



Office of
Research

HOWARD UNIVERSITY
**RESEARCH
SYMPOSIUM**

April 27-29, 2022



PROGRAM BOOK

HOWARD UNIVERSITY

RESEARCH SYMPOSIUM

April 27 – 29, 2022

PROGRAM BOOK

HOWARD UNIVERSITY

RESEARCH MONTH 2022 ACTIVITIES

MONDAY, APRIL 4TH

12:00 PM - 3:00PM

Opening Session and Lunch/Bufferet for Attendees

Interdisciplinary Research Building, Multipurpose Room, and First Floor Lobby

WEDNESDAY, APRIL 6TH

1:00 PM - 5:00PM

Pfizer 3D Drug Discovery and Development Workshop

Howard University Health Sciences Faculty and Students

Welcome and Introductions:

Dr. Anthony Wutoh, Provost and Chief Academic Officer and Dr. Kera Lawson, Executive Director, Research Development, Office of Research, Howard University

Workshop Facilitators:

Dr. Pamela Smith, Vaccines Medical Director, Pfizer, Inc.
Dr. Megan Robinson, Director, R&D Scientific Learning
Interdisciplinary Research Building, Multipurpose Room

THURSDAY, APRIL 7TH

3:30 PM - 5:00 PM

Success and Resilience Among Black Children of Incarcerated Parents

Welcome and Introductions:

Dr. Nicole Jenkins, College of Arts & Sciences

Speakers:

Dr. Britney Gatewood, Albany State University, Center for Educational Opportunity
Dr. Bahiyyah Muhammad, HU, College of Arts & Sciences
Interdisciplinary Research Building, Multipurpose Room

MONDAY, APRIL 11TH

12:00 PM - 3:00PM

Disinformation and Social Media During A Pandemic

Welcome and Introductions:

Dr. Keneshia Grant, HU College of Arts & Sciences

Speakers:

Dr. Roger Caruth, HU Cathy Hughes School of Communications
Dr. Keesha Middlemass, HU College of Arts & Sciences

Dr. Bahiyyah Muhammad, HU College of Arts & Sciences
Interdisciplinary Research Building, Multipurpose Room

HOWARD UNIVERSITY

RESEARCH MONTH 2022 ACTIVITIES

TUESDAY, APRIL 12TH

12:00 PM - 3:00PM

Howard Research Centers for Minority Institutions (RCMI) Town Hall: Research Funding Opportunities Through RCMI

Welcome and Introductions:

Dr. Pamela Carter-Nolan, HU Graduate School

Speaker:

Dr. William Southerland, College of Medicine,
Howard University
Virtual Seminar

THURSDAY, APRIL 14TH

12:00 PM - 1:00PM

CETLA, "Let's Talk"

Welcome and Introductions:

Associate Provost for Faculty Development, Christian Okianer Dark, Officer of The Provost, Howard University

Speaker:

Dr. Morris Thomas, HU Center for Excellence in Teaching,
Learning & Assessment
Virtual Seminar

2:00 PM - 3:00PM

Johnson and Johnson Innovation, JLABS: Engagement and Entrepreneurship to Advance Innovation

Welcome and Introduction:

Mr. Terry Adams, IP Marketing and Faculty Innovation Specialist, Office of Research, Howard University

Speaker:

Dr. Michael Nestor, Johnson & Johnson Innovation –
JLABS @ Washington, DC.
Interdisciplinary Research Building, Multipurpose Room

FRIDAY, APRIL 15TH

1:00 PM - 1:30 PM

Howard University-Brookhaven National Laboratory MOU Signing Ceremony

Dr. Anthony K. Wutoh, Provost, Howard University

Dr. Doon Gibbs, Director, Brookhaven National Laboratory
Virtual Signing Event

HOWARD UNIVERSITY

RESEARCH MONTH 2022 ACTIVITIES

MONDAY, APRIL 18TH

11:00 AM - 12:00PM

Quantum Materials Research at the Nexus of Exascale Simulation, Artificial Intelligence, and Quantum Computing Seminar

Welcome and Introduction:

Dr. Tao Wei, HU College of Engineering & Architecture

Speaker:

Dr. Aiichiro Nakano, University of Southern California, School of Engineering

Interdisciplinary Research Building, Multipurpose Room

1:00 PM - 2:00PM

NIH, Proposal for a Joint Howard University College of Medicine HUCM/NIAA Graduate Partnership

Welcome and Introduction:

Dr. Thomas Heinbockel, HU College of Medicine

Speaker:

David Lovinger, National Institutes of Health (NIH)

Interdisciplinary Research Building, Multipurpose Room

3:00 PM - 5:00 PM

Research Translation & Commercialization Symposium: I-Corps, SBIR, Convergence Accelerator and other funding opportunities

Welcome and Introduction:

Ms. Dana Hector, Executive Director, Research Administrative Services, Office of Research

Speaker/Presenter:

Dr. Nancy Kamei, Program Director, National Cancer Institute SBIR Development Center

Dr. Grant Warner, HU College of Engineering & Architecture

Interdisciplinary Research Building, Multipurpose Room

TUESDAY, APRIL 19TH

1:00 PM - 4:00PM

Logistics Management Institute (LMI) Technical Showcase

Welcome and Introductions:

Dr. Michaela Amoo, HU College of Engineering & Architecture, Howard University

HOWARD UNIVERSITY

RESEARCH MONTH 2022 ACTIVITIES

Panelists:

Dr. Legand Burge, College of Engineering & Architecture, Howard University

Dr. Danda Rawat, College of Engineering & Architecture, Howard University

Dr. William Southerland, College of Medicine, Howard University

Dr. Kim Barnette, LMI

Dr. Linda Bixby, LMI

Ms. Julia Buffinton, LMI

Mr. Michael Durst, LMI

Dr. Jamechia Hoyle, LMI

Mr. Josh Malloy, LMI

Dr. Pamela Williams, LMI
Interdisciplinary Research Building, Multipurpose Room

WEDNESDAY, APRIL 20TH

1:00 PM - 2:00PM

All of U.S. Research Program & The W. Montague Cobb Health Institute Seminar

Welcome and Introductions:

Dr. Roger Mitchell, HU College of Medicine

Speaker/Presenter:

Dr. Shanta Whitaker, Engagement Counselor, All of US Research Program
Dr. Randall C. Morgan, Jr., W. Montague Cobb/NMA Health Institute
Virtual Seminar

THURSDAY, APRIL 21ST

12:00 PM - 2:00 PM

The Graduate School - Publishing Workshop

Welcome and Introduction:

Mr. Andre Lane, Senior Program Director, Office of Research

Speakers:

Dr. Terri Adams, The Graduate School

Dr. Clarence Lusane, The College of Arts & Sciences

Dr. Shadya Sanders, the Graduate School

Dr. Leticia Williams, The Graduate School
Interdisciplinary Research Building Multipurpose Room

HOWARD UNIVERSITY

RESEARCH MONTH 2022 ACTIVITIES

2:00 PM - 4:00 PM

American Council of Learned Societies (ACLS) Seminar

Welcome and Introduction:

Ms. Pamela A.G. Clarke, Director, Research Development,
Office of Research

Speaker:

Dr. John Paul Christy, The American Council of Learned
Societies (ACLS), Senior Director of U.S. Programs
Virtual Event

FRIDAY, APRIL 22ND

1:00 PM - 5:00 PM

Office of Research - Pitch HU Incubator Symposium

Welcome and Introductions:

Dr. Bruce Jones, Professor and Vice President for
Research, Howard University

Speakers:

Mr. Terry Adams, IP Marketing and Faculty Innovation
Specialist, Office of Research, Howard University

Mr. Ajit Verghese, Co-Founder and General Partner,
Humble Ventures

Interdisciplinary Research Building, Multipurpose Room

MONDAY, APRIL 25TH

12:00 PM - 1:00 PM

NSF Graduate Research Fellowship Program

Welcome and Introductions:

Ms. Pamela Clarke, Director, Research Development,
Office of Research, Howard University

Speakers:

Dr. Narcrisha Norman, Program Director National Science
Foundation (NSF)

Dr. Christopher L. Hill, Program Director, National Science
Foundation (NSF)

Dr. Joel Schildbach, Program Director, National Science
Foundation (NSF)

Interdisciplinary Research Building, Multipurpose Room

HOWARD UNIVERSITY

RESEARCH MONTH 2022 ACTIVITIES

TUESDAY, APRIL 26TH

10:00 AM - 12:00 PM

DC Center for AIDS Research (CFAR) Diversity, Equity and Inclusion Scholar Research Seminar

Welcome and Introductions:

Dr. Mark Burke, HU College of Medicine

Presenters:

Benjamin Banneker Academic High School Students
*Interdisciplinary Research Building,
3rd Floor Conference Room*

1:00 PM - 3:00PM

Chadwick A. Boseman College of Fine Arts Symposium, Candid Conversations on Arts and Research

Welcome and Introductions:

Dr. Ofosuwa Abiola, Associate Dean for Research,
Chadwick A. Boseman College of Fine Arts,
Howard University

Faculty Presenters:

Mr. Douglas Bowles, Chadwick A. Boseman College of
Fine Arts

Ms. Jacqueline Carmichael, Chadwick A. Boseman College
of Fine Arts Dr. Raimi Gbadamosi, Chadwick A. Boseman
College of Fine Arts

Mr. Benny Gomes, Chadwick A. Boseman College of Fine
Arts Dr. Melanee Harvey, Chadwick A. Boseman College of
Fine Arts

Mr. Alexander McSwain, Chadwick A. Boseman College
of Fine Arts Dr. Chinyerem Ohia, Chadwick A. Boseman
College of Fine Arts

Dr. Eric Poole, Chadwick A. Boseman College of Fine Arts
Interdisciplinary Research Building, Multipurpose Room

WEDNESDAY, APRIL 27TH

7:30 AM - 5:00 PM

Research Symposium

Interdisciplinary Research Building

7:30AM

**Research Symposium Registration & Continental
Breakfast**

9:00AM

Oral & Poster Presentations

12:00PM

Lunch

1:15PM

Oral & Poster Presentations

4:30 PM

Closing

HOWARD UNIVERSITY

RESEARCH MONTH 2022 ACTIVITIES

2:00 PM - 4:00 PM

**Frederick National Laboratory Seminar:
New Cell Cycle Inhibitors Target Aneuploidy in
Cancer Therapy**

Welcome and Introduction:

Dr. Carla Williams, Interim Director, HU Cancer Center

Seminar Presenter:

Dr. Ethan Dmitrovsky, Frederick National Lab
Interdisciplinary Research Building, Multipurpose Room

THURSDAY, APRIL 28TH

7:30 AM - 5:00 PM

Research Symposium

Interdisciplinary Research Building

7:30AM

**Research Symposium Registration &
Continental Breakfast**

9:00AM

Oral & Poster Presentations

12:00PM

Lunch

1:15PM

Oral & Poster Presentations

4:30 PM

Closing

FRIDAY, APRIL 29TH

7:30 AM - 5:00 PM

Research Symposium

Interdisciplinary Research Building

7:30AM

**Research Symposium Registration &
Continental Breakfast**

9:00AM

Oral & Poster Presentations

12:00PM

Lunch

1:15PM

Oral & Poster Presentations

4:30 PM

Closing

HOWARD UNIVERSITY

RESEARCH MONTH 2022 ACTIVITIES

1:00 PM - 2:00 PM

Howard University–Columbia University Materials Research Science and Engineering Centers (MRSEC) and Partnerships for Research and Education in Materials (PREM) SEED Partnership

Welcome and Introduction:

Dr. Kim M. Lewis, Professor and Associate Dean of Research, College of Arts & Sciences and Dr. Sonya Smith, Professor, College of Engineering & Architecture

Speakers:

Dr. James Hone, Columbia University

Dr. Colin Nuckolis, Columbia University

Dr. Xavier Roy, Columbia University
Interdisciplinary Research Building, Multipurpose Room

2:30 PM - 4:00 PM

Brookhaven National Laboratory Seminar

Welcome and Introduction:

Ms. Pamela Clarke, Director, Research Development, Office of Research, Howard University

Seminar Presenter:

Dr. John Hill, Director, National Synchrotron Light Source II & Deputy Associate Laboratory Director for Energy & Photon Sciences, National Synchrotron Light Source II.
Interdisciplinary Research Building, Multipurpose Room

Virtual Access Via Zoom:

Meeting ID: 862 4454 3818 Passcode: 15693099

6:00 PM - 9:00 PM

Howard University Undergraduate Research Journal Symposium and Awards Ceremony

Welcome and Introductions:

Ms. Joycelyn Moulden-Hughes, Office of Undergraduate Studies

Presenter:

Dr. Bruce Jones, Professor and Vice President for Research, Office of Research Students:

Ms. Ahlina Archibald, College of Arts & Sciences Ms. Kirsten Branch, College of Arts & Sciences Ms. Lauren Bush, College of Arts & Sciences

Ms. Alexandra Grayson, College of Arts & Sciences
Interdisciplinary Research Building, Multipurpose Room

HOWARD UNIVERSITY

Office of the Vice President for Research

April 1, 2022

Dear Howard University Community,

HU Research Week has been renamed **HU Research Month (April 1- 29, 2022)** in order to expand the opportunity to celebrate and honor the outstanding research that is conducted by our faculty, students, and research staff. In addition, the expansion to a full month better enables the Howard community to thank our external institutional partners who support HU research as many of these partners will be on the Howard campus throughout the month of April. Key events of *HU Research Month* will include the following:

The Opening Event

- ✓ *Office of Research, HU Research Month Opening Ceremony and Luncheon* on April 4.

Our Partner Events

- ✓ From Pfizer, *The 3D Drug Discovery and Development Workshop* on April 6.
- ✓ From HU RCMI, *Research Funding Opportunities Through RCMI* on April 12.
- ✓ From JLABS, *The Engagement and Entrepreneurship to Advance Innovation Seminar* on April 14.
- ✓ Office of the President, Dr. Wayne A.I. Frederick and Dr. Doon Gibbs, Director, Brookhaven National Laboratory engage in *Howard University-Brookhaven National Laboratory Virtual MOU Signing Ceremony* on April 15.
- ✓ From LMI, *The Technical Showcase* on April 19.
- ✓ From NSF, the *Graduate Research Fellowship Program* on April 25.
- ✓ From The Chadwick A. Boseman College of Fine Arts, *Candid Conversations on Arts & Research* on April 26.
- ✓ *The Frederick National Laboratory Seminar with Dr. Ethan Dmitrovsky* on April 28.
- ✓ *The Brookhaven National Laboratory Seminar* on April 29.

The Signature Event

- ✓ The widely acclaimed *Research Symposium* on April 27 – 29 will bring together students, faculty, and research staff in the Interdisciplinary Research Building (IRB) to discuss their research findings with members of the Howard community, external constituents, and supporters from various federal and local agencies as well as representatives of the philanthropic and higher education community.

The Closing Event

- ✓ *The Howard University Undergraduate Research Journal Symposium and Awards Ceremony* on April 29.

Please mark your calendars and save the dates for the events listed above!

Sincerely,

Bruce Jones, Ph.D.
Professor and Vice President for Research



2201 Georgia Avenue, N.W., Room 421E
Washington, DC 20059

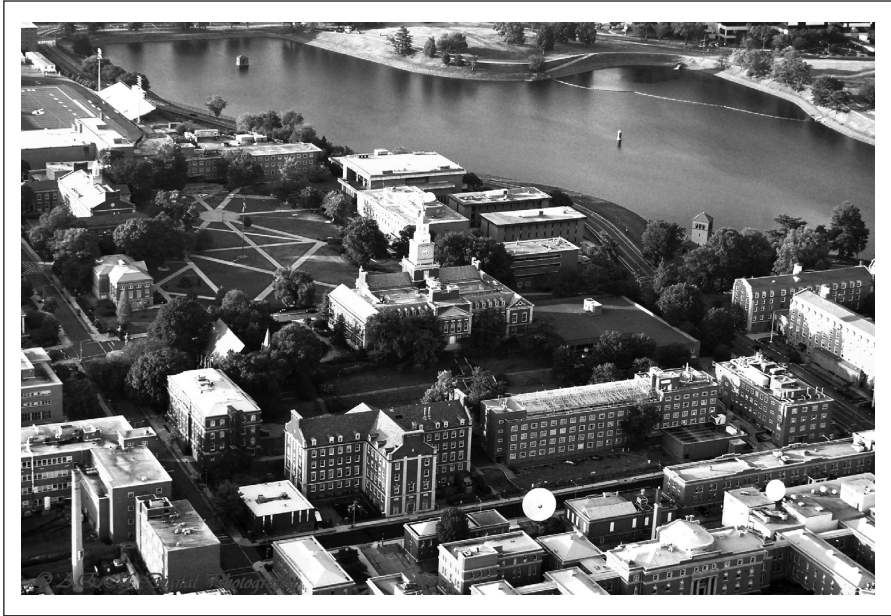
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HOWARD UNIVERSITY

RESEARCH SYMPOSIUM

Interdisciplinary Research Building

APRIL 27-29TH



PROGRAM

7:30–8:30 AM

Registration & Continental Breakfast
1st Floor, Interdisciplinary Research Building

8:30–8:50 AM

Greetings
Anthony K. Wutoh, Ph.D., R.Ph.
Provost & Chief Academic Officer

Opening Remarks
Bruce Jones, Ph.D.
Vice President for Research

ORAL AND POSTER PRESENTATIONS

APRIL 27, 2022

SESSION I

9:00 AM-10:00 AM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Mitham Al-faliti, Graduate Student

Comparing rates of change in SARS-CoV-2 wastewater load and clinical cases across major metropolitan areas in the United States

Keale Cade, Professional Student

Incidence, Characteristics, and Cost of Eyelid Lacerations in the United States from 2006 to 2014

Chinormso Diribe, Post Doc/Resident/Fellow/Research Associate

AMPK signaling stimulates mitochondrial mitophagy and ATP production in human trophoblast cells

Kindha Elleissy Nasef, Professional Student

Factors associated with Attempted Suicide and Self-Inflicted Injury among Women aged 18-65 years in the United States: a Retrospective Analysis of the NIS (2003-2015)

9:00 AM-10:00 AM | MULTIPURPOSE ROOM | CREATIVE ARTS & DESIGN

Martin Paddack, Junior Faculty/ Lecturer/ Instructor

Adaptive Architecture for Space Habitation

9:00 AM-10:00 AM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Justin Drummond, Graduate Student

Did the COVID-19 Vaccine Rollout Effect Transportation Demand: A case study in New York City?

9:00 AM-10:00 AM | 3RD FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Hanadi Alabaad, Graduate Student

The Impact of Female Labor Force Participation Rate on Economic Growth Theoretically and Empirically: OECD Countries Case Study

Meshai Anthony, Graduate Student

The Effects of Psychosocial Factors, Stress, and Coping on Maternal Well-Being

Serena Bradshaw, Graduate Student

The Effects of Daughter and Father Relationships and its Impact on Romantic Relationship Satisfaction in Black Women

Symone Campbell, Graduate Student

The Symbolic Annihilation of Black Girls: How K-12 Charter Schools Marginalize Black Girls through Magazine Advertisements

9:00 AM-10:00 AM | FACULTY LOUNGE | TRANSLATIONAL & CLINICAL SCIENCES

Kimberly Gardner, Undergraduate Student

Nutritional Status of Individuals Residing in Correctional Facilities: A Systematic Review and Call to Action

Harold Drosey, Professional Student

The Impact of the COVID-19 Lockdown on the Rate of Injuries in the National Basketball Association

Jutta Brettschneider, Graduate Student

Effects of Feldenkrais Awareness Through Movement® practice on self-care learning of OT students at Howard University

Clara Benjamin, Graduate Student

Shifting Outcomes for Cervical Ectopic Pregnancies using Characteristic Transvaginal Ultrasound Findings

Perpetue Bataille Backer, Graduate Student

Site specific Drug Delivery for the Treatment of Gliomas

Colette Akhimien, Undergraduate Student

The use of motivational interviewing in the HIV/AIDS population to address nutrition-related health disparities in acute care settings: a narrative review and case report

SESSION II

10:05 AM-11:05 AM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Vivian Eziah, Graduate Student

Do biofilm infection and microbial communities cause breast implant complications? A case study analysis

Thomas Heinbockel, Senior Faculty

Direct and Indirect Effects of Endocannabinoids on Interneurons and Output Neurons in Central Olfactory Circuits

Kunle Kassim, Senior Faculty

Bacterial hemolysins: inhibition of host cell membrane lysis by maternal milk proteins

Namita Kumari, Junior Faculty/ Lecturer/ Instructor

Antiviral Factors Inhibit HIV-1 Infection in Sickle Cell Disease

10:05 AM-11:05 AM | MULTIPURPOSE ROOM | HUMANITIES

A'maiya Allen, Undergraduate Student

Pride & Joy: Southern College Football Dominance and the Black Student-Athlete Experience

Selena Cuffy, Graduate Student

The Resilience of British West Indian Immigrants in the United States Experiencing Elevated Societal Stress

Jamecion Green, Undergraduate Student

Reading Between the Lines: Emancipatory Narratives and their Role in Social Progress

Lucombo Luveia, Graduate Student

Chinese Trade Shock and Employer Concentration

10:05 AM-11:05 AM | 3RD FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Angela Carter, Graduate Student

Soulful Consciousness: An Examination of the Legacy of The Sound of Philadelphia and Cultural Identity Development

Bethel Cole-Smith, Graduate Student

Housing Affordability and DC's Homeowner and Renter Property Tax Credit

Courtland Douglas, Graduate Student

Masc Scripts, Masked Men?: A Proposed Study of Self-Gender Policing in Gay African American Men

Nkechi Enwerem, Senior Faculty

Educating Howard Nursing Students about Human Centered Design(HCD) for Expectant and Parenting Teens (EPTS) presenting with challenges to finish High School: A Pilot Study

SESSION III

11:10 AM-12:10 PM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Sergei Nekhai, Senior Faculty

Sickle Cell Hemoglobin Induces Antiviral Response in Sickle Cell Disease

Priscilla Okunji, Senior Faculty

Comparative study of disease categories: Electronic Health Records Interrogation

Priscilla Okunji, Senior Faculty

Factors Influencing the Mortality Rate of Patients Admitted with Chronic Disease in Urban Hospitals in DC Metropolitan Area: EHR Big Data Analysis

Oluwanifemi Owoseni, Graduate Student

Optimization of Nanoparticle Size for Improved Drug Delivery to Tumors in Cancer Therapy.

11:10 AM-12:10 PM | MULTIPURPOSE ROOM | HUMANITIES

John Merritt, Undergraduate Student

Black Undergrounds: Subterranean Geographies in Contemporary Black American Literature

Tiffanee Moore, Undergraduate Student

Women Faculty of Howard University Department of Afro-American Studies - Women at Howard University Project Abstract

Trinidad Pardo Ballester, Junior Faculty/ Lecturer/ Instructor

Angel Barrios and the First Flamenco Deep Song Contest of Granada (Spain, 1922)

11:10 AM-12:10 PM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Silvina Gatica, Senior Faculty

Gas separation by adsorption

11:10 AM-12:10 PM | 3RD FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Jeffrey Galloway, Graduate Student

Quantifying the impact of Sanitary and Phytosanitary (SPS) Measures in Agriculture: United States Beef Exports to Japan

Brittany Hinkle, Graduate Student

Exploring Black Learning, Love, and Loss

Bryan Jenkins, Graduate Student

Doing Black Podcast Studies: Exploring the Black Oral Tradition and Critical Media Literacy in Alternative Media

Felipe Juan, Graduate Student

Student debt, Housing Payments, and COVID-19: Implications of Paused Student Loan Payments

SESSION IV

1:15 PM-2:15 PM | 2ND FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Sneha Adidam, Graduate Student

Metastatic Pancreatic adenocarcinoma presenting as metastatic Abscess of Liver and Spleen in dialysis patient: a case report

1:15 PM-2:15 PM | 2ND FLOOR CONFERENCE ROOM | ETHICS, LAW & RELIGION

Camille Alexander, Undergraduate Student

The Longest Yard: Pymalion Depictions of Black Athletes

Harold McDougall, Senior Faculty

Neurodiversity and the Mental Health Crisis

1:15 PM-2:15 PM | 3RD FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Felipe Juan, Graduate Student

Unemployment Insurance and First Eligibility: Exogenous or Endogenous?

Charrosé King-Mathews, Graduate Student

"I'm a Weirdo": Gender, Race, and Autism Representation in Television Comedy Atypical

Dominique Knott, Graduate Student

The Impact of Covid-19 on the Mental Health of College Students

Keesha Middlemass, Senior Faculty
Disinformation on Social Media During a Pandemic

SESSION V

2:20 PM-3:20 PM | 2ND FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Seanta Cleveland, Junior Faculty/ Lecturer/ Instructor
An Evaluation of the Impact of Academic Policies and Athletic Procedures for Student Athletes

2:20 PM-3:20 PM | 3RD FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Vanesa Perry, Graduate Student
Can systemic racism be dismantled?

Aisha Powell, Graduate Student
The New Mammy: How Lovcraft Country's Hippolyta Freeman Circumvents Stereotypes About African American Women

Alexandria Smith, Graduate Student
"You Shouldn't Have to Feel Like That Here": Differences Between HBCU STEM Male and Female Perceptions of Racism and Sexism

Tess Starman, Graduate Student
The Role of Sociopolitical, Religious, and Personality Factors in Vaccine Uptake and Hesitancy: Implications for Public Health Approaches.

SESSION VI

3:25 PM-4:25 PM | 2ND FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Destinee Freeman, Undergraduate Student
That's Not Me: A Study of Self

3:25 PM-4:25 PM | 3RD FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Babajide Tella, Graduate Student
Assessing Female Representation in the Department of African Studies, Howard University

Jamal Uddin, Graduate Student
Bangladeshi Immigrants' Preventive Health Practice and Stress Management During COVID-19: A Cultured-Centered Approach

Aisha Udochi, Graduate Student
Big Data Analysis of Nigeria's Financial Transactions

Malik Woullard, Undergraduate Student
What Explains Low Stock Market Participation Among Black Americans? Evidence from the Survey of Consumer Finances

APRIL 28, 2022

SESSION I

9:00 AM-10:00 AM | MULTIPURPOSE ROOM | TRANSLATIONAL & CLINICAL SCIENCES

Emmanuel Akala, Senior Faculty

Nanotechnology platform for the treatment of HER2-positive breast cancer

Fikru Bedada, Junior Faculty/ Lecturer/ Instructor

Exercise intervention-induced expression of CBS enzyme and SRSF2 splice factor in elderly African American with MCI: Implication for H2S generation and homocysteine removal (GEMS-1 Pilot Study)

9:00 AM-10:00 AM | 3RD FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Chioma Oruh, Junior Faculty/ Lecturer/ Instructor

The Akoma Project: A Decolonial Process for Black Disabled Students, their Families, and the School-to-Prison Pipeline

Nija Packer, Undergraduate Student

Closing the Discipline Gap: How Cultural Divides Can Increase Inequality

Nesreen Qushmaq, Graduate Student

Exploring Self-Efficacy Beliefs and Educational Commitment in Post-Secondary Women with Chronic Illness

9:00 AM-10:00 AM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Tavia Roache, Undergraduate Student

Cardiovascular Disease in African-Americans: Health inequities and their consequences; A systematic Review

Alexa Ryan, Undergraduate Student

Time-Dependent Differences in Pain Assessments After Orexin Receptor-1 Antagonism in HbAA-BERK and HbSS-BERK Mice

Pranab Sarker, Post Doc/Resident/Fellow/Research Associate

Multiscale Study of Hydration, Salt Resistance, and Antibiofouling of Zwitterionic Materials

Jessica Smith, Professional Student

Application and Match Rates in the Surgical Oncology Match

Shaolei Teng, Senior Faculty

Bioinformatics Analysis of Coronavirus Spike and Human Receptor Proteins

Alliyah Vayson, Undergraduate Student

SNAP Education, Food Insecurity, and Low Income Populations: A Systematic Review

Tao Wei, Senior Faculty
Biointerfacial Phenomena and Applications

Precious Wells, Undergraduate Student
Nutrition and Attention-Deficient Hyperactivity Disorder (ADHD) in African American Women: A Systematic Review

Daneen Whitlow-Dixon, Undergraduate Student
The use of probiotics in managing and improving oral health: a systematic review

Felix Wireko, Post Doc/Resident/Fellow/Research Associate
The impact of Simulation-Based Training on the confidence in performing Cardiopulmonary Resuscitation among Internal Medicine Residents.

Felix Wireko, Post Doc/Resident/Fellow/Research Associate
Improving Intensive Care Unit Nurses' Knowledge on Delirium through a Quality Improvement Initiative in an Inner-City Hospital

9:00 AM-10:00 AM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Temiloluwa Akande, Undergraduate Student
Synthesis and Characterization of nanocomposite cellulose sponges for environmental remediation

Yahya Alqahtani, Graduate Student
Reduction of Capacity Fading in High-Voltage NMC Batteries with the Addition of Reduced Graphene Oxide

Malachi Berry, Graduate Student
Utilizing the Vapor Pressure Acquisition Systems (VPAS) to Obtain Vapor Pressure Data of Volatile Organic Compounds (VOCs) and a Binary VOC Mixture

Benjamin Corriette, Graduate Student
Wearable Technology in Public Transportation as an Application of Nondeterministic Finite Automata (NFA)

10:05 AM-11:05AM | 3RD FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Mpey Tabot, Post Doc/Resident/Fellow/Research Associate
Peer-to-Peer Point-of-Care-Ultrasound Training in Internal Medicine Residency Program: A Pre-Post Pilot study and Quality Improvement Initiative

10:05 AM-11:05AM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Christian Diaz caez, Graduate Student
A Pattern-Recognition-Based Mesh Refinement Method for the Moment Method Analysis of Electromagnetic Scattering Problems

Alex Holt, Graduate Student
Investigation of the output of the sPHENIX Geant4 Simulation

11:05 AM-12:05PM | 3RD FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Keeva Terry, Senior Faculty
Nonmarriage and Nonprobate

Oganya Udenyi, Graduate Student
Effectiveness of Community nutrition education programs in the treatment and prevention of chronic diseases

11:10 AM-12:10 PM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Tamanna Joshi, Graduate Student
Finite-size and Surface effects: Deep Defects in Nanostructured SiC

Kyndra Middleton, Graduate Student
The Probabilistic Automaton and Its Applications

Sai krishna Narayanan, Graduate Student
Influence of substrates on properties of defect-based quantum emitters in hexagonal boron nitride

Cyrille armel Sayou ngomsi, Graduate Student
A first principles study of n-doping of cubic boron nitride with carbon

1:15-2:15 PM | 3RD FLOOR CONFERENCE ROOM | ENVIRONMENTAL SCIENCES & STUDIES

Chavonne Bowen, Graduate Student
Evaluation of the WRF Model for Simulating of Bore Waves over the U.S. Southern Great Plains

Harold McDougall, Senior Faculty
Sustainable development in Ghana

Theophile Ngangmeni, Undergraduate Student
Chemicals and Indoor Air Quality

Karis Thomas, Undergraduate Student
Our Minds Control Our Future: Examining the Connection Between Cultural Orientation and Varying Sustainability Attitudes and Practices

1:15 PM-2:15 PM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Harrell Tolentino, Graduate Student
Radiation effect on SRAM-based FPGAs for use in the ISS

Ashley Walker, Graduate Student
Understanding the planetary atmosphere: A Tale of Uranus and Neptune

2:20 PM-3:20 PM | 3RD FLOOR CONFERENCE ROOM | ENVIRONMENTAL SCIENCES & STUDIES

Mahtab Waseem, Graduate Student

Remediation of Iodate Contamination Through Shewanella Oneidensis MR-1 Planktonic and Biofilm Cultures

2:20 PM-3:20 PM | 2ND FLOOR CONFERENCE ROOM | BUSINESS

Karthik Balasubramanian, Junior Faculty/ Lecturer/ Instructor

Inventory Pooling for Mobile Money Agents in the Developing World

Frank Emeni, Graduate Student

Game of Homes: The Impact of Short-Term Rentals on housing availability on Housing Choice Voucher Holders

Amanda Hinojosa, Junior Faculty/ Lecturer/ Instructor

Lessons on Leadership from Cognitive Dissonance Theory

POSTER PRESENTATIONS

APRIL 27, 2022

SESSION I

9:00 AM-10:00 AM | MULTIPURPOSE ROOM | CREATIVE ARTS & DESIGN

Rayna Richardson, Undergraduate Student

The Effectiveness of Dance/Movement Therapy on Body Image for Adolescents

Alyse Dees, Undergraduate Student

The Effects of Extreme Weather Conditions on Different Insulation Materials

Kristel Boursiquot, Undergraduate Student

Art Therapy Education at Undergraduate and Graduate Levels

9:00 AM-10:00 AM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Shakuan Frankson, Graduate Student

An invitation to the (Double) Riordan Group

Timothy tizhe Fidelis, Graduate Student

Formation of Protein Corona on Gold and Silver Nanoparticles

Melody Chepkoech, Graduate Student

Investigation of Mechanical and Microstructural Properties of Additively Manufactured 316L Stainless Steel

9:00 AM-10:00 AM | FACULTY LOUNGE | TRANSLATIONAL & CLINICAL SCIENCES

Bryan Mildort, Professional Student

Democratizing Artificial Intelligence: Empowering College Curriculums and the Next Generation Workforce with Deep Learning Technologies

Jennifer M. Hayes, Graduate Student

Combination of Physics-based Simulation and Machine Learning to Assess the Effect of SARS-CoV-2 Mutations on Remdesivir

SESSION II

10:05 AM-11:05 AM | FACULTY LOUNGE | TRANSLATIONAL & CLINICAL SCIENCES

Kiana Carr, Graduate Student

Increased Insulin Resistance in Male Hepatic Androgen Receptor Knockout Mice Fed High Fructose Diet

10:05 AM-11:05 AM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Sama Ghadiri Gargari, Graduate Student

Development and optimization of a tribo-electrification separation process for dry fractionation of yellow pea flour

Botagoz Kuspangaliyeva, Graduate Student

Tribo-electrostatic charging and separation behavior of plant protein-fiber mixtures

Cameron Lewis, Graduate Student

Role of FPGAs in Human Computer Interaction Based Systems

Brittney Menefee, Graduate Student

Combating Growing Antibacterial Resistance Through the Use of Polyhedral Boranes

SESSION III

11:10 AM-12:10 PM | MULTIPURPOSE ROOM | HUMANITIES

Zora Mckissic, Undergraduate Student

African American Women & Suffragists: The Pioneers and Fuel of the Civil Rights Movement

11:10 AM-12:10 PM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Meenakshi Nerolu, Junior Faculty/ Lecturer/ Instructor

External mechanisms of controlling Rayleigh-Benard convection in Newtonian nanoliquids

Naomi Rankin, Undergraduate Student

An Agent-Based Model of COVID-19 on the Diamond Princess Cruise Ship

Carrie Sweet, Graduate Student

Understanding Interactions of Gold and Silver Nanoparticles with Proteins to Achieve Optimum Surface Plasmon Effect

11:10 AM-12:10 PM | FACULTY LOUNGE | TRANSLATIONAL & CLINICAL SCIENCES

Tayla Hunter, Undergraduate Student

Over-Expressing hsf-1 in Glia Negatively Affects Reproductive Function in C. elegans

Chidubem Okeke, Professional Student

Identifying Potential Patient Barriers to African American participation in Hidradenitis Suppurativa Clinical Trials

Karyn Onyeneho, Graduate Student

Genetic Determinants of Type 2 Diabetes Mellitus in Adults of African Ancestry: Identification of the Associated Factors

SESSION IV

1:15 PM-2:15 PM | 2ND FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Jessica Alden, Junior Faculty/ Lecturer/ Instructor

Test-taking anxiety in occupational therapy students: a preliminary report

1:15 PM-2:15 PM | FACULTY LOUNGE | TRANSLATIONAL & CLINICAL SCIENCES

Oluwanifemi Owoseni, Graduate Student

Development of a Brusatol Conjugate for Targeted Prostate Cancer Therapy

Kalaila Pais, Professional Student

A rare case of isolated pulmonic valve endocarditis in a patient with sickle cell disease

g Patel, Professional Student

The Effectiveness of Home-Based Virtual Reality on improving Upper Extremity Function in Stroke Patients, A Scoping Review.

Megan Pressley, Staff

Optimizing Screening and Testing for Gonorrhea and Chlamydia in People with or at Risk of HIV Using Extragenital Site Self-Collected Swabs

SESSION V

2:20 PM-3:20 PM | 2ND FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Jaleen Best, Undergraduate Student
Mental Health Disparities Among Minority College Students

Erika Clark, Graduate Student
School Psychologists' Perspectives and Practices of Social Justice Work

Leila Fitt, Undergraduate Student
The Impact of Parental Involvement and Monitoring on Self-Efficacy Among African American 5th Grade Children

2:20 PM-3:20 PM | FACULTY LOUNGE | TRANSLATIONAL & CLINICAL SCIENCES

Deja Rush, Professional Student
Functional Recovery in Brown-Sequard Plus Syndrome: a case report

Deja Rush, Professional Student
History of Neurosurgery at Howard University Hospital: the nation's only historically black academic institution that practices neurological surgery

Forough Saadatmand, Junior Faculty/ Lecturer/ Instructor
Sleep Habits Associated with Telomere Length in Young African American Adult

Sanjum Singh, Professional Student
Hand and Wrist Injuries in Golfers: A Systematic Review of Literature

SESSION VI

3:25 PM-4:25 PM | 2ND FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Laila Muhammad, Undergraduate Student
The Role of Nutrition in Covid-19 Susceptibility of Disease: A Systematic Review

Tori Miller, Undergraduate Student
Examining the Impact of Poor Dietary Habits on the Development of Dental Caries: A Systematic Review

Tenisha Jones, Graduate Student
Assessing School Psychology Graduate Programs' Admissions Criteria from an Equity Perspective

3:25 PM-4:25 PM | FACULTY LOUNGE | TRANSLATIONAL & CLINICAL SCIENCES

Guiqin Xie, Post Doc/Resident/Fellow/Research Associate

Antitumor Efficacy of EGFR-targeted Recombinant Immunotoxin in human head and neck squamous cell carcinoma

Kyra Wilson, Graduate Student

Cultural orientation and health perceptions of African Americans men and women

Karis Thomas, Undergraduate Student

The Black Girls Matter Research Study

Sanjum Singh, Professional Student

Comparing survivorship and revision rate following unicompartmental arthroplasty with computer navigation and robotic systems vs conventional manual approach: A Literature Review

APRIL 28, 2022

SESSION I

9:00 AM-10:00 AM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Ghadeer Abdullah, Graduate Student

Auranofin inhibits Ebola virus replication by targeting NP- VP35 interaction

Asrar Ahmad, Post Doc/Resident/Fellow/Research Associate

Adaptation of the Ebola virus to the PPI-targeting IE7-03 compound enhances PPI binding to NP but impairs capsid formation

Fatemah Alhakami, Graduate Student

Role of Ferroportin Q248H in Iron Overload and Inflammation in African Americans

Amirah Alqahtani, Graduate Student

The Data Mining of A Breast Cancer Dataset Using Random Forest and Convolutional Neural Network Amirah Alqahtani, Xiang Simon Wang College of Pharmacy, Howard university, Washington DC 20059

9:00 AM-10:00 AM | FACULTY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

Adenike Fabunmi, Professional Student

Impact of Covid-19 on African Americans with Type II Diabetes: A Retrospective Study (January-November, 2020)

Claire Falzarano, Professional Student

High Fat Diet and High Fructose Diet-fed Male and Female Liv-ARKO Mice Displayed Exacerbated Glucose-Stimulated Insulin Secretion

Brittany Grossi, Professional Student

The Head, Blood Vessels, and Nerves of Orangutans and Comparison with Humans

Tyra Hamilton, Undergraduate Student
Identification of New Ant Species on Howard University's Campus

9:00 AM-10:00 AM | 3RD FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Morgan Phillips, Undergraduate Student
A Deep Examination of the Relationship Between Peer Victimization and Social Anxiety in Adolescence.

9:00 AM-10:00 AM | 2ND FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Kadija Abib, Graduate Student
Improving Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL) Skills in Women in Transitional Housing in Preparation for Independent Living

Azam Ardakani, Graduate Student
Fruit and Vegetable Consumption Decreased among Various Demographic Groups since Covid-19 Pandemic

Mashayla Billups, Undergraduate Student
Black Communities and Domestic Terrorism: A Content Analysis of Media Used in Race Riots

Ashley Clark, Graduate Student
Evaluations, Communities of Color and 5 Suggestions for Improvement

SESSION II

10:05 AM-11:05AM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Yousef Alrajhi, Graduate Student
Role of Nef in Macrophages Infiltration in Lungs of HIV Tg Mice

Najla Alzaid, Graduate Student
AlphaFold 2 Based Structural Analysis of Protein-Protein Interaction Interface for Anticancer Drug Development

Hana Baig, Professional Student
Persistence of disparity in thyroid cancer survival after adjustments for socioeconomic status and access

Glory Bassey, Graduate Student
Molecular Characterization of Endosymbionts in Phlebotomine Sandflies

10:05 AM- 11:05AM | 2ND FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Princess Cofie, Graduate Student

The Role of Protein Supplementation in Ameliorating Functional Losses Among Aging African American Groups in the United States

Charles Conteh, Graduate Student

Beauty Standards of Black Men: The Impact of Colorism

Gabrielle Dunn, Undergraduate Student

Past and Present: A Study of Oral Traditions that Heal and Mitigate within the Black Diaspora

Kelly Garrett, Graduate Student

Evaluation of a Sleep Education Program: Addressing Sleep Hygiene among Adolescents during the COVID-19 Pandemic

10:05 AM-11:05AM | FACULTY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

Brandon Hartmann, Professional Student

Angiogenic Gene Characterization and Vessel Permeability of Dermal Microvascular Endothelial Cells Isolated from Burn Hypertrophic Scar

Steven Houston, Undergraduate Student

Analyzing the Effect of Human Behavior on Ant Species

Kervin Hyppolite, Professional Student

The STIM1 regulator-SARAF, Ca²⁺ influx and Acute Pancreatitis in vivo

Akila Islam, Undergraduate Student

Isolation and Characterization of Phages Briakila, Soile and Toni Isolated from the Howard University campus

10:05 AM-11:05AM | 3RD FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Debbie Sineus, Undergraduate Student

Heart Disease in African American Women: A Systematic Review

Jaila Smith, Undergraduate Student

Fruit and vegetables intake in adolescents and mental health: a systematic review

Jaila Smith, Undergraduate Student

Effect of Adherence to Mediterranean Diet during Pregnancy on Children's Health: A Systematic Review

SESSION III

11:10 AM-12:10 PM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Diane Beal-tydings, Professional Student

African American Women and Triple Negative Breast Cancer: Widened Disparities Associated with Covid-19 Pandemic

Alyera Benjamin, Undergraduate Student

The Relationship Between Proximity to Fast Food Restaurants and Obesity in Older Adults

Bereket Berhe, Graduate Student

Investigating barriers to antidiabetic medication adherence among individuals with type 2 diabetes

Clemilson Berto Junior, Post Doc/Resident/Fellow/Research Associate

HIV-1 Restriction Factors Expression in Sickle Cell Disease Spleen Mice

11:10 AM-12:10 PM | FACULTY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

Andrey Ivanov, Staff

HIV-1 Tat interaction with ELL1 and KAP1

Jheannelle Johnson, Undergraduate Student

Understanding Pathogenesis of Alzheimer's Disease Type II Diabetes Mellitus Patients using Pathway Profiler Array (qRT-PCR): A Case Study

Levi Kafando, Undergraduate Student

A universal model for the biomechanical response of spider silk filaments

Lindsey Koper, Junior Faculty/ Lecturer/ Instructor

The Functional Morphology and Comparisons among the Pinniped Middle Ear Apparatuses

11:10 AM-12:10 PM | 2ND FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Lacey Johnson, Undergraduate Student

The Aesthetic of Gentrification: An Analysis of the Relationship Between Murals, Graffiti, and Gentrification in the Union Market District

Jonece Layne, Graduate Student

Black Daughters and Disordered Eating: Parenting as Prevention and Treatment

Ashley Ortiz, Graduate Student

Pelo Bueno?: A Discussion on Redefining 'Good Hair' for Latinx Women in the U.S.

Samantha Powers, Junior Faculty/ Lecturer/ Instructor

Imperfectly perfect: Examining psychosocial safety climate's influence on the physical and psychological impact of perfectionism in the practice of law

11:10 AM-12:10 PM | 3RD FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Isaiah Waiters, Undergraduate Student

A Systematic Review: The Impact of Inadequate Dietary Intake in Adolescents with Type 1 Diabetes

Alayah Young, Undergraduate Student

The Disproportionate Prevalence of High Blood Pressure in African American Women

SESSION IV

1:15 PM-2:15 PM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Naina Bhatia-dey, Junior Faculty/ Lecturer/ Instructor

Neuromodulation of Output Neuron Activity Patterns in Olfactory Bulb Circuits

Aaliyah Blake, Undergraduate Student

To Examine the Impact of Folic Acid & Vitamin B12 in Pregnant Women: A Systematic Review

Alexander Boakye, Undergraduate Student

Effect of polystyrene nanoparticles on commercial mucin

Sarah Bolarinwa, Undergraduate Student

Characterization of cells isolated from the urine of sickle cell disease patient

1:15 PM-2:15 PM | FACULTY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

Gulriz Kurban, Post Doc/Resident/Fellow/Research Associate

A Machine Learning Approach to Classify Sickled and Healthy Red Blood Cells

Taylor Lofton, Staff

Increased Insulin Resistance in 10-month compared to 5-month Old Male Hepatic Androgen Receptor Knockout Mice

Vidhyanand Mahase, Graduate Student

Computational prediction of mutation effects on ACE2 receptor protein stability and binding affinity between the spike protein of SARS - CoV - 1 and SARS - CoV - 2

1:15 PM-2:15 PM | 2ND FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Garima Rokaya, Undergraduate Student

The Relationship Between Spirituality and Creativity

Lauren Smith, Undergraduate Student

Behind the Scenes: How Inclusivity Affects African-American's Involvement in Musical Theatre

Rhema White, Graduate Student

"We started out with clues, and now it's what...student loans?": Encoding & Decoding Nostalgia in Blue's Clues 25th Anniversary Video

Dana Williams-Johnson, Professional Student

Representations of Black Love in Contemporary Romance Novels: How Do We Get to Happily Ever After?

SESSION V

2:20 PM-3:20 PM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Regan Burgess, Professional Student

Characteristics and Academic Career Outcomes of Godina Fellowship Recipients

Tahj Butler, Graduate Student

The Identification of Genetic Triggers that Contribute to the Risk and Onset of Type 2 Diabetes Mellitus to Create a Comprehensive Nutritional Prevention and Treatment Plans

Naomi Calhoun, Undergraduate Student

Aggregation Stability of Galactose Coated DNA Particles in Various Media

Tzu-lan Chang, Post Doc/Resident/Fellow/Research Associate

Cross-adhesion behaviors between the sugars of N-glycans

2:20 PM-3:20 PM | FACULTY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

Chidi Martins, Professional Student

A Review on the Clinical Significance of Hypoplastic AI Segment in Relation to Cerebrovascular Events

Destiny Minns, Undergraduate Student

Tagging the 19S Lid Proteasomal Subunit rpn-6.1 with the epitope OLLAS results in a significant fertility defect.

Nuha Mohammed, Undergraduate Student

*Classifying Diapause-State of *Culex pipiens* with Infrared Spectroscopy and PCA-K-means Based Clustering*

Zaki Muhammad, Undergraduate Student

Perceived Racial Discrimination and Hypertension: A Comprehensive Systematic Review

2:20 PM-3:20 PM | 2ND FLOOR CONFERENCE ROOM | BUSINESS

Jean Wells, Senior Faculty

Can Russians Evade Economic Sanctions Imposed From Invasion of Ukraine? Eastern Caribbean Citizenship by Investment Programs Unintended Consequences

2:20 PM-3:20 PM | 3RD FLOOR CONFERENCE ROOM | ENVIRONMENTAL SCIENCES & STUDIES

Charnae' Henry-Smith, Undergraduate Student

*The Phylogenetic Characterization of *Cupriavidus necator* AD60 and Understanding its Ability to Reduce Iodate*

SESSION VI

3:25 PM-4:25 PM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Danielle Chew-Martinez, Undergraduate Student
Synthesis of Compounds for Treatment of Sickle Cell Anemia

Aden Desta, Undergraduate Student
Nutritional Intervention for Type II Diabetes Prevention in Minority Youth: Pre-Diabetes

Elan Donnellan, Graduate Student
Cardiac pre-ejection period and blood pressure in African American college students

Tovae Dyke, Undergraduate Student
Association between Aflatoxins and Liver Disease in Developing Countries: A Systematic Review

3:25 PM-4:25 PM | FACULTY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

Eunice Ngata, Graduate Student
Characterization of High-Dose Electrospun Therapeutic Peptides for Sustained Release

Elvis Ngwa, Graduate Student
Factors Affecting the Readmission Rates and Health Care Costs of Patients Hospitalized with Schizophrenia: Non-Adherence to Treatment and Increased Relapses

Heather Noriega, Graduate Student
Structure Matters: Pegylated Monoclonal Antibodies Models Aided Using Predictive Protein Structural and Deep Learning Tool AlphaFold 2

Marie Chantal Nyirahategekimana, Undergraduate Student
Dynamic Light Scattering Evaluation of the effect of pH on Porcine Gastric Mucin III

3:25 PM-4:25 PM | 2ND FLOOR CONFERENCE ROOM | BUSINESS

Jean Wells, Senior Faculty
US Tax Law and Policy Discrimination Against African Americans: A 400 Year Historical Review (1619-2019)

Jean Wells, Senior Faculty
Race and Accounting Education

APRIL 29, 2022

SESSION I

9:00 AM-10:00 AM | FACULTY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

Ayobami Ogundiran, Graduate Student

Investigating the biophysical role of high mannose glycans using replication-deficient pseudotyped HIV as a model system.

Jerome Oliver, Graduate Student

The Genetics of Iodine Transformation by Pseudomonas mosselii

Pilar Oneal, Graduate Student

Optimization and Characterization of Condensed DNA Nanocontainers having Protein Cargo

Abdullah Otayf, Graduate Student

Fructose Intake and the Risk of Nonalcoholic Fatty Liver Disease: A Systematic Review

9:00 AM-10:00 AM | MULTIPURPOSE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Katelyn Robertson, Undergraduate Student

Expression of Glutamate Receptor Subunit Genes in Neurons Involved in Pre-pulse Inhibition

Alexa Ryan, Undergraduate Student

Isolation and characterization of phage Funsized

Sarees Shaikh, Graduate Student

Adhesion Kinetics for Staphylococcus Aureus during the biofilm evolution

Andrew Wadley, Professional Student

A Case of Metastatic Anaplastic Thyroid Carcinoma After Total Thyroidectomy

SESSION II

10:05 AM-11:05 AM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Justin Drummond, Graduate Student

Factors affecting mobility choices during COVID-19 era: A case study on New York City

10:05 AM-11:05 AM | FACULTY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

Adebiyi Sobitan, Graduate Student

Prediction of the effects of missense mutations on human Myeloperoxidase protein stability using in silico saturation mutagenesis

Kayla Thomas, Professional Student

The case of obstructive Jaundice

SESSION III

11:10 AM-12:10 PM | FACULTY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

Miracle Thomas, Graduate Student

Activation of Calcium-Activated Chloride Channels Suppresses Inherited Seizure Susceptibility in Genetically Epilepsy-Prone Rats

Ashley Turner Robinson, Junior Faculty/ Lecturer/ Instructor

African American Maternal Health Crisis During COVID-19: Scoping Review of Strategies and Clinical Interventions

Brandyn White, Graduate Student

A Preliminary Analysis of the DDB1 Gene: Genome-Wide Association Studies in African and admixed African American Populations - Is our skin different?

Shamel Wilson, Undergraduate Student

Effects of Environmental Conditions and Urbanization on Ant Diversity

SESSION IV

1:15 PM-2:15 PM | FACULTY LOUNGE | ENVIRONMENTAL SCIENCES & STUDIES

Olabisi Bello, Undergraduate Student

*Comparative Analysis of the Kinetics of Growth and Viability of *Shewanella oneidensis* MR-1 in Tryptic Soy Broth versus Glucose-Based Minimal Media*

Melissa Constantin, Undergraduate Student

*Experimentation Towards Enhancing in vitro Iodine Transformation by *Shinella* sp.*

Sanjana Kurup, Professional Student

Treatment of burn hypertrophic scar with fractional ablative CO2 laser does not decrease levels of hyperpigmentation

Kylar Wiltz, Professional Student

Heart Development and Anatomy in p63^{-/-} Mouse Mutants

SESSION V

2:20 PM-3:20 PM | FACULTY LOUNGE | ENVIRONMENTAL SCIENCES & STUDIES

Elan Holston, Undergraduate Student

*Analyzing conditions of growth of *Shewanella oneidensis* MR-1 planktonic and Biofilm cultures*

Donald Long, Graduate Student

A Storm is Brewing: Risk Perceptions and Decision-Making among Emergency Managers

Isaac Musaaazi, Graduate Student

Data-driven analysis to predict influent flow for improved water resource recovery facility process control



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