5:00 PM, CC-23

LiCH: An Ab Initio Investigation

Research Mentor: David Mazziotti
Research Institution: University of Chicago
Home Institution: Amherst College
Co-Authors: David Mazziotti, University of Chicago
PS

Presentation Categories Key

AB Applied Biosciences

Molecular Processes and Genetics, Biochemistry

BB Basic Biosciences

Human Biology & Disease, Public Health, Biomedical Engineering

EN Engineering

Mechanical, Electrical & Materials Engineering

ES Earth Science

Environment Sciences, Geosciences, Marine Sciences

HU Humanities

Literature, Language Arts, History, Media

PE Policy & Ethics

Politics, Policy & Legislation, Ethics, Philosophy & Reasoning

PS Physical Science

Chemistry, Math, Physics, Computer Sciences, Computer Engineering

SS Social Science

Sociology, Economics, Psychology, and Behavior Sciences

Alvarez, Emmanuel 4:45 PM, CC-13

Oxycodone exposure during gestation and early postnatal development in rat pups and its influence on ultrasonic vocalizations in a maternal separation paradigm

Research Mentor: Amelia Eisch
Research Institution: University of Pennsylvania
Home Institution: Rowan University
Co-Authors: Giulia Zanni and Amelia J. Eisch, University of Pennsylvania

BB

Alvarez, Guillermo 11:15 AM, CC-21

Insights into the Water Content of the Lunar Mantle from Pyroclastic Deposits

Research Mentor: Christian Huber
Research Institution: Brown University
Home Institution: UMass Lowell
Co-Authors: Christian Huber and Ralph E. Milliken, Brown University

ES

Amador Martínez, Karimar 9:30 AM, CC-12

The Role of Hedgehog Signaling on T Regulatory Cell Function in the CNS

Research Mentor: Jorge Alvarez
Research Institution: University of Pennsylvania
Home Institution: UPR-Mayaguez
Co-Authors: Jorge Alvarez and Trini Ochoa, University of Pennsylvania

AB

Aponte, Natalia 9:00 AM, CC-11

What are the kinetics for the return of Xist RNA to the inactive X (Xi) during T cell activation?

Research Mentor: Montserrat Anguera
Research Institution: University of Pennsylvania
Home Institution: UPR-Rio Piedras
Co-Authors: Montserrat C. Anguera, University of Pennsylvania

BB

Arboniés, Valeria 10:30 AM, CC-23

Counter Publishing Practices: How Independent Publishers in Puerto Rico and Mexico Reshape the Latin American City

Research Mentor: Arlene Davila
Research Institution: New York University
Home Institution: UPR-Rio Piedras
Co-Authors: Arlene Davila, New York University

HU

Archuleta, Chloe 2:45 PM, CC-13

Factor VIII mutants for hemophilia A inhibitor studies

Research Mentor: Rodney Camire
Research Institution: University of Pennsylvania
Home Institution: Colorado School of Mines
Co-Authors: Rodney Camire and Benjamin Samelson-Jones, University of Pennsylvania

AB

Arizaga, Fidel 9:00 AM, CC-13

Identifying Stages of Cell Division Through a Convolutional Neural Network

Research Mentor: Meredith Betterton
Research Institution: University of Colorado Boulder
Home Institution: UC Santa Cruz
Co-Authors: Saad Ansari, Dante Begay, Michael Nothem and Meredith Betterton, University of Colorado Boulder

PS

Arrington, Myles 12:15 PM, CC-26

The Development and Utilization of Spatial Skills in Children and College Students

Research Mentor: Jamie Jirout
Research Institution: University of Virginia
Home Institution: University of Maryland, College Park
Co-Authors: Jamie Jirout and Sierra Eisen, University of Virginia

SS

Asfaw, Zerubbabel 3:00 PM, CC-13

The common variant of HNF1A gene, I27L, alters clinical features of patients with HNF1A- MODY

Research Mentor: Louis Philipson
Research Institution: University of Chicago
Home Institution: Franklin and Marshall College
Co-Authors: Louis Philipson and Lisa Letourneau, University of Chicago

AB

Astorino, Morgan 5:00 PM, CC-24

How do changes in zoning influence the location of green spaces?

Research Mentor: Scott Frickel
Research Institution: Brown University
Home Institution: Rutgers University
Co-Authors: Thomas Marlow and Scott Frickel, Brown University

SS

Azziz, Annabel 4:45 PM, CC-15

Maintenance of Imprinting at the Dlk1-Dio3 Locus in Induced Pluripotent Stem Cells

Research Mentor: Eftychia Apostolou
Research Institution: Weill Cornell Graduate School
Home Institution: Fordham University
Co-Authors: Boaz Aronson, Laurianne Scourzic and Eftychia Apostolou, Weill Cornell Graduate School

BB

Báez-Caraballo, Francelis 10:45 AM, CC-23

Impact of Mandatory Minimum Reforms in the United States over Racial-Ethnic Disparities in Sentence Length from 2000-2015

Research Mentor: Terry-ann Craigie
Research Institution: Brown University
Home Institution: UPR-Mayaguez
Co-Authors: Terry-Ann Craigie, Brown University

SS

Barclay, Kara 3:00 PM, CC-12*Protein Methylation in Estrogen Receptor Alpha Signaling*

Research Mentor: Ryan Blawski

Research Institution: Weill Cornell Medical College

Home Institution: Amherst College

Co-Authors: Ryan Blawski, Weill Cornell Graduate School

BB**Barraza, Isabel** 2:45 PM, CC-23*Electrochemical activation of small molecules of energy and environmental impact*

Research Mentor: Thomas Jaramillo

Research Institution: Stanford University

Home Institution: University of Texas at El Paso

Co-Authors: Joel Sanchez and Thomas Jaramillo, Stanford

University

EN**Barrera, Maribel** 11:15 AM, CC-14*Quantification and examination of "offset" patterns in heat maps used for analysis of transcription factor activity*

Research Mentor: Robin Dowell

Research Institution: University of Colorado Boulder

Home Institution: University of North Texas

Co-Authors: Robin Dowell, University of Colorado Boulder

BB**Barrientos, Eric** 11:15 AM, CC-15*Roles for Novel PIM1 Substrates in Prostate Cancer*

Research Mentor: Michael Garabedian

Research Institution: New York University

Home Institution: Arizona State University

Co-Authors: Sophie Ruff, Susan K. Logan and Michael J.

Garabedian, New York University

BB**Beasley, Tykira** 9:00 AM, CC-26*The Drunken Jaguar of Courage: An Iconographic Study of an Ancient Maya Drinking Vessel*

Research Mentor: Adriana Greci Green

Research Institution: University of Virginia

Home Institution: Elizabeth City State University

Co-Authors: Adriana Greci Green, University of Virginia

SS**Bechtel, John** 9:15 AM, CC-11*Sterility as a Modulator of Healthspan and Age Related Pathologies in *Caenorhabditis elegans*.*

Research Mentor: Sylvia Lee

Research Institution: Cornell University

Home Institution: Wisconsin Lutheran College

Co-Authors: Siu Sylvia Lee and Amaresh Chaturbedi, Cornell

University

BB**Bennett, Grant** 12:00 PM, CC-24*Black Engineering and Computing Leadership in Higher Education*

Research Mentor: Ebony McGee

Research Institution: Vanderbilt University

Home Institution: Morehouse College

Co-Authors: Ebony O. McGee, Devin T. White and Monica L.

Ridgeway, Vanderbilt University

SS**Berglund, Alysia** 12:30 PM, CC-27*Age Differences in Implicit and Explicit Attitudes Toward Mental Health Treatment*

Research Mentor: Bethany Teachman

Research Institution: University of Virginia

Home Institution: University of Hawaii Manoa

Co-Authors: Alexandra J. Werntz and Bethany A. Teachman,

University of Virginia

SS**Berryman, Glenesha** 5:45 PM, CC-27*Do You Hear Me, Do You Feel Me? We Gon' Be Alright: Black Cultural Production in the Trump Era*

Research Mentor: Obery Hendricks

Research Institution: Columbia University

Home Institution: East Carolina University

Co-Authors: Obery Hendricks and Farah Jasmine Griffin,

Columbia University

HU**Bordes, Taylor** 3:15 PM, CC-14*Investigation of HIV-1 Nucleocapsid Binding to Viral RNA*

Research Mentor: Micheal Summers

Research Institution: University of Maryland, Baltimore County

Home Institution: Spelman College

Co-Authors: Canessa Swanson, Michael Summers, Darin

Gilchrist, Brittany Lafaver and Noel Getachew, University

of Maryland, Baltimore County

AB**Bostick, Maya** 10:00 AM, CC-13*Who Helps Who and How? Comparing the Helping Orientations of Black and White Men Working in Elite Jobs*

Research Mentor: Stephanie Creary

Research Institution: University of Pennsylvania

Home Institution: Spelman College

Co-Authors: Stephanie J. Creary, Brianna Barker Caza, LTC

Hise O. Gibson, Laura Morgan Roberts and Arran Caza,

University of Pennsylvania

SS**Boza, Juan** 5:00 PM, CC-21*Construction of a Hybrid Fourier Ptychography Microscope Incorporating LEDs and X-rays*

Research Mentor: Peter Johnsen

Research Institution: University of Colorado Boulder

Home Institution: Florida International University

Co-Authors: Margaret Murnane, University of Colorado Boulder

PS

Bracero, Sabrina4:00 PM, CC-16

Sphingosine 1-Phosphate and Inflammation

Research Mentor: Susan Schwab
Research Institution: New York University
Home Institution: College of William & Mary
Co-Authors: Susan Schwab and Audrey Baeyens, New York University

BB

Brandom, Amyre5:15 PM, CC-27

Ethel Robinsons' Divine Nine Sorority Influence

Research Mentor: Jennifer Betts
Research Institution: Brown University
Home Institution: Xavier University of Louisiana
Co-Authors: Jennifer Betts, Brown University

HU

Bugay, John Paul5:00 PM, CC-15

Developing a Degron System to Conditionally Deplete

Transcription Factors in Pluripotent Cells

Research Mentor: Matthias Stadfeld
Research Institution: New York University
Home Institution: San Francisco State University
Co-Authors: Matthias Stadfeld and Ly-Sha Ee, New York University

BB

Burnette, Timothy3:00 PM, CC-23

Measuring the Effects of Drought in Plant Communities:

Developing Functional Traits and Measuring Trait Variability in Xeric Tallgrass Prairie.

Research Mentor: Katharine Suding
Research Institution: University of Colorado Boulder
Home Institution: Grinnell College
Co-Authors: Julie Larson, Isabel Schroeter and Katharine Suding, University of Colorado Boulder

ES

Butts, Thalia4:00 PM, CC-27

Do It for the Culture: Limitations of the HBCU Experience in "The Quad"

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Home Institution: Claflin University
Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Buxenstein, Caroline5:00 PM, CC-26

Bodies Behind the Lines: A Look at Quarantine in Albert Camus' The Plague

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Home Institution: Community College of Baltimore County
Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Calcagno, Gabriela5:00 PM, CC-13

Oxycodone with or without conditioned place preference alters hippocampal mossy fiber leu-enkephalin levels in a sex-dependent manner.

Research Mentor: Batsheva Reich
Research Institution: Weill Cornell Graduate School
Home Institution: Brandeis University
Co-Authors: Batsheva Reich and Teresa Milner, Weill Cornell Medical College

BB

Candelaria Jimenez, Astrid12:00 PM, CC-14

Characterization of anti-Cav nanobodies using dimerization-dependent fluorescent proteins

Research Mentor: Henry Colecraft
Research Institution: Columbia University
Home Institution: UPR-Rio Piedras
Co-Authors: Travis Morgenstern and Henry Colecraft, Columbia University

BB

Canelo, Ricardo9:15 AM, CC-23

How School Racial Demographics And Perceived Fit Seem To Affect Beginning Teacher Self-Efficacy

Research Mentor: Peter Youngs
Research Institution: University of Virginia
Home Institution: New York University
Co-Authors: Peter Youngs, University of Virginia

SS

Cannata, Angela3:15 PM, CC-12

Zinc Dynamics in Kinase Cell Signaling

Research Mentor: Amy Palmer
Research Institution: University of Colorado Boulder
Home Institution: CSU Northridge
Co-Authors: Kelsie J. Anson and Amy Palmer, University of Colorado Boulder

BB

Cannon, Alysa10:30 AM, CC-27

Pupillary Synchronization as a Predictor of Music Popularity

Research Mentor: Feng Sheng
Research Institution: University of Pennsylvania
Home Institution: Temple University
Co-Authors: Feng Sheng and Michael Platt, University of Pennsylvania

SS

Carr, Katherine-Ann5:45 PM, CC-21

Diagnosing the Morphology of Galaxies using Machine Learning.

Research Mentor: Meg Urry
Research Institution: Yale University
Home Institution: University of Maryland, Baltimore County
Co-Authors: Meg Urry and Aritra Ghosh, Yale University

PS

Carrera, Maria 11:30 AM, CC-15

Defining the role of LSD1 in epithelial homeostasis and carcinogenesis

Research Mentor: Brian Capell
Research Institution: University of Pennsylvania
Home Institution: UPR-Mayaguez
Co-Authors: Brian Capell, Amy Anderson and Shaun Egolf,
University of Pennsylvania

BB

Carter, Davell 12:30 PM, CC-15

Determining the Effect of a SOS Mimetic Peptide that Selectively Targets KRAS G12C Mutated Cancers

Research Mentor: Dafna Bar-Sagi
Research Institution: New York University
Home Institution: Jackson State University
Co-Authors: Daniel Yoo, Andrew Hauser, Dafna Bar-Sagi and
Paramjit Arora, New York University

AB

Ceballos, Victor 11:45 AM, CC-17

Understanding The Effects of Adipocyte ODC1 on Obesity-Driven Breast Cancer

Research Mentor: Paul Cohen
Research Institution: Weill Cornell Medical College
Home Institution: Franklin and Marshall College
Co-Authors: Paul Cohen and Olivia Maguire, Weill Cornell
Medical College

AB

Chapekis, Athena 10:45 AM, CC-26

Trends in Absolute Mobility and Loss

Research Mentor: David Grusky
Research Institution: Stanford University
Home Institution: Miami University
Co-Authors: David Grusky and Maximilian Hell, Stanford
University

SS

Chau, Isabelle 5:30 PM, CC-13

Mapping the Cell Types and Brain Regions Affected by Early Amyloid-Beta Pathology in a Transgenic Mouse Model

Research Mentor: Makoto Ishii
Research Institution: Weill Cornell Medical College
Home Institution: Stanford University
Co-Authors: Makoto Ishii, Weill Cornell Medical College

AB

Cheji, Hind 3:00 PM, CC-26

Emboldened Heart: A Reading of Love as Conversion in Yazid Ibn Muawiya' Arabic Poem "Araka Toroban".

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Home Institution: Community College of Baltimore County
Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Chikukwa, Ratidzai 3:15 PM, CC-26

Rethinking Domestic Music-Making in the Nineteenth Century: Performance Practice in Jane Austen Novels

Research Mentor: Timothy Rommen
Research Institution: University of Pennsylvania
Home Institution: CSU Fullerton
Co-Authors: Timothy Rommen, University of Pennsylvania
HU

Chong, Michelle 11:15 AM, CC-22

Laser Locking and Stabilization for Exciting Atoms to Rydberg States and Simulating Spin Models

Research Mentor: Monika Schleier-Smith
Research Institution: Stanford University
Home Institution: University of Chicago
Co-Authors: Monika Schleier-Smith and Ognjen Marković,
Stanford University

PS

Cirillo, Victoria 11:30 AM, CC-21

An Investigation Into Three Ultraluminous X-Ray Sources in NGC 891

Research Mentor: Vikram Dwarkadas
Research Institution: University of Chicago
Home Institution: Fordham University
Co-Authors: Vikram Dwarkadas, University of Chicago
PS

Colon-Plaza, Sarah 9:30 AM, CC-11

Caspase activity without cell-death during regeneration in Drosophila melanogaster after exposure to IR

Research Mentor: Tin Tin Su
Research Institution: University of Colorado Boulder
Home Institution: Florida International University
Co-Authors: Tin Tin Su, University of Colorado Boulder
BB

Contreras, Veronica 11:45 AM, CC-21

Differential RF Filter Design Using Surface-Acoustic-Wave Resonators

Research Mentor: Dimitra Psychogiou
Research Institution: University of Colorado Boulder
Home Institution: UC Davis
Co-Authors: Dimitra Psychogiou, University of Colorado
Boulder
EN

Coto, Andrea 11:15 AM, CC-23

"The Effect of Manufacturing Variables on the Mechanical Properties of Biopolymer-bound Soil Composites"

Research Mentor: Michael Lepech
Research Institution: Stanford University
Home Institution: San Jose State University
Co-Authors: Michael Lepech, Mia Allende and Isamar Rosa,
Stanford University
EN

Coto Villanueva, Miguel..... 11:30 AM, CC-23

Chromium Redox Flow Battery for Safe, Affordable Grid Energy Storage

Research Mentor: Michael Marshak
Research Institution: University of Colorado Boulder
Home Institution: San Francisco State University
Co-Authors: Michael Marshak, Brian Robb and Jona Koka,
University of Colorado Boulder

PS

Cruz, Bianca 12:15 PM, CC-14

Engineering Double Emulsion “Droplet-in-Droplet” Microreactors: Optimized Production, Flow Cytometry Sorting, & Single Droplet Deposition for High Throughput Cellular Analysis

Research Mentor: Polly Fordyce
Research Institution: Stanford University
Home Institution: California State Polytechnic University, Pomona
Co-Authors: Kara Brower, Sandy Klemm, Catherine Carswell-Crumpton, Lisa Nichols and Polly Fordyce, Stanford University

AB

Cruz-Vazquez, Paula 10:45 AM, CC-12

Towards identifying genes in oculomotor neurons

Research Mentor: David Schoppik
Research Institution: New York University
Home Institution: UPR-Rio Piedras
Co-Authors: Kristen D’Elia, Basak Rosti, Marlisa Shaw, Jeremy Dasen and David Schoppik, New York University

BB

Curry, Samuel 2:45 PM, CC-16

Knocking down the Microtubule Detyrosinating Enzyme Vasohibin/SVBP in Rat Adult Cardiomyocytes and the effects on Contractility

Research Mentor: Ben Prosser
Research Institution: University of Pennsylvania
Home Institution: Morehouse College
Co-Authors: Christina Chen and Benjamin L. Prosser, University of Pennsylvania

BB

Daughtry, MarChé..... 2:45 PM, CC-25

Reframing Understandings of Disability Through Exploring Disabled Peoples’ Experiences with BDSM Play

Research Mentor: Tey Meadow
Research Institution: Columbia University
Home Institution: Williams College
Co-Authors: Tey Meadow, Columbia University

SS

Davis, Liesel..... 12:15 PM, CC-11

Pharmacogenetic Modulation of Oxytocin Neurons Affects Maternal Behavior in Mice

Research Mentor: Ioana Carcea
Research Institution: New York University
Home Institution: University of California Los Angeles UCLA
Co-Authors: Ioana Carcea and Robert Froemke, New York University

BB

de Leon, Emily 11:15 AM, CC-24

Americans by Fé: Prosperity Gospel Pentecostalism and Latino Assimilation

Research Mentor: Tony Tian-Ren Lin
Research Institution: University of Virginia
Home Institution: DePaul University
Co-Authors: Tony Tian-Ren Lin, University of Virginia

HU

DeAngelis, Gabrielle 3:30 PM, CC-25

Understanding Notions of Anti-Blackness Among Dominican Residents in the Northeastern United States

Research Mentor: Kevin Escudero
Research Institution: Brown University
Home Institution: Clark University
Co-Authors: Kevin Escudero, Brown University

SS

Diaz, Jasmine 5:15 PM, CC-16

The crystallization and purification of the DGKa Protien

Research Mentor: Ku-Lung Hsu
Research Institution: University of Virginia
Home Institution: Heritage University
Co-Authors: Ku-Lung Hsu, University of Virginia

BB

Diaz, Jessikah 4:45 PM, CC-26

Biopoetical Bodies: Tracing the Malleability of the Material Female Form in Wordsworth and Wollstonecraft

Research Mentor: Timothy Campbell
Research Institution: University of Chicago
Home Institution: University of California Los Angeles UCLA
Co-Authors: Timothy Campbell, University of Chicago

HU

Dickerson, Edward 3:15 PM, CC-13

Restoration of Joint Motion by rhPRG4 in Mutant Mice that Recapitulate CACP Syndrome in Humans

Research Mentor: Gregory Jay
Research Institution: Brown University
Home Institution: North Carolina A&T State University
Co-Authors: Gregory D. Jay and Ling X. Zhang, Brown University

AB

Dorfeuille, Andy 2:45 PM, CC-15

Biophysical Characterization Of A Redox Deficient Variant in Human Primase

Research Mentor: Walter Chazin
Research Institution: Vanderbilt University
Home Institution: Morehouse College
Co-Authors: Walter J. Chazin and Lauren E. Salay, Vanderbilt University

BB

Dos-Santos, Reinaldo 2:45 PM, CC-21

Investigation of Toughening Mechanisms for Polymer Films

Research Mentor: Yifu Ding
Research Institution: University of Colorado Boulder
Home Institution: Florida Atlantic University
Co-Authors: Yifu Ding, University of Colorado Boulder

EN

Douglas, Raquel 4:45 PM, CC-24

Reimagine: The Effect of the 2015 Houston METRO Network Reform on Access to Public Transit

Research Mentor: Mark Dean
Research Institution: Columbia University
Home Institution: Williams College
Co-Authors: Mark Dean, Columbia University

SS

Dunn, Kameron 3:30 PM, CC-26

Pain and Process: Inexpressibility in the Works of David Foster Wallace

Research Mentor: Mark Algee-Hewitt
Research Institution: Stanford University
Home Institution: Southeastern Oklahoma State University
Co-Authors: Mark Algee-Hewitt, Stanford University

HU

Elliott, Eliza 2:45 PM, CC-24

Loss of Righting Reflex and Alcohol Drinking Behaviors in High and Low Open Field Activity Strains of Mice

Research Mentor: Marissa Ehringer
Research Institution: University of Colorado Boulder
Home Institution: Hollins University
Co-Authors: Marissa Ehringer and Winona Booher, University of Colorado Boulder

SS

Eruaga, Isaiah 3:00 PM, CC-15

Regulation of translesion synthesis polymerases ϵ and κ in response to DNA replication stress

Research Mentor: Tony Huang
Research Institution: New York University
Home Institution: CSU Fullerton
Co-Authors: Tony Huang, New York University

BB

Fausto, Alejandra 3:30 PM, CC-14

Detection of dsRNA by Vaccinia virus E3L protein and Black Beetle virus B2 protein

Research Mentor: Susan Weiss
Research Institution: University of Pennsylvania
Home Institution: CSU Northridge
Co-Authors: Yize Li and Susan Weiss, University of Pennsylvania

AB

Feliciano, Adariana 5:15 PM, CC-17

The Effect of Lactate and Itaconate on Lung Epithelial Cell Metabolism and Function

Research Mentor: Gokhan Mutlu
Research Institution: University of Chicago
Home Institution: UPR-Mayaguez
Co-Authors: Gokhan Mutlu, University of Chicago

BB

Flint, Jade 9:15 AM, CC-26

The art of feasting: a Mesoamerican tradition of communal consumption

Research Mentor: Adriana Greci Green
Research Institution: University of Virginia
Home Institution: Howard University
Co-Authors: Adriana Greci Green, University of Virginia

HU

Franco-Argueta, Kelvin 11:45 AM, CC-23

Entering The World of Electronics

Research Mentor: Nathan Swami
Research Institution: University of Virginia
Home Institution: Old Dominion University
Co-Authors: Swami, University of Virginia

EN

Frazer-Klotz, Zoe 12:00 PM, CC-26

The Effects of waitlisting on Ingroup Association

Research Mentor: Shige Oishi
Research Institution: University of Virginia
Home Institution: Haverford College
Co-Authors: Shige Oishi and Nick Buttrick, University of Virginia

SS

Freeman, Daniel 12:15 PM, CC-16

Early Correlative Analyses of a Melanoma Trial

Research Mentor: Pratip Chattopadhyay
Research Institution: New York University
Home Institution: Clemson University
Co-Authors: Pratip Chattopadhyay and Anabel Miller, New York University

AB

Gardner, Gwen..... **3:15 PM, CC-23**

Shear velocity and attenuation in the Hawaiian region from Rayleigh wave dispersion

Research Mentor: Donald Forsyth
Research Institution: Brown University
Home Institution: Cornell University
Co-Authors: Donald Forsyth and Youyi Ruan, Brown University

ES

Gekow, Alex **3:00 PM, CC-21**

Permanent Ferroelectric Domain Inversion of Submicron Lithium Niobate Thin Film on Substrate

Research Mentor: Hong Tang
Research Institution: Yale University
Home Institution: UMass Amherst
Co-Authors: Hong Tang and Juanjuan Lu, Yale University

PS

Gellineau, Hendryck..... **12:30 PM, CC-14**

Engineering more Efficient Gated CAR T Cell Vectors

Research Mentor: David Scheinberg
Research Institution: Weill Cornell Graduate School
Home Institution: Cornell University
Co-Authors: David Scheinberg and Pedro Silberman, Weill Cornell Graduate School

AB

Gilliam, Nora..... **3:45 PM, CC-14**

Helicobacter Pylori Genetic Adaptation in Response to Gastric Inflammation and Other Environmental Factors

Research Mentor: Timothy Cover
Research Institution: Vanderbilt University
Home Institution: Indiana University Purdue University
Co-Authors: Rhonda R. Caston, Holly M. Algood, M. Blanca Piazzuelo, John T. Loh and Timothy L. Cover, Vanderbilt University

BB

Gladney, Gabriella **10:30 AM, CC-26**

Black Like Me: How Identity Politics have Shaped the Black Vote

Research Mentor: Keisha John
Research Institution: University of Virginia
Home Institution: Spelman College
Co-Authors: Balfour, University of Virginia

SS

Gomez, Andrea..... **12:30 PM, CC-11**

Time-Dependent Role of Gadd45 on Gene Expression and Behavioral Flexibility

Research Mentor: Hongjun Song
Research Institution: University of Pennsylvania
Home Institution: University of Pennsylvania
Co-Authors: Hongjun Song, Guo-li Ming, Kimberly Christian and Yijing Su, University of Pennsylvania

BB

Gomez, Steven..... **10:15 AM, CC-27**

*“A Framework to Think of Ourselves as a Nation”:
Constructing Historical Memory in Colombia*

Research Mentor: Pablo Piccato
Research Institution: Columbia University
Home Institution: Princeton University
Co-Authors: Pablo Piccato, Columbia University

HU

Gonzalez, Caroline **5:45 PM, CC-13**

Rapid Picture Naming using the Mobile Universal Lexicon Evaluation System (MULES) in Parkinson's Patients

Research Mentor: Laura Balcer
Research Institution: New York University
Home Institution: Dartmouth College
Co-Authors: Laura J. Balcer, New York University

AB

Gonzalez, Ivette..... **5:15 PM, CC-13**

Multigenerational Impact of Developmental Nicotine Exposure on HDAC2 Abundance in Striatum and Frontal Cortex in Mice

Research Mentor: Jerry Stitzel
Research Institution: University of Colorado Boulder
Home Institution: San Diego State University
Co-Authors: Heidi C. O'Neill, Jordan M. Buck and Jerry Stitzel, University of Colorado Boulder

BB

Gonzalez Di Tillio, Maria..... **3:00 PM, CC-16**

Characterizing the Role of Adam17 Y42N Mutant in Congenital Heart Disease

Research Mentor: Jose Lora
Research Institution: Weill Cornell Medical College
Home Institution: Harvard University
Co-Authors: Jose Lora and Carl Blobel, Weill Cornell Medical College

BB

Green, Janelle..... **5:45 PM, CC-26**

“O Men of Athens, My Dear Fellow Clergymen”: The Black Apologist in A Whitewashed Genre

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Home Institution: Claflin University
Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Guerra Schleske, Paulina **9:45 AM, CC-11**

Histone Modifications in the Pancreatic Islets of Intrauterine Growth Restricted Rats Modulate Transcription Factor Binding

Research Mentor: Yu-Chin Lien
Research Institution: University of Pennsylvania
Home Institution: Duke University
Co-Authors: Rebecca Simmons, University of Pennsylvania

BB

Gutierrez, Frank **11:15 AM, CC-13***The Role Of Metadata Analysis On Nascent Transcription*

Research Mentor: Robin Dowell

Research Institution: University of Colorado Boulder

Home Institution: CSU Los Angeles

Co-Authors: Robin Dowell, Mary Allen, Ignacio Tripodi and Margaret Gruca, University of Colorado Boulder

BB**Halloran, Dakota** **10:45 AM, CC-27***More Human than Human: Being and the Removal of Artificiality in Blade Runner*

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Home Institution: Community College of Baltimore County

Co-Authors: Natalie Strobach, Johns Hopkins University

HU**Hanna, Cassandra** **5:15 PM, CC-24***The Urban Redevelopment of Pittsburgh's Hill District*

Research Mentor: Andrew Kahrl

Research Institution: University of Virginia

Home Institution: Fisk University

Co-Authors: Andrew Karhl, University of Virginia

HU**Haoud, Caroline** **3:15 PM, CC-15***Investigating The Mechanism Of Histone Chaperone-Dependent RAD51 Loading During DNA Double Strand Break Repair*

Research Mentor: Jessica Tyler

Research Institution: Weill Cornell Medical College

Home Institution: Columbia University

Co-Authors: Faith Fowler and Jessica Tyler, Weill Cornell Graduate School

BB**Harmon, Nia** **11:30 AM, CC-13***Profiling global chromatin proteome and histone post-translational modifications upon knockdown of SWI/SNF via mass spectrometry*

Research Mentor: Benjamin Garcia

Research Institution: University of Pennsylvania

Home Institution: Florida State University

Co-Authors: Benjamin Garcia, Mariel Coradin and Kelly Karch, University of Pennsylvania

BB**Harris, Kennedy** **4:45 PM, CC-12***Characterization of Bacteriophage Lysin PlyKp17 Against Multi-Drug Resistant Klebsiella pneumoniae*

Research Mentor: Vincent Fischetti

Research Institution: Weill Cornell Medical College

Home Institution: Tuskegee University

Co-Authors: Assaf Raz and Vincent Fischetti, Weill Cornell Medical College

AB**Harris, Lauren** **12:00 PM, CC-23***Electrode Modifications for Detecting ATP and Adenosine*

Research Mentor: Barbara Jill Venton

Research Institution: University of Virginia

Home Institution: University of Maryland, Baltimore County

Co-Authors: B. Jill Venton and Jason Borgus, University of Virginia

PS**Harris, Marek** **12:00 PM, CC-17***Identifying novel cancer cell vulnerabilities associated with the mutant splicing factor U2AF1*

Research Mentor: John Ferrarone

Research Institution: Weill Cornell Graduate School

Home Institution: Stanford University

Co-Authors: John Ferrarone and Harold Varmus, Weill Cornell Graduate School

AB**Hassane, Kinaya** **3:45 PM, CC-27***All Art is Propaganda: African American Art Collectors' Role in Mediating the Relationship between Black Art and Liberation Politics*

Research Mentor: Tina Campt

Research Institution: Columbia University

Home Institution: Bowdoin College

Co-Authors: Tina Campt, Columbia University

HU**Hayward-Lara, Gabriela** **3:30 PM, CC-12***BMP Signaling is Lit: Using YFP-tagged BMP receptors to track zebrafish development*

Research Mentor: Mary Mullins

Research Institution: University of Pennsylvania

Home Institution: Princeton University

Co-Authors: Mary Mullins and Benjamin Tajer, University of Pennsylvania

BB**Hernandez, Antonio** **3:15 PM, CC-21***Building a Low-Cost Cosmic Microwave Background Receiver*

Research Mentor: Kamaljeet Saini

Research Institution: University of Virginia

Home Institution: Piedmont Virginia Community College

Co-Authors: Kamaljeet Saini and John Effland, University of Virginia

EN**Hernandez, Kevin** **5:00 PM, CC-12***Determining The Specificity of Human Antibodies That Block H5N1 Avian Influenza Virus Infection*

Research Mentor: Scott Hensley

Research Institution: University of Pennsylvania

Home Institution: North Carolina State University

Co-Authors: Scott Hensley and Tyler Garretson, University of Pennsylvania

AB

Hernandez, Samuel..... 11:45 AM, CC-13

Modeling Epigenetic Heterogeneity and Age for Forensic Testing

Research Mentor: Christopher Mason
Research Institution: Weill Cornell Medical College
Home Institution: Knox College
Co-Authors: Jonathan Foox and Christopher E. Mason, Weill Cornell Medical College

BB

Herran, Keren..... 11:30 AM, CC-22

Using Electronic Health Record Data and Geospatial Census Data to Create Effective Decision Tree Model for Readmission Risk after Orthopedic Surgery

Research Mentor: Jason Moore
Research Institution: University of Pennsylvania
Home Institution: University of Maryland, Baltimore County
Co-Authors: Selah Lynch and Jason Moore, University of Pennsylvania

PS

Hester, Katelynn..... 9:15 AM, CC-27

Chahta Ahaya Moma: Cultural Shifts in the Choctaw Nation During the 18th and 19th Centuries

Research Mentor: Christian McMillen
Research Institution: University of Virginia
Home Institution: Southeastern Oklahoma State University
Co-Authors: Christian McMillen, University of Virginia

HU

Hickman, Mia..... 3:30 PM, CC-27

Get Out of Wakanda: Comparing Black Audience reactions from Black Panther and Get Out

Research Mentor: Gertrude Fraser
Research Institution: University of Virginia
Home Institution: Morgan State University
Co-Authors: Gertrude Fraser, University of Virginia

SS

Hinojo, Andy..... 11:30 AM, CC-12

The Effect of Higher Serum Levels of Endogenous 17Beta-Estradiol on Cerebral Ischemia Injury in Young Cyclic Female Rats

Research Mentor: Ami Raval
Research Institution: University of Miami
Home Institution: Iowa State University
Co-Authors: Ami Raval, University of Miami

BB

Holness, Micah..... 4:00 PM, CC-24

Mindful Awareness Effects on Nicotine Addiction

Research Mentor: Ernestine Jennings
Research Institution: Brown University
Home Institution: Xavier University of Louisiana
Co-Authors: Ernestine Jennings, Shira Dunsiger and Beth Bock, Brown University

SS

Hsu, Jesse..... 11:45 AM, CC-22

Atomic Layer Deposition of Two-Dimensional Silica

Research Mentor: Eric Altman
Research Institution: Yale University
Home Institution: Ithaca College
Co-Authors: Eric Altman, Yale University

EN

Hunter, Chanelle..... 11:45 AM, CC-15

Characterization of Receptor Expression and Aberrant Gli2 Signaling in Osteosarcoma Cells

Research Mentor: Julie Sterling
Research Institution: Vanderbilt University
Home Institution: University of Central Florida
Co-Authors: Julie Sterling and Erik Beadle, Vanderbilt University

AB

Hwang, Jongin..... 5:30 PM, CC-17

Regulation of pancreatic beta-cell function by lipid post-translational modifications (PTMs): Role of ATP sensitive potassium (KATP) channels

Research Mentor: William Coetzee
Research Institution: New York University
Home Institution: University of Georgia
Co-Authors: William Coetzee, Erkan Tuncay and Huaqian Yang, New York University

AB

Ibrahim, Reem..... 5:15 PM, CC-15

Proteomic Analysis of Extracellular Vesicles from Human Bone Marrow-derived Mesenchymal Stem Cells

Research Mentor: Ruhul Abid
Research Institution: Brown University
Home Institution: Smith College
Co-Authors: Ruhul Abid and Karla Braga, Brown University

AB

Ikeokwu, Frances..... 4:00 PM, CC-25

Finding Community: Can Extracurricular Activities Be a Protective Factor for the Mental Health of Students of Color at a Predominantly White Institution?

Research Mentor: Noelle Hurd
Research Institution: University of Virginia
Home Institution: Edward Waters College
Co-Authors: Noelle Hurd, Jamie Albright and Audrey Wittrup, University of Virginia

SS

Irwin, Laura..... 2:45 PM, CC-26

What Honour For The Female Sex: Representations Of Women's Power And Influence In The Luttrell Psalter

Research Mentor: Christopher Baswell
Research Institution: Columbia University
Home Institution: Saint Edward's University
Co-Authors: Christopher Baswell, Columbia University

HU

Jackson, Amber **2:45 PM, CC-22**

Optimizing Norbornene Functionalized Hyaluronic Acid ElectroSpinning

Research Mentor: Beverly Miller
Research Institution: University of Virginia
Home Institution: George Mason University
Co-Authors: Beverly Miller and Steven Calari, University of Virginia

EN

Jackson, Katelyn **5:00 PM, CC-11**

Antibiotic-Induced Changes in the Early Life Microbiota Composition and Susceptibility to Asthmatic Disease

Research Mentor: Martin Blaser
Research Institution: New York University
Home Institution: Mississippi State University
Co-Authors: Martin Blaser, Timothy Borbet and Timothy Maher, New York University

BB

Jackson, Katelyn **12:00 PM, CC-21**

The Orbital Dynamics of Exosolar Planets

Research Mentor: Phillip Arras
Research Institution: University of Virginia
Home Institution: Spelman College
Co-Authors: Phillip Arras, University of Virginia

PS

Jacobs, Malek **10:00 AM, CC-11**

Investigating the Role of BVES in Intestinal Wound Healing

Research Mentor: Yash Choksi
Research Institution: Vanderbilt University
Home Institution: Cornell University
Co-Authors: Yash Choksi and Christopher S. Williams, Vanderbilt University

BB

Jalloh, Mariama **3:15 PM, CC-25**

Please Don't Cut Me: The Psychological Effects of Female Genital Mutilation

Research Mentor: Dr. Denise Walsh
Research Institution: University of Virginia
Home Institution: Spelman College
Co-Authors: Denise Walsh, University of Virginia

SS

Jarrett, Isria **5:30 PM, CC-16**

Characterization of Novel Clostridium difficile Virulence Targets: A Structural Biology Approach

Research Mentor: D. Borden Lacy
Research Institution: Vanderbilt University
Home Institution: Belmont University
Co-Authors: D. Borden Lacy and Heather Kroh, Vanderbilt University

BB

Jean, Erin **11:15 AM, CC-11**

Identification and Annotation of Pathogenic Gene Variants with Possible Implementation in High Functioning Autism Spectrum Disorder

Research Mentor: Maya Bucan
Research Institution: University of Pennsylvania
Home Institution: Hampton University
Co-Authors: Jing Zhang, Lars Anderson and Maja Bucan, University of Pennsylvania

BB

Jean-Pierre, Makheni **3:30 PM, CC-11**

The Role of CtBP2 in Mediating Bcl-xL Promotion of Metastasis

Research Mentor: Yi-Chieh Nancy Du
Research Institution: Weill Cornell Medical College
Home Institution: SUNY Stony Brook
Co-Authors: Yi-Chieh Nancy Du and Tiantian Zhang, Weill Cornell Medical College

AB

Jeewajee, Swarna **12:00 PM, CC-15**

Transcriptional Determinants of L-Asparaginase Response in Leukemia

Research Mentor: Robert Williams
Research Institution: Weill Cornell Medical College
Home Institution: Massachusetts Institute of Technology
Co-Authors: Kivanc Birsoy and Robert Williams, Weill Cornell Medical College

BB

Jenkins Taylor, Vashti **10:00 AM, CC-26**

My Experience Learning to Curate Art featuring "Empty Eyes: An Analysis of the 'Death Eye' Motif in Pottery and Hieroglyphs"

Research Mentor: ADRIANA GRECI GREEN
Research Institution: University of Virginia
Home Institution: Florida A&M University
Co-Authors: Adriana Greci Green, University of Virginia

HU

Jeronimo, Carlos **5:15 PM, CC-11**

The Role Of Cofilin Mediated F-Actin Clearance at the Immunological Synapse Upon T-Cell Activation

Research Mentor: Morgan Huse
Research Institution: Weill Cornell Graduate School
Home Institution: Lehman College CUNY
Co-Authors: Morgan Huse and Elisa Sanchez, Weill Cornell Graduate School

BB

Ji, Jonathan **11:30 AM, CC-24**

Cruising Churches: Queer World-Making within Christianity

Research Mentor: Erica Robles-Anderson

Research Institution: New York University

Home Institution: New York University

Co-Authors: Erica Robles Anderson, New York University
HU

Johnson, Jafira **2:45 PM, CC-11**

Investigating Mechanisms of Action of a Novel Nucleoside Analog to Treat PEL and Pancreatic Adenocarcinoma.

Research Mentor: Ethel Cesarman

Research Institution: Weill Cornell Graduate School

Home Institution: University of Maryland, Baltimore County

Co-Authors: Ethel Cesarman and Joulana Sadek, Weill Cornell Graduate School

BB

Johnson, Jaleese **3:15 PM, CC-27**

How I See Myself: Black Women's Instagram Usage and Body Image

Research Mentor: Shanta Robinson

Research Institution: University of Chicago

Home Institution: Xavier University of Louisiana

Co-Authors: Shanta Robsinson, University of Chicago

SS

Jones, Erielle **11:45 AM, CC-24**

Faith Vision of Capital: Amiliorating White Debt in Multicultural Churches

Research Mentor: Tony Tian-Ren Lin

Research Institution: University of Virginia

Home Institution: University of Missouri-Columbia

Co-Authors: Tony Tian-Ren Lin, University of Virginia

SS

Karabinas, Isabella **9:45 AM, CC-12**

The Effects of Chronic Stress on Effort Valuation and Glutamatergic Signaling

Research Mentor: Puja Parekh

Research Institution: Weill Cornell Medical College

Home Institution: Oregon State University

Co-Authors: Puja Parekh, Weill Cornell Medical College;

Jonathan Witztum, Weill Cornell Graduate School;

Conor Liston, Weill Cornell Medical College

AB

Karod, Madeline **3:30 PM, CC-23**

Spatial Investigation of Atmospheric Ammonia and Ammonium Dynamics in Providence, RI

Research Mentor: Meredith Hastings

Research Institution: Brown University

Home Institution: Simmons College

Co-Authors: Meredith Hastings and Wendell Walters, Brown University

ES

Kattoura, Nicholas **11:30 AM, CC-26**

Resisting Victimhood: Demystifying the Western Opposition to Leila Khaled's Armed Insurgency

Research Mentor: Paula Chakravartty

Research Institution: New York University

Home Institution: Oberlin College

Co-Authors: Paula Chakravartty, New York University
HU

Keita, Nasitta **3:45 PM, CC-25**

Natural Mentorship, Racial Identity, and Positive Youth Development: How Extended and Fictive Kin Teach Black Adolescents About Race

Research Mentor: Noelle Hurd

Research Institution: University of Virginia

Home Institution: University of Wisconsin Madison

Co-Authors: Noelle Hurd, Janelle Billingsley and Audrey Wittrup, University of Virginia

SS

Khalid, Mohammed **11:15 AM, CC-26**

Mass Media's Ideology of Middle Eastern Terror and the Impossibility of the Individual

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Home Institution: Community College of Baltimore County

Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Khalizova, Nailya **3:30 PM, CC-13**

Determining the Signaling Pathways in Endothelial Dysfunction During Cerebral Malaria

Research Mentor: Ana Rodriguez

Research Institution: New York University

Home Institution: Hunter College

Co-Authors: Ana Rodriguez and Marisol Zuniga, New York University

BB

Khan, Asma **10:00 AM, CC-27**

Colonial Pinball: The Impossibility of a National Identity in Pachinko

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Home Institution: Community College of Baltimore County

Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Kijakazi, Dalia **12:15 PM, CC-25**

Beyond the Jade: Celts in Mesoamerica

Research Mentor: Adriana Greci-Green

Research Institution: University of Virginia

Home Institution: Spelman College

Co-Authors: Adriana Greci Green, University of Virginia

HU

Knight, Rayshawn..... 9:15 AM, CC-13

Structure and Dynamics of the HIV-1 Capsid-SP1 Junction Helix

Research Mentor: Mike Summers
 Research Institution: University of Maryland, Baltimore County
 Home Institution: Western Carolina University
 Co-Authors: Carly Sciandra, Arthur Chinery, Hana Flores and Emily Cannistraci, University of Maryland, Baltimore County

PS

Krikorian, Georgia..... 4:45 PM, CC-14

Group II mGluR Modulation in Psychiatric Disorders

Research Mentor: Joshua Levitz
 Research Institution: Weill Cornell Medical College
 Home Institution: Smith College
 Co-Authors: Joshua Levitz and Vanessa Gutzeit, Cornell University

AB

Lane, Amanda..... 10:15 AM, CC-26

The Colima Dog Effigy: Companion in Life and Death

Research Mentor: Adriana Greci Green
 Research Institution: University of Virginia
 Home Institution: Whittier College
 Co-Authors: Adriana Greci-Green, University of Virginia

HU

LaRiccia, Dante..... 12:30 PM, CC-25

Fortunes and Tellers: Bank Speculation, the Public, and the Baltimore Riots of 1835

Research Mentor: Daniel Jütte
 Research Institution: New York University
 Home Institution: New York University
 Co-Authors: Dante LaRiccia and Daniel Jutte, New York University

HU

Laurore, Emily..... 11:15 AM, CC-27

How did the Structure of WHO Impede Its Response to the Ebola Outbreak in 2014 and Has It Improved Since?

Research Mentor: Keisha John
 Research Institution: University of Virginia
 Home Institution: Spelman College
 Co-Authors: Michael Smith, University of Virginia

PE

Lawrence, Aliana..... 3:45 PM, CC-17

Defining the Associations Between Lifestyle Factors and Colorectal Cancer Risk in the Southern Community Cohort Study

Research Mentor: Shaneda Warren Andersen
 Research Institution: Vanderbilt University
 Home Institution: Spelman College
 Co-Authors: Shaneda Warren Andersen, Vanderbilt University

AB

Lerch, Cameron..... 3:00 PM, CC-22

Encoding Multidirectional Memory in Sheared Amorphous Solids

Research Mentor: Corey O'Hern
 Research Institution: Yale University
 Home Institution: Missouri University of Science & Technology
 Co-Authors: Corey O'Hern and Meng Fan, Yale University

PS

Lojano, Andres..... 10:00 AM, CC-12

Inflammation and White Matter Degeneration after Traumatic Brain Injury in Swine

Research Mentor: Michael Grovola
 Research Institution: University of Pennsylvania
 Home Institution: Hunter College
 Co-Authors: Michael Grovola and Kacy Cullen, University of Pennsylvania

AB

Luck, Cuyler..... 11:15 AM, CC-16

Quantifying minimal residual disease in breast cancer dormancy

Research Mentor: Lewis Chodosh
 Research Institution: University of Pennsylvania
 Home Institution: Pennsylvania State University
 Co-Authors: Lewis Chodosh, Francesco Marino, Joe Kim, Amulya Sreekumar and George Belka, University of Pennsylvania

BB

Lund, Ethen..... 12:15 PM, CC-23

Developing Ni-based Bulk Metallic Glasses for Additive Manufacturing

Research Mentor: Jan Schroers
 Research Institution: Yale University
 Home Institution: Pomona College
 Co-Authors: Sungwoo Sohn and Jan Schroers, Yale University

EN

Lysandrou, Maria..... 11:30 AM, CC-14

MRI Image Analysis of Prostate Cancer By Using Deep Learning

Research Mentor: Pegah Khosravi
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Chicago
 Co-Authors: Iman Hajirasouliha and Pegah Khosravi, Weill Cornell Graduate School; Bilal Chughtai, Weill Cornell Medical College

AB

Macias, Alejandro 5:45 PM, CC-17

A Metabolic Feedback Loop in Adipocytes Sustains Glucose Homeostasis in Females

Research Mentor: Kathryn Wellen
Research Institution: University of Pennsylvania
Home Institution: CSU Northridge
Co-Authors: Sully Fernandez, John Viola, AnnMarie Torres, Sophie Trefely and Martina Wallace, University of Pennsylvania

BB

Maltos, Elena 9:45 AM, CC-13

Underrepresented and Overlooked: The Civil and Social Consequences of Felony Disenfranchisement in the Latino Community

Research Mentor: Claudrena Harold
Research Institution: University of Virginia
Home Institution: Heritage University
Co-Authors: Claudrena Harold, University of Virginia

HU

Manz, Samantha 9:00 AM, CC-27

Cartography of Struggle: Mapping Settler Colonialism and Gendered Violence Against Indigenous Women

Research Mentor: Celia Naylor
Research Institution: Columbia University
Home Institution: Macalester College
Co-Authors: Celia Naylor, Columbia University

HU

Marmol, Yorkiris 11:30 AM, CC-11

Single-neuron Responses to Body Movement in the Macaque Ventral Visual Pathway

Research Mentor: Ben Deen
Research Institution: Weill Cornell Medical College
Home Institution: Vassar College
Co-Authors: Ben Deen, Cornell University

BB

Martinez, Cristian 3:30 PM, CC-21

Synthesis and Characterization of Pro-Pro-Gly and Pro-Pro-azGly Collagen Model Peptides

Research Mentor: David Chenoweth
Research Institution: University of Pennsylvania
Home Institution: UPR-Rio Piedras
Co-Authors: David Chenoweth, Alexander Kasznel and Samuel Melton, University of Pennsylvania

PS

Matthews, Grace 5:45 PM, CC-22

The Effect of the Substrate on the MoS₂ Catalyzed Hydrogen Evolution Reaction

Research Mentor: Judy Cha
Research Institution: Yale University
Home Institution: North Carolina State University
Co-Authors: Josh Pondick, David Hynek and Judy Cha, Yale University

EN

Mazariegos, Eric 9:30 AM, CC-26

Personages Replete With Preciousness: Synthesis, Stylization, and Application of Olmec and Maya Feather Iconography

Research Mentor: Terrence D'Altroy
Research Institution: Columbia University
Home Institution: University of California Los Angeles UCLA
Co-Authors: Terence N. D'Altroy, Columbia University

HU

McDuffie, Joshua 3:45 PM, CC-23

Experimental study on the seismic response of embankments on liquefiable soils improved with stone columns

Research Mentor: Shideh Dashti
Research Institution: University of Colorado Boulder
Home Institution: North Carolina A&T State University
Co-Authors: Juan Carlos Tiznado and Shideh Dashti, University of Colorado Boulder

EN

McElroy, Asha 10:15 AM, CC-12

The Impact of the Orexin System on Inflammatory Markers in a Binge Study

Research Mentor: Kimberli Richardson
Research Institution: Howard University
Home Institution: North Carolina A&T State University
Co-Authors: Kimberlei A. Richardson, Dexter L. Lee and Uthayathas Subramaniam, Howard University

AB

McKinney, Jessica 12:00 PM, CC-25

When Flesh is Remembered: A History of Trophies.

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Home Institution: Community College of Baltimore County
Co-Authors: Natalie Strobach, Johns Hopkins University

HU

McManus, Collin 5:15 PM, CC-12

Investigating the Role of Mammalian Cell Entry Proteins in Bacterial Lipid Transport

Research Mentor: Damian Ekiert
Research Institution: New York University
Home Institution: Rutgers University
Co-Authors: Damian Ekiert and Georgia Isom, New York University

BB

McNish, Brianna 3:45 PM, CC-26

"Say Make Me, Remake Me": Disembodied Selfhood in Toni Morrison's Jazz

Research Mentor: Herman Beavers
Research Institution: University of Pennsylvania
Home Institution: University of Connecticut
Co-Authors: Herman Beavers, University of Pennsylvania

HU

Mekbib, Hannah Mariam.....5:45 PM, CC-16

The Last Frontier: Chemical Exchange Effects On NMR Spectroscopy

Research Mentor: Arthur Palmer
Research Institution: Columbia University
Home Institution: Boston University
Co-Authors: Arthur Palmer, Columbia University
BB

Melder, Theodore 12:00 PM, CC-22

Optimization of Diethylation for Enhancing cPILOT Workflow

Research Mentor: Renā Robinson
Research Institution: Vanderbilt University
Home Institution: Xavier University of Louisiana
Co-Authors: Renā Robinson and David Vassallo, Vanderbilt University
PS

Mendoza, Alicia.....3:45 PM, CC-16

Identifying a Role for Soluble Guanylyl Cyclases during Nitric Oxide-Mediated Stress Response in C. elegans

Research Mentor: Evgeny Nudler
Research Institution: New York University
Home Institution: Ohio State University
Co-Authors: Evgeny Nudler and Manjunath Gowder, New York University
BB

Mercado, Nathan5:30 PM, CC-11

Interferon-Stimulated Gene ELF-1 Initiates Innate Antiviral Response in Eukaryotic Cells

Research Mentor: Meike Dittmann
Research Institution: New York University
Home Institution: UC Riverside
Co-Authors: Meike Dittmann and Clara Si, New York University
AB

Mercedes, Marquisele4:00 PM, CC-17

Word of Mouth: Social Influence and Medicare Advantage Plan Enrollment Decisions

Research Mentor: Ira Wilson
Research Institution: Brown University
Home Institution: Hunter College
Co-Authors: Maricruz Rivera-Hernandez and Ira Wilson, Brown University
AB

Miller, Michelle.....3:45 PM, CC-24

An Analysis of Mock Training Session as a Predictor of Motion Artifacts in fMRI Scans of Young Children

Research Mentor: Jessica Connelly
Research Institution: University of Virginia
Home Institution: Fairfield University
Co-Authors: James Morris, University of Chicago; Jessica Connelly and Amalia McDonald, University of Virginia
SS

Mitchell-Velasquez, Erick..... 12:30 PM, CC-16

The Role of CDK7 in Transcription Regulation in Prostate Cancer

Research Mentor: Irfan Asangani
Research Institution: University of Pennsylvania
Home Institution: CSU Northridge
Co-Authors: Irfan Asangani, Qu Deng, Reyaz ur Rasool and Ramakrishnan Natesan, University of Pennsylvania
AB

Montelongo, Javier3:30 PM, CC-15

Identification of Factors Which Regulate Long Non-coding RNA Binding to Chromatin in Drosophila.

Research Mentor: Maya Capelson
Research Institution: University of Pennsylvania
Home Institution: California Lutheran University
Co-Authors: Maya Capelson, University of Pennsylvania
BB

Montes, Christian5:45 PM, CC-23

The Extension of Imaging by Integrating Stitched Spectrograms

Research Mentor: Gregory Beylkin
Research Institution: University of Colorado Boulder
Home Institution: CSU Stanislaus
Co-Authors: Dan Adams, University of Colorado Boulder
PS

Moore, Kelsey5:00 PM, CC-27

Silhouette of Sandscapes: Envisioning the Grit of Black Womanhood During the Great Migration

Research Mentor: Jennifer Morgan
Research Institution: New York University
Home Institution: New York University
Co-Authors: Jennifer Morgan, New York University
HU

Morales, Jasmin 9:30 AM, CC-23

The Lost Ochoas: Social Class and STEM Persistence at an Elite University

Research Mentor: Anthony Jack
Research Institution: Harvard University
Home Institution: UC Santa Barbara
Co-Authors: Anthony Jack, Harvard University
SS

Moreno-Flores, Omar 12:00 PM, CC-13

Modeling the Lymphoid Populations in the Bone Marrow

Research Mentor: Julie Sterling
Research Institution: Vanderbilt University
Home Institution: Heritage University
Co-Authors: Julie Sterling and David Florian, Vanderbilt University
AB

Moss, Marissa.....4:45 PM, CC-27

“The Negro harlot:” Examining the Racial Dimensions of Policing in the Historic Vice Districts of Chicago (1920-1940)

Research Mentor: Christopher Todd
Research Institution: University of Chicago
Home Institution: Indiana University-Bloomington
Co-Authors: Christopher Todd, University of Chicago
HU

Musleh, Aya.....5:00 PM, CC-14

Analysis of Dendritic Spines in Cerebellar Purkinje Cells and Neocortical Pyramidal Cells in a Mouse Model of Autism

Research Mentor: Christian Hansel
Research Institution: University of Chicago
Home Institution: University of Redlands
Co-Authors: Dana H. Simmons, Daniel F. Gill and Christian Hansel, University of Chicago
BB

Nandar, PwintPhyu.....3:45 PM, CC-21

Investigating the Vapor Intrusion Issue: Developing an Active and Fast Air Sampling Method for Chlorinated Solvents

Research Mentor: Eric Suuberg
Research Institution: Brown University
Home Institution: University of California Los Angeles UCLA
Co-Authors: Mengke Zhang, Zachary Saleeba and Eric Suuberg, Brown University
ES

Negi, Sonakshi.....5:45 PM, CC-25

How Beginning Teachers’ Experiences with Teacher Evaluation Seem To Affect their Teaching Self-Efficacy and Fit with their Schools?

Research Mentor: Peter Youngs
Research Institution: University of Virginia
Home Institution: George Mason University
Co-Authors: Peter Youngs, University of Virginia
SS

Negri, Alberta.....4:45 PM, CC-11

Exploring the Mediators Between Incarceration and STI/HIV Prevalence

Research Mentor: Maria Khan
Research Institution: New York University
Home Institution: University of Cincinnati
Co-Authors: Maria Khan, MacRegga Severe, Joy Scheidell and Kailyn Pearce, New York University
AB

Nesper, Jonathan4:00 PM, CC-21

Control of Te Vacancies in Mo1-xWxTe2 Crystals

Research Mentor: Despina Louca
Research Institution: University of Virginia
Home Institution: University of Central Florida
Co-Authors: Despina Louca and John Schneeloch, University of Virginia
PS

Newsome, Emmanuel.....5:15 PM, CC-23

X-Ray Spectral Extraction for Stripe 82 Survey

Research Mentor: Meg Urry
Research Institution: Yale University
Home Institution: University of Maryland, Baltimore County
Co-Authors: Meg Urry and Tonima Ananna, Yale University
PS

Nguyen, David.....9:45 AM, CC-23

Addressing the Leaky Pipeline: An Outcome Evaluation of the Community College to PhD Scholars Program

Research Mentor: Shanta Robinson
Research Institution: University of Chicago
Home Institution: University of California Los Angeles UCLA
Co-Authors: Shanta Robinson, University of Chicago
SS

Nguyen, Kimberly5:30 PM, CC-15

Using reporter assays and CRISPR-Cas9 editing to investigate causality of SNPs associated with gene expression in induced pluripotent stem cells

Research Mentor: Yoav Gilad
Research Institution: University of Chicago
Home Institution: New York University
Co-Authors: Yoav Gilad and Kenneth Barr, University of Chicago
BB

Nociari, Juliana.....5:30 PM, CC-12

Kinetic Analysis of Mycobacterium Tuberculosis Proteasome Inhibitors

Research Mentor: Gang Lin
Research Institution: Weill Cornell Graduate School
Home Institution: New York University
Co-Authors: Gang Lin, Wenhui Zhan and Carl Nathan, Weill Cornell Graduate School
BB

Noor, Mahlaqua10:15 AM, CC-11

To Die or Not To Die: Investigating Cytokine-Mediated Cell Death of Intestinal Organoids

Research Mentor: Ken Cadwell
Research Institution: New York University
Home Institution: Jacobs University Bremen
Co-Authors: Jessica Neil, Yu Matsuzawa-Ishimoto and Ken Cadwell, New York University
BB

Norman Ing, Nainoa.....3:15 PM, CC-22

Total Synthesis of Paecilomycine A

Research Mentor: Steven Townsend
Research Institution: Vanderbilt University
Home Institution: Chaminade University of Honolulu
Co-Authors: Steven Townsend and Johnny Nguyen, Vanderbilt University
PS

Olais, Jose 5:30 PM, CC-25

Classroom Composition: The Importance of Classroom Engagement and Feelings of Supportiveness in ELL students.

Research Mentor: Sara Rimm-Kaufman
Research Institution: University of Virginia
Home Institution: Northern Arizona University
Co-Authors: Sara Rimm-Kaufman and Ashley Hunt,
University of Virginia

SS

Olivieri, Joseph 11:30 AM, CC-27

Typhoid Fever Vaccination in the Early 20th Century American Military

Research Mentor: Robert Aronowitz
Research Institution: University of Pennsylvania
Home Institution: San Diego State University
Co-Authors: Robert Aronowitz and Sara Ray, University of
Pennsylvania

HU

Omar, Javier 3:30 PM, CC-24

Examination of Physiological Measures of Stress in a Healthy Cohort

Research Mentor: Michael Platt
Research Institution: University of Pennsylvania
Home Institution: Emory University
Co-Authors: Arjun Ramakrishnan and Michael Platt,
University of Pennsylvania

SS

Ortega, Yohaniz 11:45 AM, CC-12

Uncovering Molecular Mechanism Underlying Pontocerebellar Hypoplasia

Research Mentor: Naiara Aquizu
Research Institution: Johns Hopkins University
Home Institution: UPR-Humacao
Co-Authors: Marco Flores and Naiara Aquizu, University of
Pennsylvania

AB

Ortiz Alvarez de la Campa, Melanie 2:45 PM, CC-17

Impact of the Host Metabolism on Bacterial Antibiotic Responses

Research Mentor: Peter Belenky
Research Institution: Brown University
Home Institution: UPR-Rio Piedras
Co-Authors: Peter Belenky and Jenna Wurster, Brown
University

AB

Osea-Boaman, Karen 2:45 PM, CC-14

Synthetic Transcription Factors to Alter DNA Methyltransferase 3 Beta Expression Levels

Research Mentor: Garrett Kaas
Research Institution: Vanderbilt University
Home Institution: Xavier University of Louisiana
Co-Authors: Garrett Kaas and David Sweatt, Vanderbilt
University

BB

Otero Gonzalez, Estrella 3:00 PM, CC-11

T-Cell-Based Immunotherapy in Brain Tumors

Research Mentor: Yi Fan
Research Institution: University of Pennsylvania
Home Institution: UPR-Rio Piedras
Co-Authors: Yi Fan and Yanling Wang, University of
Pennsylvania

AB

Pacheco, Marguerite 3:15 PM, CC-16

Cardiomyocyte Mechanotransduction Pathway Response to Dynamic Stimulation

Research Mentor: Kenneth Margulies
Research Institution: University of Pennsylvania
Home Institution: Smith College
Co-Authors: Kenneth Margulies and Alexia Vite, University of
Pennsylvania

AB

Paniccia, Gabrielle 3:45 PM, CC-13

Investigating the role of S-adenosylmethionine synthetase enzyme in growth and sexual differentiation of malaria parasites

Research Mentor: Björn Kafsack
Research Institution: Weill Cornell Graduate School
Home Institution: SUNY Stony Brook
Co-Authors: Chantal Harris and Björn Kafsack, Weill Cornell
Graduate School

BB

Paramo, Carlos 12:15 PM, CC-27

Competition and Innovation: Drug Discovery in the Pharmaceutical Industry

Research Mentor: Gaurab Aryal
Research Institution: University of Virginia
Home Institution: UC Berkeley
Co-Authors: Gaurab Aryal and Katya Khmel'nitskaya,
University of Virginia

SS

Parker, Sarah 10:15 AM, CC-23

Conservative Philanthropy and Higher Education: The Role of the Philanthropy Roundtable

Research Mentor: Timmons Roberts
Research Institution: Brown University
Home Institution: University of Central Florida
Co-Authors: J. Timmons Roberts and Robert Brulle, Brown
University

SS

Patterson, Samuel 10:00 AM, CC-23

Evaluating The Effect of the District Primary Education Program On Indian Education

Research Mentor: Emmerich Davies
Research Institution: Harvard University
Home Institution: University of Maryland, Baltimore County
Co-Authors: Emmerich Davies, Fernanda Ramirez-Espinoza,
Francisco Lagos and Sophie Litschwartz, Harvard
University

SS

Paucar, Yoselin..... **12:15 PM, CC-17**

Evaluating the Metabolic Function of STAT3 in a Non-Small Cell Lung Cancer Model

Research Mentor: David Levy
Research Institution: New York University
Home Institution: John Jay College of Criminal Justice CUNY
Co-Authors: David Levy and Lara Brambilla, New York University

AB

Pena, Isabel..... **5:30 PM, CC-24**

The New O.C.: Race, Space and Immigration in Postsuburban California

Research Mentor: Lisa McGirr
Research Institution: Harvard University
Home Institution: Williams College
Co-Authors: Lisa McGirr, Harvard University

HU

Perez Torres, Melina **5:45 PM, CC-12**

Chronic Pain in Drosophila: Effects on Sleep and Circadian Rhythms

Research Mentor: Amita Sehgal
Research Institution: University of Pennsylvania
Home Institution: UPR-Rio Piedras
Co-Authors: Julie Williams and Amita Sehgal, University of Pennsylvania

BB

Ponce de Leon, Maria Luisa..... **4:00 PM, CC-23**

The Utility Of Near Shore Sediment Composition As An Indicator Of Coastal Eutrophication And Of Coastal Restoration Success Case Study Of Card Sound

Research Mentor: Kathleen Sullivan Sealey
Research Institution: University of Miami
Home Institution: San Jose State University
Co-Authors: Kathleen Sealey, Caitlin Camarena, Krystle Young and Jacob Patu, University of Miami

ES

Posada, Luisa **3:45 PM, CC-11**

Exosome-mediated crosstalk between tumor cells and lymphatic endothelial cells

Research Mentor: Melody Swartz
Research Institution: University of Chicago
Home Institution: University of Florida
Co-Authors: Lea Maillat, University of Chicago

BB

Posadas, Rebekah..... **10:30 AM, CC-12**

Long-term effects of neonatal injury on the development of primary afferents

Research Mentor: Gordon Barr
Research Institution: University of Pennsylvania
Home Institution: CSU San Bernardino
Co-Authors: Wenqin Luo and Gordon Barr, University of Pennsylvania

BB

Pruitt, Kimara..... **5:15 PM, CC-21**

Protoplanetary Disk Simulation

Research Mentor: Shane Davis
Research Institution: University of Virginia
Home Institution: Spelman College
Co-Authors: Shane Davis, University of Virginia

PS

Qualls, Anita **4:00 PM, CC-11**

Elucidating the Functional Impact of the p.E1099K Mutation on NSD2 Isoforms in Driving Pediatric Acute Lymphoblastic Leukemia Relapse

Research Mentor: William Carroll
Research Institution: New York University
Home Institution: University of Georgia
Co-Authors: William Carroll and Jason Saliba, New York University

AB

Ramirez, Jennifer **5:30 PM, CC-23**

A comparison of beamforming techniques for biomedical ultrasound

Research Mentor: Kenneth Bader
Research Institution: University of Chicago
Home Institution: UPR-Mayaguez
Co-Authors: Kenneth Bader and Samuel Hendley, University of Chicago

EN

Ramos-Jordan, Katerina..... **5:45 PM, CC-24**

Hungry to Belong: Rethinking the Puerto Rican Body Within the Streets of El Barrio

Research Mentor: Leticia Alvarado
Research Institution: Brown University
Home Institution: UPR-Rio Piedras
Co-Authors: Leticia Alvarado, Brown University

HU

Ranjbaran, Ali..... **12:15 PM, CC-15**

Gene Expression Analysis of Acute Myeloid Leukemia

Research Mentor: Aris Tsirigos
Research Institution: New York University
Home Institution: West Virginia University
Co-Authors: Aristotelis Tsirigos and Alireza Khodadadi-Jamayran, New York University

AB

Reese, Asia..... **2:45 PM, CC-27**

Gazing at Moonlight: An Analysis of Black Queer Representation and Spectatorship in Moonlight

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Home Institution: Spelman College
Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Renald, Savanha..... 11:45 AM, CC-27

"I can't Breathe": How the Prison Industrial Complex Contributes to Toxic Air Pollution"

Research Mentor: Omar McRoberts
 Research Institution: University of Chicago
 Home Institution: University of Florida
 Co-Authors: Omar McRoberts, University of Chicago
SS

Rex, Madison 11:30 AM, CC-16

Effects of Evi1 expression on cell of origin-specific responses of AML cells to treatment

Research Mentor: Sheng Cai
 Research Institution: Weill Cornell Medical College
 Home Institution: University of Texas at Austin
 Co-Authors: Sheng Cai and Ross Levine, Weill Cornell Medical College
BB

Reyes Gallegos, Elizabeth 11:15 AM, CC-12

Is Boldness a Predictor of Anti-predatory Behavior in Barn Swallows?

Research Mentor: Angela Medina-García
 Research Institution: University of Colorado Boulder
 Home Institution: CSU Monterey Bay
 Co-Authors: Angela Medina-García and Rebecca Safran, University of Colorado Boulder
BB

Riley, Ciairra 3:00 PM, CC-14

Characterization of the Protein-RNA Interactions that Nucleate the HIV-1 Virus Assembly

Research Mentor: Michael Summers
 Research Institution: University of Maryland, Baltimore County
 Home Institution: CSU Long Beach
 Co-Authors: Michael Summers and Pengfei Ding, University of Maryland, Baltimore County
BB

Rivera-Fuentes, Nicole 3:45 PM, CC-12

Role Of Akt Signaling In Regulation Of Fiber Type Switch In Skeletal Muscle

Research Mentor: Paul Titchenell
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Paul Titchenell and Natasha Jaiswal, University of Pennsylvania
BB

Roach, Tiffany 5:15 PM, CC-14

Analysis of Global Changes in Brain Histone Post-Translation Modifications Following Rat THC Self-Administration

Research Mentor: Elizabeth Heller
 Research Institution: University of Pennsylvania
 Home Institution: Stockton University
 Co-Authors: Ajinkya Sase, Benjamin Garcia and Elizabeth Heller, University of Pennsylvania
AB

Robbins, Charles 11:45 AM, CC-16

Drug Resistance and Cell Death Mechanisms of Nonquiescent "Idling" Population State in BRAF-Mutated Melanoma

Research Mentor: Vito Quaranta
 Research Institution: Vanderbilt University
 Home Institution: Florida State University
 Co-Authors: Vito Quaranta, Corey Hayford and Bishal Paudel, Vanderbilt University
BB

Robertson, Victoria 12:00 PM, CC-27

Black Sanity: Understanding Mental Health Diagnoses Post-Emancipation

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Dillard University
 Co-Authors: Natalie Strobach, Johns Hopkins University
HU

Robusto, Brian 12:00 PM, CC-16

Keap1 Mutation Leads to Immunosuppression via Metabolic Interaction in Kras Driven Non-Small Cell Lung Cancer

Research Mentor: Thales Papagiannakopoulos
 Research Institution: New York University
 Home Institution: University of Florida
 Co-Authors: Thales Papagiannakopoulos, Anastasia-Maria Zavitsanou, Ray Pillai and Sergei Koralov, New York University
BB

Rodríguez, Eric 4:00 PM, CC-12

Understanding Mechanisms of CARD19-Dependent Cell Death

Research Mentor: Igor Brodsky
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Ponce
 Co-Authors: Elisabet Bjanés and Igor Brodsky, University of Pennsylvania
BB

Rodríguez-Villafañe, Andrea 3:00 PM, CC-17

Evaluation of the Anti-parasitic Effect of P. falciparum Specific Murine Antibodies In Vitro

Research Mentor: Jonathan Kurtis
 Research Institution: Brown University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Alok Das Mohapatra, Anup Jnawali, Dipak Raj and Jonathan Kurtis, Brown University
AB

Roebke, Gwendalynn 12:15 PM, CC-22

Propagation of Light through Turbid Media

Research Mentor: Rafael Piestun
 Research Institution: University of Colorado Boulder
 Home Institution: University of Colorado Boulder
 Co-Authors: Rafael Piestun, University of Colorado Boulder
EN

Roehr, Gabrielle 9:45 AM, CC-26
Rebuilding Rome: Power, Propaganda, and the Past in the Age of Augustus
 Research Mentor: Michael Peachin
 Research Institution: New York University
 Home Institution: New York University
 Co-Authors: Michael Peachin, New York University
 HU

Rosado-González, Gabriela..... 2:45 PM, CC-12
Rapid Production of Bispecific Antibody for T-cell Recruitment to EGFR Tumor Hallmark.
 Research Mentor: Andrew Tsourkas
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Andrew Tsourkas, University of Pennsylvania
 AB

Rosario, Derick 12:30 PM, CC-17
Mechanisms and Consequences of Epithelial-Mesenchymal Plasticity in Pancreatic Cancer
 Research Mentor: Ben Stanger
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Ben Stanger and Robert Norgard, University of Pennsylvania
 BB

Rosen, Mikaela 12:15 PM, CC-13
Single-Cell RNA-Seq Data Analysis of Dendritic Cells in Mice and Humans
 Research Mentor: Christina Leslie
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Richmond
 Co-Authors: Christina Leslie, Han Yuan and Yuri Pritykin, Weill Cornell Graduate School
 AB

Ross, Charles..... 3:00 PM, CC-27
Blaxploitation in 21st Century Collegiate Athletics: An Analysis of the Effects of Controlling Images on Black Male Division I Student-Athletes
 Research Mentor: Josh Whitford
 Research Institution: Columbia University
 Home Institution: Allegheny College
 Co-Authors: Josh Whitford, Columbia University
 SS

Rossell-Eddy, Diana 12:30 PM, CC-23
Development of UV-Visible and Photoluminescence Spectrometers and their Applications to Energy-Related Materials
 Research Mentor: Markus Raschke
 Research Institution: University of Colorado Boulder
 Home Institution: Front Range Community College
 Co-Authors: Markus Raschke and Jun Nishida, University of Colorado Boulder
 PS

Rubin, Jeremy..... 12:30 PM, CC-22
Letting the LaxKAT Out of the Bag: Packaging, Simulation, and Neuroimaging Data Analysis for a Powerful Kernel Test
 Research Mentor: Russell Shinohara
 Research Institution: University of Pennsylvania
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Russell Shinohara, Simon Vandekar, Lior Rennert and Mackenzie Edmondson, University of Pennsylvania
 PS

Rudic, Tamara 12:15 PM, CC-21
Energy transport on a cloudy planet
 Research Mentor: Tiffany Shaw
 Research Institution: University of Chicago
 Home Institution: Brown University
 Co-Authors: Tiffany Shaw, University of Chicago
 ES

Ruiz Garcia, Janeth 9:45 AM, CC-27
Metates: Life and Death in Mesoamerican Civilizations
 Research Mentor: Adriana Greci Green
 Research Institution: University of Virginia
 Home Institution: University of Texas Permian Basin
 Co-Authors: Adriana Greci Green, University of Virginia
 HU

Salim, Jamila..... 12:30 PM, CC-26
Spatial Toys: Perceptions and Implications of Caregiver Preferences
 Research Mentor: Jamie Jirout
 Research Institution: University of Virginia
 Home Institution: Syracuse University
 Co-Authors: Jamie Jirout and Sierra Eisen, University of Virginia
 SS

Salimjonova, Dildora..... 5:00 PM, CC-25
Machine Translation: An Algorithm for a Culture
 Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University
 HU

Samples, Anneliese 12:15 PM, CC-24
Level of Relationship Impacting Racism Confrontation
 Research Mentor: Sophie Trawalter
 Research Institution: University of Virginia
 Home Institution: North Carolina Central University
 Co-Authors: Sophie Trawalter and Hyeonjin Bak, University of Virginia
 SS

Sanchez, Alexandra 11:45 AM, CC-25
Opinions on Display: A Case Study on Curators' Responses to Fetishism in Museums in Charlottesville
 Research Mentor: Gertrude Fraser
 Research Institution: University of Virginia
 Home Institution: Berry College
 Co-Authors: Gertrude Fraser, University of Virginia
 SS

Sanchez, David..... **3:15 PM, CC-11**
Investigating Clear Cell Renal Cell Carcinoma Viability in Response to Glutathione Synthesis Inhibition and Chemotherapeutics
 Research Mentor: Simon Celeste
 Research Institution: University of Pennsylvania
 Home Institution: University of Texas at San Antonio
 Co-Authors: Nicolas Skuli, Simone Celeste and Ankita Bansal, University of Pennsylvania
AB

Santiago Garcia, Angel..... **4:45 PM, CC-22**
Improving earthquake relocation to find faults in Nicaragua
 Research Mentor: Karen Fischer
 Research Institution: Brown University
 Home Institution: UPR-Arecibo
 Co-Authors: Karen Fischer and Isabella Gama, Brown University
ES

Santos, Daniella **4:00 PM, CC-13**
Expression and Purification of MSP-7, MSP-9 and CG4 in E. coli for P. falciparum Malaria Vaccine Development
 Research Mentor: Jonathan Kurtis
 Research Institution: Brown University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Sunthorn Pond-Tor, Sovanny Pond-Tor and Jonathan Kurtis, Brown University
AB

Sarcone, Camila **5:45 PM, CC-15**
Investigating the Role of the PolyC Binding Proteins in Maintaining Pancreatic Beta Cell Identity
 Research Mentor: Doris Stoffers
 Research Institution: University of Pennsylvania
 Home Institution: Florida International University
 Co-Authors: Doris A. Stoffers, Matthew W. Haemmerle, Austin L. Good and Stephen A. Liebhaber, University of Pennsylvania
BB

Saslafsky, Ariella..... **11:45 AM, CC-14**
Stochastic vs Deterministic Modeling: Does It Matter Which You Choose?
 Research Mentor: Carlos Lopez
 Research Institution: Vanderbilt University
 Home Institution: University of Central Florida
 Co-Authors: Carlos Lopez, Alexander Lubbock and Geena Ildefonso, Vanderbilt University
BB

Scales, Nzali..... **5:30 PM, CC-27**
Black Girl Magic, White Boarder Paradigm: How Predominantly White All Girls Boarding Schools Inform the Racial Identity of Black Girls
 Research Mentor: Mignon Moore
 Research Institution: Columbia University
 Home Institution: Spelman College
 Co-Authors: Mignon Moore, Columbia University
SS

Segura, Roberto **5:30 PM, CC-14**
PTH (1-34) Modulates CRT2/3 Nuclear Localization in the Osteoblast through PP1/PP2A Signalling
 Research Mentor: Nicola Partridge
 Research Institution: New York University
 Home Institution: San Francisco State University
 Co-Authors: Nicola C. Partridge, New York University
BB

Sepulveda, Renato..... **4:45 PM, CC-25**
"SOS" Struggle, oppression, survival A look into the vicious cycle holding American communities captive
 Research Mentor: Michael Smith
 Research Institution: University of Virginia
 Home Institution: Heritage University
 Co-Authors: Michael Joseph Smith, University of Virginia
PE

Sevillano, Gerald Jae **9:30 AM, CC-27**
Archipelagic Imaginings and Psychogeographic Mappings: (U)npacking (B)logger (E)xplorations in Little Manila
 Research Mentor: Thuy Linh Tu
 Research Institution: New York University
 Home Institution: Princeton University
 Co-Authors: Thuy Linh Tu, New York University
HU

Shaw, Marlisa **11:45 AM, CC-11**
Identifying and Localizing Novel Genes in Zebrafish Spinal Cord Controlling Locomotion
 Research Mentor: Jeremy Dasen
 Research Institution: New York University
 Home Institution: Pennsylvania State University
 Co-Authors: Kristen D'Elia, Basak Rosti, Paula Cruz-Vazquez, David Schoppik and Jeremy Dasen, New York University
BB

Shin, Sarah..... **4:45 PM, CC-16**
Notch/Wnt Signaling Crosstalk Regulates Skeletal Stem/Progenitor Cell Behavior During Early Fracture Healing
 Research Mentor: Philipp Leucht
 Research Institution: New York University
 Home Institution: University of Missouri-Kansas City
 Co-Authors: Sooyeon Lee and Philipp Leucht, New York University
BB

Sidel, Hunter **3:00 PM, CC-25**
Silence in Sexology: Race, Nationalism and the Unnatural in German Empire c. 1884 - 1918
 Research Mentor: Zeb Tortorici
 Research Institution: New York University
 Home Institution: Pitzer College
 Co-Authors: Zeb Tortorici, New York University
HU

Slayday, Riki..... 12:30 PM, CC-24

Motivational shifts in information seeking behaviors across the life span

Research Mentor: Laura Carstensen
 Research Institution: Stanford University
 Home Institution: San Diego State University
 Co-Authors: Laura Carstensen and Yochai Shavit, Stanford University

SS

Smith, Andrykah..... 5:15 PM, CC-25

An Exploration of the Relationship Between Teacher Burnout and Students' Behavioral Engagement

Research Mentor: Khara Turnbull
 Research Institution: University of Virginia
 Home Institution: North Carolina State University
 Co-Authors: Khara Turnbull and Sarah Wymer, University of Virginia

SS

Smith, Jamila..... 5:00 PM, CC-22

Exploring the Potential of n-Alkanes in Leaf Waxes as a Proxy for Climate in the Tropical Andes

Research Mentor: Lina Pérez-Angel
 Research Institution: University of Colorado Boulder
 Home Institution: SUNY College at Fredonia
 Co-Authors: Lina Pérez-Angel and Julio Sepúlveda, University of Colorado Boulder

ES

Smith, Kayla 11:30 AM, CC-25

Black Revolutionary Theatre: How black arts cultivated community dialogue and sustained diasporic testimonies at Brown University

Research Mentor: Jennifer Betts
 Research Institution: Brown University
 Home Institution: Spelman College
 Co-Authors: Jennifer Betts, Brown University

HU

Sobande, Oluwasemilore 11:15 AM, CC-25

Mapping the Archive: Literary Approaches to Slavery and the Abject

Research Mentor: Abosede George
 Research Institution: Columbia University
 Home Institution: Stanford University
 Co-Authors: Abosede George, Columbia University

HU

Soriano, Denise 9:30 AM, CC-13

Marijuana Legalization and Racial-Ethnic Disparities in Incarceration Rates from 2000-2015

Research Mentor: Terry-Ann Craigie
 Research Institution: Brown University
 Home Institution: DePaul University
 Co-Authors: Terry-Ann Craigie, Brown University

SS

Swann, Isaiah..... 12:00 PM, CC-12

Transcriptionally-Regulated Genes Direct Gap Junction Specificity in the Motor Circuit of C. elegans

Research Mentor: Sierra Palumbos
 Research Institution: Vanderbilt University
 Home Institution: University of Texas at Dallas
 Co-Authors: Sierra Palumbos, Rebecca McWhirter and David Miller III, Vanderbilt University

BB

Tavares, Agustin..... 12:00 PM, CC-11

Comparison of the morphology of different hippocampal neuron types using tissue clearing, imaging, and reconstruction

Research Mentor: Jayeeta Basu
 Research Institution: New York University
 Home Institution: University of Miami
 Co-Authors: Jayeeta Basu and Olesia Bilash, New York University

AB

Thang, Daniel..... 4:00 PM, CC-26

Aesthetic Shadow: Repression in Confessions of a Mask

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Thompson, Elizabeth 11:15 AM, CC-17

Mechanisms of SOX2 Regulation in Squamous Cell Carcinoma

Research Mentor: Markus Schober
 Research Institution: New York University
 Home Institution: University of Wisconsin Madison
 Co-Authors: Markus Schober and Steven Hoang-Phou, New York University

AB

Tirado, Brian 5:45 PM, CC-14

The Effect of a Human LNK Polymorphism on Erythropoietin Receptor Signal Transduction

Research Mentor: Meenakshi Madhur
 Research Institution: Vanderbilt University
 Home Institution: Mercer University
 Co-Authors: Meenakshi Madhur and Matthew Alexander, Vanderbilt University

BB

Torres, Jeremy 3:30 PM, CC-22

Effects Of Ozone On The Photochemical And Photophysical Properties Of Dissolved Organic Matter

Research Mentor: Fernando Rosario-Ortiz
 Research Institution: University of Colorado Boulder
 Home Institution: UPR-Mayaguez
 Co-Authors: Frank Leresche and Fernando Rosario-Ortiz, University of Colorado Boulder

ES

Tracey, Matthew 3:45 PM, CC-15

Identifying how the Integrator Complex Regulates RNA Polymerase II Transcripts

Research Mentor: Jeremy Wilusz
Research Institution: University of Pennsylvania
Home Institution: Pennsylvania State University
Co-Authors: Deirdre Tatomer and Jeremy Wilusz, University of Pennsylvania

BB

Trinh, Kevin 5:15 PM, CC-22

Measuring Rayleigh Wave Phase Velocity in the Antarctic Upper Mantle from Ambient Seismic Noise

Research Mentor: Colleen Dalton
Research Institution: Brown University
Home Institution: Bowdoin College
Co-Authors: Zhitu Ma and Colleen Dalton, Brown University

ES

Trovato, Daniel 5:30 PM, CC-26

Criminology: The Impossibility of Rehabilitation in Genet's A Thief's Journal.

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Home Institution: Community College of Baltimore County
Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Twumasi-Ankrah, Nana Afia 12:30 PM, CC-13

Using Bioinformatics to Characterize the Genomic Attributes of Neisseria Gonnorrhoeae Strain FA1090 and Its Genetically Modified Derivatives.

Research Mentor: Alison Criss
Research Institution: University of Virginia
Home Institution: Virginia Commonwealth University
Co-Authors: Alison Criss, University of Virginia

AB

Sofia-Uzsoy, Ana 12:30 PM, CC-21

The radius and mass distribution of ultra-short period planets

Research Mentor: Leslie Rogers
Research Institution: University of Chicago
Home Institution: North Carolina State University
Co-Authors: Leslie Rogers, University of Chicago

PS

Valdes-Valderrama, Andrea 5:15 PM, CC-26

Boricua en la Luna: Examining the Borderland Between Puerto Rico and the United States Through Literature

Research Mentor: Steven Gregory
Research Institution: Columbia University
Home Institution: UPR-Mayaguez
Co-Authors: Steven Gregory, Columbia University

HU

Valentine, Aneesa 3:15 PM, CC-17

The infectivity of IBD patient-isolated gut mycobiota species.

Research Mentor: Iliyan Iliev
Research Institution: Weill Cornell Graduate School
Home Institution: Brooklyn College CUNY
Co-Authors: Iliyan Iliev, Weill Cornell Graduate School

AB

Van, Destiny 4:00 PM, CC-15

Biomarkers of Sleep-Loss Vulnerability and Total Sleep Deprivation by Metabolomics

Research Mentor: Aalim Weljie
Research Institution: University of Pennsylvania
Home Institution: Spelman College
Co-Authors: Arjun Sengupta and Aalim Weljie, University of Pennsylvania

AB

Vargas-Rivera, Maria 3:45 PM, CC-22

Cation Responsive Catalysis for the Synthesis of Biodegradable Polymers

Research Mentor: Jerome Robinson
Research Institution: Brown University
Home Institution: UPR-Aguadilla
Co-Authors: Jerome Robinson and Kerry Casey, Brown University

PS

Vazquez Marrero, Victor 5:45 PM, CC-11

Detection of the bacterial type III secretion system by the human NAIP/NLRC4 inflammasome

Research Mentor: Sunny Shin
Research Institution: University of Pennsylvania
Home Institution: UPR-Rio Piedras
Co-Authors: Sunny Shin and Valeria Reyes, University of Pennsylvania

BB

Vides, Christina 5:30 PM, CC-21

Modeling the Sensitivity of Exoplanet Coronagraphic Imaging Methods to a Continuous Wave Laser Source: an OIRSETI Experiment

Research Mentor: Bruce Macintosh
Research Institution: Stanford University
Home Institution: California State Polytechnic University, Pomona
Co-Authors: Bruce Macintosh and Jean-Baptiste Ruffio, Stanford University

PS

Vish, Kimberly 4:00 PM, CC-14

Structural and Functional Studies of the E. coli Potassium Pump KdpFABC

Research Mentor: David Stokes
Research Institution: New York University
Home Institution: Siena College
Co-Authors: Marie Sweet and David Stokes, New York University

BB

Voitiv, Andrew 4:00 PM, CC-22

Ti:Sapphire laser construction for characterization of thermo-plasmonic nanotips

Research Mentor: Markus Raschke
Research Institution: University of Colorado Boulder
Home Institution: University of Denver
Co-Authors: Fabian Menges and Markus Raschke, University of Colorado Boulder

PS

Wacker, Amanda 3:30 PM, CC-16

Molecular Mechanisms Underlying Regression of Exercise-Induced Cardiac Hypertrophy

Research Mentor: Leslie Leinwand
Research Institution: University of Colorado Boulder
Home Institution: Florida State University
Co-Authors: Leslie Leinwand, University of Colorado Boulder

BB

Walley, Vanetta 10:30 AM, CC-11

PP2A Regulatory Subunit Mutations that Increase Plant Size

Research Mentor: Alison DeLong
Research Institution: Brown University
Home Institution: Tougaloo College
Co-Authors: Alison DeLong, Brown University

BB

Walters-Marrah, George 4:45 PM, CC-17

Atomic Structure of Allosteric Inhibitors Bound to the HIV Integrase Catalytic Core Domain

Research Mentor: Kushol Gupta
Research Institution: University of Pennsylvania
Home Institution: University of Central Florida
Co-Authors: Kushol Gupta, Benjamin Mathier and David Nguyen, University of Pennsylvania

BB

Warsco, Alia 11:45 AM, CC-26

Bein' Lum: Language as a Legitimizing Force for an Illegitimate People

Research Mentor: Laurel MacKenzie
Research Institution: New York University
Home Institution: New York University
Co-Authors: Laurel MacKenzie, New York University

HU

Washington, Jamar 10:45 AM, CC-11

Investigating The Roles of Myosin19 And Miro In Regulating F-Actin And The Mitochondrial Network

Research Mentor: Erika Holzbaur
Research Institution: University of Pennsylvania
Home Institution: University of Richmond
Co-Authors: Erika Holzbaur-Howland, Andrew Moore and Stephen Coscia, University of Pennsylvania

BB

Weingart, Alexander 11:30 AM, CC-17

Phenotyping of the Airway Epithelium In Search For Subpopulation Of Cells Conferring Long Term Risk For Developing Lung Cancer

Research Mentor: Pierre Massion
Research Institution: Vanderbilt University
Home Institution: University of Vermont
Co-Authors: Pierre P. Massion, Maria-Fernanda Senosain, Jonathan M. Lehman and Jamshedur S. Rahman, Vanderbilt University

AB

White, Jira 12:15 PM, CC-12

The Use of Double Mutant C. Elegans Strains in Uncovering Gene Redundancies in Glial Mediated Circuit Formation

Research Mentor: Shai Shaham
Research Institution: Weill Cornell Medical College
Home Institution: Claflin University
Co-Authors: Georgia Rapti and Shai Shaham, Weill Cornell Medical College

BB

Whitmore, Myles 10:15 AM, CC-13

Comparative Analysis of National Security in the United States, Canada and Russia

Research Mentor: Michael Smith
Research Institution: University of Virginia
Home Institution: Morehouse College
Co-Authors: Michael Smith, University of Virginia

PE

Whitten, Conner 3:00 PM, CC-24

Characterizing Neuronal Activation in the Ventral Hippocampus During Social Stimuli in Prairie Voles

Research Mentor: Zoe Donaldson
Research Institution: University of Colorado Boulder
Home Institution: CSU San Marcos
Co-Authors: Jayme Temple and Zoe Donaldson, University of Colorado Boulder

SS

Williams, Marcus 9:00 AM, CC-12

Benzannulated Spiroketal Synthesis Via Exo-Glycal Scandium-triflate Mediated Spirocyclization Approach

Research Mentor: Jessica Hurtak
Research Institution: Weill Cornell Medical College
Home Institution: Fort Lewis College
Co-Authors: Jessica Hurtak and Derek Tan, Weill Cornell Graduate School

BB

Williams, Marta 12:30 PM, CC-12

The Missing Link: How Insulin Enhances Dopamine Release

Research Mentor: Margaret Rice
Research Institution: New York University
Home Institution: Luther College
Co-Authors: Margaret Rice and Jyoti Patel, New York University

BB

Williamson, Victoria 3:15 PM, CC-24

The Role of the VLPFC in Modulating Intergroup Spite: A tDCS Study

Research Mentor: Mina Cikara
Research Institution: Harvard University
Home Institution: University of Florida
Co-Authors: Mina Cikara and William Moore, Harvard University
SS

Wilson, Alexis 5:30 PM, CC-22

Examining the Relationship Between Sediment Grain Size and Toxic Arsenic Levels in the Ganges-Brahmaputra Delta in Bangladesh

Research Mentor: Steven Goodbred
Research Institution: Vanderbilt University
Home Institution: Cornell University
Co-Authors: Steven L. Goodbred and Jessica Raff, Vanderbilt University
ES

Wiratan, Linda 9:15 AM, CC-12

mRNA Transport between Mouse and Human Cells

Research Mentor: Craig Hunter
Research Institution: Harvard University
Home Institution: University of Maryland, Baltimore County
Co-Authors: Craig Hunter and Andrey Shubin, Harvard University
BB

Woodward, Helen 5:00 PM, CC-17

Determination of the extracellular T cell receptor-CD3 complex structure

Research Mentor: Aswin Natarajan
Research Institution: New York University
Home Institution: Gettysburg College
Co-Authors: Aswin Natarajan, Joshua Gutierrez and Michelle Krogsgaard, New York University
BB

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Poster Presentations by Number

1	Kenya Alfaro	AB	Sonic Hedgehog is mechanosensitive and regulates the proliferation and differentiation of cartilage-resident mesenchymal stem cells in osteoarthritis patients
2	Myles Bartholomew	AB	The Contribution of SHP-1 Signaling to Sepsis-Induced Changes In Not Only Immune Cell Function, but Overall Survival
3	Avni Bhalgat	AB	Overcoming Chemotherapeutic Resistance in Pancreatic Cancer
4	Kwadwo Bonsu	AB	Modulation of Pre-Senescent Fibroblasts via Physical Cues and Senescence-Associated Secretory Phenotype Paracrine Signaling
5	Brenden Bratton	AB	The role of cfdDNA in Aspiration Associated Lung Allograft Injury
6	Hamadi Brewer	AB	Maternal Immune Activation of the Corticostriatal Circuit in Rodents
7	Jingjia Chen	AB	Battling the Flu: Playing Tetris On A Molecular Level
8	Chazman Childers	AB	Identification of Pharmacomimetics of Flow-Mediated Endothelial Atheroprotection
9	Pablo Coello	AB	A Novel Platform Engineered for the Characterization and Interrogation of Gene Signaling Pathways Associated with Atherosclerosis
10	Laura Diaz	AB	Identifying the Localization of the GFP-tagged Manganese Transporter Slc30a10 in Mice Tissue
11	Lauren English	AB	The Role of Prdm16 in Ventral Telencephalon Progenitors in the Development of the Cholinergic System
12	Ambre Flowers	AB	Communication's Role in the Misclassification of Neonatal Deaths and Stillbirths
13	Synphane Gibbs	AB	Enhancing Therapeutic Efficacy of Platinum Based Drugs By Pharmacologically Inhibiting Poly (ADP-ribose) Polymerase In Ovarian Cancer
14	Iyani Kelly	AB	Identifying PI3K-C2a as a Biomarker for Sensitivity to Paclitaxel in Pancreatic Cancer
15	Myshal Morris	AB	Identifying New EGFR Driver Mutations In Non Small Cell Lung Cancer
16	Jenny Nguyen	AB	Angiotensin-Converting Enzyme 2 Modulates Innate Immune Response to Bacterial Lung Infection
17	Guillermo Pereda	AB	Role of Angiotensin Type I Receptor (AT1R) in Losartan (ARB) Modulation of Transforming Growth Factor-Beta Signaling
18	Nicole Reinhold-Larsson	AB	Transcervical infection of Chlamydia muridarum elicits a more robust immune response in mice than intravaginal infection
19	Brenna Remick	AB	Combining Immune Checkpoint Blockade with CAR T-cell Therapy

AB = Applied Biosciences
BB = Basic Biosciences

EN = Engineering
ES = Earth Science

HU = Humanities
PE = Policy & Ethics

PS = Physical Science
SS = Social Science

20	Joel Reyes	AB	Spatial and developmental mapping of choroid plexus macrophages in a maternal immune activation (MIA) model
21	Olivia Ringham	AB	Using human ileal enteroids to study impaired intestinal integrity induced by <i>C. parvum</i> infection
22	Maya Rowell	AB	Discovery of Receptor-Downregulating Antibodies for Cancer Immunotherapy
23	Alec Seidenberg	AB	The effects of early life stress on development of circuitry underlying reward processing and depression
24	Chloe Adrienna Talana	AB	Exploring The Potential For a Synergistic Activation of NK Cells by IL15 and IFN α For The Control of HIV
25	Willie Tobias	AB	An Integrin-Driven Basis for the Neutrophilic Response to <i>Candida</i>
26	Elijah Wilkerson	AB	Heterogeneity of <i>Aspergillus</i> spores to macrophage- mediated killing
27	Oluwaseun Adegbite	BB	Efficient Induction of Resistance Genes is Important for Bacterial Survival Under Transient Drug Conditions
28	Tonuza Ahmed	BB	The effect of CGRP 8-37 viral vector on reducing pain caused by spinal cord injury
29	Rakim Ali	BB	Studying Co-translational Protein Folding In Vivo Using An Arrest Peptide
30	Felix Badillo	BB	Identification of Novel Ras Protein Heterodimerization Using a FRET Assay Approach
31	Sharimar Báez Mercado	BB	The function of tyrosine hydroxylase producing beta cells in the pancreatic islet.
32	Summer Blanco	BB	Pollen Magnetofection: Developing a Novel Transformation Technique in <i>Aquilegia coerulea</i> (Columbine)
33	Kyle Boulanger	BB	Labeling of Glial Progenitors With Zirconium-DFO Complexes for Cell Tracking Using PET
34	Laura Briggs	BB	Developing methods to identify RNA-binding inhibitors of reverse transcription
35	Brandon Brown	BB	The Fight Against Nosocomial Strains of <i>Pseudomonas Aeruginosa</i> through quantifying Aggregates and Biofilms
36	Elaine Camacho-Hernandez	BB	Investigating the Effect of WNT on the Activity of K-RasG12D and K-RasG13D Mutations in Colon Epithelial Organoids
37	Matilde Castro	BB	Effects of CRMP2 Deletion on Spatial Working Memory
38	LeslieAnn Charles	BB	Regulation of Lysis Genes by RNA Polymerase-Binding Antiterminators
39	Claire Charpentier	BB	Sonic-Gli Pathway Mediates Neuron-Astrocyte Crosstalk in the Postnatal Mouse Cortex
40	Annie Chen	BB	miRNA-34c expression in female brain regions as a mediator of the transgenerational effects of stress phenotypes using fluorescent in situ hybridization (FISH)
41	Alyssa Clayton	BB	Effects of Rab11 WT Overexpression on Primary Endothelial Cell Function
42	Dezmond Cole	BB	Investigating the Assembly Mechanisms of the MORC-1 Chromatin Factor by Protein Kinase CK2
43	Adrienne Corseri	BB	Testing the interactions between nociceptors and macrophages using co-cultures

44	Anthony Cort	BB	Specific Antibody Modulation of Innate Immune Sensing
45	Carolina Dasta Cruz	BB	Development of Hydrocephalus in KATNAL2 Knockout Mice Model
46	Rodrigo De La Torre	BB	Characterizing ALS pathology through <i>C. elegans</i> knock-in models
47	Tania Dominguez	BB	Imaging Behavior of Zebrafish Larvae Exposed to Diazepam (Valium) Using a 96-Well Plate Assay
48	Don Eaford	BB	Linking Phosphorylation Of Synaptonemal Complex Proteins With Accurate Chromosome Segregation During Meiosis
49	Lindsay Ejoh	BB	Analysis of the Role of UBXN1 in Aggresome Formation and Clearance of Disease Aggregates
50	Marcelo Francia	BB	Mechanisms of Neuronal Excitation/Inhibition Balance Disruption in a Mouse Model for Autism
51	Darryl Hill	BB	Targeting the Oncogenic Transcription Factor STAT3 as a Potential Novel Cancer Therapy
52	Alexia Johnson	BB	The role of central spindle formation on the viability of <i>Caenorhabditis elegans</i>
53	Isaac Lee	BB	cAMP: a molecular readout of time for <i>Drosophila melanogaster</i> mating
54	Christian Lopez	BB	Understanding the Phenotypical Behavior of Phase-Separated Droplets Heterozygous for ALS-Associated FUS Mutations
55	Tatiana Mamani	BB	Bacteriophage: Does the Enrichment Process Influence Characteristics of Phages Isolated?
56	Aislinn Mayfield	BB	The Role of microRNA in Activity-Dependent Synaptic Morphogenesis
57	Andrew Muñoz	BB	Protein Fold Switch in High-Identity Sequence Space?
58	Andrew Palacios	BB	The Effect Of Over-Expression Of An Engineered RAD18 Variant On Repair Outcomes At CRISPR/Cas9 Induced Double Stranded Breaks
59	Sharon Parkins	BB	Investigating Sympathetic Satellite Glial Cells' Contribution to a Blood-Nerve Barrier
60	Michaela Reyes	BB	Finding the Achilles Heel of Tumors Driven by Dysregulated Ras Signaling
61	Karla Reyes Aguirre	BB	Gene Editing for Dermal Cells In Vivo
62	Alma Rivera	BB	Dynamics of Type III Secretion System YopE-SycE interactions in live <i>Yersinia enterocolitica</i>
63	Carlos Rivera-López	BB	Uncovering Subcellular Localization and Substrate Specificity of the TPR domain of O-GlcNAc Transferase
64	Carlan Romney	BB	Using CRISPR-Mediated Mutagenesis To Analyze Phospho-Regulation Of Ethylene Synthesis In <i>Arabidopsis thaliana</i>
65	Rio Salazar	BB	Determining the role of H3K56A in histone segregation and cell phenotype in the <i>Drosophila</i> male germline
66	Simon Sanchez	BB	Overexpression of Fur1 in Glia cells leads to affects in behavior of <i>Drosophila</i>
67	Uriah Sanders	BB	Investigation of the temporal and spatial expression of a candidate gene regulating stem cell proliferation in <i>Aquilegia</i> flowers.
68	Danae Sanders	BB	Analyzing the Effects of Aberrant Light Exposure on Gene Expression in the Suprachiasmatic Nucleus

69	Agnele Sewa	BB	Structural and Functional Characterization of Nramp-Family Metal Transporters
70	Danielle Siddons	BB	The Role of Perineuronal Nets in Cross Modal Plasticity
71	Sebastian Somolinos	BB	In Vitro Characterization of Transcription Factor Binding to a DNA Library of Nucleosome Core Particles
72	Zikora Stephens	BB	Murine Cytomegalovirus: Determining the Importance of Poly A Signal Clusters for M112-113 Gene Expression
73	Della Syau	BB	Functional correlation between the sodium-potassium ATPase and the sodium-potassium-chloride cotransporter in choroid plexus water secretion
74	Mahima Thapa	BB	High Performance Pharmacokinetic Simulations For Drug Discovery: Efficiently Searching For Potent and Easily Absorbed Drug Candidate
75	Emre Tkacik	BB	Isolating Key Components of the Peroxisome Matrix Protein Import Pathway
76	Brandon Trejo	BB	Optimizing Fluorescent Calcium Sensors for Imaging Neuronal Activity in C. elegans Response to Odors
77	Makayla Turner	BB	RNA Modifications Affecting Translation Efficiency of Global Regulators in E. Coli
78	Juan Velazquez Matos	BB	Investigating the role of ezh1 during zebrafish developmental hematopoiesis
79	Essence Vinson	BB	Identifying neuronal populations in the zebrafish interpeduncular nucleus
80	Ian Vogel	BB	In Search of Regulatory Elements: Optimization of Screening Throughput for rAAV Enhancers
81	Mikayla Watt	BB	Understanding the Cis- and Trans-Regulation of the Sex Gene Determination Switch Sex Lethal in the Drosophila melanogaster Germline
82	Hastings Williams	BB	IRE1 and the Unfolded Protein Response in Tomatoes
83	Jessica Yamauchi	BB	Characterizing the Novel Zebrafish Tft ^{Δ168N} Scoliosis Mutant
84	Timothy Bernard	EN	Investigating the Utility of Bimanual Wrist Squeezing Cutaneous Feedback in Robotic Surgery Training
85	Gregory Berumen	EN	Investigating Alternative Substrate Specificity In Natural and Engineered Iodotyrosine Deiodinase Variants
86	Anne Rojona Feliciano	EN	Software application development and acoustic validation of an open-air hearing screening tool
87	David Gonzalez-Medrano	EN	Synthesis of Multicomponent Transition Metal Oxalates and Oxides: Probing Phase Homogeneity of Energy Storage Precursors
88	Rodney Hawkins	EN	Impact On Flooding In Coastal Cities
89	Dorcas Lawal	EN	Influence of Acid and Base Concentration on the Photocatalytic Behavior of Nafion-Metal Oxide Nanocomposites
90	Raymundo Muro Barrios	EN	Investigations of impact-induced traumatic brain injury using a mouse model.
91	Jasmin Palmer	EN	Design of a Light Delivery System for Visual Servoing of Scissor Locations During Photoacoustic-Guided Liver Surgery
92	Coleman Tolliver	EN	Direct Print Additive Manufacturing of Optical Fiber Interconnects
93	Karen Vazquez	EN	Linking the Gaps: Optimizing Public Transit Systems in Baltimore to Improve Food Equity

94	Raven Schwam-Curtis	HU	Black Women and the Anagrammer of Criminality
95	Sydne Hunter	PE	Comparative Analysis of the Sami Context Across National Borders
96	Fermin Arraiza Truust	PS	Diagram Algebra
97	Abigail Boyette	PS	Quantum Physics: Cluster Entanglement
98	Carson Cole	PS	Filtering Chemical and Reaction Space
99	Kristina Crawley	PS	Numerical simulations and black holes
100	Dylan Cruz Fonseca	PS	Diagram Algebra
101	Mischa Ellison	PS	Room-Temperature Electrochemical Reduction of Nitrogen to Ammonia
102	Christopher Fladd	PS	Test Software for the A.L.M.A. Cartridge Bias Modules
103	Omar Gonzalez-Barreto	PS	Graphical Visualization Of Measurement Based Quantum Computing
104	Karan Goyal	PS	Functionalizing the C-2 Position of Imidazole to Create a Library of Diverse Analogs
105	Gianna Haskin	PS	Manipulating media & culture composition to maximize the long term viability of lymph node slices
106	Karim Jassim	PS	Characterization of solar simulator irradiance for diagnostics of increased photo-generated current of pn-junction solar cells
107	Rachit Kumar	PS	Multimodal Alternating Kernel Method for Auditory Cortex Segmentation
108	Jonnathan Marin	PS	Develop Hydrogen-bonded Molecular Motifs For The Construction Of Elastic Polymeric Crystals
109	Mathiu Perez Rodriguez	PS	Identification and Characterization of Cysteine Proteases Regulating Nedd8 Cleavage
110	Andres Ramos	PS	Diagram Algebra
111	Dem Santiago	PS	Electrocatalytic for Oxygen Evolution Reaction for Energy Conversion and Storage
112	Clara Alvarez Caraveo	SS	Poverty Trends for Foreign-born Hispanic Immigrants by Country of Origin
113	Kendall Clark	SS	Two Savannahs: Race and the Political Economy of a Southern Tourist City
114	Annabelle Flores	SS	Do individual differences in incentive salience attribution reflect differences in reward representation?
115	Alexis Jones	SS	Testing the role of low threshold potassium channels in song learning using CRISPR.
116	Jennifer Magana	SS	“You’ve been where? With who?...”: The Relationship Between Parental Monitoring and Amount of Free Time on GPA
117	Sacha McElligott	SS	The role of saccadic eye movements in visual perception
118	Hannah Pearson	SS	Imagine That: The Impact Of Episodic Simulation On Intergroup Empathy
119	Jordyn Ricard	SS	Trauma, psychopathology, and suicide
120	Efrain Rodriguez-Sierra	SS	Evaluating Components of Bicultural Identity of Puerto Ricans and Other Latin Americans Living in the United States
121	Sara Near	AB	BMP4 and its Role in Epilepsy
122	Terry Henry	AB	Macrophage Nonmuscle Myosin IIA is Required for IL-1B expression and Atherosclerotic Calcification



Poster Presentations by Name

Adegbite, Oluwaseun 27

Efficient Induction of Resistance Genes is Important for Bacterial Survival Under Transient Drug Conditions

Research Mentor: Daniel Schultz
Research Institution: Dartmouth College
Home Institution: UC Irvine
Co-Authors: Daniel Schultz, Dartmouth College

Ahmed, Tonuza 28

The effect of CGRP 8-37 viral vector on reducing pain caused by spinal cord injury

Research Mentor: Jacqueline Sagen
Research Institution: University of Miami
Home Institution: Farmingdale State College
Co-Authors: Stanislava Jergova and Jacqueline Sagen, University of Miami

Alfaro, Kenya 1

Research Mentor: Qian Chen
Research Institution: Brown University
Home Institution: CSU Long Beach
Co-Authors: Meng Feng and Qian Chen, Brown University

Ali, Rakim 29

Studying Co-translational Protein Folding In Vivo Using An Arrest Peptide

Research Mentor: Christian Kaiser
Research Institution: Johns Hopkins University
Home Institution: University of West Alabama
Co-Authors: Christian Kaiser and Xiuqi Chen, Johns Hopkins University

Alvarez Caraveo, Clara 112

Poverty Trends for Foreign-born Hispanic Immigrants by Country of Origin

Research Mentor: Michael White
Research Institution: Brown University
Home Institution: Cornell University
Co-Authors: Michael White, Brown University

Arraiza Truust, Fermin 96

Diagram Algebra

Research Mentor: Rosa Orellana
Research Institution: Dartmouth College
Home Institution: UPR-Rio Piedras
Co-Authors: Andres Ramos and Dylan Cruz, Dartmouth College

Badillo, Felix 30

Identification of Novel Ras Protein Heterodimerization Using a FRET Assay Approach

Research Mentor: Hening Lin
Research Institution: Cornell University
Home Institution: UPR-Aguadilla
Co-Authors: Hening Lin and Seth Miller, Cornell University

Báez Mercado, Sharimar 31

The function of tyrosine hydroxylase producing beta cells in the pancreatic islet.

Research Mentor: Alejandro Caicedo
Research Institution: University of Miami
Home Institution: Universidad Interamericana de Puerto Rico, Ponce
Co-Authors: Alejandro Caicedo, University of Miami

Bartholomew, Myles 2

The Contribution of SHP-1 Signaling to Sepsis-Induced Changes In Not Only Immune Cell Function, but Overall Survival

Research Mentor: Alfred Ayala
Research Institution: Brown University
Home Institution: Xavier University of Louisiana
Co-Authors: Alfred Ayala, Chun-Shiang Chung, Yaping Chen and Chyna Gray, Brown University

Bernard, Timothy 84

Investigating the Utility of Bimanual Wrist Squeezing Cutaneous Feedback in Robotic Surgery Training

Research Mentor: Jeremy Brown
Research Institution: Johns Hopkins University
Home Institution: University of Maryland, Baltimore County
Co-Authors: Eric Cao, Johns Hopkins University; Katherine J. Kuchenbecker, University of Pennsylvania; Jeremy D. Brown, Johns Hopkins University

Berumen, Gregory 85
Investigating Alternative Substrate Specificity In Natural and Engineered Iodotyrosine Deiodinase Variants
 Research Mentor: Steven Rokita
 Research Institution: Johns Hopkins University
 Home Institution: Tufts University
 Co-Authors: Zuodong Sun, Steven Rokita, Shourya Sonkar Roy Burman and Jeffrey Gray, Johns Hopkins University

Bhalgat, Avni 3
Overcoming Chemotherapeutic Resistance in Pancreatic Cancer
 Research Mentor: Senthil Muthuswamy
 Research Institution: Harvard University
 Home Institution: Purdue University
 Co-Authors: Arindam Bose, Ling Huang and Senthil Muthuswamy, Harvard University Div. of Medical Sciences

Blanco, Summer 32
*Pollen Magnetofection: Developing a Novel Transformation Technique in *Aquilegia coerulea* (Columbine)*
 Research Mentor: Elena Kramer
 Research Institution: Harvard University
 Home Institution: California State Polytechnic University, Pomona
 Co-Authors: Stephanie Conway and Elena Kramer, Harvard University

Bonsu, Kwadwo 4
Modulation of Pre-Senescent Fibroblasts via Physical Cues and Senescence-Associated Secretory Phenotype Paracrine Signaling
 Research Mentor: Konstantinos Konstantopoulos
 Research Institution: Johns Hopkins University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Konstantinos Konstantopoulos and Christina Hum, Johns Hopkins University

Boulanger, Kyle 33
Labeling of Glial Progenitors With Zirconium-DFO Complexes for Cell Tracking Using PET
 Research Mentor: Mirosław Janowski
 Research Institution: Johns Hopkins University
 Home Institution: Grand View University
 Co-Authors: Rohit Srivastava and Mirosław Janowski, Johns Hopkins University

Boyette, Abigail 97
Quantum Physics: Cluster Entanglement
 Research Mentor: Olivier Pfister
 Research Institution: University of Virginia
 Home Institution: University of Virginia
 Co-Authors: Olivier Pfister, University of Virginia

Bratton, Brenden 5
The role of cfdDNA in Aspiration Associated Lung Allograft Injury
 Research Mentor: Pali Shah
 Research Institution: Johns Hopkins University
 Home Institution: SUNY at Buffalo
 Co-Authors: Pali Shah, Johns Hopkins University

Brewer, Hamadi 6
Maternal Immune Activation of the Corticostriatal Circuit in Rodents
 Research Mentor: Wilder Doucette
 Research Institution: Dartmouth College
 Home Institution: Morehouse College
 Co-Authors: Wilder Doucette, Dartmouth College

Briggs, Laura 34
Developing methods to identify RNA-binding inhibitors of reverse transcription
 Research Mentor: Victoria D'Souza
 Research Institution: Harvard University
 Home Institution: Emory University
 Co-Authors: Kate Godin and Victoria D'Souza, Harvard University

Brown, Brandon 35
*The Fight Against Nosocomial Strains of *Pseudomonas Aeruginosa* through quantifying Aggregates and Biofilms*
 Research Mentor: Brent Berwin
 Research Institution: Dartmouth College
 Home Institution: Morehouse College
 Co-Authors: Sally Demirdjian, Hector F Sanchez and Brent Berwin, Dartmouth College

Camacho-Hernandez, Elaine 36
Investigating the Effect of WNT on the Activity of K-RasG12D and K-RasG13D Mutations in Colon Epithelial Organoids
 Research Mentor: Kevin Haigis
 Research Institution: Harvard University
 Home Institution: UPR-Ponce
 Co-Authors: Yi-Jang Lin and Kevin Haigis, Harvard University Div. of Medical Sciences

Castro, Matilde 37
Effects of CRMP2 Deletion on Spatial Working Memory
 Research Mentor: Richard Huganir
 Research Institution: Johns Hopkins University
 Home Institution: University of Texas at Austin
 Co-Authors: Alexei Bygrave and Richard Huganir, Johns Hopkins University

Charles, LeslieAnn 38
Regulation of Lysis Genes by RNA Polymerase-Binding Antiterminators
 Research Mentor: Jennifer Pena
 Research Institution: Harvard University
 Home Institution: Fayetteville State University
 Co-Authors: Jennifer Pena and Simon Dove, Harvard University Div. of Medical Sciences

Charpentier, Claire 39
Sonic-Gli Pathway Mediates Neuron-Astrocyte Crosstalk in the Postnatal Mouse Cortex
 Research Mentor: Corey Harwell
 Research Institution: Harvard University
 Home Institution: Franklin and Marshall College
 Co-Authors: Yajun Xie and Corey Harwell, Harvard University Div. of Medical Sciences

Chen, Annie 40
miRNA-34c expression in female brain regions as a mediator of the transgenerational effects of stress phenotypes using fluorescent in situ hybridization (FISH)
 Research Mentor: Larry Feig
 Research Institution: Tufts University
 Home Institution: Simmons College
 Co-Authors: David Dickson and Larry Feig, Tufts University

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Battling the Flu: Playing Tetris On A Molecular Level
 Research Mentor: Dennis Koester
 Research Institution: Novartis Institutes for BioMedical Research
 Home Institution: Boston College
 Co-Authors: Dennis Koester, Maxime Dauphinais and Sophia Tan, Novartis Institutes for BioMedical Research

Childers, Chazman 8
Identification of Pharmacomimetics of Flow-Mediated Endothelial Atheroprotection
 Research Mentor: Guillermo García-Cardena
 Research Institution: Harvard University
 Home Institution: Florida International University
 Co-Authors: Oscar Fajardo Ramirez and Guillermo García-Cardena, Harvard University Div. of Medical Sciences

Clark, Kendall 113
Two Savannahs: Race and the Political Economy of a Southern Tourist City
 Research Mentor: Marion Orr
 Research Institution: Brown University
 Home Institution: Saint John's University
 Co-Authors: Marion Orr, Brown University

Clayton, Alyssa 41
Effects of Rab11 WT Overexpression on Primary Endothelial Cell Function
 Research Mentor: Elizabeth Harrington
 Research Institution: Brown University
 Home Institution: San Diego Mesa College
 Co-Authors: Huetran Duong, Eboni Chambers and Elizabeth Harrington, Brown University

Coello, Pablo 9
A Novel Platform Engineered for the Characterization and Interrogation of Gene Signaling Pathways Associated with Atherosclerosis

Research Mentor: Guillermo Garcia-Cardena
 Research Institution: Harvard University
 Home Institution: University of Texas at Austin
 Co-Authors: Sarvesh Varma and Guillermo Garcia-Cardena, Harvard University Div. of Medical Sciences

Cole, Carson 98
Filtering Chemical and Reaction Space
 Research Mentor: Brenda Rubenstein
 Research Institution: Brown University
 Home Institution: Weber State University
 Co-Authors: Brenda Rubenstein, Brown University

Cole, Dezmond 42
Investigating the Assembly Mechanisms of the MORC-1 Chromatin Factor by Protein Kinase CK2
 Research Mentor: John Kim
 Research Institution: Johns Hopkins University
 Home Institution: University of Montevallo
 Co-Authors: Mindy Clark and John Kim, Johns Hopkins University

Corseri, Adrienne 43
Testing the interactions between nociceptors and macrophages using co-cultures
 Research Mentor: Corey Seehus
 Research Institution: Harvard University
 Home Institution: City College of New York
 Co-Authors: Corey Seehus, Qiuwen Wang and Clifford Woolf, Harvard University Div. of Medical Sciences

Cort, Anthony 44
Specific Antibody Modulation of Innate Immune Sensing
 Research Mentor: Andrea Cox
 Research Institution: Johns Hopkins University
 Home Institution: UC Riverside
 Co-Authors: Andrea L. Cox, Laura K. Cohen, Kimberly E. Rousseau, Guido Massaccesi and Michael Chattergoon, Johns Hopkins University

Crawley, Kristina 99
Numerical simulations and black holes
 Research Mentor: Shane Davis
 Research Institution: University of Virginia
 Home Institution: Elizabeth City State University
 Co-Authors: Shane Davis, University of Virginia

Cruz Fonseca, Dylan 100
Diagram Algebra
 Research Mentor: Rosa Orellana
 Research Institution: Dartmouth College
 Home Institution: UPR-Rio Piedras
 Co-Authors: Andres Ramos and Fermin Arraiza, Dartmouth College

Dasta Cruz, Carolina 45*Development of Hydrocephalus in KATNAL2 Knockout Mice Model*

Research Mentor: Bryan Luikart
 Research Institution: Dartmouth College
 Home Institution: UPR-Aguadilla
 Co-Authors: Bryan W. Luikart, Dartmouth College

De La Torre, Rodrigo 46*Characterizing ALS pathology through C. elegans knock-in models*

Research Mentor: Anne Hart
 Research Institution: Brown University
 Home Institution: New York University
 Co-Authors: Anne Hart and Jeremy Lins, Brown University

Diaz, Laura 10*Identifying the Localization of the GFP-tagged Manganese Transporter Slc30a10 in Mice Tissue*

Research Mentor: Thomas Bartnikas
 Research Institution: Brown University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Thomas Bartnikas, Heather Conboy and Courtney Mercadante, Brown University

Dominguez, Tania 47*Imaging Behavior of Zebrafish Larvae Exposed to Diazepam (Valium) Using a 96-Well Plate Assay*

Research Mentor: Robbert Creton
 Research Institution: Brown University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Danielle Clift, Robert Thorn, Amanda Dombroski, Jason Sello and Robbert Creton, Brown University

Eaford, Don 48*Linking Phosphorylation Of Synaptonemal Complex Proteins With Accurate Chromosome Segregation During Meiosis*

Research Mentor: Monica Colaiacovo
 Research Institution: Harvard University
 Home Institution: Fayetteville State University
 Co-Authors: Monica Colaiacovo and Saravanapriah Nadarajan, Harvard University Div. of Medical Sciences

Ejoh, Lindsay 49*Analysis of the Role of UBXL1 in Aggresome Formation and Clearance of Disease Aggregates*

Research Mentor: Lindsay Ejoh
 Research Institution: Tufts University
 Home Institution: University of Pittsburgh
 Co-Authors: Malavika Raman and Sirisha Mukkavali, Tufts University

Ellison, Mischa 101*Room-Temperature Electrochemical Reduction of Nitrogen to Ammonia*

Research Mentor: Zhiyong Zhang
 Research Institution: University of Virginia
 Home Institution: Virginia Commonwealth University
 Co-Authors: Sen Zhang, University of Virginia

English, Lauren 11*The Role of Prdm16 in Ventral Telencephalon Progenitors in the Development of the Cholinergic System*

Research Mentor: Miguel Turrero Garcia
 Research Institution: Harvard University
 Home Institution: Pomona College
 Co-Authors: Miguel Turrero Garcia, Diana Tran and Corey Harwell, Harvard University Div. of Medical Sciences

Rojona Feliciano, Anne 86*Software application development and acoustic validation of an open-air hearing screening tool*

Research Mentor: Tilak Ratnanather
 Research Institution: Johns Hopkins University
 Home Institution: University of Miami
 Co-Authors: Pooja Nair, Jamie Shade, Nicholas Reed, James West and Tilak Ratnanather, Johns Hopkins University

Fladd, Christopher 102*Test Software for the A.L.M.A. Cartridge Bias Modules*

Research Mentor: Morgan McLeod
 Research Institution: University of Virginia
 Home Institution: James Madison University
 Co-Authors: Morgan McLeod and John Effland, University of Virginia

Flores, Annabelle 114*Do individual differences in incentive salience attribution reflect differences in reward representation?*

Research Mentor: Patricia Janak
 Research Institution: Johns Hopkins University
 Home Institution: Pontifical Catholic University of Puerto Rico
 Co-Authors: Kurt Fraser, Ronald Keiflin and Patricia Janak, Johns Hopkins University

Flowers, Ambre 12*Communication's Role in the Misclassification of Neonatal Deaths and Stillbirths Communication's Role in the Misclassification of Neonatal Deaths and Stillbirths*

Research Mentor: Yue Chu
 Research Institution: Johns Hopkins University
 Home Institution: Spelman College
 Co-Authors: Yue Chu, Johns Hopkins University

Francia, Marcelo 50

*Mechanisms of Neuronal Excitation/Inhibition Balance
Disruption in a Mouse Model for Autism*

Research Mentor: Alfredo Kirkwood
Research Institution: Johns Hopkins University
Home Institution: UPR-Rio Piedras
Co-Authors: Alfredo Kirkwood, Michelle Bridi and Nancy
Luo, Johns Hopkins University

Gibbs, Synphane 13

*Enhancing Therapeutic Efficacy of Platinum Based Drugs By
Pharmacologically Inhibiting Poly (ADP-ribose) Polymerase In
Ovarian Cancer*

Research Mentor: Michelle Dawson
Research Institution: Brown University
Home Institution: North Carolina A&T State University
Co-Authors: Michelle R. Dawson and Nhat D. Quach, Brown
University

Gonzalez-Barreto, Omar 103

*Graphical Visualization Of Measurement Based Quantum
Computing*

Research Mentor: Olivier Pfister
Research Institution: University of Virginia
Home Institution: UPR-Arecibo
Co-Authors: Olivier Pfister and Rajveer Nehra, University of
Virginia

Gonzalez-Medrano, David 87

*Synthesis of Multicomponent Transition Metal Oxalates
and Oxides: Probing Phase Homogeneity of Energy Storage
Precursors*

Research Mentor: Gary Koenig
Research Institution: University of Virginia
Home Institution: Old Dominion University
Co-Authors: Gary Koenig, University of Virginia

Goyal, Karan 104

*Functionalizing the C-2 Position of Imidazole to Create a
Library of Diverse Analogs*

Research Mentor: Xilin Zhou
Research Institution: Novartis Institutes for BioMedical
Research
Home Institution: Vanderbilt University
Co-Authors: Xilin Zhou and James Neef, Novartis Institutes
for BioMedical Research

Haskin, Gianna 105

*Manipulating media & culture composition to maximize the
long term viability of lymph node slices*

Research Mentor: Rebecca Pompano
Research Institution: University of Virginia
Home Institution: Xavier University of Louisiana
Co-Authors: Maura Belanger and Rebecca Pompano,
University of Virginia

Hawkins, Rodney 88

Impact On Flooding In Coastal Cities

Research Mentor: Jon Goodall
Research Institution: University of Virginia
Home Institution: Saint Augustine College
Co-Authors: Jon Goodall, University of Virginia

Henry, Terry 122

*Macrophage Nonmuscle Myosin IIA is Required for IL-1B
expression and Atherosclerotic Calcification"*

Research Mentor: Dr. Allan Morrison
Research Institution: Brown University
Home Institution: Oakwood College
Co-Authors: Dr. Allan Morrison, Brown University, Dr.
Elizabeth Harrington, Brown University

Hill, Darryl 51

*Targeting the Oncogenic Transcription Factor STAT3 as a
Potential Novel Cancer Therapy*

Research Mentor: David Frank
Research Institution: Harvard University
Home Institution: Morehouse College
Co-Authors: David Frank and Lisa Heppler, Harvard
University Div. of Medical Sciences

Hunter, Sydne 95

*Comparative Analysis of the Sami Context Across National
Borders*

Research Mentor: Amanda Lynch
Research Institution: Brown University
Home Institution: Stockton University
Co-Authors: Amanda Lynch, Brown University

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*Characterization of solar simulator irradiance for diagnostics
of increased photo-generated current of pn-junction solar cells*

Research Mentor: Robert Hyde
Research Institution: University of South Florida
Home Institution: Vanderbilt University
Co-Authors: Robert Hyde and Sarath Witanachchi, University
of South Florida

Johnson, Alexia 52

*The role of central spindle formation on the viability of
Caenorhabditis elegans*

Research Mentor: Julie Canman
Research Institution: Columbia University
Home Institution: University of Miami
Co-Authors: Sophia Hirsch and Julie Canman, Columbia
University

Jones, Alexis 115

*Testing the role of low threshold potassium channels in song
learning using CRISPR.*

Research Mentor: Daniel Meliza
Research Institution: University of Virginia
Home Institution: Bennett College
Co-Authors: Dan Meliza, University of Virginia

Kelly, Iyani 14

Identifying PI3K-C2a as a Biomarker for Sensitivity to Paclitaxel in Pancreatic Cancer

Research Mentor: Senthil Muthuswamy
 Research Institution: Harvard University
 Home Institution: Clark Atlanta University
 Co-Authors: Senthil Muthuswamy and Bruno Bockorny, Harvard University Div. of Medical Sciences

Kumar, Rachit 107

Multimodal Alternating Kernel Method for Auditory Cortex Segmentation

Research Mentor: Tilak Ratnanather
 Research Institution: Johns Hopkins University
 Home Institution: Georgia Institute of Technology
 Co-Authors: Kwame Kutten, Samuel Bidwell and J. Tilak Ratnanather, Johns Hopkins University

Lawal, Dorcas 89

Influence of Acid and Base Concentration on the Photocatalytic Behavior of Nafion-Metal Oxide Nanocomposites

Research Mentor: James Spicer
 Research Institution: Johns Hopkins University
 Home Institution: Ohio State University
 Co-Authors: Fan Zeng and James Spicer, Johns Hopkins University

Lee, Isaac 53

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Research Mentor: Maximilian Pitsch
 Research Institution: Harvard University
 Home Institution: Yale University
 Co-Authors: Maximilian Pitsch, Charlotte Auth, Eliza Smith, Stephen Thornquist and Michael Crickmore, Harvard University

Lopez, Christian 54

Understanding the Phenotypical Behavior of Phase-Separated Droplets Heterozygous for ALS-Associated FUS Mutations

Research Mentor: Kevin Rhine
 Research Institution: Johns Hopkins University
 Home Institution: University of Dallas
 Co-Authors: Sua Myong and Kevin Rhine, Johns Hopkins University

Magana, Jennifer 116

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Research Mentor: Noelle Hurd
 Research Institution: University of Virginia
 Home Institution: University at Albany SUNY
 Co-Authors: Noelle Hurd and Andrea Negrete, University of Virginia

Mamani, Tatiana 55

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Research Mentor: Joel Schildbach
 Research Institution: Johns Hopkins University
 Home Institution: Santa Rosa Junior College
 Co-Authors: Joel Schildbach and Russell Hughes, Johns Hopkins University

Marin, Jonnathan 108

Develop Hydrogen-bonded Molecular Motifs For The Construction Of Elastic Polymeric Crystals

Research Mentor: Chenfeng Ke
 Research Institution: Dartmouth College
 Home Institution: Rider University
 Co-Authors: Chenfeng Ke and Mingshi Zhang, Dartmouth College

Mayfield, Aislinn 56

The Role of microRNA in Activity-Dependent Synaptic Morphogenesis

Research Mentor: Brandon Woods
 Research Institution: Harvard University
 Home Institution: Carleton College
 Co-Authors: Brandon Woods, Elizabeth McNeil and Davie Van Vactor, Harvard University Div. of Medical Sciences

McElligott, Sacha 117

The role of saccadic eye movements in visual perception

Research Mentor: Michael Paradiso
 Research Institution: Brown University
 Home Institution: New York University
 Co-Authors: Seth Akers-Campbell and Michael Paradiso, Brown University

Morris, Myshal 15

Identifying New EGFR Driver Mutations In Non Small Cell Lung Cancer

Research Mentor: Tikvah Hayes
 Research Institution: Harvard University
 Home Institution: Langston University
 Co-Authors: Tikvah Hayes and Matthew Meyerson, Harvard University Div. of Medical Sciences

Muñoz, Andrew 57

Protein Fold Switch in High-Identity Sequence Space?

Research Mentor: Vincent Hilser
 Research Institution: Johns Hopkins University
 Home Institution: George Fox University
 Co-Authors: Keila Sheetz, Miranda Russo, James O. Wrabl and Vincent J. Hilser, Johns Hopkins University

Muro Barrios, Raymundo 90

Investigations of impact-induced traumatic brain injury using a mouse model.

Research Mentor: Kaliat T. [KT] Ramesh
 Research Institution: Johns Hopkins University
 Home Institution: University of Illinois at Urbana-Champaign
 Co-Authors: Kaliat T. Ramesh, Vassilis Koliatsos and Sumita Rajpurohit, Johns Hopkins University

Sara Near 121*BMP4 and its Role in Epilepsy*

Research Mentor: Judy Liu

Research Institution: Brown University

Biological Sciences

Home Institution: Amherst College

Co Authors: Judy Liu, Felix Chan, Kristin Karpowicz, Kristy Wharton and Adriano Taglietti, Brown University

Nguyen, Jenny 16*Angiotensin-Converting Enzyme 2 Modulates Innate Immune Response to Bacterial Lung Infection*

Research Mentor: HongPeng Jia

Research Institution: Johns Hopkins University

Home Institution: University of Pennsylvania

Co-Authors: Hongpeng Jia, Chhinder Sodhi and David Hackam, Johns Hopkins University

Palacios, Andrew 58*The Effect Of Over-Expression Of An Engineered RAD18 Variant On Repair Outcomes At CRISPR/Cas9 Induced Double Stranded Breaks*

Research Mentor: Alberto Ciccia

Research Institution: Columbia University

Home Institution: Columbia University

Co-Authors: Tarun Nambiar, Anuj Gupta and Alberto Ciccia, Columbia University

Palmer, Jasmin 91*Design of a Light Delivery System for Visual Servoing of Scissor Locations During Photoacoustic-Guided Liver Surgery*

Research Mentor: Muyinatu Bell

Research Institution: Johns Hopkins University

Home Institution: Massachusetts Institute of Technology

Co-Authors: Muyinatu Bell, Johns Hopkins University

Parkins, Sharon 59*Investigating Sympathetic Satellite Glial Cells' Contribution to a Blood-Nerve Barrier*

Research Mentor: Aurelia Mapps

Research Institution: Johns Hopkins University

Home Institution: Oakwood College

Co-Authors: Rejji Kuruvilla and Aurelia Mapps, Johns Hopkins University

Pearson, Hannah 118*Imagine That: The Impact Of Episodic Simulation On Intergroup Empathy*

Research Mentor: Mina Cikara

Research Institution: Harvard University

Home Institution: North Dakota State University

Co-Authors: Mina Cikara, Marius Vollberg and Brendan Gaesser, Harvard University

Pereda, Guillermo 17*Role of Angiotensin Type I Receptor (AT1R) in Losartan (ARB) Modulation of Transforming Growth Factor-Beta Signaling*

Research Mentor: Enid Neptune

Research Institution: Johns Hopkins University

Home Institution: University of Chicago

Co-Authors: Enid Neptune, Alla Malinina and Sarah Gidner, Johns Hopkins University

Perez Rodriguez, Mathiu 109*Identification and Characterization of Cysteine Proteases Regulating Nedd8 Cleavage*

Research Mentor: Sara Buhrlage

Research Institution: Harvard University

Home Institution: City College of New York

Co-Authors: Robert S Magin and Sara Buhrlage, Harvard University Div. of Medical Sciences

Ramos, Andres 110*Diagram Algebra*

Research Mentor: Rosa Orellana

Research Institution: Dartmouth College

Home Institution: UPR-Rio Piedras

Co-Authors: Dylan Cruz, Fermín Arraiza and Rosa Orellana, Dartmouth College

Reinhold-Larsson, Nicole 18*Transcervical infection of Chlamydia muridarum elicits a more robust immune response in mice than intravaginal infection*

Research Mentor: Michael Starnbach

Research Institution: Harvard University

Home Institution: Ohio State University

Co-Authors: Jennifer Helble and Michael Starnbach, Harvard University Div. of Medical Sciences

Remick, Brenna 19*Combining Immune Checkpoint Blockade with CAR T-cell Therapy*

Research Mentor: Louise Treanor

Research Institution: Novartis Institutes for BioMedical Research

Home Institution: Cornell University

Co-Authors: Louise Treanor, Novartis Institutes for BioMedical Research

Reyes, Joel 20*Spatial and developmental mapping of choroid plexus macrophages in a maternal immune activation (MIA) model*

Research Mentor: Maria Lehtinen

Research Institution: Harvard University

Home Institution: University of Texas at El Paso

Co-Authors: Maria Lehtinen, Jin Cui and Morgan Shannon, Harvard University Div. of Medical Sciences

Reyes, Michaela 60

Finding the Achilles Heel of Tumors Driven by Dysregulated Ras Signaling

Research Mentor: Yolanda Sanchez
 Research Institution: Dartmouth College
 Home Institution: Barry University
 Co-Authors: Yolanda Sanchez, Jewelia Durant and Stephanie Bouley, Dartmouth College

Reyes Aguirre, Karla 61

Gene Editing for Dermal Cells In Vivo

Research Mentor: Ya-Chieh Hsu
 Research Institution: Harvard University
 Home Institution: Harvard University
 Co-Authors: Ya-Chieh Hsu, Meryem Gonzalez, Yulia Shwartz, Michael Florea and Kexian Zhu, Harvard University

Ricard, Jordyn 119

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Research Mentor: Matthew Nock
 Research Institution: Harvard University
 Home Institution: Northwestern University
 Co-Authors: Franchesca Ramirez and Matthew K. Nock, Harvard University

Ringham, Olivia 21

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Research Mentor: Honorine Ward
 Research Institution: Tufts University
 Home Institution: UMass Amherst
 Co-Authors: Honorine Ward and Hymlaire Lamisere, Tufts University

Rivera, Alma 62

Dynamics of Type III Secretion System YopE-SycE interactions in live Yersinia enterocolitica

Research Mentor: Andreas Gahlmann
 Research Institution: University of Virginia
 Home Institution: University of Virginia
 Co-Authors: Alecia Achimovich and Andreas Gahlmann, University of Virginia

Rivera-López, Carlos 63

Uncovering Subcellular Localization and Substrate Specificity of the TPR domain of O-GlcNAc Transferase

Research Mentor: Christina Woo
 Research Institution: Harvard University
 Home Institution: UPR-Mayaguez
 Co-Authors: Daniel Ramírez and Christina Woo, Harvard University

Rodriguez-Sierra, Efrain 120

Evaluating Components of Bicultural Identity of Puerto Ricans and Other Latin Americans Living in the United States

Research Mentor: Elizabeth Losin
 Research Institution: University of Miami
 Home Institution: UPR-Rio Piedras
 Co-Authors: Morgan Gianola, University of Miami; Elizabeth Losin, University of Maryland, Baltimore County

Romney, Carlan 64

Using CRISPR-Mediated Mutagenesis To Analyze Phosphoregulation Of Ethylene Synthesis In Arabidopsis thaliana

Research Mentor: Alison Delong
 Research Institution: Brown University
 Home Institution: University of the Virgin Islands
 Co-Authors: Alison Delong, Brown University

Rowell, Maya 22

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Research Mentor: Jamie Spangler
 Research Institution: Johns Hopkins University
 Home Institution: New York University
 Co-Authors: Jamie Spangler and Seth Ludwig, Johns Hopkins University

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Research Mentor: Xin Chen
 Research Institution: Johns Hopkins University
 Home Institution: Williams College
 Co-Authors: Rio Salazar, Lydia Sohn, Elizabeth Kahney and Xin Chen, Johns Hopkins University

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Research Mentor: Caroline Palavicino-Maggio
 Research Institution: Harvard University
 Home Institution: Saint Mary's University
 Co-Authors: Caroline Palavicino-Maggio and Ed Kravitz, Harvard University Div. of Medical Sciences

Sanders, Danae 68

Analyzing the Effects of Aberrant Light Exposure on Gene Expression in the Suprachiasmatic Nucleus

Research Mentor: Haiqing Zhao
 Research Institution: Johns Hopkins University
 Home Institution: Howard University
 Co-Authors: Haiqing Zhao and Michael Thomsen, Johns Hopkins University

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Investigation of the temporal and spatial expression of a candidate gene regulating stem cell proliferation in Aquilegia flowers.

Research Mentor: Elena Kramer
 Research Institution: Harvard University
 Home Institution: California State Polytechnic University, Pomona
 Co-Authors: Min Ya and Elena Kramer, Harvard University

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Research Mentor: Sen Zhang
 Research Institution: University of Virginia
 Home Institution: UPR-Ponce
 Co-Authors: Yulu Zhang and Sen Zhang, University of Virginia

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Research Mentor: Marquis Bey
 Research Institution: Cornell University
 Home Institution: Cornell University
 Co-Authors: Raven Ariel Schwam-Curtis, Cornell University

Seidenberg, Alec..... 23

The effects of early life stress on development of circuitry underlying reward processing and depression

Research Mentor: Kevin Bath
 Research Institution: Brown University
 Home Institution: Hunter College
 Co-Authors: Meghan Gallo, Haley Goodwill and Kevin Bath, Brown University

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Research Mentor: Rachelle Gaudet
 Research Institution: Harvard University
 Home Institution: Brandeis University
 Co-Authors: Rachelle Gaudet and Shamayeeta Ray, Harvard University

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Research Mentor: Hey-Kyoung Lee
 Research Institution: Johns Hopkins University
 Home Institution: Barry University
 Co-Authors: Rinki Saha and Hey-Kyoung Lee, Johns Hopkins University

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In Vitro Characterization of Transcription Factor Binding to a DNA Library of Nucleosome Core Particles

Research Mentor: Martha Bulyk
 Research Institution: Harvard University
 Home Institution: Southwestern University
 Co-Authors: Luca Mariani and Martha Bulyk, Harvard University Div. of Medical Sciences

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Research Mentor: Dr. Qiyi Tang
 Research Institution: Howard University
 Home Institution: University of Texas at Austin
 Co-Authors: Qiyi Tang, Jiang Kong and Ruth Cruz-Cosme, Howard University

Syau, Della..... 73

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Research Mentor: Maria Lehtinen
 Research Institution: Harvard University
 Home Institution: UC San Diego
 Co-Authors: Huixin Xu and Maria K. Lehtinen, Harvard University Div. of Medical Sciences

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Exploring The Potential For a Synergistic Activation of NK Cells by IL15 and IFN α For The Control of HIV

Research Mentor: Joel Blankson
 Research Institution: Johns Hopkins University
 Home Institution: Chaminade University of Honolulu
 Co-Authors: Joel Blankson and Abena Kwaa, Johns Hopkins University

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Research Mentor: Benjamin Madej
 Research Institution: Novartis Institutes for BioMedical Research
 Home Institution: Truman State University
 Co-Authors: Benjamin Madej and Eric Martin, Novartis Institutes for BioMedical Research

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Research Mentor: Peiqiang Feng
 Research Institution: Harvard University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Tom Rapoport and Peiqiang Feng, Harvard University Div. of Medical Sciences

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Research Mentor: Jonathan Reichner
 Research Institution: Brown University
 Home Institution: Tougaloo College
 Co-Authors: Brian Leblanc and Jonathan Reichner, Brown University

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Research Mentor: Venkat Bhethanabotla
 Research Institution: University of South Florida
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Roger Tipton, University of South Florida

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Research Mentor: Andrew Gordus
 Research Institution: Johns Hopkins University
 Home Institution: University of California Los Angeles UCLA
 Co-Authors: Andrew Gordus and Elana Pyfrom, Johns Hopkins University

Turner, Makayla 77

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Research Mentor: Karl Thompson
 Research Institution: Howard University
 Home Institution: Claflin University
 Co-Authors: Karl Thompson, Joseph Aubee and Jalisa Nurse, Howard University

Vazquez, Karen 93

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Research Mentor: Sauleh Siddiqui
 Research Institution: Johns Hopkins University
 Home Institution: University of Kansas
 Co-Authors: Sauleh Siddiqui, Johns Hopkins University

Velazquez Matos, Juan 78

Investigating the role of ezh1 during zebrafish developmental hematopoiesis

Research Mentor: Trista North
 Research Institution: Harvard University
 Home Institution: UPR-Humacao
 Co-Authors: Trista North and Rebecca Soto, Harvard University Div. of Medical Sciences

Vinson, Essence 79

Identifying neuronal populations in the zebrafish interpeduncular nucleus

Research Mentor: Marnie Halpern
 Research Institution: Johns Hopkins University
 Home Institution: Coppin State College
 Co-Authors: Emma Spikol and Marnie Halpern, Johns Hopkins University

Vogel, Ian 80

In Search of Regulatory Elements: Optimization of Screening Throughput for rAAV Enhancers

Research Mentor: Gordon Fishell
 Research Institution: Harvard University
 Home Institution: Bucknell University
 Co-Authors: Jordane Dimidschstein, Gordon Fishell and Douglas Vormstein-Schneider, Harvard University Div. of Medical Sciences

Watt, Mikayla 81

Understanding the Cis- and Trans-Regulation of the Sex Gene Determination Switch Sex Lethal in the Drosophila melanogaster Germline

Research Mentor: Mark Van Doren
 Research Institution: University of Pennsylvania
 Home Institution: Johns Hopkins University
 Co-Authors: Raghav Goyal, Ellen Baxter and Mark Van Doren, Johns Hopkins University

Wilkerson, Elijah 26

Heterogeneity of Aspergillus spores to macrophage-mediated killing

Research Mentor: Joshua Obar
 Research Institution: Dartmouth College
 Home Institution: Morehouse College
 Co-Authors: Joshua Obar and Xi Wang, Dartmouth College

Williams, Hastings 82

IRE1 and the Unfolded Protein Response in Tomatoes

Research Mentor: Mark Johnson
 Research Institution: Brown University
 Home Institution: Tougaloo College
 Co-Authors: Daniel Solis and Mark Johnson, Brown University

Yamauchi, Jessica 83

Characterizing the Novel Zebrafish Tft^{Δ168N} Scoliosis Mutant

Research Mentor: Pamela C. Yelick
 Research Institution: Tufts University
 Home Institution: CSU Northridge
 Co-Authors: Pamela C. Yelick, Tufts University



New Doctoral Scholars

The Leadership Alliance congratulates the following Doctoral Scholars who have completed their PhDs and MD-PhDs.

Daisy Camacho-Thompson, PhD

*BS, 2010, DePaul University
PhD, 2016, University of California Los Angeles*

Princess Gilbert, PhD

*BS, 2007, University of California Los Angeles
PhD, 2017, University of California Los Angeles*

Herminio Guajardo, PhD

*BS, University of Texas Brownsville
PhD, 2017, Harvard Medical School*

Maria Jones, PhD

*BS, 2013, Missouri State University
PhD, 2016, University of Missouri-Columbia*

Vladimir Enrique Medenica, PhD

*BS, 2012, University of Southern California
PhD, 2017, Princeton*

Felicia Morales, PhD

*BA, 2009, Purdue University
PhD, 2018, University of Notre Dame*

Bryan Ramson, PhD

*BS, 2009, Howard University
PhD, 2017, University of Michigan*

Ivan Valdez, PhD

*BS, 2010, University of Texas Brownsville
PhD, 2016, Harvard University*



Doctoral Scholar Participants

George Aninwene II

*Postdoctoral Fellow
California NanoSystems Institute
University of California Los Angeles UCLA
g.aninwenell@gmail.com*

Amalia Ávila-Figueroa

*Sales Manager, Biocytogen LLC.
amalia.avila@biocytogen.com*

Ashon Bradford

*Research Administrator
Office of Knowledge Enterprise Development
Arizona State University
ashonbradford@gmail.com*

Lanissa Brown-Baker

*Pharmacologist
Center for Tobacco Products
Food and Drug Administration
drlanissa@yahoo.com*

Angel Byrd

*Ethnic Skin Fellow
Dermatology
Johns Hopkins University
abyrd11@jhmi.edu*

Daisy Camacho-Thompson

*Postdoctoral Research Fellow
Psychology
Arizona State University
daisycamacho@gmail.com*

Gahodery Cambry

*Senior Organizer
Organizing
Unite Here International Union
gkcambry@gmail.com*

Raquel Castellanos

*Assistant Director- Office of Research and
Diversity Training
Perelman School of Medicine
University of Pennsylvania
rcastell@pennmedicine.upenn.edu*

JoyAnn Courtney

*Program Director
Translational Research Program
National Cancer Institute
jphillipsrohan@gmail.com*

Arnaldo Diaz

*Assistant Dean for Research Training
Programs
University of Pennsylvania
diaz@pennmedicine.upenn.edu*

Lauren Eldridge

*Programs Coordinator and Lecturer
UNCF/Mellon Programs
Spelman College
eldridge.lauren.e@gmail.com*

Marisa Galvez

*Associate Professor
French
Stanford University
mgalvez@stanford.edu*

Jade Gibbons

*Forensic Scientist
Forensic Services Bureau
Ventura County, California
jadejgibbons1@gmail.com*

Princess Gilbert

*Visiting Assistant Professor in Biology
W.M. Keck Sciences of Pitzer, Scripps &
Claremont McKenna Colleges
University of California Los Angeles UCLA
ps.gilbert@ucla.edu*

Teshell Greene

*AAAS Science & Technology Policy Fellow
Division of Graduate Education, Education
and Human Resources Directorate
National Science Foundation
teshellpg@gmail.com*

Brian Hannah

*Major
Medical Service Corps
U.S. Army
bhannahphd@gmail.com*

Jerainne Heywood

*Senior Lubricants and Fuels Technologist
Product Definition
General Electric Transportation
jerainne.heywood@gmail.com*

Marta Holliday

*Associate Professor
Languages and Literatures
Alabama State University
mholliday@alasu.edu*

Malo Hutson

*Associate Professor of Urban Planning and
Director of the Urban Community and
Health Equity Lab
Graduate School of Architecture, Planning,
and Preservation; Earth Institute at
Columbia University
Columbia University
mah2328@columbia.edu*

Marcus Jones

*Sr. Manager
Planning, Strategy and Operations
Regeneron Pharmaceuticals, Inc.
marcusjones06@gmail.com*

Ferentz Lafargue

Dean
Saybrook College
Yale University
ferentz@gmail.com

Christina Medina-Ramirez

Director, Skirball Science Learning Center
Office of the Provost
Hunter College
cm950@hunter.cuny.edu

Yazmin Mueller-Figueroa

Assistant Professor & Business Development
Strategy Specialist for Latin-American
Market
The School of Brain and Behavioral Sciences
& President's Office
National Autonomous University of Mexico
yazmf@hotmail.com

Antoinette Nelson

Postdoctoral Researcher
Ernest Mario School of Pharmacy
Rutgers University
antgnelson@gmail.com

Courtnei Newsome

Research Investigator
Immuno- and Molecular Toxicology
Bristol-Myers Squibb
courtnei.newsome@gmail.com

Teresa Nguyen

Academic Advisor
College of Letters and Science, Academic
Advising Services
University of Wisconsin Madison
teresanguyen@gmail.com

Kwame Osei-Sarfo

Director, Bridge to the Ph.D. Program
School of Professional Studies
Columbia University
kwame.osei.sarfo@gmail.com

Cesar Perez

Branch Chief
Office of Compliance
Food and Drug Administration
cesar.perez@fda.hhs.gov

Damani Piggott

Assistant Dean for Graduate Biomedical
Education and Graduate Student Diversity
Medicine/Epidemiology
Johns Hopkins University
dpiggott1@jhmi.edu

Chelsea Pinnix

Assistant Professor
Radiation Oncology
University of Texas M.D. Anderson Cancer
Center
chelsea.pinnix@gmail.com

Teresa Ramirez

Program Manager
Office of Sponsored Programs, Diversity and
Grants Administration
Federation of American Societies for
Experimental Biology (FASEB)
teresa_ramirez@alumni.brown.edu

Frank Roberts

Faculty
NYU Gallatin
New York University
frank.roberts@yale.edu

Yisa Rumala

Senior Engineer
Research and Development
Northrop Grumman Corporation-AOX
yrumala@gmail.com

Edgardo Sanabria-Valentín

Associate Program Director
Program for Research Initiatives in Science
and Math (PRISM)
John Jay College of Criminal Justice CUNY
esanabriavalentin@jjay.cuny.edu

Melissa Santos

JD Candidate
Law
University of Michigan-Ann Arbor
mcsa@umich.edu

Jeanelle Spencer

Director of Education
Education
American Association of Nurse Practitioners
jmspencerphd@gmail.com

David Stout

Science and Technology Policy Fellow
National Science Foundation
dastout@nsf.gov

Tammi Taylor

Assistant Professor
Biology
Jackson State University
tammi.m.taylor@jsums.edu

Armāndo Tolliver

Education Practitioner
Administration
School District of Philadelphia
tolliveredd@gmail.com

Scharri Walker

Assistant Professor; Chair
Biology
Tougaloo College
scharri.walker@gmail.com

Zakiya Whatley

Program Manager
Biological Sciences Graduate Program
University of Maryland, College Park
znw@me.com

Shanta Whitaker

Vice President
Health Policy
Venn Strategies
shantamwhitaker@gmail.com

Candace Wicks

Assistant Professor of Biology/Pre-Health
Advisor
Biology
Hardin-Simmons University
candace.e.wicks@hsutx.edu

Latasha Wright

Chief Scientist
BioBus, Inc.
latasha.wright@gmail.com

Arturo Zavala

Associate Professor
Psychology
CSU Long Beach
arturo.zavala@csulb.edu



Faculty, Administrators and Other Participants

Asem Abdulahad

*Assistant Professor
Chemistry
Xavier University of Louisiana
aabdulah@xula.edu*

Brittany Ann Allison

*Postdoctoral Fellow; Program
Coordinator, SyNERGI
The Graduate School
Vanderbilt University
brittany.a.allison@vanderbilt.edu*

Carlos Alonso

*Dean
Graduate School of Arts and Sciences
Columbia University
calonso@columbia.edu*

Jude Amoako

*Program Assistant
Political Science
University of Rhode Island
jude_amoako@my.uri.edu*

Mentewab Ayalew

*Associate Professor and Vice Chair
Biology
Spelman College
mayalew@spelman.edu*

Earnestine Baker

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

Carina Beck

*Director, Alln Yarnell Center for Student
Success
Montana State University Bozeman
Email: cbeck@montana.edu*

Leslie Booren

*Managing Director
Curry School of Education
University of Virginia
booren@virginia.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

*Program Coordinator of Biology
Biology
Dillard University
ebuckles@dillard.edu*

Virgelica Cabral

*Program Assistant
Health Sciences
University of Rhode Island
vcabral@my.uri.edu*

Makisha Cameron

*Director
Coinsetters LLC
mcameron0399@gmail.com*

Nathan Catelli

*Program Assistant
ncatelli2113@gmail.com*

Edwin Clayton

*Director of Training and Professional
Development
Princeton Neuroscience Institute
Princeton University
ec12@princeton.edu*

Zakiya Collier

*Program Assistant
Center for the Humanities
New York University
zakiya.collier@nyu.edu*

César Colón-Montijo

*Manager, GSAS Summer Research Program
Graduate School
Columbia University
cac2221@columbia.edu*

Tracy Costello

*Chair, Board of Directors
National Postdoctoral Association
Moffitt Cancer Center
tracy.costello@moffitt.org*

Michael Cross

*Director
Office for Undergraduate Research
University of South Florida
mcross5@usf.edu*

Donald Dantzler

*Fair Play Project Outreach Specialist
University of Wisconsin, Madison
ddantzler@wisc.edu*

Regina Dixon-Reeves

*Assistant Vice Provost for Diversity &
Inclusion
Office of the Provost
University of Chicago
rdixonre@uchicago.edu*

Mareshia Donald

*Scientific Programs Manager and Diversity
and Inclusion Partner
Human Resources
Novartis Institutes for BioMedical Research
mareshia.donald@novartis.com*

Gabrielle DoVale

*Program Assistant
The Leadership Alliance
Brown University
gabz2098@gmail.com*

Maria DoVale

*Conference & Events Specialist
Executive Office
Brown University
Maria_DoVale@brown.edu*

Jaimy Escobedo

*Program Assistant
Textiles & Designs
University of Rhode Island
jaimy_escobedo@my.uri.edu*

Jahmese Fort

*Fair Play Project Outreach Coordinator
University of Wisconsin, Madison
jmfort@wisc.edu*

Janine Franklin

*Associate Director of Pipeline Programs
Office of Academic Leadership,
Advancement and Diversity
University of Chicago
jmfranklin@uchicago.edu*

Michael Gaines

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

Leah Gibbons

*Program Coordinator
Education
American Society For Microbiology
lgibbons@asmusa.org*

Leislle Godo-Solo

*Education Programs Specialist
Institute for Recruitment of Teachers
lgodosolo@andover.edu*

Karina Gonzalez Herrera

*Assistant Director of Diversity and
Minority Affairs, DMS
Division of Medical Sciences
Harvard University
knherrer@fas.harvard.edu*

Vanessa Gonzalez-Perez

*Assistant Dean
The Graduate School
Princeton University
vanessagp@princeton.edu*

Jose Gorbea

*Graduate Student
University of Pennsylvania
gorbea@mail.med.upenn.edu*

Ja'Wanda Grant

*Special Assistant to the Provost for Scholar
Development and Institutional Alliances
Xavier University of Louisiana
jgrant4@xula.edu*

Louise Hainline

*Professor, MARC Director,
TLA Institutional Coordinator
Psychology
Brooklyn College CUNY
louiseh@brooklyn.cuny.edu*

Kat Haklin

*Postdoctoral Fellow
German and Romance Languages and
Literatures
Johns Hopkins University
khaklin1@jhu.edu*

Maija Hallsmith

*Diversity Initiatives Program Assistant
Graduate School
Brown University
maija_hallsmith@gmail.com*

Adam Hammond

*Curriculum Director / Senior Lecturer
Biophysical Sciences
University of Chicago
ahammond@uchicago.edu*

Linda Harris

*Director of Postdoctoral Talent Acquisition
Academic Programs
St. Jude Children's Research Hospital
linda.harris@stjude.org*

Mark Hernandez

*Professor
Dept of Civil, Environmental and
Architectural Engineering
mark.hernandez@colorado.edu*

Sara Hernandez

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

Kimberly Jackson

*Chair and Associate Professor
Chemistry and Biochemistry
Spelman College
kjackson@spelman.edu*

Keisha John

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

Eartha Johnson

*Faculty/Faculty Mentor
Psychology
Dillard University
ejohnson@dillard.edu*

Barbara Kahn

*Coordinator of Undergraduate Programs
The Leadership Alliance
Brown University
barbara_kahn@brown.edu*

Christina Keeton

*Program Manager and Co-Director
Biomedical Research Education and Training
christina.k.keeton@vanderbilt.edu*

Edward Kim

*Technical Specialist
edwardkim73@gmail.com*

W. Marcus Lambert

*Assistant Dean of Diversity and Student Life
Graduate School of Medical Sciences
Weill Cornell Graduate School
wil2009@med.cornell.edu*

Dexter Lee

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

Patricia Lee-Robinson

Associate Provost
Office of Health Professions Advising and
Undergraduate Research
Chaminade University of Honolulu
Plrobins@chaminade.edu

Benjamin Levitt

Data Analytics and Communications
Manager
Tri-Institutional MD-PhD Program
Weill Cornell Medicine
bel2021@med.cornell.edu

Ashleigh LoVette

Project Assistant
The Leadership Alliance
Brown University
ashleigh_lovette@brown.edu

Robert Mack

Chief Diversity Officer, Medford
and SMFA Campuses
Office of the Provost
Tufts University
robert.mack@tufts.edu

Gwynneth Malin

Director
Center for the Humanities
New York University
gcm207@nyu.edu

Olivia Mansion

Manager of Operations
Entrepreneurship Center
University of Tampa
olivia_mansion@alumni.brown.edu

Samiah Moustafa

Visiting Assistant Professor
Institute at Brown for Environment &
Society
Brown University
samiah_moustafa@brown.edu

Karl Munger

Professor
Development, Molecular and
Chemical Biology
Tufts University
karl.munger@tufts.edu

Ashton Murray

Program Manager for Diversity and
Inclusion
Sackler Institute for Biomedical Sciences
New York University
ashton.murray@nyumc.org

Antionette Mutcherson

Director
Financial Literacy
Coinsetters LLC
amutcherson@gmail.com

Chrystie Naeole

Assistant Professor
Natural Sciences and Mathematics
Chaminade University of Honolulu
chrystie.naeole@chaminade.edu

Michelle Nearon

Associate Dean
Graduate School of Arts and Sciences
Yale University
michelle.nearon@yale.edu

Stephen Nelson

Senior Scholar Leadership Alliance and
Professor Educational Leadership,
Bridgewater State University
Educational Leadership
Brown University
stephen_j_nelson@brown.edu

Christine O'Brien

Program Officer
PGA-Fellowships Office
National Academies of Sciences,
Engineering, and Medicine
FellowshipsOffice@nas.edu

Joel Oppenheim

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

Martha Ordoñez

Graduate Student
Harvard University
mordonez@g.harvard.edu

Stephanie Parsons

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

Christopher Peete

Clinical Training Consultant
Clinical Services
Youth Villages
christopher.peete@youthvillages.org

Dinko Pocanic

Professor, Associate Dean for Graduate
Programs in Arts and Sciences
Physics
University of Virginia
pocanic@virginia.edu

Asabe Poloma

Assistant Dean of the College,
Associate Director of MMUF
Office of the Dean of the College
Brown University
asabe_poloma@brown.edu

Muthukrishna Raja

Interim Vice Provost for Research
& Professor of Chemistry
Sponsored Programs Office
Claflin University
mrja@claflin.edu

Hank Randall

Photographer
Randall Photography
hank@randallphotography.com

Patricia Rea

Associate Director for Admissions
Graduate Division
University of Pennsylvania
patrea@sas.upenn.edu

Irelene Ricks

Director of Diversity
Diversity in Life Science Programs
Keystone Symposia on Molecular and
Cellular Biology
irelener@keystonesymposia.org

Amy Roach

Montana State University
Summer Program Coordinator
Amy.Roach@montana.edu

Carlos Rodriguez

STEM Education, Energy & Workforce,
Senior Research Scientist
crodr@att.net

Darlene Saporu

Assistant Dean for Diversity and Inclusion
Deans Office
Johns Hopkins University
dsaporu1@jhu.edu

Utsav Schurmans

*Director of Research and Scholar Programs
Wharton Undergraduate Division
University of Pennsylvania
schurman@wharton.upenn.edu*

Nancy Schwartz

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

Jane Seibel

*Assistant Dean of Recruiting, Diversity
and Communications
Guarini School of Graduate and
Advanced Studies
Dartmouth College
jane.b.seibel@dartmouth.edu*

Daniel Setlow

dlsetlow@gmail.com

Kelly Jordan Sciutto

*Dean for Biomedical Graduate Programs
University of Pennsylvania
jordank@upenn.edu*

Rochelle Smith

*Assistant Provost, Diversity Initiatives
Office of the Provost
Washington University in St. Louis
rsmith@wustl.edu*

Keilin Solis

*Program Assistant
Engineering
University of Rhode Island
keilin_solis@my.uri.edu*

Andrea Solomon

*Vice Dean
Graduate School of Arts and Sciences
Columbia University
as660@columbia.edu*

Laurel Southard

*Director of Undergraduate Research
Vice Provost for Academic Innovation
Cornell University
les3@cornell.edu*

Cynthia Spence

*Associate Professor
Sociology
Spelman College
cspence@spelman.edu*

Julie Sterling

*Assistant Professor
Medicine
Vanderbilt University
julie.sterling@vanderbilt.edu*

Denzil Streete

*Assistant Director of Diversity
Office for Graduate Student Development
and Diversity
Yale University
denzil.streete@yale.edu*

Natalie Strobach

*Director Of Undergraduate Research
Krieger School of Arts and Sciences
Johns Hopkins University
strobach@jhu.edu*

Naoko Tanese

*Associate Dean for Biomedical Sciences
Sackler Institute of Graduate Biomedical
Sciences
New York University
tanese01@med.nyu.edu*

Ayana Teal

*Assistant Director of Recruitment and
Marketing
Office of Graduate Admissions
Johns Hopkins University
ateal@jhu.edu*

Sheila Thomas

*Dean for Academic Programs and Diversity/
Asst Professor of Medicine
Graduate School of Arts and Sciences and
Division of Medical Sciences
Harvard University
stthomas@g.harvard.edu*

Susanne Tranguch

*Assistant Dean for Biomedical Sciences
Sackler Institute of Graduate Biomedical
Sciences
New York University
susanne.tranguch@nyumc.org*

Amanda Tufekcier

*Program Manager
Sackler Institute
New York University
amanda.tufekcier@nyumc.org*

Susan VanderKam

*Manager of Diversity Initiatives and
Assc. Dir. of Undergraduate Studies
Chemistry
Princeton University
skillian@princeton.edu*

Kizzy Vazquez

*BP-ENDURE Program Coordinator
Psychology
Hunter College
kv408@hunter.cuny.edu*

Angelino Viceisza

*Associate Professor
Economics
Spelman College
aviceisz@spelman.edu*

Irene Wallrich

*Program Coordinator
Graduate School
Vanderbilt University
irene.l.wallrich@vanderbilt.edu*

Brian Walton

*Senior Vice President and Associate Dean
Graduate School
St. Jude Children's Research Hospital
brian.walton@stjude.org*

Catherine Will

*Program & Projects Manager
Office of Graduate Student Affairs
Johns Hopkins University
cwill@jhmi.edu*

Megan Williams

*Assistant Director, MD/PhD Program
Vanderbilt University
megan.williams@vanderbilt.edu*

John Wilson

*Dean (Ret.)
College of Arts and Sciences
Dillard University
jewilson3@cox.net*

Melvin Wilson

willyjameswright@gmail.com

Winona Wynn

*Associate Professor, Humanities
Chair English and Humanities
at Heritage University
Heritage University
wynn_w@heritage.edu*



Graduate Student & Post Bac Participants

Rhiannon Aguilar

Weill Cornell Medical College
rha2004@med.cornell.edu

Shanique Alabi

Yale University
shanique.alabi@yale.edu

Anayvelyse Allen-Mossman

Columbia University
aa2900@columbia.edu

David Bautista

Brown University
davidb1295@gmail.com

Post Bac Amanda Buch

Weill Cornell Graduate School
amb2022@med.cornell.edu

Daniel Cabrera

Weill Cornell Medicine
dac9130@med.cornell.edu

Asais Camila Uzcategui

University of Colorado Boulder
asuz6143@colorado.edu

Justina Caushi

Johns Hopkins University
jcaushi1@jhmi.edu

Stacey Ceron

Dartmouth College
stacey.ceron.gr@dartmouth.edu

Sierra Degale

New York University
sld392@nyu.edu

Lisa Del Sol

Columbia University
ld2726@columbia.edu

Ambar Delgado Carrion

Brown University
ambar_delgado_carrion@brown.edu

Post Bac Carlos Detres Roman

Vanderbilt University
carlos.r.detres.roman.1@vanderbilt.edu

Norrell Edwards

University of Maryland, College Park
Nedwards220@gmail.com

Brittany Fox-Williams

Columbia University
bnf2102@columbia.edu

Keyanah Freeland

New York University
kfreeland@nyu.edu

Melisa Fuentes

Dartmouth College
melisa.a.fuentes.gr@dartmouth.edu

David Garcia

Brown University
David_Garcia@brown.edu

Jose Gorbea

University of Pennsylvania
gorbea@mail.med.upenn.edu

Robert Gutierrez

Brown University
robert.gutierrez@brown.edu

Matthew Harris

Duke University
MatthewHarris732@gmail.com

Geena Ildefonso

Vanderbilt University
geena.ildefonso@vanderbilt.edu

Yanabah Jaques

Brown University
yanabah_jaques@brown.edu

Post Bac Andrea Marton

University of Colorado Boulder
andrea.marton@colorado.edu

Dana Muñoz Pacheco

Temple University
d.munizpacheco@temple.edu

Chimwemwe Mwase

Harvard University
chimwemwemwase@g.harvard.edu

Elise Myers

Columbia University
e.myers@columbia.edu

Bretton Nabit

Vanderbilt University
bretton.p.nabit@vanderbilt.edu

Tolu Omokehinde

Vanderbilt University
tolu.omokehinde@vanderbilt.edu

Martha Ordoñez

Harvard University
mordonez@g.harvard.edu

Emily Radke

New York University
emily.radke@nyumc.org

Gerardo Reyes Chavez

Brown University
gerar.lreyes@gmail.com

D'Ondre Swails

Brown University
dondre_swails@brown.edu

Andres Villada

University of Colorado Boulder
andres.villada@colorado.edu

Post Bac Jean Rivera

Weill Cornell Graduate School
jkr2004@med.cornell.edu

Kayan Tam

New York University
kayan.tam@med.nyu.edu

Joseph Villanueva

University of Colorado Boulder
joseph.villanueva@colorado.edu

Santas Rosario

University of Miami
santasrosario@gmail.com

Phillip Thomas

New York University
phillip.thomas@nyumc.org

Dominic Walker

Columbia University
dtw2120@columbia.edu

Tanya Sanabria

UC Irvine
tsanabri@uci.edu

Brittney Threatt

Brown University
brittney_threatt@brown.edu

Samantha Walker

University of Colorado Boulder
samantha.walker-1@colorado.edu

Anthony Scruse

Yale University
anthony.scruse@yale.edu

Emma Tran

Yale University
emma.tran@yale.edu

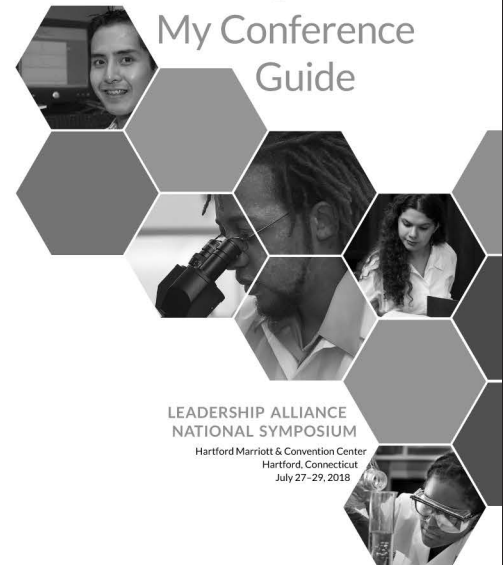
Elisa Wengert

University of Virginia
ecw5sc@virginia.edu

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Guide



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Hartford, Connecticut
July 27-29, 2018



Undergraduate Participants

Abalo-Toga, Mariam

Yale University
University of Maryland, Baltimore County
mariam9@umbc.edu

Abbas, Leena

New York University
Wayne State University
fw0607@wayne.edu

Acevedo, Sergio

Columbia University
UPR-Aguadilla
sergio.acevedo1@upr.edu

Adegbite, Oluwaseun

Dartmouth College
UC Irvine
oadegbit@uci.edu

Adelgren, Paul

University of Colorado Boulder
Fort Lewis College
pradelgren@fortlewis.edu

Agarwal, Astha

University of Virginia
McGill University
astha.agarwal2013@gmail.com

Ahmed, Tonuza

University of Miami
Farmingdale State College
tonuzaahmed@gmail.com

Alexander, Ezra

University of Chicago
Amherst College
ealexander20@amherst.edu

Alfaro, Kenya

Brown University
CSU Long Beach
kenya.alfaro@student.csulb.edu

Ali, Rakim

Johns Hopkins University
University of West Alabama
r4kimali@gmail.com

Alvarez, Emmanuel

University of Pennsylvania
Rowan University
alvareze3@students.rowan.edu

Alvarez, Guillermo

Brown University
Cornell University
alvarezg1026@gmail.com

Alvarez Caraveo, Clara

Brown University
Cornell University
claraalvarezgreen@gmail.com

Amador Martínez, Karimar

University of Pennsylvania
UPR-Mayaguez
karimar.amador@gmail.com

Aponte, Natalia

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

Arboniés, Valeria

New York University
UPR-Rio Piedras
valeria.arbonies@upr.edu

Archuleta, Chloe

University of Pennsylvania
Colorado School of Mines
chloearchuleta@mines.edu

Arizaga, Fidel

University of Colorado Boulder
UC Santa Cruz
fiarizag@ucsc.edu

Arraiza Truust, Fermin

Dartmouth College
UPR-Rio Piedras
fermin.arraiza@upr.edu

Arrington, Myles

University of Virginia
University of Maryland, College Park
myles.arrington.1997@gmail.com

Asfaw, Zerubbabel

University of Chicago
Franklin and Marshall College
zafaw@fandm.edu

Astorino, Morgan

Brown University
Rutgers University
mra121@scarletmail.rutgers.edu

Azziz, Annabel

Weill Cornell Graduate School
Fordham University
aazziz@fordham.edu

Badillo, Felix

Cornell University
UPR-Aguadilla
felixsamuel1998@gmail.com

Báez Mercado, Sharimar

University of Miami
Universidad Interamericana de Puerto Rico,
Ponce
sharimarbaez@gmail.com

Báez-Caraballo, Francelis

Brown University
UPR-Mayaguez
francelis.baez@upr.edu

Barclay, Kara

Weill Cornell Medical College
Amherst College
kbarclay21@amherst.edu

Barraza, Isabel

Stanford University
University of Texas at El Paso
ibarraza5@miners.utep.edu

Barrera, Maribel

University of Colorado Boulder
University of North Texas
maribelbarrera@my.unt.edu

Barrientos, Eric

New York University
Arizona State University
ericsb1@yahoo.com

Bartholomew, Myles

Brown University
Xavier University of Louisiana
mbarthol@xula.edu

Beasley, Tykira

University of Virginia
Elizabeth City State University
tsbeasley267@students.ecsu.edu

Bechtel, John

Cornell University
Wisconsin Lutheran College
john.p.bechtel@gmail.com

Bennett, Grant

Vanderbilt University
Morehouse College
grant.bennett@morehouse.edu

Berglund, Alysia

University of Virginia
University of Hawaii Manoa
alysiam@hawaii.edu

Bernard, Timothy

Johns Hopkins University
University of Maryland, Baltimore County
berna3@umbc.edu

Berryman, Glesnesha

Columbia University
East Carolina University
berryman15@students.ecu.edu

Berumen, Gregory

Johns Hopkins University
Tufts University
Gregory.berumen@tufts.edu

Bhalgat, Avni

Harvard University
Purdue University
abhalgat@purdue.edu

Blanco, Summer

Harvard University
Johns Hopkins University
California State Polytechnic University,
Pomona
srblanco@cpp.edu

Bonsu, Kwadwo

Johns Hopkins University
University of Maryland, Baltimore County
kbonsu1@umbc.edu

Bordes, Taylor

University of Maryland, Baltimore County
Spelman College
taylorbordes@gmail.com

Bostick, Maya

University of Pennsylvania
Spelman College
mayabostick98@gmail.com

Boulanger, Kyle

Johns Hopkins University
Grand View University
kyle.boulanger@grandview.edu

Boyette, Abigail

University of Virginia
University of Virginia
ab6qb@virginia.edu

Boza, Juan

University of Colorado Boulder
Florida International University
juanm.boza@gmail.com

Bracero, Sabrina

New York University
College of William & Mary
sbracero@email.wm.edu

Brandom, Amyre

Brown University
Xavier University of Louisiana
abrandom@xula.edu

Bratton, Brenden

Johns Hopkins University
SUNY at Buffalo
babratto@buffalo.edu

Brewer, Hamadi

Dartmouth College
Morehouse College
hamadi.brewer@morehouse.edu

Briggs, Laura

Harvard University
Emory University
laura.briggs@emory.edu

Brown, Brandon

Dartmouth College
Morehouse College
bbbrandonsti@gmail.com

Bugay, John Paul

New York University
San Francisco State University
jbugay@mail.sfsu.edu

Burnette, Timothy

University of Colorado Boulder
Grinnell College
burnette1@grinnell.edu

Butts, Thalia

Johns Hopkins University
Claflin University
tbutts@claflin.edu

Buxenstein, Caroline

Johns Hopkins University
Community College of Baltimore County
buxensteinc12@yahoo.com

Calcagno, Gabriela

Weill Cornell Graduate School
Brandeis University
calcagno.gabriela@gmail.com

Camacho-Hernandez, Elaine

Harvard University
UPR-Ponce
elaine.camacho@upr.edu

Candelaria Jimenez, Astrid

Columbia University
UPR-Rio Piedras
astrid.candelaria@upr.edu

Canelo, Ricardo

University of Virginia
New York University
rc3349@nyu.edu

Cannata, Angela

University of Colorado Boulder
CSU Northridge
angela.cannata.397@my.csun.edu

Cannon, Alysa

University of Pennsylvania
Temple University
tuf92240@temple.edu

Carr, Katherine-Ann

Yale University
University of Maryland, Baltimore County
kat50@umbc.edu

Carrera, Maria

University of Pennsylvania
UPR-Mayaguez
maria.carrera1@upr.edu

Carter, Davell

New York University
Jackson State University
davellcarter@gmail.com

Castro, Matilde

Johns Hopkins University
University of Texas at Austin
mati.castro.06@gmail.com

Ceballos, Victor

Weill Cornell Medical College
Franklin and Marshall College
vceballo@fandm.edu

Chapekis, Athena

Stanford University
Miami University
achapekis@gmail.com

Charles, LeslieAnn

Harvard University
Fayetteville State University
lcharle2@broncos.uncfsu.edu

Charpentier, Claire

Harvard University
Franklin and Marshall College
ccharpen@fandm.edu

Chau, Isabelle

Weill Cornell Medical College
Stanford University
ichau@stanford.edu

Cheji, Hind

Johns Hopkins University
Community College of Baltimore County
Hind.cheji.pr@gmail.com

Chen, Annie

Tufts University
Simmons College
chena5@simmons.edu

Chen, Jingjia

Novartis Institutes for BioMedical Research
Boston College
chenaow@bc.edu

Chikukwa, Ratidzai

University of Pennsylvania
CSU Fullerton
shirleychikukwa@csu.fullerton.edu

Childers, Chazman

Harvard University
Florida International University
cchil018@fiu.edu

Chong, Michelle

Stanford University
University of Chicago
mchong@uchicago.edu

Cirillo, Victoria

University of Chicago
Fordham University
vcirillo2@fordham.edu

Clark, Kendall

Brown University
Saint John's University
clark.kendallj@gmail.com

Clayton, Alyssa

Brown University
San Diego Mesa College
alyssakclayton@gmail.com

Coello, Pablo

Harvard University
University of Texas at Austin
pcoello2010@gmail.com

Cole, Carson

Brown University
Weber State University
carsoncalcole1@gmail.com

Cole, Dezmond

Johns Hopkins University
University of Montevallo
dcole3@forum.montevallo.edu

Colon Plaza, Sarah

University of Colorado Boulder
Florida International University
colon.sarah01@gmail.com

Contreras, Veronica

University of Colorado Boulder
UC Davis
vacontreras@ucdavis.edu

Corseri, Adrienne

Harvard University
City College of New York
adrienne.corseri@gmail.com

Cort, Anthony

Johns Hopkins University
UC Riverside
anthony.cort@yahoo.com

Coto, Andrea

Stanford University
San Jose State University
andrea.coto@sjsu.edu

Coto Villanueva, Miguel

University of Colorado Boulder
San Francisco State University
mecoto7@gmail.com

Crawley, Kristina

University of Virginia
Elizabeth City State University
kriscraw1@aol.com

Cruz, Bianca

Stanford University
California State Polytechnic University,
Pomona
bccruz@stanford.edu

Cruz Fonseca, Dylan

Dartmouth College
UPR-Rio Piedras
dylan.cruz1@upr.edu

Cruz-Vazquez, Paula

New York University
UPR-Rio Piedras
paula.cruz5@upr.edu

Curry, Samuel

University of Pennsylvania
Morehouse College
samuel.curry@morehouse.edu

Dasta Cruz, Carolina

Dartmouth College
UPR-Aguadilla
carolina.dasta@upr.edu

Daughtry, MarChé

Columbia University
Williams College
mtd2@williams.edu

Davila, David

University of South Florida
University of Miami
ddd81@miami.edu

Davis, Liesel

New York University
University of California Los Angeles UCLA
liesel70@g.ucla.edu

De La Torre, Rodrigo

Brown University
New York University
rodrigodlt96@gmail.com

de Leon, Emily

University of Virginia
DePaul University
deleonemily45@yahoo.com

DeAngelis, Gabrielle

Brown University
Clark University
gadeangelis@clarku.edu

Diaz, Jasmine

University of Virginia
Heritage University
jasmineddiaz@gmail.com

Diaz, Jessikah

University of Chicago
University of California Los Angeles UCLA
jessikahdiaz@gmail.com

Diaz, Laura

Brown University
UPR-Rio Piedras
laura.diaz13@upr.edu

Dickerson, Edward

Brown University
North Carolina A&T State University
eddieedickerson5@gmail.com

Dominguez, Tania

Brown University
UPR-Rio Piedras
tania_dominguez@brown.edu

Dorfeuille, Andy

Vanderbilt University
Morehouse College
andy.dorfeuille@morehouse.edu

Dos Santos, Reinaldo

University of Colorado Boulder
Florida Atlantic University
rdossantos2017@fau.edu

Douglas, Raquel

Columbia University
Williams College
rdd2@williams.edu

Dunn, Kameron

Stanford University
Southeastern Oklahoma State University
kamerondunn@gmail.com

Eaford, Don

Harvard University
Fayetteville State University
deaford@broncos.uncfsu.edu

Ejoh, Lindsay

Tufts University
University of Pittsburgh
lle10@pitt.edu

Elliotte, Eliza

University of Colorado Boulder
Hollins University
elliotttea@hollins.edu

Ellison, Mischa

University of Virginia
Virginia Commonwealth University
emw5m@virginia.edu

English, Lauren

Harvard University
Pomona College
englishlauren2@gmail.com

Eruaga, Isaiah

New York University
CSU Fullerton
leruaga@csu.fullerton.edu

Fausto, Alejandra

University of Pennsylvania
CSU Northridge
alejandra.fausto.692@my.csun.edu

Feliciano, Adariana

University of Chicago
UPR-Mayaguez
adariana.feliciano@upr.edu

Rojana Feliciano, Anne

Johns Hopkins University
University of Miami
axf348@miami.edu

Fladd, Christopher

University of Virginia
James Madison University
cwfladd@gmail.com

Flint, Jade

University of Virginia
Howard University
jadeflint98@gmail.com

Flores, Annabelle

Johns Hopkins University
Pontifical Catholic University of Puerto Rico
afloresbonilla1@pucpr.edu

Flowers, Ambre

Johns Hopkins University
Spelman College
aflowe10@scmail.spelman.edu

Francia, Marcelo

Johns Hopkins University
UPR-Rio Piedras
marcelo.francia@upr.edu

Franco-Argueta, Kelvin

University of Virginia
Old Dominion University
kfran014@odu.edu

Frazer-Klotz, Zoe

University of Virginia
Haverford College
zfrazierklo@haverford.edu

Freeman, Daniel

New York University
Clemson University
freemaf@g.clemson.edu

Gardner, Gwen

Brown University
Cornell University
glg62@cornell.edu

Gekow, Alex

Yale University
UMass Amherst
agekow@umass.edu

Gellineau, Hendryck

Weill Cornell Graduate School
Cornell University
hag62@cornell.edu

Gibbs, Synphane

Brown University
North Carolina A&T State University
slgibbs@aggies.ncat.edu

Gilliam, Nora

Vanderbilt University
Indiana University Purdue University
gilliamnora@gmail.com

Gladney, Gabriella

University of Virginia
Spelman College
ggladney@gmail.com

Gomez, Andrea

University of Pennsylvania
University of Pennsylvania
gomezand@sas.upenn.edu

Gomez, Steven

Columbia University
Princeton University
smgomez@princeton.edu

Gonzalez, Caroline

New York University
Dartmouth College
caroline.e.gonzalez.19@dartmouth.edu

Gonzalez, Ivette

University of Colorado Boulder
San Diego State University
ivette.gonzalez_18@yahoo.com

Gonzalez Di Tillio, Maria

Weill Cornell Medical College
Harvard University
gonzalezditillio@harvard.college.edu

Gonzalez-Barreto, Omar

University of Virginia
UPR-Arecibo
omar.gonzalez17@upr.edu

Gonzalez-Medrano, David

University of Virginia
Old Dominion University
dgonz006@odu.edu

Goyal, Karan

Novartis Institutes for BioMedical Research
Vanderbilt University
karan.goyal@vanderbilt.edu

Green, Janelle

Johns Hopkins University
Claflin University
jangreen@claflin.edu

Guerra Schleske, Paulina

University of Pennsylvania
Duke University
pg107@duke.edu

Gutierrez, Frank

University of Colorado Boulder
CSU Los Angeles
fgutie26@calstatela.edu

Halloran, Dakota

Johns Hopkins University
Community College of Baltimore County
hallorand3@gmail.com

Hanna, Cassandra

University of Virginia
Fisk University
cassandra.hanna@my.fisk.edu

Haoud, Caroline

Weill Cornell Medical College
Columbia University
ceh2189@columbia.edu

Harmon, Nia

University of Pennsylvania
Florida State University
nh15e@my.fsu.edu

Harris, Kennedy

Weill Cornell Medical College
Tuskegee University
kennedyharris3@aol.com

Harris, Lauren

University of Virginia
University of Maryland, Baltimore County
laurenh3@umbc.edu

Harris, Marek

Weill Cornell Graduate School
Stanford University
marekh@stanford.edu

Haskin, Gianna

University of Virginia
Xavier University of Louisiana
ghaskin@xula.edu

Hassane, Kinaya

Columbia University
Bowdoin College
khassane@bowdoin.edu

Hawkins, Rodney

University of Virginia
Saint Augustine College
rmhawkins@st-aug.edu

Hayward-Lara, Gabriela

University of Pennsylvania
Princeton University
ghaywardlara@gmail.com

Henry, Terry

Brown University
Oakwood College
terry.henry@oakwood.edu

Hernandez, Antonio

University of Virginia
Piedmont Virginia Community College
aih234@email.vccs.edu

Hernandez, Kevin

University of Pennsylvania
North Carolina State University
kahernan@ncsu.edu

Hernandez, Samuel

Weill Cornell Medical College
Knox College
samhdez64@gmail.com

Herran, Keren

University of Pennsylvania
University of Maryland, Baltimore County
heke1@umbc.edu

Hester, Katelynn

University of Virginia
Southeastern Oklahoma State University
krhester@gmail.com

Hickman, Mia

University of Virginia
Morgan State University
miarhickman@gmail.com

Hill, Darryl

Harvard University
Morehouse College
darryl.hill@morehouse.edu

Hinojo, Andy

University of Miami
Iowa State University
ajhinojo@iastate.edu

Holness, Micah

Brown University
Xavier University of Louisiana
micahh222@gmail.com

Hsu, Jesse

Yale University
Ithaca College
jhsu@ithaca.edu

Hunter, Chanelle

Vanderbilt University
University of Central Florida
hunterc16@knights.ucf.edu

Hunter, Sydne

Brown University
Stockton University
hunters6@go.stockton.edu

Hwang, Jongin

New York University
University of Georgia
jhwang5@uga.edu

Ibrahim, Reem

Brown University
Smith College
reem.ibrahim.smith.2020@gmail.com

Ikeokwu, Frances

University of Virginia
Edward Waters College
adaezeikeokwu13@yahoo.com

Irwin, Laura

Columbia University
Saint Edward's University
laura.t.irwin@gmail.com

Jackson, Amber

University of Virginia
George Mason University
ajacks48@masonlive.gmu.edu

Jackson, Katelyn

New York University
Mississippi State University
ekj56@msstate.edu

Jackson, Katelyn

University of Virginia
Spelman College
kjacks96@scmail.spelman.edu

Jacobs, Malek

Vanderbilt University
Cornell University
mqj2@cornell.edu

Jalloh, Mariama

University of Virginia
Spelman College
mariasjal@gmail.com

Jarrett, Isria

Vanderbilt University
Belmont University
isria.jarrett@vanderbilt.edu

Jassim, Karim

University of South Florida
Vanderbilt University
karim.jassim@vanderbilt.edu

Jean, Erin

University of Pennsylvania
Hampton University
jean.erin@hotmail.com

Jean-Pierre, Makheni

Weill Cornell Medical College
SUNY Stony Brook
makhe02@yahoo.fr

Jeewajee, Swarna

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

Jenkins Taylor, Vashti

University of Virginia
Florida A&M University
marie.vjt@gmail.com

Jeronimo, Carlos

Weill Cornell Graduate School
Lehman College CUNY
jeronimocarlos78@gmail.com

Ji, Jonathan

New York University
New York University
jhh317@nyu.edu

Johnson, Alexia

Columbia University
University of Miami
aaj57@miami.edu

Johnson, Jafira

Weill Cornell Graduate School
University of Maryland, Baltimore County
j138@umbc.edu

Johnson, Jaleese

University of Chicago
Xavier University of Louisiana
jjohns69@xula.edu

Jones, Alexis

University of Virginia
Bennett College
alexis.jones@bennett.edu

Jones, Erielle

University of Virginia
University of Missouri-Columbia
Ejbn8@mail.missouri.edu

Karabinas, Isabella

Weill Cornell Medical College
Oregon State University
ikarabinas@gmail.com

Karod, Madeline

Brown University
Simmons College
karod@simmons.edu

Kattoura, Nicholas

New York University
Oberlin College
nkattour@oberlin.edu

Keita, Nasitta

University of Virginia
University of Wisconsin Madison
nkeita@wisc.edu

Kelly, Iyani

Harvard University
Clark Atlanta University
lyanizaire98@gmail.com

Khalid, Mohammed

Johns Hopkins University
Community College of Baltimore County
kha996428@email.ccbcmd.edu

Khalizova, Nailya

New York University
Hunter College
nailya.khalizova@gmail.com

Khan, Asma

Johns Hopkins University
Community College of Baltimore County
samakhan023@gmail.com

Kijakazi, Dalia

University of Virginia
Spelman College
d.kijakazi@gmail.com

Knight, Rayshawn

University of Maryland, Baltimore County
Western Carolina University
rkknight1@catamount.wcu.edu

Krikorian, Georgia

Weill Cornell Medical College
Smith College
georgiakrikorian@gmail.com

Kumar, Rachit

Johns Hopkins University
Georgia Institute of Technology
rkumar@gatech.edu

Lane, Amanda

University of Virginia
Whittier College
alane@poets.whittier.edu

LaRiccia, Dante

New York University
New York University
dgl271@nyu.edu

Lauore, Emily

University of Virginia
Spelman College
elaurore@scmail.spelman.edu

Lawal, Dorcas

Johns Hopkins University
Ohio State University
lawal.10@osu.edu

Lawrence, Aliana

Vanderbilt University
Spelman College
alawre17@scmail.spelman.edu

Lee, Isaac

Harvard University
Yale University
isaac.lee@u.yale-nus.edu.sg

Lerch, Cameron

Yale University
Missouri University of Science & Technology
cjl4kd@mst.edu

Lojano, Andres

University of Pennsylvania
Hunter College
abermeeo95@hotmail.com

Lopez, Christian

Johns Hopkins University
University of Dallas
clopez3@udallas.edu

Luck, Cuyler

University of Pennsylvania
Pennsylvania State University
chl131@psu.edu

Lund, Ethen

Yale University
Pomona College
etlu2015@mymail.pomona.edu

Lysandrou, Maria

Weill Cornell Graduate School
University of Chicago
lysandrou@uchicago.edu

Macias, Alejandro

University of Pennsylvania
CSU Northridge
alejandro.macias.114@my.csun.edu

Magana, Jennifer

University of Virginia
University at Albany SUNY
jmagana@albany.edu

Maltos, Elena

University of Virginia
Heritage University
maltose1@heritage.edu

Mamani, Tatiana

Johns Hopkins University
Santa Rosa Junior College
tmamani44@gmail.com

Manz, Samantha

Columbia University
Macalester College
smanz@macalester.edu

Marin, Jonnathan

Dartmouth College
Rider University
marinj@rider.edu

Marmol, Yorkiris

Weill Cornell Medical College
Vassar College
ymarmol@vassar.edu

Martinez, Cristian

University of Pennsylvania
UPR-Rio Piedras
Cristian.martinez11@upr.edu

Matthews, Grace

Yale University
North Carolina State University
gematth2@ncsu.edu

Mayfield, Aislinn

Harvard University
Carleton College
aislinnmayfield@gmail.com

Mazariegos, Eric

Columbia University
University of California Los Angeles UCLA
ericbeige@gmail.com

McDuffie, Joshua

University of Colorado Boulder
North Carolina A&T State University
jmcduffie16@gmail.com

McElligott, Sacha

Brown University
New York University
skm440@nyu.edu

McElroy, Asha

Howard University
North Carolina A&T State University
ashaimani@yahoo.com

McKinney, Jessica

Johns Hopkins University
Community College of Baltimore County
jessicam3690@gmail.com

McManus, Collin

New York University
Rutgers University
ctm123@scarletmail.rutgers.edu

McNish, Brianna

University of Pennsylvania
University of Connecticut
brianna.mcnish@uconn.edu

Mariam Mekbib, Hannah

Columbia University
Boston University
htmekbib@bu.edu

Melder, Theodore

Vanderbilt University
Xavier University of Louisiana
theodore.d.melder@vanderbilt.edu

Mendoza, Alicia

New York University
Ohio State University
mendoza.742@osu.edu

Mercado, Nathan

New York University
UC Riverside
nmerc002@ucr.edu

Mercedes, Marquisele

Brown University
Hunter College
marquisele.m@gmail.com

Miller, Michelle

University of Virginia
Fairfield University
michelle.miller1@student.fairfield.edu

Mitchell-Velasquez, Erick

University of Pennsylvania
CSU Northridge
erick.mitchell.669@my.csun.edu

Montelongo, Javier

University of Pennsylvania
California Lutheran University
javieramontelongo@yahoo.com

Montes, Christian

University of Colorado Boulder
CSU Stanislaus
cmontes3@csustan.edu

Moore, Kelsey

New York University
New York University
kam948@nyu.edu

Morales, Jasmin

Harvard University
UC Santa Barbara
jasminmorales@umail.ucsb.edu

Moreno-Flores, Omar

Vanderbilt University
Heritage University
morenoo1@heritage.edu

Morris, Myshal

Harvard University
Langston University
myshal34@gmail.com

Moss, Marissa

University of Chicago
Indiana University-Bloomington
marimoss@indiana.edu

Muñoz, Andrew

Johns Hopkins University
George Fox University
amunoz17@georgefox.edu

Muro Barrios, Raymundo

Johns Hopkins University
University of Illinois at Urbana-Champaign
murobar2@illinois.edu

Musleh, Aya

University of Chicago
University of Redlands
ayam1097@yahoo.com

Nandar, PwintPhyu

Brown University
University of California Los Angeles UCLA
pnandar@ucla.edu

Near, Sara

Brown University
Amherst College
snear20@amherst.edu

Negi, Sonakshi

University of Virginia
George Mason University
snegi2@masonlive.gmu.edu

Negri, Alberta

New York University
University of Cincinnati
negrial@mail.uc.edu

Nesper, Jonathan

University of Virginia
University of Central Florida
Jnesper@knights.ucf.edu

Newsome, Emmanuel

Yale University
University of Maryland, Baltimore County
newsome.emmanuel@gmail.com

Nguyen, David

University of Chicago
University of California Los Angeles UCLA
david.nguyen@ucla.edu

Nguyen, Jenny

Johns Hopkins University
University of Pennsylvania
jennyn21@seas.upenn.edu

Nguyen, Kimberly

University of Chicago
New York University
ktn241@nyu.edu

Nociari, Juliana

Weill Cornell Graduate School
New York University
jmn447@nyu.edu

Noor, Mahlaqua

New York University
Jacobs University Bremen
ma.noor@jacobs-university.de

Norman Ing, Nainoa

Vanderbilt University
Chaminade University of Honolulu
nainoa.normaning@student.chaminade.edu

Olais, Jose

University of Virginia
Northern Arizona University
jao257@nau.edu

Olivieri, Joseph

University of Pennsylvania
San Diego State University
joey.olivieri@yahoo.com

Omar, Javier

University of Pennsylvania
Emory University
javieromar2019@gmail.com

Ortega, Yohaniz

Johns Hopkins University
UPR-Humacao
yohaniz.ortega@upr.edu

Ortiz Alvarez, Melanie

Brown University
UPR-Rio Piedras
melanie.ortiz11@upr.edu

Osea-Boaman, Karen

Vanderbilt University
Xavier University of Louisiana
koseiboa@xula.edu

Otero Gonzalez, Estrella

University of Pennsylvania
UPR-Rio Piedras
estrella.otero@upr.edu

Pacheco, Marguerite

University of Pennsylvania
Smith College
mpacheco@smith.edu

Palacios, Andrew

Columbia University
Columbia University
ap3672@columbia.edu

Palmer, Jasmin

Johns Hopkins University
Massachusetts Institute of Technology
jasminp@mit.edu

Paniccia, Gabrielle

Weill Cornell Graduate School
SUNY Stony Brook
gabrielle.paniccia@stonybrook.edu

Paramo, Carlos

University of Virginia
UC Berkeley
paramobrotz@berkeley.edu

Parker, Sarah

Brown University
University of Central Florida
sparkler869@knights.ucf.edu

Parkins, Sharon

Johns Hopkins University
Oakwood College
parkinssharon@hotmail.com

Patterson, Samuel

Harvard University
University of Maryland, Baltimore County
patsam1@umbc.edu

Paucar, Yoselin

New York University
John Jay College of Criminal Justice CUNY
yoselin.paucar@macaulay.cuny.edu

Pearson, Hannah

Harvard University
North Dakota State University
hannah.i.pearson@ndsu.edu

Pena, Isabel

Harvard University
Williams College
iep1@williams.edu

Pereda, Guillermo

Johns Hopkins University
University of Chicago
gpereda17@gmail.com

Perez Rodriguez, Mathiu

Harvard University
City College of New York
mathiuperez@outlook.com

Perez Torres, Melina

University of Pennsylvania
UPR-Rio Piedras
melina.perez2@upr.edu

Luisa Ponce, Maria

University of Miami
San Jose State University
poncemarialuisa9@gmail.com

Posada, Luisa

University of Chicago
University of Florida
luiposada@ufl.edu

Posadas, Rebekah

University of Pennsylvania
CSU San Bernardino
rebekahposadas96@gmail.com

Pruitt, Kimara

University of Virginia
Spelman College
kpruitt2@scmail.spelman.edu

Qualls, Anita

New York University
University of Georgia
anitaqualls@uga.edu

Ramirez, Jennifer

University of Chicago
UPR-Mayaguez
jennifer.ramirez3@upr.edu

Ramos, Andres

Dartmouth College
UPR-Rio Piedras
ramosandres443@gmail.com

Ramos-Jordan, Katerina

Brown University
UPR-Rio Piedras
katerina.ramos@upr.edu

Ranjbaran, Ali

New York University
West Virginia University
alranjbaran@mix.wvu.edu

Reese, Asia

Johns Hopkins University
Spelman College
areese11@scmail.spelman.edu

Reinhold-Larsson, Nicole

Harvard University
Ohio State University
reinhold-larsson.2@osu.edu

Remick, Brenna

Novartis Institutes for BioMedical Research
Cornell University
bcr43@cornell.edu

Renald, Savanha

University of Chicago
University of Florida
srenald@ufl.edu

Rex, Madison

Neill Cornell Medical College
University of Texas at Austin
madisonrx49@gmail.com

Reyes, Joel

Harvard University
University of Texas at El Paso
joel_reyes@hms.harvard.edu

Reyes, Michaela

Dartmouth College
Barry University
michaela.reyes@mymail.barry.edu

Reyes Aguirre, Karla

Harvard University
Harvard University
karlasofiaara@gmail.com

Reyes Gallegos, Elizabeth

University of Colorado Boulder
CSU Monterey Bay
ereyesgallegos@csumb.edu

Ricard, Jordyn

Harvard University
Northwestern University
jordynricard2020@u.northwestern.edu

Riley, Ciairra

University of Maryland, Baltimore County
CSU Long Beach
ciairrariley@gmail.com

Ringham, Olivia

Tufts University
UMass Amherst
oringham@umass.edu

Rivera, Alma

University of Virginia
University of Virginia
arr5qs@virginia.edu

Rivera-Fuentes, Nicole

University of Pennsylvania
UPR-Rio Piedras
nicole.rivera57@upr.edu

Rivera-López, Carlos

Harvard University
UPR-Mayaguez
carlos.rivera106@upr.edu

Roach, Tiffany

University of Pennsylvania
Stockton University
roacht1@go.stockton.edu

Robbins, Charles

Vanderbilt University
Florida State University
cjr14@my.fsu.edu

Robertson, Victoria

Johns Hopkins University
Dillard University
Victoria.Robertson@Dillard.edu

Robusto, Brian

New York University
University of Florida
brian0305@ufl.edu

Rodríguez, Eric

University of Pennsylvania
UPR-Ponce
eric.rodriguez13@upr.edu

Rodriguez-Sierra, Efrain

University of Miami
UPR-Rio Piedras
efrain.rodriguez6@upr.edu

Rodríguez-Villafañe, Andrea

Brown University
UPR-Rio Piedras
andre4rodriguez@gmail.com

Roebke, Gwendalynn

University of Colorado Boulder
University of Colorado Boulder
smart@colorado.edu

Roehr, Gabrielle

New York University
New York University
groehr@nyu.edu

Romney, Carlan

Brown University
University of the Virgin Islands
carlan.romney@yahoo.com

Rosado-González, Gabriela

University of Pennsylvania
UPR-Rio Piedras
gabriela.rosado2@upr.edu

Rosario, Derick

University of Pennsylvania
UPR-Rio Piedras
derick.rosario@upr.edu

Rosen, Mikaela

Weill Cornell Graduate School
University of Richmond
mikirose13@gmail.com

Ross, Charles

Columbia University
Allegheny College
cr3022@columbia.edu

Rossell-Eddy, Diana

University of Colorado Boulder
Front Range Community College
dmre1989@gmail.com

Rowell, Maya

Johns Hopkins University
New York University
mr4401@nyu.edu

Rubin, Jeremy

University of Pennsylvania
University of Maryland, Baltimore County
jrub1@umbc.edu

Rudic, Tamara

University of Chicago
Brown University
tamara_rudic@brown.edu

Ruiz Garcia, Janeth

University of Virginia
University of Texas Permian Basin
janethruga@gmail.com

Salazar, Rio

*Johns Hopkins University
Williams College
riojs.sb@gmail.com*

Salim, Jamila

*University of Virginia
Syracuse University
jbsalim@syr.edu*

Salimjonova, Dildora

*Johns Hopkins University
University of Maryland, Baltimore County
salimjonovadilly@mail.ru*

Samples, Anneliese

*University of Virginia
North Carolina Central University
asamples@eagles.nccu.edu*

Sanchez, Alexandra

*University of Virginia
Berry College
alex.sanchez@vikings.berry.edu*

Sanchez, David

*University of Pennsylvania
University of Texas at San Antonio
tdz876@my.utsa.edu*

Sanchez, Simon

*Harvard University
Saint Mary's University
swolfsanchez@outlook.com*

Sanders, Danae

*Johns Hopkins University
Howard University
danaesanders@yahoo.com*

Sanders, Uriah

*Harvard University
California State Polytechnic University,
Pomona
ursanders@cpp.edu*

Santiago, Dem

*University of Virginia
UPR-Ponce
dem.santiago@upr.edu*

Santiago Garcia, Angel

*Brown University
UPR-Arecibo
angel.santiago37@upr.edu*

Santos, Daniella

*Brown University
UPR-Rio Piedras
daniella_santos@brown.edu*

Sarcone, Camila

*University of Pennsylvania
Florida International University
csarc002@fiu.edu*

Saslafsky, Ariella

*Vanderbilt University
University of Central Florida
asaslafsky@knights.ucf.edu*

Scales, Nzali

*Columbia University
Spelman College
nzaliscals@gmail.com*

Schwam-Curtis, Raven

*Cornell University
Cornell University
ras594@cornell.edu*

Segura, Roberto

*New York University
San Francisco State University
rcsegura@mail.sfsu.edu*

Seidenberg, Alec

*Brown University
Hunter College
alecseidenberg@gmail.com*

Sepulveda, Renato

*University of Virginia
Heritage University
sepulvedar@heritage.edu*

Sevillano, GJ

*New York University
Princeton University
gjds@princeton.edu*

Sewa, Agnele

*Harvard University
Brandeis University
asewa@brandeis.edu*

Shaw, Marlisa

*New York University
Pennsylvania State University
mjs7180@psu.edu*

Shin, Sarah

*New York University
University of Missouri-Kansas City
sarahshin64@gmail.com*

Siddons, Danielle

*Johns Hopkins University
Barry University
dsiddons0212@gmail.com*

Sidel, Hunter

*New York University
Pitzer College
zakiya.collier@nyu.edu*

Slayday, Riki

*Stanford University
San Diego State University
riki.slayday@gmail.com*

Smith, Andrykah

*University of Virginia
North Carolina State University
aysmith2@ncsu.edu*

Smith, Jamila

*University of Colorado Boulder
SUNY College at Fredonia
smit8352@fredonia.edu*

Smith, Kayla

*Brown University
Spelman College
ksmit133@scmail.spelmn.edu*

Sobande, Oluwasemilore

*Columbia University
Stanford University
semilore@stanford.edu*

Somolinos, Sebastian

*Harvard University
Southwestern University
somolinc@southwestern.edu*

Soriano, Denise

*Brown University
DePaul University
denisesoriano56@gmail.com*

Stephens, Zikora

*Howard University
University of Texas at Austin
zikorastephens@gmail.com*

Swann, Isaiah

Vanderbilt University
University of Texas at Dallas
megan.williams@vanderbilt.edu

Syau, Della

Harvard University
UC San Diego
dsyau@ucsd.edu

Adrienna Talana, Chloe

Johns Hopkins University
Chaminade University of Honolulu
chloeadrienna.talana@student.chaminade.edu

Tavares, Agustin

New York University
University of Miami
axt303@miami.edu

Thang, Daniel

Johns Hopkins University
Community College of Baltimore County
dthangchs@gmail.com

Thapa, Mahima

Novartis Institutes for BioMedical Research
Truman State University
mt8818@truman.edu

Thompson, Elizabeth

New York University
University of Wisconsin Madison
ethompson28@wisc.edu

Tirado, Brian

Vanderbilt University
Mercer University
brian.anthony.tirado@gmail.com

Tkacik, Emre

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

Tobias, Willie

Brown University
Tougaloo College
wtobias123@gmail.com

Tolliver, Coleman

University of South Florida
University of Maryland, Baltimore County
col2@umbc.edu

Torres, Jeremy

University of Colorado Boulder
UPR-Mayaguez
jeremy.torres2@upr.edu

Tracey, Matthew

University of Pennsylvania
Pennsylvania State University
mat5664@psu.edu

Trejo, Brandon

Johns Hopkins University
University of California Los Angeles UCLA
Btrejo12@g.ucla.edu

Trinh, Kevin

Brown University
Bowdoin College
ktrinh@bowdoin.edu

Trovato, Daniel

Johns Hopkins University
Community College of Baltimore County
danieltrovato98@gmail.com

Turner, Makayla

Howard University
Claflin University
makturmer@claflin.edu

Twumasi-Ankrah, Nana Afia

University of Virginia
Virginia Commonwealth University
twumasianknad@vcu.edu

Uzsoy, Ana Sofia

University of Chicago
North Carolina State University
amuzsoy@ncsu.edu

Valdes-Valderrama, Andrea

Columbia University
UPR-Mayaguez
andrea.valdes@upr.edu

Valentine, Aneesa

Weill Cornell Graduate School
Brooklyn College CUNY
aneesa.valentine06@gmail.com

Van, Destiny

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

Vargas-Rivera, Maria

Brown University
UPR-Aguadilla
maria.vargas14@upr.edu

Vazquez, Karen

Johns Hopkins University
University of Kansas
k584v161@ku.edu

Vazquez Marrero, Victor

University of Pennsylvania
UPR-Rio Piedras
victor.vazquez18@upr.edu

Velazquez Matos, Juan

Harvard University
UPR-Humacao
juan.velazquez17@upr.edu

Vides, Christina

Stanford University
California State Polytechnic University,
Pomona
christinalvides@gmail.com

Vinson, Essence

Johns Hopkins University
Coppin State College
evinson00@student.coppin.edu

Vish, Kimberly

New York University
Siena College
kj18vish@siena.edu

Vogel, Ian

Harvard University
Bucknell University
knherrer@fas.harvard.edu

Voitiv, Andrew

University of Colorado Boulder
University of Denver
andrewvoitiv@hotmail.com

Wacker, Amanda

University of Colorado Boulder
Florida State University
alw16e@my.fsu.edu

Walley, Vanetta

Brown University
Tougaloo College
brianna.walley@yahoo.com

Walters-Marrah, George

*University of Pennsylvania
University of Central Florida
gwaltersmarrah@knights.ucf.edu*

Warsco, Alia

*New York University
New York University
arw462@nyu.edu*

Washington, Jamar

*University of Pennsylvania
University of Richmond
jjwash567@gmail.com*

Watt, Mikayla

*University of Pennsylvania
Johns Hopkins University
mwatt6@jhu.edu*

Weingart, Alexander

*Vanderbilt University
University of Vermont
alexanderhunterweingart@gmail.com*

White, Jira

*Weill Cornell Medical College
Claflin University
jiwhite@claflin.edu*

Whitmore, Myles

*University of Virginia
Morehouse College
myles.whitmore@morehouse.edu*

Whitten, Conner

*University of Colorado Boulder
CSU San Marcos
connerftw@gmail.com*

Wilkerson, Elijah

*Dartmouth College
Morehouse College
elijahwilkerson121@gmail.com*

Williams, Hastings

*Brown University
Tougaloo College
hwilliams1104@gmail.com*

Williams, Marcus

*Weill Cornell Medical College
Fort Lewis College
mawilliams1@fortlewis.edu*

Williams, Marta

*New York University
Luther College
martawms2@gmail.com*

Williamson, Victoria

*Harvard University
University of Florida
vgwilliamson@ufl.edu*

Wilson, Alexis

*Vanderbilt University
Cornell University
amw345@cornell.edu*

Wiratan, Linda

*Harvard University
University of Maryland, Baltimore County
linda17@umbc.edu*

Woodward, Helen

*New York University
Gettysburg College
woodhe02@gettysburg.edu*

Yamauchi, Jessica

*Tufts University
CSU Northridge
jessica.yamauchi.349@my.csun.edu*

Who's Who at the Symposium



Brittany Allison

Vanderbilt University

Brittany Allison, PhD, is currently a Postdoctoral Fellow in the Graduate School at Vanderbilt University, where she is the Leadership Alliance SYNERGI Program Coordinator. In this role, she aims to increase the number of underrepresented undergraduate students interested in research, by presenting workshops, mentoring, and coaching them on research skills. Dr. Allison also works closely with the Enhancing Graduate Diversity Education Program, where she makes substantive contributions to the program activities, initiatives, and events. In addition, she enjoys supporting and advising minority graduate students in leadership and advocacy, and promoting a more inclusive graduate atmosphere. Dr. Allison completed a PhD in chemistry from Vanderbilt in 2016 under Dr. Jens Meiler, where she studied computational design of protein-ligand interactions. While a graduate student, Dr. Allison received the National Science Foundation Graduate Research Fellowship (NSF-GRFP) Award. Originally from New Orleans, LA, she completed her undergraduate chemistry degree at Xavier University of Louisiana.



Amalia Ávila

Sales Manager, Biocytogen LLC.

Amalia Ávila, PhD helps to find solutions for academic and industry researchers interested in generating cell line/animal models using gene targeting technologies such as CRISPR/Cas9. In her role as Sales Manager for Biocytogen USA, she draws upon her experience as a postdoc and as a graduate student to understand the obstacles researchers face and facilitate alternatives to accomplish their goals. Previously she was a postdoctoral researcher at Yale University, where her main goal was to identify molecular players that regulate terminal red blood cell development.

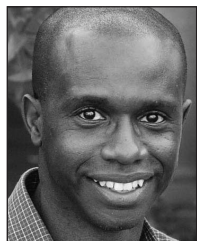
DNA, RNA and chromatin structure, and its potential applications in technology have long been a fascination for Dr. Ávila. As an undergraduate she studied DNA G-quadruplexes, which can be harnessed as drug delivery devices. Her doctoral research at Brown University as a National Science Foundation Fellow focused on characterizing trinucleotide repeat sequences that are involved in Huntington's disease. Dr. Ávila's research has been published in several peer-reviewed journals, including the Journal of Biological Chemistry, ACS Biochemistry, Blood, and the Journal of Biophysical and Biochemical Communications. Dr. Ávila is also committed to the advancement of underrepresented communities in science and technology, and looks to share her experiences and help others who are pursuing careers in STEM.



Earnestine Baker

University of Maryland, Baltimore County

Earnestine Baker is the retired Assistant to the Vice President of Institutional Advancement and serving currently as the Executive Director of the Meyerhoff Scholarship Program at the University of Maryland, Baltimore County (UMBC). She joined UMBC in 1983 as the Coordinator of Minority Recruitment in the Office of Admissions. Between 1987 and 1992 she served as Associate Director for Scholarships at the University. In 1992, Mrs. Baker was appointed Director of the Meyerhoff Scholars Program, a nationally recognized program for talented students interested in pursuing terminal degrees in the sciences, mathematics, and engineering and computer science. In July, 2009 – Science, the leading journal of scientific research, news and commentary, recognized UMBC's Meyerhoff Scholars Program as a national model demonstrating "what it takes" to help more minority students earn science degrees. Mrs. Baker served as the Director of the Meyerhoff Scholars Program at UMBC for ten years and was appointed the Executive Director of the Program in 2002.



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 & Associate Director of the Diversity & First-Gen Office. 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 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.



Makisha Cameron

CoinSetters

Born and raised in Hopkinsville, Kentucky, Makisha Cameron earned her Bachelor of Science degree in Psychology from Tennessee State University in 2006. While earning her Master of Science degree in Counseling Psychology from Tennessee State University, Makisha Cameron completed her Master's thesis which is now a published article titled "Media Influence on Body Image Dissatisfaction." Throughout her work with nonprofit mental health organizations and low socioeconomic communities within Tennessee and Florida, Makisha discovered her passion for helping other and giving back to the community. While attending Florida A&M University, Makisha Cameron promoted financial literacy, and progressive financial decision making within minority and low-income communities as a Minority and Retirement Securities fellow. As a graduate fellow Makisha presented research on Financial Self-Image at multiple conferences throughout the United States. Furthering her passion of giving back, Makisha is also a Certified Financial Education Instructor which gives her the opportunity to continue to educate communities. She graduated with a Master of Business Administration degree from Florida A&M University in 2017.



Raquel Castellanos

University of Pennsylvania

Raquel Castellanos is a first-generation Chicana scientist, born in the Bronx, New York. She is currently the Assistant Director of the Office of Research and Diversity Training at the Perelman School of Medicine at the University of Pennsylvania. She develops program initiatives geared towards increasing the number of underrepresented minority trainees in biomedical sciences across multiple career levels. She is passionate about mentoring and shares her own personal stories as a Latina in STEM to motivate students to pursue scientific careers. Raquel earned her Ph.D. in Biomedical Sciences and completed her postdoctoral training at the Albert Einstein College of Medicine.



Tracy Costello

National Postdoctoral Association

As the current Chair of the Board of Directors of the National Postdoctoral Association (NPA), Dr. Costello leads the NPA's efforts to enhance the postdoctoral experience at both the local and national level and provide a national voice for postdoctoral scholars. As Director of Postdoctoral Affairs at Moffitt Cancer Center, she is creating brand new programs to enhance the postdoc experience beginning with postdoc recruitment, implementation career and professional development training through one on one career exploration and coaching. She has served at NSF on both postdoc fellowship study sections and a committee of visitors and began serving on an NIH study section this year. Costello earned a BS, magna cum laude, in Mathematics and Physics from The University of Southern Mississippi before going to The University of Texas Graduate School of Biomedical Sciences in Biostatistics and Genetics. She received both predoctoral and postdoctoral R25 fellowships in cancer prevention during her graduate school and postdoctoral training before becoming a senior statistical analyst in health disparities research.



Arnaldo Diaz

University of Pennsylvania

Arnaldo Diaz Vazquez, PhD, is the Assistant Dean for Research Training Programs, Director of Recruitment and Retention of Diversity Scholars, and Adjunct Asst. Prof of Pharmacology. As Asst. Dean, Dr. Diaz works collaboratively with University leadership to develop and coordinate targeted recruitment and retention strategies aimed at increasing the number of underrepresented students obtaining PhDs in the biomedical sciences and provides academic and professional career development for underrepresented trainees across the full spectrum of undergraduate, graduate and post-graduate programs in the biomedical sciences. He directs the Summer Undergraduate Internship Program and the Post-Baccalaureate Research Education Program. Recently, Dr. Diaz became a Co-Director of the Penn IRACDA Program and oversees diversity programming between Penn and the partner teaching institutions. Diaz received his BS in Chemistry from the University of Puerto Rico-Rio Piedras, a PhD in Biochemistry from Texas A&M University, and postdoctoral training in Cancer Pharmacology at the University of Pennsylvania.



Mareshia Donald

Novartis Institutes for BioMedical Research

Mareshia Donald is Scientific Programs Manager and Diversity and Inclusion Partner at Novartis Institutes for BioMedical Research where she oversees Postbaccalaureate and Summer Scholars Programs. She holds bachelor's degrees in Neuroscience and Language Studies from the University of California at Santa Cruz and a Ph.D. in Neuroscience from Brandeis University. Mareshia's desire to live both professional and personal lives aligned with equity and sits as a Director on the board of the Housing Corporation of Arlington (MA) as well as the Executive Board of the Massachusetts Association for

Women in Science.



Denise Ellis

Alfred P. Sloan Foundation

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.



Leah Gibbons

American Society for Microbiology

Leah Gibbons is a Program Coordinator at the American Society for Microbiology (ASM), where she oversees the student presentations, travel award, and judge programs at the Annual Biomedical Research Conference for Minority Students (ABRCMS). ABRCMS is one of the nation's largest conferences for minority students interested in pursuing advanced education in STEM. Ms. Gibbons organizes the review, selection, and logistics of the over 2,300 abstract submissions, 900 travel award applications and 600 judges. For the past four years she has seen firsthand the impact that ABRCMS has made on attendees and is passionate about the diverse and inclusive community ABRCMS continues to serve.



Leislle Godo-Solo

Institute for Recruitment of Teachers

Ms. Godo-Solo has served as the Education Program Specialist/Associate Director of the Institute for Recruitment of Teachers (IRT) since 2002. In this role, Leislle recruits and selects IRT scholars, counsels those in education fields regarding their school lists, and advises and supports a group of 25-30 students as they prepare their 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.



Ja'Wanda S. Grant

Xavier University of Louisiana

Dr. Ja'Wanda S. Grant currently serves as Special Assistant to the Provost for Scholar Development and Institutional Alliances and Founding Director of Xavier Exponential (Honors Program) at Xavier University of Louisiana (XULA). In these roles, she supports institutional pipeline programs, and coordinates advising for nationally competitive scholarships and awards. She successfully advised XULA's first Goldwater Scholar in 2018. Dr. Grant is PI of the Mellon Foundation "Community of Scholars" award and co-PI of the NIH BUILD Project Pathways training award, both supporting faculty-mentored undergraduate research and preparation for graduate and professional programs. Dr. Grant's administrative positions have encompassed holistic support of STEM student matriculation to college towards graduate and professional programs. She has a special interest in designing programs that bridge both academic and lived experiences through collaborations with STEM training programs, Career Services, Campus Activities, and residential Life.



Kat Haklin

Johns Hopkins University

A Postdoctoral Teaching Fellow for the Mellon Foundation Humanities Collaboratory at Johns Hopkins University. She recently received her Ph.D. in French Language and Literature from Johns Hopkins, where her academic study was funded by the Alexander Grass Humanities Institute and the Dean's Teaching Fellowship. Her research on representations of enclosed space and claustrophobia examines a range of cultural production from nineteenth-century France—from poetry and prose, to painting and caricature, to fashion and the history of dress. She holds a B.A. in Art History and French from DePauw University, and an M.A. in French Literature from Florida State University. During the 2018-2019 academic year, she will teach French language and literature courses as a Postdoctoral Teaching Fellow in the Department of Romance Languages and Literatures at Washington University in St. Louis.



Sara Xayarath Hernández

Cornell University

Sara Xayarath Hernández is the Graduate School Associate Dean for Inclusion & Student Engagement and a University Diversity Officer at Cornell University. She provides vision, leadership, and overall management for Graduate School initiatives and policies related to diversity and inclusion. Hernández leads the Office of Inclusion & Student Engagement (OISE) and the Graduate School's efforts to recruit, retain, and support a diverse graduate student body. OISE in collaboration 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 multiple career pathways. Hernández serves as the Co-Director and Co-PI for the Cornell AGEP Program and as Co-PI for Cornell's Alfred P. Sloan Foundation funded UCEM Program. She holds a Bachelor of Arts in Zoology from Ohio Wesleyan University and a Master of Regional Planning from Cornell University.



Amber B. Hodges

Morgan State University

Amber B. Hodges, PhD, is an Associate Professor in the Department of Psychology at Morgan State University. Her current research examines factors and barriers impacting STEM-efficacy and persistence in minority students. Dr. Hodges was a fellow in the Leadership Development Institute supported by the Quality Education for Minority Network and the National Science Foundation. Additionally, she earned a Post-Graduate Certificate in Academic Leadership from The Chicago School of Professional Psychology through the Opportunities for Underrepresented Scholars Program funded by the National Science Foundation. Dr. Hodges earned her Ph.D. in Psychology from the Graduate School and University Center, The City University of New York (CUNY). She holds an M. Phil in Psychology from the Graduate School and University Center, CUNY, and a B.S. in Psychology from Bennett College. She recently co-authored a chapter describing successful mentoring models undergirded by psychology theories.



Marcus Jones

Regeneron Pharmaceuticals, Inc.

Dr. Jones is the Sr. Manager, R&D Planning, Strategy & Operations at Regeneron Pharmaceuticals, Inc. Dr. Jones previously was an Assistant Professor in the Genomic Medicine and Infectious Disease departments at the J. Craig Venter Institute (JCVI), where he served as team leader for all transcriptomics and genome sequencing projects in the NIAID funded Pathogen Functional Genomics Resource Center (PFGRC) at JCVI. Dr. Jones holds a B.S. from Southern University & A&M College in Baton Rouge, Louisiana and in 2005 earned his Ph.D. in microbiology from the Sackler Institute at New York University School of Medicine. He was awarded as the Principal Investigator a research award from the Defense Threat Reduction Agency (DTRA) for \$5.1M to study antibiotic resistance, and he has co-authored more than 35 peer-reviewed articles.



W. Marcus Lambert

Weill Cornell Graduate School of Medical Sciences

Dr. W. Marcus Lambert is currently Director of Diversity and Student Services at Weill Cornell Graduate School of Medical Sciences and Adjunct Assistant Professor of Microbiology at New York City College of Technology. At Weill Cornell, he is responsible for diversity initiatives, science outreach, housing, and immigration services for more than 400 biomedical Ph.D. students. He serves as an advisor to a number of student and professional organizations and sits on university review boards for Title IX, Student Life, and Diversity. His current research interests include identifying determinants of STEM student success in higher education.



Olivia Mansion

University of Tampa

Olivia Mansion earned a Master's degree from Brown University. At Brown, she co-founded the International Writers' Blog and was the Communications Officer for the Society for Advancing Chicanos/Hispanics & Native Americans in Science (SACNAS). Ms. Mansion deeply believes in The Leadership Alliance's vision, and in previous years, she assisted with the logistics and operations for The Leadership Alliance's National Symposium. She is passionate about creating platforms for sharing people's personal stories and opening pathways for success for people who are historically underrepresented. Currently, she is the Manager of Operations at the Lowth Entrepreneurship Center at The University of Tampa. In this role, she creates and supports entrepreneurial programs and operations at the Entrepreneurship Center. Ms. Mansion was born in Venezuela, and lives in Tampa, Florida where she received her Bachelor's degree at The University of Tampa.



Antionette Mutcherson

CoinSetters

Since she could remember, Antionette Mutcherson, has had an entrepreneurial spirit. Mutcherson felt that she needed a piece of the puzzle to becoming the business woman that she always envisioned herself as. She decided to return to school and received her MBA from Florida Agricultural and Mechanical University in December 2017. Previously, Mutcherson received her Undergraduate Bachelor of Science degree from Clark Atlanta University in 2007 and an Associate Degree in Jewelry Design from the Fashion Institute of Technology in 2010. It was while at FAMU she was asked to serve as a Minority and Retirement Security (MARS) Fellow, Mutcherson taught Financial Literacy throughout the university, community, and attended several conferences to present financial literacy research. As a MARS Fellow, Mutcherson discovered her passion of both learning and educating others on the importance of understanding and implementing financial responsibility. Thus, she became a Certified Financial Education Instructor through National Financial Educators Council to maximize her opportunities to spread her newfound financial wisdom.



Michelle Nearon

Yale University

Dr. Michelle Nearon is Associate Dean for Graduate Student Development and Diversity at Yale University. She provides the strategic vision and leadership to build and maintain a supportive campus community where graduate students from diverse backgrounds and experiences are supported in their intellectual, social, and professional pursuits. Dr. Nearon earned her B.S. and M.S. degrees in aerospace engineering from the Massachusetts Institute of Technology and Brooklyn Polytechnic University, respectively. After completing her Master's degree she devoted approximately ten years to both the aerospace and automotive industries. She returned to academia and earned a Ph.D. in Mechanical Engineering at Stony Brook University with a specialty in fluid mechanics. She remained at Stony Brook University as a Turner Postdoctoral Fellow studying turbulence modeling before being offered an Assistant Professorship in the Department of Mechanical Engineering. She joined the Yale community in 2008.



Chris O'Brien

National Academies of Sciences Engineering and Medicine

Chris O'Brien received her BS degree at St. Joseph's University and a Master of Arts degree in Education at Villanova University. Chris taught for six years in the parochial school system of the Archdiocese of Philadelphia before working in fellowship program administration at the National Academies in Washington, DC. Chris' program oversight has included privately and federally funded fellowship programs at the predoctoral, dissertation, and postdoctoral levels. Since 1979, her responsibilities have been primarily in the administration of Ford Foundation Fellowships designed to increase and foster diversity as a teaching tool in higher education. Chris created the Fellowship Roundtable in 1995. This biannual meeting brings together fellowship administrators whose goal is to share best practices and discuss innovations in the administration of fellowships. The Fellowship Roundtable is in its 23rd year of serving as a resource to fellowship administrators.



Joel D. Oppenheim

New York University

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, grant study sections, as a reviewer of numerous reports involved with graduate education, pipeline issues and the recruitment and retention of underrepresented students to graduate programs. He also has served on the external advisory boards and program review boards of a number of state and national accrediting agencies, colleges and universities. In 2010 Dr Oppenheim was the recipient of the AAAS (American Association of the Advancement of Sciences) Life Time Mentoring Award, one of the nation's highest mentoring awards. Dr. Oppenheim was also one of the founding members of the Leadership Alliance in 1992.



Teresa Ramirez

Federation of American Societies for Experimental Biology

Teresa Ramirez, Ph.D., is currently a Program Manager at the Federation of American Societies for Experimental Biology. Dr. Ramirez was a post-doctoral research fellow at the National Institutes of Alcohol Abuse and Alcoholism. She is a first-generation Mexican-American and the first from her family to have graduated from college and to have obtained a doctoral degree. In 2002, she participated in the Leadership Alliance Summer program at Brown University. She received her B.S. degree in General Biology from California State University, Dominguez Hills in 2004. Then, she participated in a post-baccalaureate program at the National Cancer Institute in Frederick, MD. Dr. Ramirez has been a member of the Society for the Advancement of Chicanos/as and Native Americans in Science (SACNAS) for seventeen years. Her doctorate degree is in Molecular Pharmacology and Physiology from Brown University and was the founder/first president of the Brown University SACNAS Chapter. Her post-doctoral research focused on how aging and chronic alcohol exposure played a role in causing liver injury. She is passionate about sharing her love for science and firmly believes in the importance of mentorship.



Patricia Rea

University of Pennsylvania

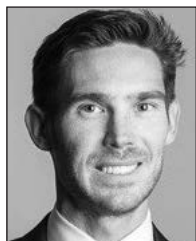
Patricia Rea is the Associate Director for Admissions in the Graduate School of Arts and Sciences, and is responsible for recruitment and admissions of one of the largest schools at Penn. She is also the program director of The Leadership Alliance for the Humanities and Social Science programs. She has been at Penn over 30 years and has helped many new students navigate through the graduate experience from admissions, financial and graduation.



Rochelle Smith

Washington University in St. Louis

Rochelle Smith is the Assistant Provost for Diversity at Washington University. She serves as the Institutional and Summer Program Coordinator for Leadership Alliance there. She began her career at Washington University in 1999 and until 2006, created and managed programs for students from low income, first generation college backgrounds. In the Office of the Vice Provost, she has created initiatives including the Joint Post-Baccalaureate Program in Physics, Mathematics and Earth & Planetary Sciences (JPP). In 2016 Ms. Smith was promoted to work full time on her institutional portfolio as Assistant Provost for Diversity, developing turnkey STEM pipeline programs, serving as lead administrator of the Professional Leadership Academy and Network (PLAN) for Washington University staff and serving as co-chair of the Standing Committee for Facilitating Inclusive Classrooms, among other efforts. Ms. Smith earned an A.S. in biological sciences from South Suburban College, a B.A. in Psychology from Chicago State University and an M.S. in Applied Health Behaviors Research from Washington University School of Medicine.



David A. Stout

California State University, Long Beach

David A. Stout is an American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellow at the National Science Foundation (NSF) in the Directorate of Computer and Information Science and Engineering (CISE) within the Division of Information and Intelligent Systems (IIS), where he oversees multi-agency research efforts in health and healthcare technology. He is currently on sabbatical from his assistant professor position at California State University, Long Beach with a joint appointment in the Department of Mechanical and Aerospace Engineering and in the Department of Biomedical Engineering at California State University, Long Beach, where he the founding director of the Long Beach Bioengineering Laboratory at founder of the Department of Biomedical Engineering at CSULB. He received his B.Sc. degree in Aerospace Engineering with a minor in Chemistry from California State University, Long Beach in 2010, and a Ph.D. from Brown University in Biomedical Engineering in 2014.



Natalie Strobach

Johns Hopkins University

Dr. Natalie Strobach is the Director of Undergraduate Research and is responsible for advising and administration of the Woodrow Wilson Research Fellowship program, the Dean's Undergraduate Research Awards (DURA), and school-wide programs that provide undergraduates with funding to pursue original research. Dr. Strobach did her doctoral work in the Department of Comparative Literature at the University of California Davis. Dr. Strobach has a long history working closely with undergraduate student researchers. Prior to coming to Johns Hopkins, she directed the STEM-focused McNair program at the University of Wisconsin, and before that she was with the McNair program at the University of California - Davis. She is a McNair alum herself and is dedicated to expanding access to high-level research among Hopkins undergraduates. She is also director of the Johns Hopkins Humanities Collaboratory, and her current research is a study on collaborative pedagogical techniques as applied to undergraduate research programs serving underrepresented student populations.



D'Ondre Swails

Brown University

D'Ondre Swails earned his B.A. from Morehouse College in 2015, where he double majored in Philosophy and Sociology. His research interests are in Black aesthetics and self-representations of the Black experience in different art forms and media, especially Hip-Hop music, film, and television. He is also interested in cultural theory and the philosophy of language/linguistics. When not engaged in research, D'Ondre enjoys watching music videos, attending concerts, and taking road trips.



Brian P. Sullivan

Washington University in St. Louis

Mr. Sullivan is the Executive Director of the Medical Scientist Training Program at Washington University in St. Louis. Since joining the MD-PhD program in 1994, he has overseen the matriculation of 584 MD-PhD students, and the graduation of 471 physician-scientists. He was a founding officer of the MD-PhD Section of the AAMC GREAT Group; he also serves as the Secretary-Treasurer of the National Association of MD-PhD Programs. In 2002, Mr. Sullivan established BioMedRAP, a summer research program for minority and disadvantaged undergraduates. Mr. Sullivan earned a B.A. in Political Science and an M.A. in Spanish Literature from St. Louis University. He also earned an M.B.A. from Washington University in St. Louis.



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. 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 Thomas

Harvard University

Sheila Thomas is a faculty member in the Division of Medical Sciences (DMS) PhD Programs and Department of Medicine at Harvard Medical School and Associate Dean for Academic Programs and Diversity 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 actively sits on the admissions committees for PhD programs in the sciences and MD/PhD program and engages with admissions committees for PhD programs across the social sciences and humanities. 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 (Economics, Life sciences and Population Health Sciences). 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.



Catherine L. Will

Johns Hopkins University

Catherine L. Will has been a Program/Projects Manager in the Office of Graduate Student Affairs at the JHU School of Medicine since 1994, where she is responsible for admissions processing and recruitment for biomedical PhD programs. Ms. Will is a Certified Diversity Trainer, with an emphasis on graduate student recruitment. Ms. Will has managed the highly successful Summer Internship Program since 1995. She also manages the Postbaccalaureate Research Education Program (PREP) and Health Careers Opportunity Program (HCOP) Doctoral Diversity program. Ms. Will's work on disability recruitment programming has drawn the attention of the AAAS Project on Science, Technology and Disability. She has been an invited speaker on diversity at GMAC and the National Association of Graduate Admission Professionals (NAGAP). Ms. Will is a Baltimore community activist in the areas of civil rights and social justice, education, housing, poverty alleviation, and has served on several JHU-community task forces addressing these issues.

The Leadership Alliance Executive Office Staff



Medeva Ghee, PhD

Executive Director

Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University

Dr. Medeva Ghee is the Executive Director of the Leadership Alliance and a faculty member in the Department of Behavioral and Social Sciences at Brown University. As Director of the Leadership Alliance, she is responsible for leading the 36-member consortium 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. She is the Director and Principal Investigator on a number of programs to prepare students for Ph.D. training and to consider careers in the professoriate and broader research workforce. Dr. Ghee previously worked with the Clinton HIV I AIDS Initiative as a Laboratory Systems Specialist. In this capacity, she provided technical assistance and strategic advice on the development of laboratory plans and systems to support national HIV I AIDS prevention, care and treatment programs in the Initiative's partner countries in Sub-Saharan Africa. Informed by these experiences, she developed a course on multidisciplinary approaches to support HIV I AIDS care and treatment programs in Sub-Saharan Africa that is offered to Brown undergraduates and Master's degree students. A graduate of North Carolina State University with a bachelor's degree in zoology, she earned her M.S. and Ph.D. in microbiology from New York University School of Medicine. Her postdoctoral research was conducted with a team of CNRS researchers in Paris, France, where she employed biochemical and gene therapy technologies to investigate the impact of protein aggregation in Parkinson's disease. At Brown, Dr. Ghee is actively engaged in mentoring and has served as a faculty advisor for Brown undergraduate independent thesis projects and mentor for graduate students. She was honored by the Samuel M. Nabrit Black Graduate Student Association with the Ruth J. Simmons Award for Leadership.



Chloe Poston, PhD

Associate Director

Dr. Chloe N. Poston is a proud graduate of Clark Atlanta University, where she earned a B.S. in Chemistry. Dr. Poston earned both her Masters and Doctoral degrees in Chemistry from Brown University. Her thesis research was focused on mass spectrometry-based proteomic analysis of the mitochondrial-associated endoplasmic reticulum (MAM). Her work highlighted the connections between the role of calcium trafficking from the ER to the mitochondria and neurodegenerative disease. During her studies at Brown, Chloe served as the President of the Nabrit Black Graduate Student Association, the Chair of the Graduate Students of Color Conference, and a member of the University Diversity Advisory Board.

During her Post-Doc at Eli Lilly and Company in the biological mass spectrometry group, Dr. Poston explored her interests in science policy, diversity, and education through her blog, The Poston Collective. Dr. Poston continued to pursue this interest as an AAAS Science and Technology Policy Fellow at the National Science Foundation where she focused on projects related to scientific communication and broadening participation in science, serving as the executive secretary for the Federal Coordination in STEM Education Broadening Participation Subcommittee. In this role, Dr. Poston worked with 13 government agencies to identify opportunities to encourage individuals from underrepresented groups to pursue and remain in STEM careers. Dr. Poston leveraged the government knowledge she gained in her fellowship as a science policy consultant where she focused on issues related to diversity in the biomedical research workforce.



William Wittels, PhD

Manager of Undergraduate & Graduate Programs

Dr. William Wittels is the Manager of Undergraduate and Graduate Programs for the Leadership Alliance. In that capacity, he helps to manage the Leadership Alliance's Summer Research Early Identification Program, and Leadership Alliance Mellon Initiative. He also assists in program evaluation and strategic planning across the organization. Prior to joining The Leadership Alliance, he was a member of the Tobin Project, where he fostered multi-year research initiatives on the role of the media in preventing (or abetting) special interest influence in democracies and on the practice and theory of strategic threat assessment. He also managed their Graduate Student Fellowship and created their Prospectus Development Workshop. He has held teaching fellowships at Duke University as well as Humboldt University in Berlin. He received his Ph.D. and Certification for Teaching Politics from the Department of Political Science at Duke. While there, he was also affiliated with the Kenan Institute of Ethics.



Maria DoVale

Conference & Events Specialist

Maria DoVale is the Conference & Events Specialist 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-Officio 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.



Barbara Kahn

Coordinator of Undergraduate Programs

Barbara Kahn is the Coordinator for 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.



Ashleigh LoVette

Project Assistant

In addition to being Project Assistant for The Leadership Alliance, Ashleigh LoVette is a doctoral candidate in Behavioral and Social Sciences within the School of Public Health at Brown University. With an interest in global health, she has spent time completing research and working in Ghana and South Africa. Her research aims to promote mental health and well-being among young people, with special attention to strength-based approaches and cultural humility. Ashleigh's current research interests include understanding how we conceptualize and measure resilience, particularly in the context of HIV and AIDS.



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