

SUMMER RESEARCH SYMPOSIUM 2016



Sayles Hall 11:00 am – 1:00 pm

Thursday, August 4

Life Sciences and Humanities

&

Friday, August 5

Physical and Social Sciences and Student Teams

PRESENTED BY

The Office of the Dean of the College

SUMMER RESEARCH SYMPOSIUM

Sayles Hall Main Green

Thursday, August 4

Life Sciences and Humanities Posters

11:00 - 11:10 am Welcome

Associate Dean Oludurotimi Adetunji

11:10 - 11:20 am Brief remarks

Deputy Dean of the College Christopher Dennis

11:00 am - 1:00 pm Research Poster Presentations

Friday, August 5

Physical and Social Sciences and Team Posters

11:00 - 11:10 am Welcome

Associate Dean Oludurotimi Adetunji

11:00 am - 1:00 pm Research Poster Presentations

~ A light lunch will be provided both days ~

Descriptions of each poster session include a poster number indicating the poster's placement in Sayles. To locate a poster, refer to the layout maps at the end of this pamphlet.

SUMMER RESEARCH SYMPOSIUM POSTERS

Thursday, August 4 Humanities & Life Sciences

Humanities

Paula Gaither Poster #A1

Home Institution: Columbia University Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Jeri DeBrohun, Department

of Classics

Poster Title: Phillis Wheatley and America: Forging Identity and Fighting Tyrants

Oscar Gutierrez Poster #A2

Home Institution: San Francisco State

University

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Keisha-Khan Perry, Department of Africana Studies

Poster Title: Settlements of Renewal: Urban Agriculture and the Promise of Belonging

Adetobi Moses Poster #A3

Home Institution: Princeton University Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP) Faculty Mentor: Olakunle George,

Department of English

Poster Title: Feminism & African Literature: A look at Chimamanda Ngozi Adichie

Emerald Rutledge Poster #A4

Home Institution: The College of Wooster Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP) **Faculty Mentor:** Francoise Hamlin, Department of Africana Studies

Poster Title: Nina Simone and Beyonce Knowles: Musical Icons Providing Liberation

for the Black Woman

Molly Sandstrom Poster #A5

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Joan Richards, Department

of History

Poster Title: Defying Norms, Fulfilling Expectations-The Public Opinion and Private Obligations of England's Early Unitarians

Life Sciences

Nischal Acharya Poster #A6

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Alexander Jaworski,

Department of Neuroscience

Poster Title: Understanding the Nell2 - Robo3 Interaction in Axon Guidance

Joshua Amaya Poster #A7

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Nicolas Fawzi, Department of Molecular Pharmacology, Physiology and

Biotechnology

Poster Title: Structural effects of mutations on the ALS-causing region in inclusion-forming protein hnRNP A2

Kelsey Anderson Poster #A8

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Dawn Abbott,

Interventional Cardiology, Rhode Island

Hospital

Poster Title: Accuracy and Prognostic Ability of Stress Testing in Pre-Renal Transplant Patients

Tsikata Apenyo Poster #A9

Home Institution: University of Portland Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP) Faculty Mentors: Wen-Chih Wu, Department of Medicine & Tracey Taveira, Department of Medicine

Poster Title: Negative emotional states and incident diabetes among African American adults: The Jackson Heart Study

Naveen Balakrishnan Poster #A10

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Peter Belenky, Department
of Molecular Microbiology and Immunology
Poster Title: Differential Impacts of NAD
Metabolism on Anti-fungal Toxicity in
Mammalian and Fungal Cells

Douglas Barber Poster #A11

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Christopher Born,
Department of Orthopedics & Dioscaris
Garcia, Department of Orthopedics
Poster Title: Developing a Model for the
Qualification and Quantization of Bacterial
Biofilm

Adriel Barrios-Anderson Poster #A12
Home Institution: Brown University

Summer Research Program: Summer

Research Assistantship in Biomedical Sciences

Faculty Mentor: Barbara Stonestreet,

Department of Pediatrics

Poster Title: The effects of Inter-Alpha Inhibitor Proteins on neutrophil infiltration and matrix-metalloproteinase 9 levels in Hypoxic-Ischemia

*Presenting beside Sakura Nakada

Nikolas Baya Poster #A14

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Stephanie Jones,
Department of Neuroscience

Poster Title: Computational Neuroscience

<u>Julia Bleier</u> Poster #A15

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Carlos Aizenman, Department of Neuroscience

Poster Title: Multisensory Behavior in Developing Xenopus Laevis Tadpoles

Hayley Bounds Poster #A16

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Rebecca Burwell, Department of Cognitive, Linguistic and Psychological Sciences

Poster Title: Gait Abnormalities in the Kaolin Model of Normal Pressure Hydrocephalus

Haley Carter Poster #A17

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Erika Edwards, Department

of Ecology and Evolutionary Biology

Poster Title: Leafing Through the Chemicals

of Viburnum Species

Haejun Cho Poster #B1

Home Institution: Brown University

Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentors: Wolfgang Peti,
Department of Molecular Pharmacology,
Physiology, & Biotechnology & Senthil
Ganesan, Department of Molecular
Pharmacology, Physiology, & Biotechnology
Poster Title: Biophysical Studies of
ribosomal RNA Processing 1 Homolog B and
Protein Phosphatase 1

Victoria Cole Poster #B2

Home Institution: University of Arizona Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP) Faculty Mentor: Jun Feng, Cardiothoracic

Surgery Research Center **Poster Title:** Expression and Localization of

Calcium-Activated Potassium Channels in Diabetic Endothelial Cells in Mice and Humans

Bethany Cucka Poster #B3

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Loren Fast, Department of Hematology/Oncology

Poster Title: The Impact of Encountering Dying Cells on the Immune System

Adrija Darsha Poster #B4

Home Institution: Brown University Summer Research Program: N/A; Research done at Stanford University

Faculty Mentor: Joy Wu, Department of Endocrinology

Poster Title: Loss of Parathyroid Hormone in the Osteoblast Lineage Hinders Osteogenic Differentiation of Mesenchymal Progenitors

Kelvin De Leon Poster #B5

Home Institution: Hunter College

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Tara White, Department of

Behavioral and Social Sciences

Poster Title: Emotional, Physiological and Neurocognitive Response to Adderall in

Healthy Volunteers

Jaclyn Dell Poster #B6

Home Institution: University of South

Florida St. Petersburg

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentors: Karla Kaun, Department of Neuroscience & Emily Petruccelli,

Department of Neuroscience

Poster Title: Localization of Notch pathway proteins in the adult Drosophila brain

<u>Drevon Dobson</u> Poster #B7

Home Institution: North Carolina Agricultural and Technical State University Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentors: Qing Lu, Department of Medicine, Alpert Medical School of Brown University & Eboni Chambers, Pathobiology Ph.D, Public Affairs M.P.A Candidate Poster Title: The Effect of Sustained Elevated Adenosine Exposure on Lung Microvascular Endothelial Cells

Jonathan Dow Poster #B8

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Mark Johnson, Department
of Molecular Biology, Cell Biology and
Biochemistry

Poster Title: Evolution of Reproduction in Plants: molecular mechanisms of double fertilization

Lisset Duran Poster #B9

Home Institution: John Jay College

Summer Research Program: Leadership
Alliance-Summer Research Early
Identification Program (SR-EIP)
Faculty Mentor: Elizabeth Harrington,
Department of Biology and Medicine
Poster Title: Overexpression of Natriuretic
Peptide Receptor A (NPR-A) by Lentivirus
Transduction does not Enhance the
Protective Effects of Atrial Natriuretic
Peptide (ANP) on Endothelium Barrier
Disruption

Celia Ford Poster #B10

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: David Badre, Department of Cognitive, Linguistic, and Psychological Sciences

Poster Title: The Effects of Dual-Task Experience on the Development of Cognitive Control Policies

Ellen Fu Poster #B11

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Richard Bennett, Department of Molecular Microbiology and Immunology

Poster Title: Investigating Candida albicans' Clinical Persistence

Mursal Gardezi Poster #B12

Home Institution: Brown University
Summer Research Program: Weiss-Sipprelle
Summer Undergraduate Fellowship
Faculty Mentors: Christopher Born,
Department of Orthopedics & Dioscaris
Garcia, Department of Orthopedics
Poster Title: Rapid In-Situ Detection and
Quantification of Bacterial Colonization on
Orthopedic Infection Sites

Nimesha Gerlus Poster #B13

Home Institution: Brown University Summer Research Program: Royce Fellows **Faculty Mentors:** Richard Liu, Department of Psychiatry and Human Behavior & Anthony Spirito, Department of Psychiatry and Human Behavior

Poster Title: The Role of Behavioral Impulsivity in Adolescent Suicidality: A Computational Approach

Howard Gonzalez Navarrete Poster #B14

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Suzanne De La Monte,

Department of Pathology

Poster Title: Histological and Biochemical Effects of Alcohol-Induced Frontal Lobe Degeneration

Kelly Goo Poster #B15

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Stephanie Parade, Department of Psychiatry and Human Behavior

Poster Title: Biological Stress Response and Behavioral Fear Regulation in At-Risk Infants

Chyna Gray Poster #B16

Home Institution: University of San Diego Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentors: Alfred Ayala, Department of Surgical Research & Eleanor Fallon, Department of Surgical Research

Poster Title: The Role of invariant Natural Killer (iNK) T- cells in Neonatal Sepsis

Evan Gross Poster #B17

Home Institution: Brown University Summer Research Program: Dean's Award Faculty Mentor: Kristi Wharton, Department of Molecular Biology, Cell

Biology, and Biochemistry

Poster Title: Phenotypic characterization in Mus musculus of a hBMP4 mutation associated with cleft lip and cleft palate

Rachel Gutman Poster #C1

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Uriel Cohen Priva,

Department of Linguistics

Poster Title: Deriving consonant cost from

cross-linguistic distributions

Hala Haddad Poster #C2

Home Institution: Hunter College Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP) Faculty Mentors: Kristi Wharton, Department of Molecular and Cellular Biology & Diane Lipscombe, Department of Neuroscience

Poster Title: Morphological and functional studies of synaptic transmission in Drosophila models of familial human amyotrophic lateral sclerosis

Heba Haleem Poster #C3

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Catherine Kerr,
Department of Contemplative
Studies/Embodied Neuroscience & Chloe
Zimmerman, Department of Embodied
Neuroscience

Poster Title: Effect of Mindfulness and Meditation on Working Memory Capacity and Heart Rate Variability of Medical School Students

Vivian Hawn Poster #C18

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Devasis Chatterjee,
Department of Hematology-Oncology
Poster Title: Characterization of molecular
targets of the novel platinum agent PT-112 in
human colon cancer cells

Trung Ho Poster #C4

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)

Faculty Mentor: David Rand, Department of

Ecology and Evolutionary Biology

Poster Title: Mitochondrial Function and Organismal Performance in Drosophila with

Engineered Mutations in mtDNA

Micah Holness Poster #C5

Home Institution: Xavier University of Louisiana

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentors: Joo-Hyun Song,
Department of Cognitive, Linguistic, and Psychological Sciences & Dan McCarthy,
Department of Cognitive, Linguistic, and Psychological Sciences

Poster Title: The Impact of Distractor Saliency on Changes-of-Mind

Samantha Huynh Poster #C6

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Karla Kaun, Department
of Neuroscience & Kristin Scaplen,
Department of Neuroscience
Poster Title: Mapping Neural Circuits that
Underlie Alcohol Reward Memory

Brianna Irons Poster #C7

Home Institution: Brown University
Summer Research Program: Diane N. Weiss
Center for Orthopaedic Trauma Research
Faculty Mentors: Christopher Born,
Department of Orthopedics & Dioscaris
Garcia, Department of Molecular
Pharmacology, Physiology and Biotechnology
Poster Title: Elucidation and Purification of
Secondary Bioactive Metabolites with
Antimicrobial Activity from Natural Sources

Jacob Jaffe Poster #C8
Home Institution: Brown University

Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) **Faculty Mentor:** Daniel Weinreich, Department of Ecology and Evolutionary Biology

Poster Title: The effects of seasonality on multi-locus strain structure

Tammy Jiang Poster #C9

Home Institution: Brown University Summer Research Program: Solsbery Fellowship

Faculty Mentor: Stephen Buka, School of

Public Health

Poster Title: Childhood Predictors of Adult

Suicide Attempts

Ambar Jimenez Poster #C10

Home Institution: SUNY Plattsburgh Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentors: Agnes Kane, Department of Pathobiology and Molecular Medicine & Robert Hurt, Department of School of Engineering

Poster Title: Cytotoxicity Assessment of Bulk Manganese and 2D MnO2 Nanomaterials In Vitro using Fish Liver Cells (PLHC-1)

<u>Joseph Johnson</u> Poster #C11

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Louis Lapierre, Department of Molecular Biology, Cell Biology, and Biochemistry

Poster Title: Identification of novel regulators of autophagy

Megan Kelly Poster #C12

Home Institution: Brown University Summer Research Program: Dean's Award Faculty Mentors: Chun Geun Lee,

Department of Molecular Microbiology and Immunology & Chang-Min Lee, Department of Molecular Microbiology and Immunology **Poster Title:** Role of Chi3l1 in sexual dimorphism in the pathogenesis of pulmonary hypertension

Aisha Keown-Lang Poster #C13

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Susan Gerbi, Department

of Molecular and Cellular Biology

Poster Title: Fine Tuning Fluorescent in Situ Hybridization for DNA Combing and the Identification of Genomic Sites of DNA Amplification in Sciara

Eleanor Kim Poster #C14

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Richard Bennett, Department of Molecular Microbiology and

Immunology

Postor Titles Parification and his shorrisal

Poster Title: Purification and biochemical characterization of Destructin-3

Kenneth Kim Poster #C15

Home Institution: Brown University Summer Research Program: Royce Fellows Faculty Mentor: Wayne Bowen, Department of Molecular Pharmacology, Physiology and Biotechnology

Poster Title: Fighting Cancer: Characterizing Sigma-2 Agonists in Hepatocellular Carcinoma Tumor Cells

Risako Kimura Poster #C16

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Edward Hawrot,
Department of Molecular Pharmacology,
Physiology, and Biotechnology
Poster Title: The povel role of alpha-3

Poster Title: The novel role of alpha-3 nicotinic acetylcholine receptor in early mammalian development

Olena Kuksenko Poster #C17

Home Institution: Brown University

Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Diane Lipscombe,

Department of Neuroscience

Poster Title: Characterizing the Gating of Voltage-dependent Calcium (CaV1.2)

Channels

Jonathan Lee Poster #D1

Home Institution: Universidad de Puerto Rico - Aguadilla

Summer Research Program: Leadership Alliance-Summer Research Early

Identification Program (SR-EIP)

Faculty Mentor: Alicon Del one

Faculty Mentor: Alison DeLong, Department of Molecular Biology, Cell Biology and Biochemistry Poster Title: Analyzing PP2A mediated regulation of ethylene synthesis: a CRISPR approach

Nari Lee Poster #D2

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Amanda Jamieson, Department of Microbiology and Molecular Immunology

Poster Title: Lung responses to e-cigarette vapor exposure

Alexis Lerner Poster #D3

Home Institution: Brown University Summer Research Program: University of Georgia REU: Population Biology of Infectious Diseases

Faculty Mentor: John Drake, Department of Ecology

Poster Title: When ideas go viral: Early warning signals in theoretical and real-world social contagion systems

Michelle Lin Poster #D4

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Joo-Hyun Song, Department of Cognitive, Linguistic, and Psychological Sciences **Poster Title:** Effect of Unconscious Face Processing on Attentional Allocation

Karine Liu Poster #D5

Home Institution: Brown University Summer Research Program: American

Physiological Society

Faculty Mentor: Carlos Aizenman,

Department of Neuroscience

Poster Title: Multisensory Plasticity in the Optic Tectum of the Xenopus Laevis Tadpole

Desiree Lloyd Poster #D6

Home Institution: DePaul University
Summer Research Program: Leadership
Alliance-Summer Research Early
Identification Program (SR-EIP)
Faculty Mentors: Michael White,
Department of Sociology & Tyler Myroniuk,
Population Training and Studies Center
Poster Title: Health Care in South Africa:
Understanding Access in the Context of Race
and Migration

Jacinta Lomba Poster #D7

Home Institution: Brown University Summer Research Program: Summer Training in Academic Research and Scholarship (STARS) program, Brigham and Women's Hospital

Faculty Mentor: Kathleen Haley, Pulmonary and Critical Care Medicine, Brigham and Women's Hospital and Harvard Medical School

Poster Title: Chronic Critical Illness:

Predictors and outcomes

Nicolas Lopez Poster #D8

Home Institution: University of Central Florida

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Summer Research Program: Leadership

Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Andrew Foster,

Department of Economics

Poster Title: India's Largest Public Works Program: Income, Health, and Labor Under MGNREGS

Sarah Master Poster #D9

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: David Badre, Department of Cognitive, Linguistic, and Psychological Sciences & Theresa Desrochers, Department of Neuroscience

Poster Title: The Influence of Affect on

Sequential Processing

Kevin Mertz Poster #D10

Home Institution: Brown University
Summer Research Program: Weiss-Sipprelle
Summer Undergraduate Fellow
Faculty Mentors: Christopher Born,
Department of Orthopedics & Dioscaris
Garcia, Department of Orthopedics
Poster Title: Dose Response and Adherence
patterns for Candida albicans to silver-based,
titanium oxide/polymer-hybrid antimicrobial
coating

Anthony Minnah Poster #D11

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Christopher Born, Brown
Alpert Medical School, Dept. of Orthopedics
& Dioscaris Garcia, Brown Alpert Medical
School, Dept. of Orthopedics
Poster Title: Characterization of the

Poster Title: Characterization of the Antimicrobial Effects of an Ag-Doped TiO2-PDMS Hybrid Coating on the Adherence and Proliferation of Vancomycin Resistant E. faecalis on Spinal Implant Rods of Varying Composition

<u>Josiah Moore</u> Poster #D12

Home Institution: Tougaloo College Summer Research Program: Brown-Tougaloo Partnership

Faculty Mentor: Alison DeLong, Department of Molecular Biology, Cell Biology and Biochemistry Poster Title: Identifying Protein Phosphatase 2A Subunits That Positively Regulate Ethylene Synthesis

Megumi Mori Poster #D13

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Elisabeth Mcgowan, Department of Biology/Medicine

Poster Title: Maternal involvement in the neonatal intensive care unit and preterm infant vocalizations

Shivam Nadimpalli Poster #D14

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Nicolas Fawzi, Department
of Department of Molecular Pharmacology,
Physiology and Biotechnology

Poster Title: Atomic details of Male Specific Lethal (MSL) complex protein-protein interactions associated with X-chromosome transcript-level regulation

Sakura Nakada Poster #A13

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Barbara Stonestreet,

Department of Pediatrics

Poster Title: Treatment with IAIPs after Exposure to Hypoxic-Ischemic Brain Injury Decreases Apoptosis

*Presenting beside Adriel Barrios-Anderson

Morcos Nakhla Poster #D15

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Jacquelyn Schell, Department of Biomedical Engineering & Jeffrey Morgan, Department of Biomedical Engineering

Poster Title: Quantifying the Effects of Media Composition on Microtissue Self-Assembly and Stability

Rachael Nilson Poster #D16

Home Institution: Roger Williams

University

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Alan Morrison, Department

of Internal Medicine

Poster Title: Statins Increase Rac1dependent IL-1B Expression through Inhibition of Rac1 Isoprenylation

Aisha Obeidallah Poster #D17

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Christian Nixon, Center for

International Health Research

Poster Title: P. falciparum Gametocytes

Grace Ogungbile Poster #D18

Home Institution: Rider University Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Ruhul Abid, Department of

Cardiothoracic Surgery

Poster Title: The Effects of Mitochondrial

ROS on Endothelial Cells

Poster #E1 Katelynn Pan

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Elissa Jelalian, Alpert Medical School & Whitney Evans, Alpert Medical School

Poster Title: Promoting Health and Activity

in the Summer Trial (PHAST)

Jaehyun Park Poster #E2

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Carlos Aizenman,

Department of Neuroscience

Poster Title: Early Developmental Exposure to SSRIs Results in Abnormal Neural Development in Xenopus Laevis Tadpoles

Zemplen Pataki Poster #E3

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Christopher de Graffenried, Department of Molecular Microbiology and

Immunology

Poster Title: Importance of p197 Phosphorylation in Trypanosoma brucei

Alejandra Patino Poster #E4

Home Institution: New York University Summer Research Program: BP-Endure Faculty Mentor: Rebecca Burwell, Department of Cognitive, Linguistic, and

Psychological Sciences

Poster Title: Optogenetic Modulation of Recognition Memory via the Prefrontal Cortex

Swathi Penumutchu Poster #E5

Home Institution: University of Maryland,

Baltimore County

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentors: Peter Belenky, Department of Molecular Microbiology and Immunology & Benjamin Korry, Department of Molecular Microbiology and Immunology

Poster Title: Effects of Over-Expression of RecA on Transformation in Bacillus subtilis

Andrew Pisaturo Poster #E6

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Erika Edwards, Department

of Biology

Poster Title: Climate Space of CAM and C4

Plants

Poster #E7 Aziz Rangwala

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentors: Gerwald Jogl, Department of Molecular Biology, Cell Biology, and Biochemistry

Poster Title: Investigation of the Streptomycin-Induced Misreading of the Bacterial Genetic Code

David Reich Poster #E8

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Jeffrey Morgan, Department of Molecular Pharmacology, Physiology and Biotechnology Poster Title: High-Throughput Spheroids

Gerardo Reves Poster #E9

Home Institution: College of Mount Saint Vincent

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP) **Faculty Mentor:** Kim Boekelheide, Department of Pathology & Laboratory Medicine

Poster Title: The adverse effects of retinoic acid and mono-(2-ethylhexyl) phthalate and their interaction in fetal rat testes seminiferous cord development

Mithun Saha Poster #E10

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Gideon Koren,
Department of Medicine/Cardiovascular
Research Center & Karni Moshal,
Cardiovascular Research Center
Poster Title: Effects of Lipopolysaccharide
Induced TNF Factor and E3 ubiquitinprotein ligase NEDD4 on Cardiac L-type
Calcium Channel Stability

Natalie Schudrowitz Poster #E11

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Mamiko Yajima,
Department of Molecular Biology, Cell
Biology, and Biochemistry & Gary Wessel,
Department of Molecular Biology, Cell
Biology, and Biochemistry
Poster Title: The Functional Contribution of

Poster Title: The Functional Contribution of Germline Factors in Cancer Cell Regulation

Anna Schwartz Poster #E12

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: William Heindel, Department of Cognitive, Linguistic and Psychological Sciences & Elena Festa, Department of Cognitive, Linguistic and Psychological Sciences

Poster Title: The Differential Effect of Vocal versus Instrumental Music on Cognitive Function and Arousal

Da Hee Seo Poster #E13

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Nicolas Fawzi, Department of Molecuclar Physiology, Pharmacology and Biotechnology

Poster Title: Elucidating the structure and interactions of the RGG domains of ALS-associated FUS protein

Maddali Shivaali Poster #E14

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Ian Wong, Department of

Biomedical Engineering

Poster Title: Silk Hydrogel N

Poster Title: Silk Hydrogel Microfluidics Using 3D Printed Pluronic Sacrificial Elements

Ellen Sukharevsky Poster #E15

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Wayne Bowen, Department of Molecular Pharmacology and Physiology **Poster Title:** Investigating the Role of Ceramide in the Sigma-2 Receptor Apoptosis Pathway

Shantā Sykes Poster #E16

Home Institution: Tougaloo College Summer Research Program: Brown-Tougaloo Partnership

Faculty Mentor: Mark Johnson, Department of Molecular Biology, Cell Biology, and Biochemistry

Poster Title: Ectopic Expression of DUO1 in Roots

Morgan Talbot Poster #E17

Home Institution: Brown University Summer Research Program: Dean's Award Faculty Mentors: Michael Paradiso, Department of Neuroscience & Michael Migliori, Division of Opthalmology Poster Title: Development of a Visual Prosthetic for the Blind

Neille-Ann Tan Poster #E18

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Michael Frank, Department of Cognitive, Linguistic, and Psychological Sciences & Matthew Nassar, Department of Cognitive, Linguistic, and Psychological Sciences

Poster Title: Neurocognitive Computations in Parkinson's Disease

Caleb Thomas Poster #F17

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Michael Frank, Department

of Neuroscience

Poster Title: Prefrontal Donamine in Visual.

Poster Title: Prefrontal Dopamine in Visual Working Memory

Jason Thomas Poster #F2

Home Institution: Brown University

Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) **Faculty Mentor:** Kareen Coulombe, School of Engineering

Poster Title: Biophysical characterization of contraction and material properties of human-induced pluripotent stem cell-derived cardiac tissue

Emma Thygesen Poster #F3

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Erica Larschan,
Department of Molecular Biology, Cell

Biology and Biochemistry

Poster Title: Mapping the promoter region of the essential gene clamp in D. melanogaster

Henry Vargas Poster #F4

Home Institution: LaGuardia Community College

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Gary Wessel, Department of Molecular Biology, Cell Biology, and Biochemistry

Poster Title: Determining the function and regulation of the Germ line Factors in the Sea Star

Gina Vimbela Poster #F5

Home Institution: California State

University Long Beach

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Suzanne de la Monte, Department of Pathology, Neurology, and Neurosurgery

Poster Title: Bioinformatics Approaches to White Matter Molecular and Biochemical Pathology in Neurodegeneration

Jenna Washington Poster #F6
Home Institution: Claffic University

Home Institution: Claflin University

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Karen Fischer, Department of Earth, Environmental and Planetary

Sciences

Poster Title: Uppermost Mantle Velocity in Southern Appalachian Orogen from Pn Phases: Implications for Support of Mountain Topography

River Williams Poster #F7

Home Institution: University of Maryland,

College Park

Summer Research Program: Leadership Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentor: Yang Zhou, Department of Molecular Microbiology and Immunology Poster Title: Defining the CHI3L1-CRTH2 pathway in PBMCs from patients with Idiopathic Pulmonary Fibrosis

Michele Winter Poster #F8

Home Institution: Brown University Summer Research Program: LINK Award for Computational Perception and Cognition Lab, MIT internship

Faculty Mentor: Aude Oliva, MIT Computer

Vision and Graphics Group

Poster Title: Using Neuroimaging Techniques and Computational Modeling to Further Understand the Spatio-Temporal Dynamics of Scene Perception

Christina Woo Poster #F9

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Amanda Jamieson, Department of Molecular Microbiology and Immunology & Kayla Lee, Molecular Microbiology and Immunology **Poster Title:** Drug discovery for host resilience pathways to IAV/bacterial coinfection

Kevin Yan Poster #F10

Home Institution: Brown University
Summer Research Program: Dean's Award
Faculty Mentors: Wentian Yang,
Department of Orthapaedics & John M.
Sedivy, Department of Molecular Biology,
Cell Biology and Biochemistry
Poster Title: Cytokine Antibody Array in
SHP2 deficient Macrophages and

SHP2-deficient Macrophages and Preosteoclasts

Chaewon Yoon Poster #F11

Home Institution: The University of Texas

at Austin

Summer Research Program: N/A

Faculty Mentor: Phyllis Dennery,
Department of Molecular Biology, Cell

Biology and Biochemistry

Poster Title: Inverse relationship between

CHI3L1 and HO-1

Michelle Zabat Poster #F12

Home Institution: Brown University
Summer Research Program: Dean's Award
Faculty Mentor: Peter Belenky, Department
of Molecular Microbiology and Immunology
Poster Title: Interrogation of the Oral
Microbiome

Yinge Zhao Poster #F13

Home Institution: Brown University Summer Research Program: Dean's Award Faculty Mentors: Surendra Sharma, Department of Pediatrics & Shibin Cheng, Department of Pediatrics

Poster Title: Protein Aggregation in

Preeclampsia

SUMMER RESEARCH SYMPOSIUM POSTERS

Friday, August 5

Physical and Social Sciences & Student Teams

Social Sciences

Elizabeth Cosby Poster #A1

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Willoughby Britton, Department of Psychiatry and Human Behavior

Poster Title: Early Trauma Predicts Mindfulness-Based Cognitive Therapy Outcome

Madeline DiGiovanni Poster #A2

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Bertram Malle, Department of Cognitive, Linguistic, and Psychological Sciences

Poster Title: Adding a means to an end in the mind: How people connect mental states in behavior explanation

Tatyana Donaldson Poster #F14

Home Institution: Claflin University
Summer Research Program: Leadership
Alliance-Summer Research Early
Identification Program (SR-EIP)
Faculty Mentor: Hillary Friedman,
Department of American Studies
Poster Title: A Pictorial Analysis of
Hegemonic Femininity in Print Sources
*Presenting on Thursday, August 4

Lehidy Frias Poster #A3

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Jessaca Leinaweaver,
Department of Anthropology
Poster Title: Health, Race and Ethnicity:
Media Perceptions of the aging population in

<u>Jamila Gilmore</u> Poster #A4

Home Institution: Brown University Summer Research Program: Institute at Brown for Environment and Society Faculty Mentor: Leah Bamberger, Office

Faculty Mentor: Leah Bamberger, Office of Sustainability & Dino Larson, Office of Sustainability

Poster Title: Recycling & Community

Engagement

Adolescents

Peru

Juliette Hernandez Carrasco Poster #F15

Home Institution: University of Puerto Rico at Ponce

Summer Research Program: Leadership
Alliance-Summer Research Early
Identification Program (SR-EIP)
Faculty Mentors: Lynn Hernandez,
Department of Behavioral and Social Sciences
& Judelysse Gomez, Department of
Psychiatry and Human Behavior
Poster Title: Ethnic Differences in Parents'
Interactions with their Alcohol Using

*Presenting on Thursday, August 4

Evan Lehmann Poster #A5

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Robert Blair, Departments of International Affairs and Political Science Poster Title: Peacekeeping, Statebuilding and the Rule of Law After Civil War

<u>Jessica O'Dell</u> Poster #A6

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Caroline Karp, Department of Environmental Studies & Ross Cheit, Department of Public Policy Poster Title: The Influence of Civil Society Actors on Fishery Management in the United States

Caitlin Richard Poster #A7

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: John Papay, Department of Education

Poster Title: Evaluation for Teacher Development: Exploring the Relationship between Features of Teacher Evaluation Systems and Teacher Improvement

Physical Sciences

Gabriel Buchsbaum Poster #A8

Home Institution: Brown University Summer Research Program: Experimental Program to Stimulate Competitive Research (EPSCoR-NSF)

Faculty Mentor: Angus Kingon, Department of Engineering

Poster Title: Investigation of Transport in Hybrid Perovskite MSM Devices

Arseniy Butrin Poster #A9

Home Institution: Tougaloo College Summer Research Program: Experimental Program to Stimulate Competitive Research (EPSCoR-NSF)

Faculty Mentor: Angus Kingon, Department of Engineering

Poster Title: Thermogravimetric studies on methylammonium lead iodide hybrid perovskite

Sarah Cowles Poster #B1

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Anita Shukla, Department

of Biomedical Engineering

Poster Title: A Novel Liposomal

Formulation Targeting Opportunistic Fungi

Poster #B2 Anthony Daoud

Home Institution: Brown University Summer Research Program: National Science Foundation (NSF) Research Experience for Undergraduates (REU)

Faculty Mentor: Benjamin Kimia, Department of Engineering

Poster Title: GPU Implementation of a Curve Extraction Algorithm to Accelerate Object Recognition

Jonathan Davies Poster #B3

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Jason Sello, Department of Chemistry

Poster Title: Development of Ugi Reaction

Using Kemp's Triacid

Kiran Dhatt Gauthier Poster #B4

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Anita Shukla, Department of Engineering & Shashank Shukla, Department of Engineering

Poster Title: Gellan-CENTA as a β-Lactamase Responsive Antimicrobial

Hydrogel

Renee Edelman Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Elena Oancea, Department

of Molecular Pharmacology, Physiology, and Biotechnology & Iliana Escobar, Department of Molecular Pharmacology, Physiology, and Biotechnology

Poster Title: pH Regulation in Melanin Producing Organelles

Ioseph Fichera Poster #B10

Home Institution: Brown University Summer Research Program: Research Assistant in the Department of Earth, Environmental, and Planetary Sciences Faculty Mentor: Marc Parmentier, Department of Earth, Environmental, and Planetary Sciences

Poster Title: Flow of the Earth's Crust and

Mantle in Strike-Slip Faults

Samir Gadre Poster #B6

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Benjamin Kimia,

Department of Engineering

Poster Title: Design and Implementation of a Stereoscopic Visual Odometry Module

Wendy Gonzalez Poster #B7

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Sherief Reda, Department of Computer Engineering & Reza Azimi, Department of Computer Engineering Poster Title: Energy-Efficient Computing Clusters for Cloud Applications

Joshua Greene Poster #B8

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Alexander Zaslavsky, Department of Engineering & Kyung-Suk Kim, Department of Engineering

Poster Title: Electrical Characterization of Crinkled Graphene

Poster #B9 Bana Hadid

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Loren Fast, Department of

Immuno-oncology

Poster Title: Modeling Immunotherapy to

Treat Leukemia

Megan Hauptman Poster #C1

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Jason Sello, Department of Chemistry & Anubhav Tripathi, Department of Engineering

Poster Title: Development of a Miniaturized HIV Oil Chip that Enables Adherence Monitoring of Antiretroviral Agents for HIV treatment and Prevention

Patrick Heng Poster #C2

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Yongsong Huang, Department of Earth, Environmental, and Planetary Studies

Poster Title: Identification of a Novel C36 Alkenone from Algae Haptophytes

Alex Hirsch Poster #C3

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Rashid Zia, Departments of

Engineering and Physics

Poster Title: Extracting Two-dimensional Radiation Patterns from Wide-Angle Spectroscopic Images

Oliver Isik Poster #C4

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Derek Stein, Department of Physics

Poster Title: Spherical Virus Detection Using Nanoscale Capillaries

William Klimpert Poster #C5

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Jay Tang, Department of Biophysics

Poster Title: Bacterial Motility in Viscoelastic Media

Sayaka Kochiyama Poster #C6

Home Institution: Brown University Summer Research Program: IBES Internal Grant

Faculty Mentors: Robert Hurt, Department of Engineering & Zachary Saleeba, Department of Engineering

Poster Title: A New Laboratory-Scale Device for Investigating the Human Health Impacts of Biomass-Fired Domestic Cookstoves

Monnawat Krasaesian Poster #C7

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: James Russell, Department of Earth, Environmental and Planetary Science

Poster Title: Reconstruction of Indo-Pacific Paleoclimate Using Elemental Chemistry

Amy Lin Poster #C8

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Sarah Delaney, Department

of Chemistry **Poster Title:** Determining Processivity of
Uracil DNA Glycosylase in Nucleosome Core

Particles

Nicolas Lozada-Smith Poster #C9
Home Institution: Brown University

Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) **Faculty Mentor:** Daniel Mittleman,

Department of Engineering

Poster Title: Terahertz The Last Frontier

Lilibeth Martinez Poster #E5

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Anubhav Tripathi,
Department of Biomedical Engineering
Poster Title: Optimizing Bead Transfer
Efficiency for an Immiscible Phase Filtration
Separation Device

Andrea Mastorakis Poster #E8

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Meredith Hastings,
Department of Earth, Environmental and
Planetary Sciences

Poster Title: Investigation of nitrate sources and chemistry in the Arctic Ocean

Rachel Meyen Poster #D2

Home Institution: Rhode Island College Summer Research Program: Experimental Program to Stimulate Competitive Research (EPSCoR-NSF)

Faculty Mentor: Nitin Padture, Department of Engineering

Poster Title: Low-Cost Solution-Processed Perovskite Solar Cells Using Carbon Electrodes

Lan Nguyen Poster #D3

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Franklin Goldsmith, Department of Chemical and Biochemical Engineering

Poster Title: Developing a Molecular Model to Predict Equations of States from Computational Quantum Chemistry and Machine Learning

Richard Oliver Poster #D4

Home Institution: Brown University Summer Research Program: Space Grant/NASA, Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: David Lowe, Department of Physics

Poster Title: Force-Free Electrodynamics Near the Event Horizon Of An Extremal Kerr Black Hole

Maria Paredes Poster #F16

Home Institution: Brown University Summer Research Program: Summer Research Assistantship in Biomedical Sciences

Faculty Mentor: Kareen Coulombe,

Department of Engineering

Poster Title: Microcontact printing of cell shapes for quantitative analysis of hiPSCs cardiomyocytes maturation in aid of regenerative medicine

*Presenting on Thursday, August 4

Shivam Raikundalia Poster #D5

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Jacob Rosenstein, Department of Engineering Poster Title: Single Molecule

Communications Channels

Eliott Rosenberg Poster #D6

Home Institution: Brown University Summer Research Program: Space Grant/NASA, Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: JiJi Fan, Department of

Physics

Poster Title: Double Disk Dark Matter

Giorgio Savini Zangrandi Poster #D7

Home Institution: Brown University Summer Research Program: Experimental Program to Stimulate Competitive Research (EPSCoR-NSF)

Faculty Mentor: Domenico Pacifici,

Department of Engineering

Poster Title: Optical characterization of thin-

film perovskites

<u>Julia Schoenewald</u> Poster #D8

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Alexander Jaworski,

Department of Neuroscience

Poster Title: Genetic Fate Mapping of Spinal

Commissural Neurons

Matthew Shorter Poster #D9

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Jennifer Franck, Department of Engineering & Franklin Goldsmith, Department of Engineering Poster Title: Computational Fluid Dynamics of Novel Shock Tube Design

Placid Unegbu Poster #E7

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: David Borton, Department

of Engineering

Poster Title: Computational Model of

Thalamic Neural Circuitry

Constantin Wedekind Poster #E3

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Xingsheng Ling,

Department of Physics

Poster Title: Balancing Change and Conservation: Investigating Mechanisms of Genetic Mutation due to Pfu Polymerase through a Physical Lense

Robert (Jake) Wyatt

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Eric Suuberg, Department

of Engineering

Poster Title: Vapor Intrusion of Soil and Groundwater Sources: An Evolving

Environmental Concern

Student Teams: Humanities

Lena Bohman Poster #F18

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Susan Smulyan,
Department of American Studies & Ron
Potvin, Department of Public Humanities
Poster Title: What is Old is New Again: The
Digital Tour of the Nightingale-Brown House
Team Members: Minah Seo & Emily Taylor
*Presenting on Thursday, August 4

Minah Seo Poster #F18

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Susan Smulyan,
Department of American Studies & Ron
Potvin, Department of Public Humanities
Poster Title: What is Old is New Again: The
Digital Tour of the Nightingale-Brown House
Team Members: Lena Bohman & Emily
Taylor

*Presenting on Thursday, August 4

Emily Taylor Poster #F18

Home Institution: Southern Oregon

University

Summer Research Program: Leadership

Alliance-Summer Research Early Identification Program (SR-EIP)

Faculty Mentors: Susan Smulyan,

Department of American Studies & Ron Potvin, Department of Public Humanities

Poster Title: What is Old is New Again: The Digital Tour of the Nightingale-Brown House Team Members: Lena Bohman & Minah Seo

*Presenting on Thursday, August 4

Student Teams: Life Sciences

Maryam Ahmad Poster #E1

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentors: Jeffrey Morgan,

Department of Molecular Pharmacology, Physiology, and Biotechnology & Kali Manning, Department of Biomedical Engineering

Poster Title: The Bio-Pick, Place, and Perfuse (Bio-P3): A New Instrument for Building Organs

Team Members: Andrew Thomson, Joy Jiang

Marjo Beltoja Poster #E10

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentors: David Berson,

Department of Neuroscience & Shai Sabbah, Department of Neuroscience

Poster Title: Synaptic Inputs to ipRGCs in the Mouse Retina

Team Members: Carin Papendorp, Elizabeth Koplas, Cameron Etebari

Cameron Etebari Poster #E10

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentors: David Berson,

Department of Neuroscience & Shai Sabbah,

Department of Neuroscience

Poster Title: Synaptic Inputs to ipRGCs in

the Mouse Retina

Team Members: Carin Papendorp, Elizabeth Koplas, Marjo Beltoja

<u>Joy Jiang</u> Poster #E1

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Jeffrey Morgan, Department of Molecular Pharmacology, Physiology, and Biotechnology & Kali Manning, Department of Biomedical Engineering

Poster Title: The Bio-Pick, Place, and Perfuse (Bio-P3): A New Instrument for **Building Organs**

Team Members: Maryam Ahmad, Andrew

Thomson

Elizabeth Koplas Poster #E10

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: David Berson,

Department of Neuroscience & Shai Sabbah, Department of Neuroscience

Poster Title: Synaptic Inputs to ipRGCs in the Mouse Retina

Team Members: Carin Papendorp, Marjo

Beltoja, Cameron Etebari

Carin Papendorp Poster #E10

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentors: David Berson,

Department of Neuroscience & Shai Sabbah,

Department of Neuroscience

Poster Title: Synaptic Inputs to ipRGCs in the Mouse Retina

Team Members: Elizabeth Koplas, Marjo Beltoja, Cameron Etebari

Andrew Thomson Poster #E1

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Jeffrey Morgan, Department of Molecular Pharmacology, Physiology, and Biotechnology & Kali Manning, Department of Biomedical Engineering

Poster Title: The Bio-Pick, Place, and Perfuse (Bio-P3): A New Instrument for **Building Organs**

Team Members: Maryam Ahmad, Joy Jiang

Maaike Tiersma Poster #E4

Home Institution: Brown University Summer Research Program: Institute at Brown for Environment and Society Internship

Faculty Mentor: Jeanne Loewenstein, Institute at Brown for Environment and

Poster Title: Oyster Restoration in Southern

Rhode Island

Team Members: Ellen Vitek

Ellyn Vitek Poster #E4

Home Institution: Brown University Summer Research Program: Institute at Brown for Environment and Society Internship

Faculty Mentor: Jeanne Loewenstein, Institute at Brown for Environment and Society

Poster Title: Oyster Restoration in Southern

Rhode Island

Team Members: Maaike Tiersma

Poster #F6 <u>Ionathan Yakubov</u>

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Edith Mathiowitz, Department of Molecular Pharmacology, Physiology, and Biotechnology

Poster Title: Investigation of Endothelial and Progenitor Cell Migration in Response to Cytokine Stimulation

Team Members: George Zhou

George Zhou Poster #F7

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Edith Mathiowitz, Department of Molecular Pharmacology, Physiology, and Biotechnology

Poster Title: Encapsulation of Citronella Oil in Polycaprolactone as a Controlled Release Mosquito Repellent

Team Members: Jonathan Yakubov

Student Teams: Social Sciences

Caroline Carper Poster #D10

Home Institution: Brown University Summer Research Program: Independent Research

Faculty Mentors: Jin Li, Department of Education & Yoko Yamamoto, Department of Education

Poster Title: Children's Learning Beliefs and Family Socialization Processes in Diverse Cultural Contexts

Team Members: Cadence Lee, Yanqing Shen, Amanda Siegel

Cadence Lee Poster #D10

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Jin Li, Department of Education & Yoko Yamamoto, Department of Education

Poster Title: Children's Learning Beliefs and Family Socialization Processes in Diverse Cultural Contexts

Team Members: Amanda Siegel, Yanqing Shen, Caroline Carper

Yanging Shen Poster #D10

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Jin Li, Department of Education & Yoko Yamamoto, Department of Education

Poster Title: Children's Learning Beliefs and Family Socialization Processes in Diverse Cultural Contexts

Team Members: Cadence Lee, Amanda Siegel, Caroline Carper

Amanda Siegel Poster #D10

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) **Faculty Mentors:** Jin Li, Department of Education & Yoko Yamamoto, Department of Education

Poster Title: Children's Learning Beliefs and Family Socialization Processes in Diverse Cultural Contexts

Team Members: Cadence Lee, Yanqing Shen, Caroline Carper

Student Teams: Physical Sciences

Madeline Abbott Poster #D1

Home Institution: Brown University
Summer Research Program: Institute for
Computational and Experimental Research in
Mathematics (ICERM), Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Bjorn Stanstede,
Department of Applied Mathematics

Department of Applied Mathematics **Poster Title:** Zebrafish: Modelling Fin

Patterns

Team Members: Francesca Lim, Dorothy Catey, Bethany Dubois, Neil Chandra

Kevin Anderson Poster #E9

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentors: Iris Bahar, Department of Engineering & Kenneth Breuer, Department of Engineering

Poster Title: ENGN 1931I: Designing

Robotic Systems

Team Members: Rohan Rastogi

Colette Bare Poster #F2, F3, F4

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Domenico Pacifici,
Department of Engineering & Nitin Padture,
Department of Engineering, & Angus
Kingon, Department of Engineering &
Rashid Zia, Department of Engineering

Poster Title: The Next-Generation Solar Cells for the Clean Energy Revolution: Part I, II, & III

Team Members: Sophia Gluskin-Braun, Anjelica Claxton, Mollie Koval, Isabelle Bauman, Connor Watts

<u>Isabelle Bauman</u> Poster #F2, F3, F4

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Domenico Pacifici,
Department of Engineering & Nitin Padture,
Department of Engineering, & Angus
Kingon, Department of Engineering &
Rashid Zia, Department of Engineering
Poster Title: The Next-Generation Solar
Cells for the Clean Energy Revolution: Part I,
II, & III

Team Members: Sophia Gluskin-Braun, Anjelica Claxton, Mollie Koval, Colette Bare, Connor Watts

Julia Bujalski Poster #C10

Home Institution: University of Virginia Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Todd Kapitula, Institute for Computational and Experimental Research in Mathematics & Bjorn Sandstede, Department of Applied Mathematics

Poster Title: True Believer Models and The Spread of Ideas

Team Members: Harjasleen Malvai, Grace Dwyer, Jordan Rosenthal-Kay

Dorothy Catey Poster #D1

Home Institution: Brown University
Summer Research Program: Institute for
Computational and Experimental Research in
Mathematics (ICERM), Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Bjorn Stanstede,
Department of Applied Mathematics
Poster Title: Zebrafish: Modelling Fin

Patterns

Team Members: Francesca Lim, Madeline Abbott, Bethany Dubois, Neil Chandra

Carter Chain Poster #F5

Home Institution: Purdue University Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Bjorn Sandstede,
Department of Applied Mathematics
Poster Title: Spectral Theory of Koopman

Operators

Team Members: Ryan Utke, Micah Pedrick

Neil Chandra Poster #D1

Home Institution: Brown University
Summer Research Program: Institute for
Computational and Experimental Research in
Mathematics (ICERM), Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Bjorn Stanstede,
Department of Applied Mathematics

Poster Title: Zebrafish: Modelling Fin

Patterns

Team Members: Francesca Lim, Dorothy Catey, Madeline Abbott, Bethany Dubois

Tracy Chin Poster #F10

Home Institution: Brown University Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentor: Bjorn Sandstede, Department of Applied Mathematics Poster Title: Diffusion Maps in Equation Free Modeling

Team Members: Jacob Ruth, Rebecca Santorella

Anjelica Claxton Poster #F2, F3, F4

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Domenico Pacifici,
Department of Engineering & Nitin Padture,
Department of Engineering, & Angus
Kingon, Department of Engineering &
Rashid Zia, Department of Engineering

Poster Title: The Next-Generation Solar Cells for the Clean Energy Revolution: Part I, II. & III

Team Members: Sophia Gluskin-Braun, Mollie Koval, Colette Bare, Isabelle Bauman, Connor Watts

Cassandra Cole Poster #F1

Home Institution: Brown University Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentor: Bjorn Sandstede, Department of Applied Mathematics

Poster Title: Stability in Agent-Based Models Team Members: Philip Doldo, Qing Fan

<u>Iordan Collignon</u> Poster #F8

Home Institution: California State

University, Monterey Bay

Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Todd Kapitula, Departments of Mathematics and Statistics &

Bjorn Sanstede, Department of Applied Mathematics

Poster Title: Propagation of Lead in

Team Members: Melissa Morrissey

Neville Dadina Poster #E6

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Kathleen Hess, Department of Chemistry

Poster Title: Green chemistry: Good practices for Undergraduate Organic Laboratories and a Freshmen Seminar Team Members: Bowie Lee

Poster #F9 Surabhi Desai

Home Institution: University of St Andrews Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Bjorn Sandstede, Department of Applied Mathematics & Margaret Beck, Department of Mathematics at Boston University

Poster Title: Snaking for Non Orientable Floquet Bundles

Team Members: Melissa Stadt, Aric Wheeler

Philip Doldo Poster #F1

Home Institution: Rensselaer Polytechnic Institute

Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentor: Bjorn Sandstede, Department of Applied Mathematics

Poster Title: Stability in Agent-Based Models Team Members: Qing Fan, Cassandra Cole

Bethany Dubois Poster #D1

Home Institution: Brown University Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM), Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Bjorn Stanstede, Department of Applied Mathematics Poster Title: Zebrafish: Modelling Fin

Team Members: Francesca Lim, Dorothy Catey, Madeline Abbott, Neil Chandra

Grace Dwyer Poster #C10

Home Institution: University of Virginia Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Todd Kapitula, Institute for Computational and Experimental Research in Mathematics & Bjorn Sandstede, Department of Applied Mathematics

Poster Title: True Believer Models and The

Spread of Ideas

Team Members: Harjasleen Malvai, Julia Bujalski, Jordan Rosenthal-Kay

Qing Fan Poster #F1

Home Institution: Pomona College

Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentor: Bjorn Sandstede, Department of Applied Mathematics

Poster Title: Stability in Agent-Based Models Team Members: Philip Doldo, Cassandra Cole

Sophia Gluskin-Braun Poster #F2, F3, F4

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Domenico Pacifici,
Department of Engineering & Nitin Padture,
Department of Engineering, & Angus
Kingon, Department of Engineering &
Rashid Zia, Department of Engineering
Poster Title: The Next-Generation Solar
Cells for the Clean Energy Revolution: Part I,
II, & III

Team Members: Anjelica Claxton, Mollie Koval, Colette Bare, Isabelle Bauman, Connor Watts

Chinedu Irofuala Poster #F1

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Kareen Coulombe,

Department of Engineering

Poster Title: Inducing Collapse of Custom Designed Valveless Vessels to Promote Directional Flow

Directional Flow

Team Members: Jackie Vu

*Presenting on Thursday, August 4

Mollie Koval Poster #F2, F3, F4

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Domenico Pacifici,
Department of Engineering & Nitin Padture,
Department of Engineering, & Angus
Kingon, Department of Engineering &
Rashid Zia, Department of Engineering

Poster Title: The Next-Generation Solar Cells for the Clean Energy Revolution: Part I, II, & III

Team Members: Sophia Gluskin-Braun, Anjelica Claxton, Colette Bare, Isabelle Bauman, Connor Watts

Bowie Lee Poster #E6

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentor: Kathleen Hess, Department

of Chemistry

Poster Title: Green chemistry: Good practices for Undergraduate Organic Laboratories and a Freshmen Seminar Team Members: Neville Dadina

Francesca Lim Poster #D1

Home Institution: Brown University
Summer Research Program: Institute for
Computational and Experimental Research in
Mathematics (ICERM), Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentor: Bjorn Stanstede,

Department of Applied Mathematics **Poster Title:** Zebrafish: Modelling Fin

Patterns

Team Members: Dorothy Catey, Madeline Abbott, Bethany Dubois, Neil Chandra

Harjasleen Malvai Poster #C10

Home Institution: Brown University Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Todd Kapitula, Institute for Computational and Experimental Research in Mathematics & Bjorn Sandstede, Department of Applied Mathematics

Poster Title: True Believer Models and The Spread of Ideas

Team Members: Jordan Rosenthal-Kay, Julia Bujalski, Grace Dwyer

Melissa Morrissey Poster #F8
Home Institution: Brown University

Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Todd Kapitula,

Departments of Mathematics and Statistics & Bjorn Sanstede, Department of Applied

Mathematics

Poster Title: Propagation of Lead in

Mammals

Team Members: Jordan Collignon

Micah Pedrick Poster #F5

Home Institution: Harvey Mudd College Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Bjorn Sandstede, Department of Applied Mathematics

Poster Title: Spectral Theory of Koopman

Operators

Team Members: Ryan Utke, Carter Chain

Rohan Rastogi Poster #E9

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA)

Faculty Mentors: Iris Bahar, Department of Engineering & Kenneth Breuer, Department of Engineering

Poster Title: ENGN 1931I: Designing

Robotic Systems

Team Members: Kevin Anderson

<u>Jordan Rosenthal-Kay</u> Poster #C10

Home Institution: Tufts University Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Todd Kapitula, Institute for Computational and Experimental Research in Mathematics & Bjorn Sandstede, Department of Applied Mathematics

Poster Title: True Believer Models and The Spread of Ideas

Team Members: Harjasleen Malvai, Julia Bujalski, Grace Dwyer

<u>Jacob Ruth</u> Poster #F10

Home Institution: Brown University Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentor: Bjorn Sandstede,
Department of Applied Mathematics
Poster Title: Diffusion Maps in Equation

Free Modeling

Team Members: Tracy Chin, Rebecca

Santorella

Rebecca Santorella Poster #F10

Home Institution: The College of New Jersey

Jersey

Summer Research Program: Institute for Computational and Experimental Research in

Mathematics (ICERM)

Faculty Mentor: Bjorn Sandstede, Department of Applied Mathematics Poster Title: Diffusion Maps in Equation

Free Modeling

Team Members: Jacob Ruth, Tracy Chin

Melissa Stadt Poster #F9

Home Institution: University of

Washington-Seattle

Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentor: Bjorn Sandstede, Department of Applied Mathematics & Margaret Beck, Department of Mathematics at Boston University

Poster Title: Snaking for Non Orientable

Floquet Bundles

Team Members: Surabhi Desai, Aric Wheeler

Ryan Utke Poster #F5

Home Institution: Grinnell College Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Bjorn Sandstede, Department of Applied Mathematics

Poster Title: Spectral Theory of Koopman

Operators

Team Members: Micah Pedrick, Carter Chain

Jackie Vu Poster #F1

Home Institution: Brown University Summer Research Program: Undergraduate Teaching and Research Awards (UTRA) Faculty Mentor: Kareen Coulombe,

Department of Engineering

Poster Title: Inducing Collapse of Custom Designed Valveless Vessels to Promote

Directional Flow

Team Members: Chinedu Irofuala

*Presenting on Thursday, August 4

Connor Watts Poster #F2, F3, F4

Home Institution: Brown University
Summer Research Program: Undergraduate
Teaching and Research Awards (UTRA)
Faculty Mentors: Domenico Pacifici,
Department of Engineering & Nitin Padture,
Department of Engineering, & Angus
Kingon, Department of Engineering &
Rashid Zia, Department of Engineering
Poster Title: The Next-Generation Solar
Cells for the Clean Energy Revolution: Part I,
II, & III
Team Members: Sophia Gluskin-Braun,

Team Members: Sophia Gluskin-Braun, Anjelica Claxton, Mollie Koval, Colette Bare, Isabelle Bauman

Aric Wheeler Poster #F9

Home Institution: UNC Chapel Hill Summer Research Program: Institute for Computational and Experimental Research in Mathematics (ICERM)

Faculty Mentors: Bjorn Sandstede, Department of Applied Mathematics & Margaret Beck, Department of Mathematics at Boston University

Poster Title: Snaking for Non Orientable

Floquet Bundles

Team Members: Melissa Stadt, Surabhi Desai

SUMMER RESEARCH PROGRAMS AT BROWN

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- Summer Training in Academic Research and Scholarship (STARS) program, Brigham and Women's Hospital
- Undergraduate Teaching and Research Awards (UTRA)
- University of Georgia REU: Population Biology of Infectious Diseases
- Weiss-Sipprelle Summer Undergraduate Fellows

POSTER LAYOUT

Thursday, August 4 Humanities and Life Sciences

[STAGE]

A1	B1	C1	D1	E1	F1
A2	B2	C2	D2	E2	F2
A3	В3	C3	D3	E3	F3
A4	B4	C4	D4	E4	F4
A5	B5	C5	D5	E5	F5
A6	B6	C6	D6	E6	F6
A7	B7	C7	D7	E7	F7
A8	B8	C8	D8	E8	F8
A9	B9	C9	D9	E9	F9
A10	B10	C10	D10	E10	F10
A11	B11	C11	D11	E11	F11
A12	B12	C12	D12	E12	F12
A13	B13	C13	D13	E13	F13
A14	B14	C14	D14	E14	F14
A15	B15	C15	D15	E15	F15
A16	B16	C16	D16	E16	F16
A17	B17	C17	D17	E17	F17
		C18	D18	E18	F18

[ENTRANCE]

[LOBBY]

POSTER LAYOUT

Friday, August 5 Physical and Social Sciences & Student Teams

[STAGE]

A1		B1	C1	D1	E1	F1
A2		B2	C2	D2	E2	F2
A3		B3	C3	D3	E3	F3
A4		B4	C4	D4	E4	F4
A5		B5	C5	D5	E5	F5
A6		B6	C6	D6	E6	F6
A7		B7	C7	D7	E7	F7
A8		B8	C8	D8	E8	F8
A9		B9	C9	D9	E9	F9
		B10	C10	D10	E10	F10

[ENTRANCE]

[LOBBY]

REPRESENTED INSTITUTIONS

- Brown University
- California State
 University, Long Beach
- Claflin University
- College of Mount Saint Vincent
- Columbia University
- DePaul University
- Emmanuel College
- Grinnell College
- Harvey Mudd College
- Hunter College
- John Jay College
- LaGuardia Community College
- Macalester College
- North Carolina
 Agricultural and
 Technical State
 University
- NYU
- Pomona College
- Princeton University
- Purdue University
- Rensselaer Polytechnic Institute
- Rhode Island College
- Rider University
- Roger Williams University
- San Francisco State University
- Southern Oregon University

- Stanford University
- SUNY Plattsburgh
- The College of New Jersey
- The College of Wooster
- The University of Texas at Austin
- Tougaloo College
- Tufts
- UNC Chapel Hill
- Universidad de Puerto
 Rico Aguadilla
- University of Arizona
- University of Central Florida
- University of Idaho
- University of Maryland,
 Baltimore County
- University of Maryland,
 College Park
- University of Portland
- University of Puerto Rico at Ponce
- University of San Diego
- University of South Florida St. Petersburg
- University of St Andrews
- University of Virginia
- University of Washington-Seattle
- Xavier University of Louisiana

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Harmony Schorr, Symposium Intern

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