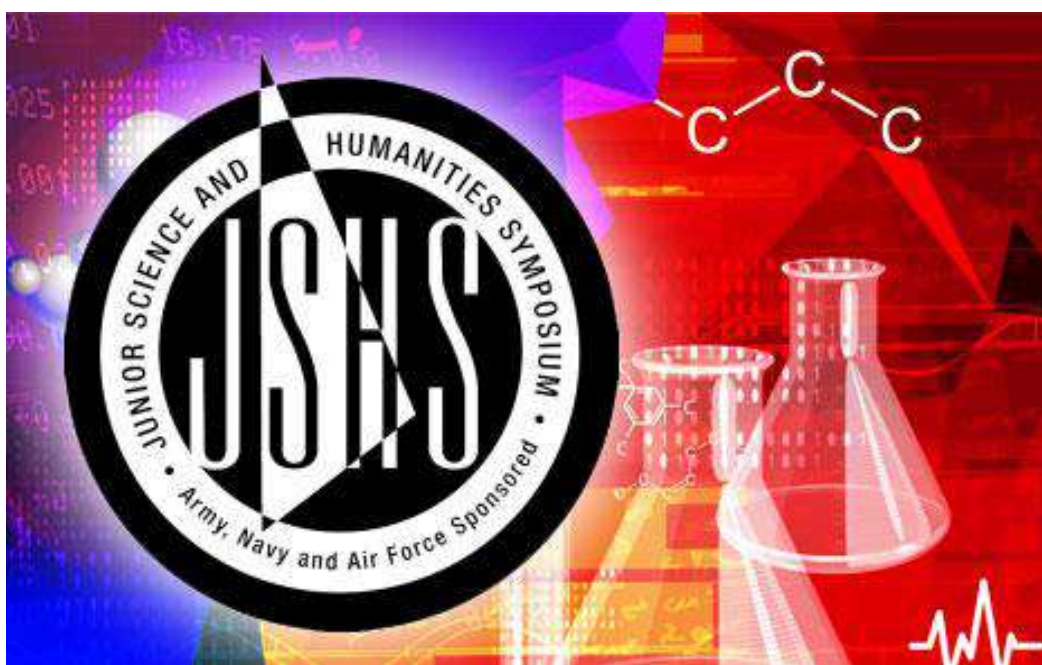


# **17th Annual Westchester - Rockland Junior Science and Humanities Symposium**



**WR-JSHS**

Saturday, February 9, 2019

John Jay High School, Cross River, New York

8:00 AM - 4:00 PM

# WR - JSHS Program Overview

8:00 AM - 4:00 PM

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8:00 AM - 8:30 AM	School and Teacher Registration Judge Registration	Lobby Room C-113
8:30 AM - 8:45 AM	Students - Welcome & Instructions Moderator Meeting Speaker Session Judges Orientation	Auditorium Room C-108 Room C-113
8:50 AM - 9:10 AM	Poster Session Judges Orientation	Auditorium
9:00 AM - 1:00 PM	<b>Speaker Sessions</b> (17 concurrent sessions) Behavior I Behavior II Behavior III Biochemistry Bioinformatics Biology Cell & Microbiology I Cell & Microbiology II Chemistry / Engineering Computer Science / Math Environmental Biology Environmental Science Medical Sciences I Medical Sciences II Medical Sciences III Medical Sciences IV Physical Science	Rooms A- 201 A- 202 A- 203 A- 204 A- 205 A- 206 A- 207 A- 208 L- 201 L- 203 L- 206 L- 208 Q-102 Q-104 B-103 B-104 B-107
9:15 AM - 12:45 PM	<b>Competitive Poster Sessions</b> Cafeteria Session Library Session	Cafeteria Library
12:30 PM - 2:00 PM	Lunch for Judges	Bridge Hallway
1:15 PM - 2:30 PM	Display Posters	Library
3:00 PM - 4:00 PM	Awards Ceremony (Time Approximate)	Auditorium

## Speaker Sessions Schedule

### Group 1

Speaker 1	9:00 - 9:17
Speaker 2	9:18 - 9:35
Speaker 3	9:36 - 9:53
Speaker 4	9:54 - 10:11

### ***Break***

***10:12 - 10:20***

### Group 2

Speaker 5	10:20 - 10:37
Speaker 6	10:38 - 10:55
Speaker 7	10:56 - 11:13
Speaker 8	11:14 - 11:31

### ***Break***

***11:32 - 11:40***

### Group 3

Speaker 9	11:40 - 11:57
Speaker 10	11:58 - 12:15
Speaker 11	12:16 - 12:33
Speaker 12	12:34 - 12:51

Students Dismissed

Judge Deliberation Immediately Following the Last Speaker

### Speaker Session Guidelines

- Students will be allowed to speak uninterrupted for 12 minutes
- 5 minute question and answer session immediately following the conclusion of the student presentation
- No new slides can be presented during Q & A
- There will be no questions from the audience or moderators
- Only student and teacher observers are allowed in the speaker rooms
- Audience members may switch rooms during the break times.
- Please keep the hallways quiet to not interfere with the student presenters.

# Behavior I

Room: A201

Moderator: Steven Beltecas

## Caroline Allan

*The effect of positive and negative emotion on memory in the context of the 2016 US presidential election*

## Florencia DeArmas

*Predicting Rates of Disfluencies in Narrative Dialect for Spanish-English Bilinguals and Hispanic English Language Learning Adolescents*

## Elizabeth Grose

*The Effects of the Three Good Things in Life Exercise on Happiness, Empathy, and Well-being in Adolescent and Adult Populations*

## Zachary Kelly-Spadafino

*The Ethics of Sharing Cosmetic Surgery on Social Media*

Break (8 minutes)

## Nicholas Lynch-Pinzon

*Support for populist candidates in 2016 presidential election and democratic primary predicted by reduced social capital and deaths of despair*

## Maya Millstein

*Evaluating the Accuracy of the Millstein Women's Sleep Scale as an Identification Tool for Sleep Apnea in Both Women and Men*

## Raghav Nathan

*The Role of Referential Integration and Referential Ambiguity in Repeated Name Processing During Natural Reading*

## Dylan Ortiz

*Elucidating The Link Between Instagram Use and Body Dissatisfaction Among Adolescents and Preadolescents: A Correlational Study*

Break (8 minutes)

## Faith Sansone

*The Reliability of Eyewitness Testimonies*

## Julianna Schalkwyk

*A Social Robot for Modeling Children's Word Pronunciation*

## Lourdes Valencia

*The Effect of Mindfulness Meditation on Academic Performance*

## Juan Velez

*Correlation between Sleep Duration and Attention in Students and Teachers*

# Behavior II

Room: A202

Moderator: Stephanie Peborde Burke

## Joseph Atherall

*Evaluating the Correlation Between Concussion Education and Reporting Rates in High School Athletes*

## Abigail Bennitt

*The role of cocaine use and trait anger in predicting attentional performance*

## Casandra Chen

*The Cut Off Scores for Screeners Used in the Combined Mental Healthcare Tool in Low- and Middle-Income Settings*

## Stephan Donato

*Suffering in Silence: The Hidden Effects of Caregiving on Stress, Employment, and Health*

Break (8 minutes)

## Nina Foster

*Using a Mixed-Methods Approach to Demonstrate the Value of Yoga for Improving Adolescent Sleep Quality*

## Molly Hirsch

*The Zika Virus and Pregnancy*

## Alexa Krugel

*High School Health Students' Attitudes Toward Mental Illness: A Comparative Analysis of Demographics and Attitudes Toward Depression*

## Katherine LoBue

*Assessing the Effect of Mobility on Sexually Transmitted Infection Risk in Haiti*

Break (8 minutes)

## Isabel Long

*Social Adversity as a Risk Factor for Psychopathy, Anxiety, and Aggression*

## Beverly Placide

*Emotional and interpersonal predictors of posttraumatic distress in college students*

## Kristina Radulovic

*The Relationship between Music Listening and Social Anxiety Levels in College Students*

## John Sukumar

*Hyperfocusing in Adolescents with Attention-deficit/Hyperactivity Disorder (ADHD) Through the Use of a Time-Constrained Task*

## Behavior III

Room: A203

Moderator: Erum Hadi

### Emily Calloway

*Blood-Injection-Injury Phobia in Adults with Autism Spectrum Disorder and Intellectual Disabilities*

### Kellen Cooks

*The Analysis of Graffiti Disapproval Across Demographical and Geographic Boundaries in NYC*

### Anna-Sophia Eberhardt

*The use of immersive virtual reality for relief of chronic neuropathic pain following spinal cord injury: optimizing pain evaluation tools*

### Faith Fitzmaurice

*Exploring Levels of Workplace Burden in Nurses*

Break (8 minutes)

### Nam Kim

*The Role of Gamma-Waves Induction Through Binaural Beats in Inattentional Blindness*

### Caitlin Wong

*Assessing the Plasticity of Pain Through the Lens of People with Limb Loss*

# Biochemistry

Room: A204

Moderator: Michele Zielinski

## Lisa Brady

*Genetic mutations associated with autism spectrum disorders cause social deficits in mice*

## James Chen

*Elucidating the effect of chemical and drug exposures on mitochondrial dna copy number*

## Roopa Duvvi

*Inhibition of sEH Promotes Sirtuin 3-Dependent Increase of NO Bioavailability in High Fructose Fed Young Rats*

## Robert Emmett

*The effects of IL-22 on mouse small intestine crypts in vivo in the context of treatment with corticosteroids*

Break (8 minutes)

## Magdalene Ford

*Engineered Atsttrin Protein Stabilizes Dysregulated Macrophage Polarization, Subsequent Osseous and Cartilaginous Tissue Remodeling in Ankylosing*

## Ali James

*Regulation of sister chromatid cohesion by a novel factor in embryonic stem cells*

## Anjali Nandakumar

*Exploiting Molecule X to Increase Tumor Immunogenicity and Uncover Novel Therapeutic Targets*

## Brent Perlman

*Human photosynthesis: Functional chloroplast sequestration in human mesenchymal stem cells*

Break (8 minutes)

## Vishnu Polkampally

*Utilizing Glassy Matrices to Test a Controversial Mechanism for N2O3 Production Within the Red Blood Cell*

## Liora Reiken

*The Effects of Leaky Ryanodine Receptors in Mouse Models of Muscular Dystrophy*

## Raina Thomas

*Microbial Warfare: Characterization of a Hyperactive CRISPR-Cas Immune System*

## Keven Victoria

*The Novel Use of a Histone Lysine-to-Methionine Mutant, H3K9M, to Elucidate a Causal Link Between Epigenetics and Neuropsychiatric Disease*

# Bioinformatics

Room: A205

Moderator: Nadia Parikka

**Pranav Burugula**

*Developing a Novel Hybrid Deep Learning Algorithm for Continuous Seizure Prediction*

**Ananya Gurumurthy**

*The Identification of Functional Proteins, and Breast Cancer Mutations from Histopathological Images through the Utilization of a Convolutional Neural Network*

**Alan Chang**

*In silico single-cell transcriptomic characterization of tumor microenvironment remodeled by novel tumorigenesis driver identified from CRISPR screen*

**Jolie McDonnell**

*Using Artificial Intelligence to Analyze fMRI Differences in Schizophrenic Prodromal Converters*

Break (8 minutes)

**Janani Rajadurai**

*A Pharmacophore Modeling Approach to Examining Mu Opioid Receptor Ligands for Pain Management Therapeutics*

**Diane Zhang**

*Differences in Transcriptional Regulation of Atrial versus Ventricular Cardiomyocytes*



# Biology

Room: A206

Moderator: Donna Light

## Natalia Benejam

*Determining Shark Social Structure Based on Observational and Statistical Analysis*

## Riti Bhandarkar

*Niche and phylogenetics of the green-and-black fruiteater (*Pipreola riefferii*)*

## Hannah Cohen

*Using Ocean Current Modeling to Study Juvenile Loggerhead Sea Turtle Movements Off Southern California*

Break (8 minutes)

## Anabelle Johnston

*Comparison of Overwintering *Ixodes Scapularis* Oviposition Patterns and Larval Activity*

## Alex Kim-Koutsis

*An Analysis of Tardigrades in New York State: New Records of Tardigrade Biodiversity*

## Julia Kischkat

*An Analysis of the Behavioral, Historical, and Biogeographical Aspects of the *Paracheiroidon innesi* and *Paracheiroidon axelrodi**

## Kathryn Koo

*Summer Haul Out Behavior of a Unique Freshwater Population of Harbor Seals (*Phoca vitulina*) in Iliamna Lake, Alaska*

Break (8 minutes)

## Livia Marchese

*The Division of Labor Between Parents and Altruistic Helpers During the Nestling Phase of the Grey-Capped Social Weaver*

## Mikaela Marcotullio

*Visually Quantifying the Disease Progression of White-Nose Syndrome in *Myotis lucifugus* of Rosendale, New York*

## Eva May

*A Taxonomic Reassessment of Lower Siwalik Fossil Ape Populations*

## Dylan Spedaliere

*Characterization of Optimal Abiotic and Biotic Factors for the Optimization of *Eurycea bislineata* Populations*

# Cellular and Molecular Biology I

Room: A207

Moderator: Diana Evangelista

## Caitlin Brown

*Molecular Pathway Analysis of Temperature-Shifted Drosophila Models of PTPN11 Mutations*

## Anna-Samsara Daefler

*Mesoderm Formation and Nodal Signaling in Zebrafish Embryos and Blastoderm Explants*

## Francesca Di Cristofano

*The Executioner Protein: Targeting BAX to Induce Apoptosis in Anaplastic Thyroid Cancer Cells*

## Jiarui Hu

*The Effect of Brd9 Overexpression on Foxp3 in Regulatory T Cells*

Break (8 minutes)

## Arman Kakkar

*Anticancer Potential of Cucurbitacin B in Oral Cancer Cells via Inhibition of Mortalin*

## Isabella Pansini

*Myosin II Regulates Planar Cell Polarization of the Zebrafish Lateral Line*

## Heather Sherr

*The correlation of palmitate to metabolic memory via reactive oxygen species in hyperglycemic neonatal rat ventricular myocytes*

## Nina Silverstein

*Understanding the role of SOX2 in the dormant cell state*

Break (8 minutes)

## Madeleine Sleeman

*The Role of Src Homology Phosphatase 2 (SHP-2) in Autophagy and implications in T Cell function*

## Anya Van Hoogstraten

*The Physical Characterization of the Interaction Between a Cell Repair and Cell Death Protein*

## Max Widmann

*Expressing the Rat Na<sup>+</sup>/H<sup>+</sup> Exchanger (NHE11) in an NHE-Deficient Cultured Cell Line*

## Alyssa Wong

*Examining the Role of a Putative Coinhibitory Receptor in CD8-Mediated Cytotoxicity*

# Cellular and Molecular Biology II

Room: A208

Moderator: Melissa Shandroff

## Nicholas Cedeno

*Degradation of the extracellular matrix by invadosomes*

## Amy He

*Assessing the evolution of a ligand/receptor pair - Activin and ACVR1- in the BMP/TGF Beta Family*

## Angie Jang

*Investigating the Role of Cell Cycle State During Convergent Extension in D. Rerio*

## Anna Kunz

*Developing an ELISA to Prevent Transfusion- Transmitted Babesiosis*

Break (8 minutes)

## Andrew Lopreiato

*DapF Regulation of Rpph in E. coli Connects Metabolism to Gene Expression, Affecting Cellular Function, Stress Response, and Antibiotic Resistance*

## Emma Luccino

*Elucidating the role of microbiota and the immune system: The role of intestinal macrophages in T-cell responses to commensal bacteria*

## Cheryl Luo

*Into The Role of XAF1 During Innate Immune Response*

## Ava Menachery

*PI3K regulation of macropinocytosis in breast cancer*

Break (8 minutes)

## Drew Sandler

*A tissue's timeline: analysis of cell passaging efficacy in a Scleroderma model*

## Molly Siegel

*The effect of curcumin and EGCG on NFkB activity in spinal cord injury inflammation*

## Rashana Weerasinghe

*Exploring the Variations in Size of Nucleoli in the Cell Types of Caenorhabditis Elegans with Differing Ages and Health*

## Thomas Wiesenber

*The role of NFATc1 in the activation of the resistin promoter*

# Chemistry / Engineering

Room: L201

Moderator: Jeff Wuebber

## Massimiliano De Sa

*Factors Dictating the Efficiency of Internal Combustion Engines: Evaluating Current and Advanced Combustion Modes*

## Sarah Ellenbogen

*The Development of a Remote-Controlled Device for Power Factor Correction in a Commercial Setting*

## Aaron Forman

*Using cross-linking agents to enhance the mechanical properties of cellulose nanofilms*

## Jacob Fridakis

*A Social Network Influenced Implementation to Detect, Prevent, and Avoid Power Outages*  
Break (8 minutes)

## Zachar Kankewycz

*Geometric Optimization of Synthetic Spider Silk Structures*

## Sara Hezi

*Creating a Device to Measure Relative Flexibility of Prosthetic Feet*

## Lucy Jiao

*Strain analysis of Al on a variety of semiconductors for clean superconductor-semiconductor interfaces*

## Juliet Liao

*The Effect of Calcium Nitrate on the Self-Healing Properties of Concrete*  
Break (8 minutes)

## Grace Moon

*Developing an AC Hall Technique to Measure Hall Mobility of Semiconductor Devices with High Resistivity*

## Niah Sanz

*Using an Autonomous Swarm Robot Team to Locate Survivors in a Dangerous Area*

## Jordan Schwartz

*Utilizing a LIDAR dependent optical flow algorithm to calculate the relative position of a drone, and an image tracking algorithm to identify the relative position of a person with respect to that drone*

## Melissa Stok

*Printing the Path: Studying a Gelatin-Alginate Composite Hydrogel for Translation of 3D Bioprinting Research*

# Computer Science / Math

Room: L203

Moderator: Susan Moore

## Matias Goldfeld

*Student Scheduling Through a Combination of Iterative and Genetic Algorithms*

## Theodore Grossberndt

*A Novel Approach to Behavioral-Linguistic Trait Derivation Using Factor Analysis*

## Kevin Li

*Ensuring Epsilon-Differential Privacy Through Deep Learning and Support Vector Regression*

## Eli Lichtblau

*Detection of Contextualized Sarcastic Sentiment with an Evolutionary Long Short-term Memory Neural Network*

Break (8 minutes)

## Rishikesh Madabhushi

*ASL Fingerspelling Recognition Using Convolutional Neural Nets*

## Elliot Ocheltree

*Improving the Hydrodynamics of Shapes Through the Novel Combination of Computational Fluid Dynamics and Erosion*

## Agustin Otero

*Neural Artistic Style Transfer for MIDI Music*

## Alejandra Perea Rojas

*Engineering a Web-based Interface to Predict the Unknown Physical Properties of Solar-like Stars*

Break (8 minutes)

## Jothi Ramaswamy

*A Machine Learning Approach to Classifying Brain Cell Types based on Functional Correlations in the V1 Cortex*

## Elliot Riesman-Tremonte

*Estimating Relative Extrema of an Important Class of Polynomials and Applications to Price-Earnings Ratios*

## Nathaniel Roth

*Detection and Segmentation of Mutant Yeast Cells*

## Charlotte Sendek

*Analytic Coding to Detect Gait Asymmetry in Multiple Sclerosis using a Commercial Game Controller in the Home Environment*

# Environmental Biology

Room: L206

Moderator: Lawrence McIntyre

## **Raquel Addona**

*Cultivation of Algae Utilizing Different Energy Wavelengths*

## **Julia Balch**

*Distinctions Between Russian and Italian Breeds of *Apis mellifera* as Seen in Northeastern Beekeeping*

## **Wylie Feaster**

*Evaluating the Impacts of Various Estuarine Conditions on the Growth of *Crassostrea virginica**

## **William Hasapis**

*Testing the effect of wavelength on *Scenedesmus* algae growth*

Break (8 minutes)

## **Kendall Hoffman**

*Determining the effects of local land use using GIS on the presence of invasive plant species after urban forest reforestation efforts of MillionTreesNYC*

## **Oscar Hutarra**

*The Effects of Plastic Pollution on Dissolved Oxygen Levels and Macroinvertebrate Biodiversity in the Bronx River*

## **Ethan Jacobs**

*The application of environmental DNA (eDNA) to analyze the presence of river otters and other mammals in the Northeast as a procedure of distribution mapping*

## **Emma Jones**

*Differential Decomposition of a Single Diptera Species (Sarcophagidae) versus a Community of Diptera Species (Calliphoridae)*

Break (8 minutes)

## **Rachel Joseph**

*Optimization of Thermal Hydrolysis for Increased Biogas Generation in Waste Water Treatment*

## **Cerina Karr**

*Plant Physiological Response to Climate Change*

## **Owen Routhier**

*Effect of Garlic Mustard (*Alliaria petiolata*) Removal on the Ectomycorrhizal Fungi in a Restored Woodland*

## **Ruqiyah Syed**

*Providing Clean Water to Developing Countries Using Solar Disinfection of Enterococci Bacteria: The Critical Role of Oxygen*

# Environmental Sciences

Room: L208

Moderator: Stephanie Greenwald

## Danielle Bucci

*Quantification and Chemical Analysis of Leachate from BPA-free Baby Bottles After Exposure to Microwave Stress*

## Anna Cahn

*Thermo-Protective Properties of Aloe vera*

## Leila Frietag

*Applications of Remote Sensing to Analyze Deforestation in Indonesia's Rainforests*

## Romina Gamarra

*Analyzing the Feasibility of Plastic Waste Fuel on a Conventional Gas Turbine Engine*

Break (8 minutes)

## Nicholas Holman

*The Impact of Population Density on Microplastic Pollution Near Hudson River Shorelines*

## Amanda Huang

*Dual function materials for recycling CO<sub>2</sub>: A comparison on bulk and dispersed CeO<sub>2</sub>, La<sub>2</sub>O<sub>3</sub>, and CaO*

## Aayushi Jha

*Pairing of nanofillers and matrix crystallization to strengthen poly(lactic acid)*

## Harrison Liu

*Inconel and Its Applications in Waste to Energy Facilities*

Break (8 minutes)

## Miranda Margulis-Ohnuma

*Extensive wildfires driven by high pCO<sub>2</sub> in the Late Triassic*

## Brian Pfeffer

*A profitable method for capturing and storing global CO<sub>2</sub> Emissions*

## Timothy Woodard

*Continuous Oil-Water Separation Through the Utilization of Chemically Modified Cotton Fabric*

## Spencer Zack

*The Refinement of the Design of a Jean Pain Mound for Heat Recovery from Composting*

# Medical Science I

Room: Q102

Moderator: Wendell Hala

## Isabell Ilan

*A novel method for quantifying lymphatic function in acquired lymphedema mouse models by detection of PEGylated dye concentrations in the blood*

## Devin Juros

*Sexual Dimorphism in the Drosophila Model of Cancer Cachexia*

## Elyse Kanner

*Development of bispecific T-cell-engaging antibody for immunotherapy of ICAM-1-positive thyroid cancer*

## Tejas Karwa

*Characterization of Metabolic Stress Response on Murine Melanoma Cells after Therapeutic Ultrasound*

Break (8 minutes)

## Jamie Kramer

*NMDA Receptor Subtype Regulation of Ischemic-Induced Neuronal Death*

## Renner Kwittken

*Priming the tumor microenvironment with cyclophosphamide to enhance nanoparticle delivery: An imaging study*

## Anya Mody

*Effect of Sodium Phenylbutyrate-related Compounds on a C. elegans Model of Amyloid Beta Toxicity*

## Abigail Owen

*Impact of contralateral hearing on quality of life and speech outcomes after cochlear implantation in single-sided deafness patients*

Break (8 minutes)

## Kalsoom Rashid

*The Effect of Caffeine on the Behavior and Dopaminergic Neurons in Drosophila Models Developing Parkinson's Disease*

## Ila Rosen

*In the bull's-eye: Borrelia burgdorferi generates differential expression in the skin microbiome of Lyme Disease patients*

## Helen Tejada

*Exploring the role of the endocrine pancreas in the metabolic dysregulation of lipodystrophy*

## Jerry Wu

*Novel Bioinspired Surface Patterning of Fixed Porcine Pericardium and Effects on Endothelialization*



# Medical Sciences II

Room: Q104

Moderator: William Maelia

## Saketh Anand

*Electrical Activity Modulates Cardiac Function*

## Abigail Bayer-Mertens Human

*Multiple Approaches to Palliative Treatments of Chronic Pelvic Pain*

## Joshua Freedman

*Image-guided surgery with fibroblast activation protein-targeted nanoclusters composed of indocyanine green-coated superparamagnetics*

## Joshua Gottschall

*Identifying Environmental Triggers Associated With Crohn's Disease*

Break (8 minutes)

## Kellie Kottmann

*Using C-fos Immunohistochemistry to Assess the Multiple NMDA Injection Rodent Model that More Accurately Mimics Infantile Spasms*

## Sunji Mainsah

*Impediments to Treating Malaria Vectors Effectively*

## Catherine McClay

*The Effect of Gene Therapy in Treating and Preventing Pulmonary Hypertension associated with Lung Fibrosis*

## Julia Piccirillo-Stosser

*Effective Shutdown of Immunotoxic Gliadin Fragments in Common Bread Wheat 'Butte 86' to Minimize Systemic Immune Activation in Celiac Disease Sera*

Break (8 minutes)

## Zobaida Roza

*Does ACE Alu Play a Role in High School Athletes Physical Performances*

## Rebecca Rubinstein

*Comparison of Dietary Intake Among Obese and Normal Weight Urban Minority Children with Asthma*

## Giovanni Santucci

*sensory integration in adolescents with or without multiple concussions*

## Shrila Shah

*Improving Lung Cancer Treatment Planning and Delivery using an Artificially Intelligent Real-time Quantification of Lung Lobe Structures from CT*

# Medical Sciences III

Room: B103

Moderator: Melissa Carnahan

## Samantha Abbruzzese

*The role of transcription factors and brain-derived neurotrophic factor in the development of Huntington's disease medium spiny neurons*

## Supriya Baskaran

*The Effect of Cannabidiol and Lithium on the Memory of Drosophila Melanogaster*

## Rachel Chernoff

*Characterizing microglia proliferation after ischemic preconditioning*

## Samantha Feldbaum

*Identifying downstream targets of miR-34b/c which promote neuronal death in the hippocampal CA1 region*

Break (8 minutes)

## Jenny Liu

*Deriving human somatosensory neurons for CIPN modeling and treatment discovery*

## Madeleine Lopane

*Examining the Impact of Paired Brain and Spinal Cord Stimulation on Crossed Axons Above the Lesion in Cervical Spinal Cord Injuries.*

## Hannah Monack

*Quantitative and Semi-Quantitative Measurements of PART Pathology in the Medial Temporal Lobe and Their Significance in Genetic Studies*

## Buu-Hac Nguyen

*Single-Domain Antibody-Mediated Modulation of Neurotransmitter Transport*

Break (8 minutes)

## Ryan Onatzevitch

*Investigation of Human Neurons in Schizophrenia*

## Sabrina Piccirillo-Stosser

*Investigating the Neuroprotective Role of gcy-32, nhx-5, and FK506 in a CL2006 Caenorhabditis elegans Model for Alzheimer's disease*

## Patrick Saint Ange

*Pathways Affected by the Brd2 Gene in the Development of Juvenile Myoclonic Epilepsy*

## Leora Segal

*Validation of the Rat Model of Infantile Spasms Through the Analysis of EEG in Repeated Spasms*

# Medical Sciences IV

Room: B104

Moderator: Guido Garbarino

## Isha Puri

*A Scalable and Freely Accessible Machine Learning Based Application for the Early Detection of Dyslexia*

## Sarah Bock

*Effect of Prenatal Maternal Cortisol on Child Cognition at Two Years*

## Anisha Chandy

*Investigating the Effect of Proliferation Pathway Inhibitors on MB-MDA-231 Cerebral Metastasis*

## Ananya Chatterjee

*Therapeutic Effects of Retinoids in Ferroptotic Cell Death Models of Hemorrhagic Stroke*

Break (8 minutes)

## Jed Katzenstein

*Characterizing Changes in Microtubule Dynamics with Fidgetin-Like 2 Knockdown*

## Hailey Kissner

*Examining Morphological Associations Among Neural Structure and Reading Ability in Young Children*

## Adina Mistry

*Novel methods to investigate Protein Disulfide Isomerase: analyzing the effects of LOC14*

## Emma Montgomery

*Improved Base Editors and a Novel Sensor Assay Advance Gene Editing Technology*

Break (8 minutes)

## Elizabeth Morton

*Prevalence of Depression and Sleep Apnea in Patients at Risk for SUDEP*

## Akaash Saraf

*Nrf2 Activation in Astrocytes Provides Neuroprotection in the in vitro Model of Hemorrhagic Stroke*

## Jonah Schwam

*CRISPR/Cas9-mediated gene knock-in for elucidating the role of muscle stem cell correction in regenerating muscle in Duchenne muscular dystrophy*

## Andrew Van Camp

*A Potential Therapeutic Approach to Non-Alcoholic Fatty Liver Disease (NAFLD): Harnessing Trib1 Regulation of Hepatic Fat*

# Physical Sciences

Room: B107

Moderator:

## Mahira Ahmad

*Analysis of Particle Interaction Within Pulsar Magnetospheres*

## Christopher Bauco

*An Analysis of 250,000 Years of Paleoclimate in the Subpolar North Atlantic Using Foraminifera,  $\delta^{18}O$ , and Ice Rafted Debris Proxies*

## William Branca

*Predicting the Occurrence of Solar Flares*

## Brian Dockery

*Analysis of  $CsPbBr_3$  Surface Reflectivity in Regards to Photoluminescence and Elemental Composition*

Break (8 minutes)

## Chirag Kumar

*A Computational Approach to Correcting Satellite Sea Surface Temperature Measurements*

## Arjay Mirchandani

*Efficiency of the Forward Swept Wing Configuration with Comparison to Contemporary Designs*

## Alexandra Rivera

*A Step in Understanding Glacial Flow: Exploring the effects of entrained insoluble debris on mechanical properties of polycrystalline ice*

## Lea Spatz

*Characteristics of Active Galactic Nuclei in SDSS galaxies*

Break (8 minutes)

## Anne Stein

*Frictional and Geomechanical Properties of Tournemire and Opalinus Shale to Predict Seismic Activity*

## Susanna Weber

*Is there anybody out there? Gamma ray bursts and the Fermi paradox*

## Diane Yang

*Varying Aspect Ratios of Self-Sustaining Piezoelectric Energy Harvesters*

## Moses Zhang

*Constructing an algorithmic process to detrend systematic errors within the Eclipsing Binary Dataset of NASA's Kepler Spacecraft*

## Competitive Poster - Cafeteria Session

Poster ID	Name	Category
101	Abers, Samuel	Animal & Plant Science 1
147	Abreu, Gabriela	Behavior 3
162	Ajay, Ashley	Biology 1
117	Amico, Ellen	Behavior 1
219	Amir, Joshua	Medicine and Health 1
220	Annam, Yashaswini	Medicine and Health 1
114	Bayrakdarian, Sylvia	Animal & Plant Science 1
208	Bangs, Annabelle	Environmental Science 1
237	Bates, Griffin	Physical Science 1
196	Behbehani, Iman	Cellular Biology 2
118	Bell, Ryan & Didonato, Yekaterina	Behavior 1
184	Benson, Noah	Cellular Biology 1
209	Benson, Alex	Environmental Science 1
132	Berenbaum, Josh	Behavior 2
221	Berkenblit, Jamie	Medicine and Health 1
163	Bernstein, Samantha	Biology 1
238	Bloom, Nathaniel	Physical Science 1
210	Boyle, Joseph	Environmental Science 1
239	Brahmbhatt, Isha	Physical Science 1
228	Cabrera, Keyla	Medicine and Health 2
211	Caceras, Emanuel & Tang, Jonathan	Environmental Science 1
240	Calabrese, Peter	Physical Science 1
241	Cantori, Joseph	Physical Science 1
164	Cardenas, Ariana	Biology 1
165	Case, Aidan	Biology 1
166	Casey, Matthew & Chen, Baldwin	Biology 1
229	Catalano, Will	Medicine and Health 2
148	Cecere, Katelyn & Serra, Catherine	Behavior 3
133	Ceja, Jasmin	Behavior 2
149	Ceron, Pilar	Behavior 3
174	Ceske, John	Biology 2
185	Chace, Amina	Cellular Biology 1
222	Chafitz, Jordan	Medicine and Health 1
250	Cohen, Aaron	Physical Science 2
249	Cohen, Alex	Physical Science 2
119	Cohen, Camryn	Behavior 1
120	Colella-Albino, Alessandra	Behavior 1
150	Collana, Melanie	Behavior 3
134	Cox, Micaela	Behavior 2
111	Crainer, William	Animal & Plant Science 1
251	Creighton, Erik	Physical Science 2
197	Curet, Nicholas & Onofre, Jatziri	Cellular Biology 2

## Competitive Poster - Cafeteria Session

Poster ID	Name	Category
102	Curran, Theo	Animal & Plant Science 1
230	Dadina, Shirin	Medicine and Health 2
151	Dhallu, Gurveen	Behavior 3
223	Dron, Jaclyn	Medicine and Health 1
152	Du, Kyla	Behavior 3
186	Ecker, Jonny	Cellular Biology 1
187	Egelberg, Jake	Cellular Biology 1
188	Fante, Massimo	Cellular Biology 1
167	Feldman, Nicole	Biology 1
153	Ferragu, Constance	Behavior 3
103	Fischer, Sean	Animal & Plant Science 1
121	Gaetano, Matthew	Behavior 1
122	Gagliardi, Leonardo	Behavior 1
175	Garduno Romero, Ivan	Biology 2
212	Giannopoulos, Nicholas	Environmental Science 1
123	Gold, Gillian	Behavior 1
106	Goldstein, Caroline	Animal & Plant Science 1
176	Goncalves, Bryan	Biology 2
189	Grullon, Federico	Cellular Biology 1
154	Gunn, Mia	Behavior 3
252	Halevi, Gil	Physical Science 2
242	Harris, Benjamin	Physical Science 1
198	Hassan, Hammad	Cellular Biology 2
124	Hayes, Kendall	Behavior 1
253	Healy, Aidan	Physical Science 2
243	Herh, Ryan	Physical Science 1
177	Hernandez, Guadalupe & Perez, Tyra	Biology 2
135	Hernandez, Javier	Behavior 2
199	Hoffman, Alexandra	Cellular Biology 2
155	Horrigan, Katelin	Behavior 3
125	Hossfeld, Finn	Behavior 1
213	Ippoliti, Matthew & Schmid, Caroline	Environmental Science 1
190	Iraj, Larissa	Cellular Biology 1
126	Jacobs, Hailey	Behavior 1
127	Jacoby, Danielle	Behavior 1
254	Jansky, Dylan	Physical Science 2
169	Jelinek, Sophie	Biology 1
244	Johnston, Deborah	Physical Science 1
224	Karozichian, Elysse	Medicine and Health 1

## Competitive Poster - Cafeteria Session

Poster ID	Name	Category
214	Katz, Anara	Environmental Science 1
231	Kauber, Catherine	Medicine and Health 2
136	Kelly-Yuoh, Maura	Behavior 2
191	Kiriakou, Georgia	Cellular Biology 1
200	Kola, Lissa	Cellular Biology 2
255	Konrad, Emma	Physical Science 2
215	Krishna, Varun	Environmental Science 1
192	Ku, Yingshyan	Cellular Biology 1
193	Lam, Juen-Fai	Cellular Biology 1
137	Lev, Katie	Behavior 2
128	Li, Chris	Behavior 1
256	Li, Matthew	Physical Science 2
257	Lin, Michelle	Physical Science 2
201	Liu, Raymond	Cellular Biology 2
258	Liu, George	Physical Science 2
202	Loja, Bridget	Cellular Biology 2
156	Lynch, Ryan	Behavior 3
178	MacDonald, Jacalyn	Biology 2
138	Maglione, Domenick	Behavior 2
225	Makhijani, Amrita	Medicine and Health 1
170	Martin, Claire	Biology 1
139	Mckay, Liam	Behavior 2
109	McSweeney, Sara	Animal & Plant Science 1
179	Mestrich, Abigail	Biology 2
171	Miriyagalla, Amaavi	Biology 1
259	Modi, Kapil	Physical Science 2
180	Mone, Sydney	Biology 2
181	Mundadan, Jacqueline	Biology 2
182	Nair, Gayathri	Biology 2
203	Nichols, Mary	Cellular Biology 2
157	O'Brien, Jacqueline	Behavior 3
204	O'Donnell, Henry	Cellular Biology 2
158	O'Hanlon, Nikolas	Behavior 3
129	Orientale, Julia	Behavior 1
104	Paux, Tucker	Animal & Plant Science 1
245	Perez, Pietro	Physical Science 1
140	Pfeffer, Jenna	Behavior 2
110	Philip, Harsha	Animal & Plant Science 1

## Competitive Poster – Cafeteria Session

Project ID	Name	Category
232	Pithadia, Miraj	Medicine and Health 2
205	Poblete, Kaitlene	Cellular Biology 2
141	Policarpio, Caitlin	Behavior 2
108	Reed, Caroline	Animal & Plant Science 1
216	Rhode, Lucia	Environmental Science 1
130	Rice, William	Behavior 1
142	Robb, Josephine	Behavior 2
172	Roberts, Caroline	Biology 1
115	Roberts, Katherine	Animal & Plant Science 1
194	Rosado, Jade	Cellular Biology 1
260	Saha, Josh	Physical Science 2
246	Schlamkowitz, Jack	Physical Science 1
143	Schwabe, Andrew	Behavior 2
261	Shaw, Tyler	Physical Science 2
144	Shornick, Rachel	Behavior 2
195	Siegle, Hayley	Cellular Biology 1
206	Slavin, Sophia	Cellular Biology 2
159	Soloway, Hannah	Behavior 3
105	Speakman, Madison	Animal & Plant Science 1
160	Stokes, Jillian	Behavior 3
233	Strzeletski, Gabriella	Medicine and Health 2
247	Subramanian, Vikesh	Physical Science 1
262	Subramanian, Nikita	Physical Science 2
248	Sun, Yingjue	Physical Science 1
107	Taveras, Kiara	Animal & Plant Science 1
234	Thomas, Sinai / Portillo, Michelle/ Arroyave, Leah/ Anjali, John / Sinai, Stefania	Medicine and Health 2
235	Tomescu, Elena	Medicine and Health 2
116	Tomescu, Lara	Animal & Plant Science 1
146	Torres, Gabriella	Behavior 2
217	Turner, Eli	Environmental Science 1
173	Valentino, Justine	Biology 1
236	Verma, Tej	Medicine and Health 2
131	Wang, Isabella	Behavior 1
226	Weinstein, Tyler	Medicine and Health 1
183	Xu, Xinyi	Biology 2
227	Yu, Loren	Medicine and Health 1
218	Zajac, Catherine	Environmental Science 1
207	Zhang, Fanny	Cellular Biology 2
161	Zia, Mishal	Behavior 3



## Competitive Poster – Library Session

Project ID	Name	Category
332	Alma, Dganit	Behavior 5
386	Alvarez, Olivia	Cellular Biology 3
381	Araki, Takaharu	Cellular Biology 3
429	Baker, Jackson	Medicine and Health 3
306	Barbelet, Thea	Animal & Plant Science 2
461	Bassett, Benjamin	Physical Science 4
394	Bhalla, Ravi	Cellular Biology 4
382	Bhaskara, Ani	Cellular Biology 3
349	Bird, Erik	Behavior 6
318	Bishop, Olivia	Behavior 4
307	Blair, Henry	Animal & Plant Science 2
351	Boguraev, Alexander (Sasha)	Biology 3
301	Boylan, Makenzie	Animal & Plant Science 2
403	Bradley, Colleen & Musial, Nicole	Cellular Biology 4
311	Brown, Chelsea	Animal & Plant Science 2
339	Calabrese, Theresa	Behavior 6
453	Caldropoli, Julia, & Wong, Chrysmine	Physical Science 3
333	Capaldi, Claire	Behavior 5
391	Cheng, Holly	Cellular Biology 3
312	Cohen, Lee	Animal & Plant Science 2
411	Cook, William	Environmental Science 2
364	Coronel, Jennifer	Biology 4
415	Cukaj, Ethan	Environmental Science 2
353	Curtis, Liam	Biology 3
454	Dayal, Rohan	Physical Science 4
304	Dayan, David & Healy, Christian	Animal & Plant Science 2
317	Denn, Joseph	Behavior 4
373	Dias, Hope	Biology 4
390	Dolgins, Eliza	Cellular Biology 3
352	Donolli, Madison	Biology 3
441	Dronzek, Kenny	Medicine and Health 4
436	Dwyer, Gabrielle	Medicine and Health 4
455	Eichenberger, Nicolas	Physical Science 4
375	Eichenberger, Zachary	Biology 4
437	Enamorado, Shania	Medicine and Health 4
315	Eng, Olivia	Animal & Plant Science 2
460	Ernst, James	Physical Science 4
387	Feingold, Samantha	Cellular Biology 3
447	Ferval-Shioya, Nobuhide	Physical Science 3
438	Foley, Aidan	Medicine and Health 4
444	Fried, Jonah	Physical Science 3
439	Friscia, Nicholas	Medicine and Health 4

## Competitive Poster - Library Session

Poster ID	Name	Category
410	Gell, Bryce	Environmental Science 2
417	Gialleonardo, Devin	Medicine and Health 3
319	Glelaj, Adrian	Behavior 4
395	Goldansky, Diana	Cellular Biology 4
396	Gonai, Haruki	Cellular Biology 4
322	Gouran, Molly	Behavior 4
402	Graham, Sun	Cellular Biology 4
397	Grossmark, Tomas	Cellular Biology 4
450	Gschneidner, Paul	Physical Science 3
423	Gu, Alan	Medicine and Health 3
405	Guiliano, Stefanie	Environmental Science 2
383	Guo, Sophia	Cellular Biology 3
324	Guo, Sheng & McMillan, Andrew	Behavior 4
341	Hackmyer, Aliza	Behavior 6
430	Haigis, Liana	Medicine and Health 3
348	Hannah, Colin & Weir, Brian	Behavior 6
440	Heese, Emily	Medicine and Health 4
366	Heisenberg, Charlotte	Biology 4
302	Heisenberg, Natasha	Animal & Plant Science 2
355	Horowitz, Annie	Biology 3
328	Huang, Angela	Behavior 5
445	Huang, Nathan	Physical Science 3
431	Ilieva, Elitsa	Medicine and Health 4
426	Jacobs, Zoe	Medicine and Health 3
433	Jimerson, Shawn	Medicine and Health 4
418	Kang, Joongoo	Medicine and Health 3
314	Kaplan, Elizabeth	Animal & Plant Science 2
442	Karintholil, Priya	Medicine and Health 4
367	Kazibwe, Marie	Biology 4
424	Kishore, Divya	Medicine and Health 3
365	Klein, Mikayla	Biology 4
452	Kugelmas, Sarah	Physical Science 3
462	Laredo, Lily	Physical Science 4
435	Lazin, Anna	Medicine and Health 4
368	Lee, Min Young	Biology 4
427	Lee, Elizabeth	Medicine and Health 3
376	Lerner, Charlotte	Biology 4
428	Levin, Bailey	Medicine and Health 3
316	Levitt, Caleb	Animal & Plant Science 2
309	Lopez Herrera, Kimberlyn	Animal & Plant Science 2
310	Luna, Luis	Animal & Plant Science 2
342	Lusthaus, Robert	Behavior 6

## Competitive Poster - Library Session

Poster ID	Name	Category
413	Machado, Daniel	Environmental Science 2
345	Maignan, Arielle & Martinez, Chabeli	Behavior 6
384	Malik, Nikhil	Cellular Biology 3
344	Mariuzza, Kayla	Behavior 6
327	Markowitz, David	Behavior 4
374	Masterson, Robin	Biology 4
408	McCormack, Emma	Environmental Science 2
323	Mckoy, Kimberly	Behavior 4
419	Mellis, Bradley	Medicine and Health 3
308	Mendez, Inez & Sipos, Erika	Animal & Plant Science 2
420	Mohammadi, Mina	Medicine and Health 3
401	Morales, Milagros	Cellular Biology 4
358	Morea, Anthony	Biology 3
325	Mortati, Elizabeth	Behavior 4
378	Murphy, Rosalie	Biology 4
380	Myint, Enzali	Cellular Biology 3
334	Nabi, Jocelyn	Behavior 5
313	Nadel, Sophie	Animal & Plant Science 2
404	Naughton, Liam	Cellular Biology 4
409	Noia, Alexandra	Environmental Science 2
340	Oppenheim, Casey	Behavior 6
320	Orlando, Jed	Behavior 4
359	Orzech, Christopher	Biology 3
303	Paletta, Mickey	Animal & Plant Science 2
329	Panja, Hiya	Behavior 5
406	Parmet, Sara	Environmental Science 2
446	Pence, Beatrice	Physical Science 3
443	Pennella, Nicole	Medicine and Health 4
392	Platkin, Sarah	Cellular Biology 3
451	Poletti, James	Physical Science 3
335	Psaila, Kendall	Behavior 5
363	Puglisi, Jennifer	Biology 3
459	Raguso, Roman	Physical Science 4
361	Rajadurai, Pooja	Biology 3
369	Ramlakhan, Kaitlyn	Biology 4
448	Rayner, Oliver	Physical Science 3
371	Reilly, James	Biology 4
372	Riseman, Maxwell	Biology 4
449	Ritzcovan, Evan	Physical Science 3
398	Robinson, Morgan	Cellular Biology 4

## Competitive Poster - Library Session

Poster ID	Name	Category
336	Rogoff, Caitlin	Behavior 5
337	Rosen, Sydney	Behavior 5
321	Rosenberg, Grayson	Behavior 4
377	Saca, Samantha	Biology 4
434	Sales, Sarai	Medicine and Health 4
330	Sandell, Jordan	Behavior 5
350	Sandhu, Amar	Biology 3
346	Satpute, Sayli	Behavior 6
432	Schade, Samantha	Medicine and Health 4
356	Schiffman, Benjamin	Biology 3
338	Schutta, Madeline	Behavior 5
421	Scioscia, Sebastien	Medicine and Health 3
385	Sidhwani, Dhruv	Cellular Biology 3
416	Siemers, Sarah	Environmental Science 2
370	Sills, Raphaela	Biology 4
388	Simkhai, Kyla	Cellular Biology 3
326	Singh, Aditi	Behavior 4
305	Spinozzi, Catrina	Animal & Plant Science 2
393	Stobin, Isabel	Cellular Biology 4
357	Stoll, Willem	Biology 3
331	Strattner, Elizabeth	Behavior 5
360	Summers, Faith	Biology 3
379	Sunil, Aditi	Biology 4
343	Szeszko, Jake	Behavior 6
347	Tabanjeh, Omar	Behavior 6
458	Tagayun, Adrianna	Physical Science 4
389	Tareque, Prema	Cellular Biology 3
414	Torres-Rossi, Luke	Environmental Science 2
399	Toudic, Lisa	Cellular Biology 4
400	Troy, Abigail	Cellular Biology 4
425	Tunick, Robby	Medicine and Health 3
412	Ward, Jesse	Environmental Science 2
422	Williams, Paul	Medicine and Health 3
354	Xiang, Alec	Biology 3
407	Zapata, Daniel	Environmental Science 2
456	Zhang, Anna	Physical Science 4
362	Zhang, Kenny	Biology 3
457	Zhao, Aron	Physical Science 4

## Display Poster Session - Library

1:15 PM - 2:30 PM

Name	Poster	Name	Poster
Abu, Jessica	501	Murrell, Isaac	520
Audi, Matthew	502	Nguyen, Lily	521
Ceballos, Mayelin	503	Pope, Jillian	522
Du, Kyla/ Peter, Rebecca/ Rodriguez, Crystal	504	Prassor, Summer	523
Duver, Sophia	505	Racanelli, Sophia	524
Echavarria, Brian	506	Rao, Eric	525
Einstein, Ella	507	Rogers, Shannon	526
Giardina, Ryan	508	Scopino, Luke	527
Gold, Harley	509	Sheikh, Misbah	528
Habbas, Aya	510	Shelley, Cameron	529
Hewett, Erinn	511	Sigillo, Alexis	530
Howard, Augustus	512	Stancescu, Andre	531
John, Anjaili	513	Surphlis, Asya	532
Kao, Daniel	514	Villaviciencio, Marina	533
Keller, Tyler	515	Volpe, Lance	534
Klein, Jordan	516	Voutsinas-Klose, Celeste	535
Lynch, Aidan	517	Weber, Lily	536
Mathew, Timothy	518	White, Luke	537
Mesquita, Bryan	519	Yazdi, Brandon	538

*Thank you to the senior research students that volunteered to judge the Display poster category. Your help and enthusiasm is greatly appreciated.*

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Mr. Dhaval Shukla

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Dr. Padma Sridhar

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