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**American Museum
of Natural History**



Albert Einstein College of Medicine - BEYOND ALBERT

Poster Title	Presenter(s)
Impact of Early-Life Inflammation on Lymphoid Progenitor Cells in Zebrafish	Alice Ames
From Immune Defense to B-cell Lymphoma: Investigating How the STING Signaling Pathway Influences Germinal Center Responses	Andrea Amegashie
LOFU Improves Dendritic Cell Maturation Targeting MARCH1 In Solid Tumors	Anisa Islam
Can Poly(I:C) Trigger a dsDNA-Depended Interferon Response in Osteosarcoma Cells?	Arabi Mamun
Double Trouble for AML: The Combined Antileukemic Treatment Effects On NPM1 Mutated Cells	Blanca Tamay Marine
"Mom, My Tummy Hurts!" How Maternal Intestinal Inflammation During Lactation Impacts Offspring Susceptibility to Colitis	Brianna Salazar
Functional ultrastructure of thymic epithelial cells during endogenous regeneration after chemotherapy insult	Derek Rodriguez
The Role of STING-dependent Mitochondrial Metabolism in Regulating Macrophages Antitumor Immunity	Devin Agyei
Investigating the Ability of MTG Proteins to Bridge Interactions Between Basic Helix Loop Helix Dimers	Grace Abraham
Inhibiting Metastatic Invadopodia Using Novel PROTACs Targeting PYK2	Iman Diaoune
Non-Ablative Acoustic Stress Improves Tumor Antigen Acquisition of Dendritic Cells	Karina Schwartzman
HDAC9 Inhibition in Regenerative Cancer Stemness in CRC	Laila Simpson
Defining KDM7A-Dependent Lung Adenocarcinoma Progression During Intermittent Hypoxia	Lubaba Chowdhury
Evaluating the Effects of PM2.5 Exposure on the Metastatic Features of Lung Cancer Cells	Sajia Uddin
Developing Neuroendocrine Prostate Cancer Models using Androgen Deprivation Strategies	Salamat Ibrahim
Diffusion MRI and Cognitive Impairment in Childhood Leukemia Survivors	Turjo Das



Baruch College - CUNY STEM Research Academy

Poster Title	Presenter(s)
Assessing the Role of Light and Nutrient Availability on Prochlorococcus Growth	Juliana Fuchs, Charlotte Bradshaw
Prickle is required for Normal Hematopoiesis and Development	Nadim Ahmed, Biel Cuadrado, Orin Zaman, & Fiona Zhong
PPO2: A Highly Conserved Member of the Prophenoloxidase Gene Family	Nadim Ahmed, Biel Cuadrado, Orin Zaman, & Fiona Zhong
Rapid Systemic Review: Sleep Deprivation and Academic Dishonesty Among Students, with Supporting Experimental Evidence	Eliezer Aquino, Derrick Raymond, & Caius Velez
Neighborhood Poverty and Menstrual Product Availability and Access Across NYC Library Systems	Katie Caba, Emily Estevez, Laiba Sidu, & Ariel Yang
Mapping Bluefin Tuna Habitat Preferences: Analyzing CPUE Relative to Thermal Fronts and Chlorophyll-a Distributions in QGIS	Yuxuan Che



BioBus - Junior Scientists

Poster Title	Presenter(s)
Aqua Air Relations: Analyzing the Effect of Proximity and Size of Blue Space to PM 2.5 Concentration.	Aishah Awotubo-Qasim, Magnolia Marcus, Harvey Larsen
The Effects of Heat Stress on Physiological and Behavioural Traits in <i>Drosophila Melanogaster</i>	Day-Liin Williams, Éowyn Osborne, Aileen Villalba Enriquez
<i>Drosophila</i> Din: Small Flies, Big Noise: Assessing the Biological Effects of Noise Pollution Using <i>Drosophila Melanogaster</i>	Esmeralda Garcia Almonte, Victoria Campaña, Kitty Li, Joshua Fernandez, Juwan Miller-Hatcher
The Effects of CSO Events on water quality and microbe concentration in the Hudson River	Tahjaye Stevens, Anu Oshinuga, Jacob Martinez, Johnathan Perkins
Analyzing Particulate Matter Emissions of Restaurants in the Lower East Side	Ashlee, Zan Mei
Let It Grow: Rain Gardens vs. Environmental Toxins	High School Interns: Janet Guo, Victoria Melendez, Tristen Santiago College Mentors: Shelly Fatal, Angela Wu
From Fruit Flies to Human Health: The Effects of Diets on Locomotor and Behavioral Patterns	Students: Aiyuan Chen, Afwaza Khanom, Zarin Shigri; College Interns: Eric Ren, Angela Liu
Belonging in Bronx Green Spaces: How Design Shapes Community	Rubie M, Kiara P, Bambi D, Fatoumata F
A Comparison Between Soil Quality and Microbial Prevalence of the Aqueduct Walk and Street Trees in the Bronx, NY.	Nooshmim Safwan, Yadyra Philip, Jada Williams, Bryan Encarnacion
Pin Oaks: The effects of air quality and greenspace on soil composition	Shailyn Reinoso Martinez, Christian Gutierrez, Brianna Burgos, Derek Cruz



Bronx Community College - CUNY STEM Research Academy

Poster Title	Presenter(s)
Seasonal and Diurnal Fluctuation of Methane (CH ₄) in Bronx , New York.	
Seasonal Fluctuation of Carbon dioxide (Co2) in New York City.	
Molecular Gelation: Healthier Way to Structure Vegetable Oil	
Evaluation of Cadmium-Heavy Metal Tolerance in Selected Rice <u>Oryza sativa</u> Cultivar and Potential for Phytoremediation	



Bronx River Alliance - Environmental Enrichment and Leadership for Students

Poster Title	Presenter(s)
Investigating the Effect of Tree Canopy Cover on Ultraviolet Index Near the Bronx River	Yusra Traore, Adiel Dicarlos, Bryce Carryl, Lucas Nickelsburg, Izrael Bannerman
Analyzing Green Infrastructure and Bird Diversity Near the Bronx River	Jarol Jorge, Hadia Ahmed, Kadjatu Ibrahima, Ahammad Zahin, Leslie Trinidad
Evaluating Green Infrastructure and Pollinator Diversity Around the Bronx River	Zawad Siham, Ryan Shen, Itzel Castillo, Nentahirou Sow
Comparing Water Quality Using Macroinvertebrates from Natural and Man-Made Sources of Water in the Bronx River & Retention Pond	Tamara Spratley, Talla Babou, Mohammad Elahi, Zeria Henrriquez, Emily Zelaya



Bronx Zoo, Wildlife Conservation Society - Project TRUE

Poster Title	Presenter(s)
Bee-yond the Roof: Assessing Plant Health and Invertebrate Biodiversity on a Restored Urban Green Roof	Sarah Persad, Faheya Rahel, Willie Mouzon, Camila Rodriguez, Alexa Rodriguez, Arianna Jenkins, A'naija Riley
The Reel Deel: A Study of American Eels, Macroinvertebrates, & Water Quality in the Bronx River	Jase Juarez Jimenez, Basil Davila, Lillian Lu, Ava Resnick, Matthew LeBlanc, Myah Hernandez, Nalani Morris
Camera Traps and eDNA: A Non-invasive Survey of Riparian Wildlife at the Bronx Zoo	Bella Saadall, Paula Calle, Marcus White, Morgan Yu, David Valentin, Analia Rivera, Shamsia Miah
Beaks in The Bronx: Bird Use of Natural & Human Managed Water Sources at the Bronx Zoo	Vanessa Saavedra, Jacob Heredia, Tiwaa Baffour, Sanjay Bissessar, Caroline Adames, Mahawa Keita, Angelina Gonzalez Teixeira
Evaluating Invasive Ecology: The Local Impacts of Spotted Lanternflies and Japanese Knotweed in an Urban Riparian Habitat	Michael Guan, Enmanuel Calderon, Jacob Tlaczani, Anna Lin, Oarisa Uddin, Alexandra Lopez



Brooklyn College - CUNY STEM Research Academy

Poster Title	Presenter(s)
Analysis of soft tissues in a Jurassic ammonite: possible implications for septal secretion	Amirah Agbalaya, Stella Dozortsev, Dominique Spike, and Maxim Khalbaev
Diplomoceras as a monospecific genus exhibiting dimorphic covariance and a complex gestational strategy: a geometric morphometrics approach	Dominique Spike, Amirah Agbalaya, Stella Dozortsev, and Maxim Khalbaev
Shell coiling and sutural complexity scaling in cold-water polar ammonites using stable isotope ratios: $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$	Stella Dozortsev, Dominique Spike, Amirah Agbalaya, and Maxim Khalbaev
Effect of live Artemia on captive pipefish (Syngnathus fuscus)	Abigail Figueroa, Shyla Edwards
Characterization of castor oil-based battery films with silicon dioxide nanofiller additives	Elliott Forbes, Eder Ramos
Disentangling numerosity and temporal factors with rats	Blake Zhao, Ben Witkowski
Can rats accurately encode short intervals of time?	Otto Contento, Leon Tsyngauz
How can environmental cues guide complex actions?	Richard Thorpe, Alice Liu
Heavy Metals' Effect on Urban Soil Health	Daniella Ganzburg, Vivienne Li, Coby Meyerson,
Effect of Salt Additives on the Dielectric and Electrochemical Properties of Ethyl Cellulose Polymer Films	Hugo Zhang, Ashman Zanib
Individual Differences in How Animals Behave When Expecting a Reward	Ridwan Quader, Jessica Guaman



City College CREST - High School Initiative in Remote Sensing for Earth Systems

Poster Title	Presenter(s)
Climate Risk and Resilience in Jamaica Bay, New York City	Amy Salinas, Jeremy Lora
The NYC Heat Mystery	Meldin Totic, Vidyut Arvind
Are Extreme Events Represented in Station Records?	Elise Mischler, Nicole Perez
Community Perception on Nuclear Facilities and AI Data Centers	Evan Cuevas, Franchesca Almonte, Genesys Flery-Garcia
Studying Air Temperature Variability in New York City Subway Systems	Jaden Pedro, Kerik Leung
Evaluation of Satellite Products over the Ocean from Ground Stations and Ocean Cruises	Jeun Ebat, Samina Ganiyeva
Remote Sensing Applications for Urban Flood Analysis Using Sentinel-1 Data	Kayla Chin, Timothy Ebegbe
Mapping Connections: Land Cover Change, Habitat Connectivity, & Resilience Along the Harlem & Bronx Rivers	Henry Romero-Gibbs, Pragya Sharma
Pugsley Creek Resilience Lab: Ecology, Flood Risk, and Community-Driven Solutions in the Bronx	Ia Sofocleous, Sienna Gaetani
Intelligent Soils in Texas?	Juliette Carson, Laila Aziz
Tech Trash Bin - Integration of AI in Sustainable Management of Waste	Enzo Terrasi, Kaisa Wu, Nhuthuy Ong, Ridhwan Khan, Ryan Norouzi
The Perception Gap: Psychological and Political Drivers of Public Risk Perception in the Nuclear-AI Energy Transition	Evan Cuevas, Genesys Flery-Garcia, Franchesca Almonte, Julian Bonilla, Brandon Guzman, Leah Garcia, Luba Kreminska



City College of New York - CUNY STEM Research Academy

Poster Title	Presenter(s)
The juvenile hormone mimic, methoprene, has varying effects on cellular immunity in different <i>Drosophila</i> species	Christopher, Myra, Stanley, Zev
Red Team vs Blue Team: Quantum Circuit Obfuscation	Fuad, Fahmida, Adelaide
Observing and Imaging Color Centers in Diamond	Isabel
Neurite shape and cell targeting are regulated by glutamate-mediated control of the Rho GTPases Cdc42	Joshua
Investigating the Effect of Thickness on the Optical Anisotropy of 2D Materials at the Nanoscale	Mohammed



City Tech - CUNY STEM Research Academy

Poster Title	Presenter(s)
Exploring the Bacterial Microbiome Associated with Weed Roots	Nadeen Elhedoudi
Mitigating the Urban Heat Island Effect in NYC: Observing the impact of Vegetation on Land Surface Temperature	Raima Falak
Characterization of Peroxiredoxin-1 in <i>Tetrahymena thermophila</i>	Madison Fraser
Identification and Sequence Analysis of Chloroplast Genes of <i>Viola sororia</i>	Sarah Jimenez
Robotic Screening of Rotten Agricultural Yield	Farhan Hamim
Development of a Multi-Robot Mecanum-Wheel System for Disaster Environments	Kaitlin Lam
Characterization of Glutathione Reductase-like Genes in <i>Tetrahymena Thermophila</i>	Devin Lin
How Do Wolbachia Strains Compare Between Mosquitoes and Flies?	Miysha Liza
Development of a Robotic Hand for Rotten Fruits Detection	Noor Naveed
Revealing Evolutionary Relationships in <i>Leptuca pugilator</i> and <i>Minuca pugnax</i> Using COI Gene Sequences	Saika Rashmi
Mitochondrial Genome of Carpenter Bees: Investigating the Relationship Between Geographically Distinct Climates and Genetic Similarity Using the COI/COX1 Gene	Maxwell Reyfman
Mitigating the Urban Heat Island Effect in NYC: Observing the Impact of Building Form on Land Surface Temperature	Mei Rivera
Annotating Uncharacterized Ferric Reductase Domain-Containing Genes in <i>Tetrahymena thermophila</i> as Candidate NOX Homologs	Jack Rodriguez Beaumont
Alleviating Sociotechnical Anxieties Surrounding Automation: Semi-Autonomous Reconnaissance Robot	Wilson Tom



Columbia University Herbert Irving Comprehensive Cancer Center - YES in the HEIGHTS

Poster Title	Presenter(s)
40 Years of Cancer Survival Improvement: Which Cancers and for Whom?	Amy Hernandez
Identifying Strategies to Enhance Recruitment of Those With Cervical Cancer Diagnoses and Pre-Neoplastic Lesions Through Community Organizations, Clinics, and Web-Based Channels: A Literature Review	Avery Kim
Evaluating if Change in Mammography-Based Tools is Associated with Lifestyle Factors and Blood Biomarkers Among Women with Early-Stage Hormone Receptor Positive Breast Cancer	Ovi Oke
Characterizing Transcriptional Responses to Line Mixing in Glioblastoma Neurospheres	Chelsea Chang
Determining Optimal Whole Cell Lysate Generation Methods for Immunotherapy Against Pancreatic Cancer	Elle Chung
Current and Emerging Practices in Radiation Therapy: Accuracy, Safety and Outcomes	Tsering Lama



Columbia University Lamont Doherty - Secondary School Field Research Program

Poster Title	Presenter(s)
Making a Better Bus Stop: Effect of Roof Coatings on Summer Bus Shelter Temperatures in Brownsville Brooklyn, NY	Abdul Chowdhury, Md Rahman, Tim Li, Aiden Lee, George Sharavara
Relationship between Phragmites australis Growth and Phosphorus Availability in Northern Piermont Marsh Based on UAV Photogrammetry and Field Sampling	Elnaz Mirzaei, Raghavendra Thakur, Stephanie Chen, Umma Begum, Haspia Parisha
Carbon Stocks and Sequestration Potential in Lamont Sanctuary Forest	Brianna Peralta, Ibrahim Walad, Jesús Vergara, Ronnie Huang, Vincent Chen, Justin Zhu
Effects of Extreme Climate Conditions on Various Opportunity Crops	Esme Roberson, Laila Coronel, Madisen Kim, Norah Savage, Tania Garcia, Parker Cermak-Hosein, Daisy Kollmorgen
The Fate of (Micro)plastics in Marsh Environments	Charlotte Young, Dylan Rios, Grace Wattimena, Isabella Rodriguez, Veda Kodakandla, Jenifer Chulai, Rory Chau
Plastic Pellets Distribution Near A Plastic Manufacturer in Orangetown, NY.	Justin Soriano, Rukeiya Sahaba, Tatum McLaughlin, Haowen Ruan
Spatiotemporal Assessment of PM2.5 Concentrations and Noise Levels at Manhattan's Transportation Infrastructure and Nearby Waterfront Locations	Arielle Gorbato, Favor Owoborode, Jaylen Williams Foy, Khondoker Alfe, Zoe Gupton
Investigating the Sequestration of Contaminants Within the Intertidal Zone Of Piermont Marsh	Afsana Chowdhury, Anaiah Threats, Kaye Chen, Mario Marmol, Sarah Mari-Liz Gil, Andy Lin, Marek Polkosnik
Above-Ground Carbon Storage in Common Trees of the Hudson Valley	Gemma Staines, Ziba Chowdhury
Investigating the Efficacy of Bio-Filter Conditions for Arsenic Removal in Groundwater	Ciara Moloney, Karla Urgiles, Joey Yeong, Madeline Cronk, Aliyah Stitzel, Oliver Palmgren



Columbia University Zuckerman Institute - BRAINYAC

Poster Title	Presenter(s)
Scaling Synapse Strengths to Model Drosophila Larva Responses	Alikhan Zhumabayev
Role of Atonal gene expression in drosophila tissue development	Amira McCoade
Identifying individualized cortical networks from fMRI datasets	Aniqa Delwara
Neurodevelopmental outcomes following early life stress	Camila Noboa
Scanner Aware Deep Learning For Brain Age Prediction From a Structural MRI	Casey Jamali
The Developmental Impact Of Inhibition Towards Schizophrenia	Eduardo Aguilar De Los Santos
Can Sticky Proteins be Scientists too? How AI-generated Biomarker maps can be used to predict brain age	Elena Molina
Impact of gene mutations on drosophila eye development	Jada Parker Thomas
Turn The Lights Down Low: Analyzing How Different Wavelengths Affect Fly Courtship	James Pierre Guzman
At what rates are different objects missed due to change blindness?	Kaito Noda
Effects of Environmental Factors on Aggressive Behavior in Betta Splendens	Kristian Simmons
The Language of Zebra Finches: Differences in Sex and Social Environment Impact on Neuronal Spikes	Mariama Bah
Prefrontal Cortex Activity During Emotional Facial Expression Processing in Individuals with Schizophrenia	Melany Paredes
Why is Stuart Little So Little? Genes linked to Growth Abnormalities in Mice	Nida Naveed
Investigating the Effects of Common CMT2A associated Marf Mutations on Mitochondria Morphology, Localization, and Neuronal Architecture in Horizontal System Neurons	Onyekachukwu Ndika
Impact of Perception Quality on Memory	Penelope Cid
Effect of mitochondrial uncoupling protein overexpression on drosophila neuronal systems	Poppy Larsen
Stars and Branches: Impacts of early life stress on striatum	Sarah Ibrahim
Turning Voltage into Vision: Development of a hSyn-ASAP6 Lentiviral Vector for Monitoring Human Neuronal Activity	Soleidy Marte



Genspace - BioRocket

Poster Title	Presenter(s)
Examining The Inactivation of The WHi5 Gene in Baker's Yeast	Sebastian Alessandri, Zina Rafayelova, Amina Rodriguez, Emma Tang
How Do Nearby Chemical Plants and Superfund Sites Influence Soil Microbial Communities, and What Are Their Implications?	Alison Punina, Jiovany Oriol, Wessam Mada
Biodegradability and Soil Fertilization of Egg Shell biocomposite for Potential Use in Coffins	Itzel Torres, Rayhona Eshmonova, Amayah Liz, Hubert Zhou, Katerin Medrano



Hudson River Park Trust - Science Leadership Program

Poster Title	Presenter(s)
Color Patterns of Ingested Inorganic Debris in Hudson River Gulls	Arianna Nieves
Common Inorganic Material Found in Seagull Boluses at Hudson River Park	Brianna Hubierez
Common Colors Found in Seagull Boluses at Hudson River Park	Scarlett Williams
Most Common Type of Material (Organic vs Inorganic) Found in Hudson River Gulls	Naomi Colocho
Inorganic Material Consumed by Seagulls in Hudson River Park	Juliana Molina
Inorganic Material with the Highest Ingestion Frequency in Gulls Along the Hudson River Estuary	Kylie Wong
How Pier Activity Affects the Frequency of Different Types of Inorganic Materials	Darla Mullins-Gould
Common Types of Inorganic Material Found in Gull Boluses	Victoria Morozova
Colors of Inorganic Material Consumed by Seagulls in Hudson River Park	Tahmina Akther
Variation in Organic and Inorganic Materials in Seagull Boluses from the Hudson River Estuary	Runyuan Zheng (Jasmine)
Trends in Relative Frequency and Types of Inorganic and Organic Material Found in Hudson River Estuary Gull Boluses, 2023-2026	Ashley Zhang
Recurring Inorganic Material Found in Seagull Boluses at the Hudson River Estuary	Kaylee McNab



HYPOTHEkids - NY Bioforce

Poster Title	Presenter(s)
Rapid Detection of Hepatitis C Virus (HCV) Using Gold Nanorod-Based RT-PCR	Carly Gastelu
Versatile Usage of Plasmids in Synthetic Biology	Genesis Sanchez, Claribel Rojas
The effects of L-arginine supplementation on CD8+ T-cell functional responses	Sirrah Manneh
Characterization of interactions between the nucleoporin RanBP2 and its partner proteins using biolayer interferometry.	Meyly Santiago
Controlling Refractive Correction by Varying Femtosecond Laser-Induced Crosslink density in the Corneal Stroma	Protik Modak
Inhibition of FGF Signaling Is Associated with Increased Junctional E-Cadherin in the Chick Ventral Node Epithelium	Maria Gerges
Characterizing spatial variation in gene expression within regions of the mouse brain	Atif Alam
In Vitro Reconstitution and Prenylation of small GTPase Rab12, a recruiter of kinase LRRK2 associated with Parkinson's Disease	Jimel Johnson
Reconstituting Rab8a prenylation in vitro on membranes to study interactions with Parkinson's disease associated kinase LRRK2	Stephanie Chan
Reprogramming Tumor-Associated Macrophages via Lipid Nanoparticle mRNA Delivery	William Pellot
The potential of Bacterially produced CD47 nanobody exerting anti-tumor activity	Aicha Sylla
The Impact of Industrial Sources of Emission on Residential Indoor Air Quality	Danessa Villalba
Identifying RPL23a Protein-Protein Interactions (PPL) using Mass Spectrometry (IP-MS)	Assiatou Diallo
Air Quality Exposure During Train Commutes Compared to Living Room Environment	Justin Diaz
Design and Validation of PCR Sample Preparation Hardware	Alejandro Dominguez

Developing Proximity Labeling Platforms for Small Molecules and Human Tissue	Kimmora Hylton
Endogenous tagging of genes for protein visualization in cells via fluorescence	William Cuevas
Applications of resin printing in cell culture vessel design	Ashley Martinez
3D printing of intervertebral disc scaffold with endplate to improve stability of implant	Gueswinde Kabore
Cytarabine Induces Ceramide-Rich Platform Formation in MV4-11 Acute Myeloid Leukemia Cells	Sabrina Gao
CD28-Mediated Ceramide-Rich Platform Formation in Activated Human Jurkat T Cells	Nelaine Ayala
Python Package for Automated Parametric Semiconductor Device Design in Harsh Environment Applications	Joanne Lin
Engineering Thermoreversible Hydrogels Through Tuning Polymer Structure	Marvin Rodriguez
Characteristics of Physical & Mechanical properties of 3D printed Bio Active Scaffolds	Ismeal Diaby
Optimizing the intracellular trafficking and biodistribution of liquid nanoparticles	Kianthy Thomas
Quantitative Assessment of Mitochondrial Mass in BJ and PV Cell Lines via TOMM20 Western Blotting	Jana Habib
How a Parkinson's Disease Mutation Disrupts Astrocytes, the Brain's Supporting Cells	Gerald Anquandah
Title not available	Ebenezer Bonku



Icahn School of Medicine at Mount Sinai, Center for Excellence in Youth Education - Lloyd Sherman Biomedical Enrichment Programs

Poster Title	Presenter(s)
Investigating parabrachial projections to the hypothalamus	Dahmonique McIntosh
The impact of chronic stress on social motivation	Joshua Norales
Steps to sedation in the pediatrics emergency department	Demmetri Garcia
The Importance of the IGFBP proteins in Hair Follicle and Skin Development	Daniel Cardoso Quiroz
Association between trace metal exposure and lung cancer in never-smokers	John-Mark Akyea
How does the publication of mental conditions differ from physical conditions in scientific literature?	Kingsley Hunter
Investigating Follicle-Stimulating Hormone (FSH)-Mediated Regulation of Striatal Dopamine Dysfunction in Down Syndrome	Mouhamadou Sow
Sending tiny hearts to space!	Nicholas Hernandez
Which Noninvasive Test Performs Best? Evaluating Fibrosis in Patients with MASLD	Prestah John
Another path to the cure for drug addiction, stop more instead of start less.	Tajir Franks
Investigating the Role of Dyrk1a in Excitatory Neurons During Cortical Development	Theodore Schalk
Lipid Levels Differ by Genetic Ancestry and Sex and Apoe Haplotype	Mahamadou Keita
Sending tiny hearts to space!	Ellis Choroco
Maternal SARS-CoV-2 Infection as a Moderator in the Association between Prenatal Ambient Air Pollution Exposure and Childhood Asthma Diagnosis	Aaron Darko
A Danio rerio Model of Clear Cell Renal Cell Carcinoma via Targeted vhl and bap1 Loss	Kadijatu Barry
Behavioral responses to chronic variable stress remain constant regardless of mouse estrous stage	Esther Gould



Ten-year Clinical Outcomes in Patients with Endometrial Cancer-Associated Driver Mutations and Benign Baseline Histology	Kelly Chan and Aidana Zhanuzakova
Targeting G3P as a Potential Metabolic Activator of ChREBP	Ambrose Sukraj
Social Defeat Stress May Worsen Metabolic Associated Liver Disease in Mice	Brenden Abankwa
Analyzing the effects of antidepressants on the blood-brain barrier following chronic stress	Connie Lin
Endocytic Zone Positioning & AMPAR Endocytosis in LRRK2G2019S Spiny Projection	Eric Walker
Examining potential interactors with Wnt signaling to mediate hair follicle development	Khadija Kamara
Cannabidiol and how it decreases mechanisms of heroin seeking behavior and anxiety in female and male rats	Nabeela Alfa
From brain tissue to microscopy: Exploring the role of interoceptive brain regions in regulation of physiology	Noah Ripp
Evaluating Human Pangenome Reference Consortium (HPRC) Assemblies for Immunoglobulin Locus Pangenome Construction	Partho Biswas
The association between structural disadvantage and screen time	Saad Osuman
Post-stress social buffering rescues social avoidance and depression-like behaviors in stress-susceptible mice through cohousing	Zaynab Bah
Analyzing Behavioral Outputs of Whole Brain Cbln2 Deletion in vGlut2-containing Neurons	Soleil Francois
Investigating mitochondrial dysregulation during HIV-1 infection in a tonsil explant model	Joyce Chen
3D-cell culture reveals distinct dormancy pathways in breast cancer models	Henry Perez
Decoding Cardiorespiratory Dysregulation in Down Syndrome: Insights from Ts65Dn Mice Model	Jaeden Johnson



LaGuardia Community College - CUNY STEM Research Academy

Poster Title	Presenter(s)
Fluorescence Behavior of Tetra(4-pyridyl)porphyrin Complexed with Platinum	Tasnia Jannatin
Autonomous Maze Navigation Using a PING Ultrasonic Sensor	Sadaf Mehsan
Effectiveness of STEM JEL on Treating Osteoarthritis	Zooey Bronfeld



Lehman College - CUNY STEM Research Academy

Poster Title	Presenter(s)
Adsorb, Regenerate, Repeat: A Comparative Assessment of PFAS Removal and Adsorbent Reusability in Chitosan-Based Hydrogels.	Kevin Chen
The Influence of Environmental Conditions on Chitosan-Based Hydrogels and Their Effects on PFAS Adsorption.	Soumik Nandi
Optimizing B-Raf Inhibitor Vemurafenib For Mutant Skin Cancer	Shaad Branker, Malak Kalaz
Irradiation of Rhenium in the presence of aluminum hydroxide under varying acidic pHs relevant to the Hanford Waste Tank	Jayden Lam, Iratze Ramirez-Garcia
His-Containing Tripeptide Self-Assembly: Utilizing Hydrogels for Proton Transfer in Potential Fuel Cell Applications	Hillary Dartey
Evaluating DMAPADGA for Cobalt Extraction in Nuclear Waste Processing	Ali Alsaidi, Sancea Howell



Memorial Sloan Kettering Cancer Center - Bridge to Biostats

Poster Title	Presenter(s)
Impact of Socioeconomic Status on Clinical Diagnosis Staging and Treatment of Non-Small Cell Lung Cancer Patients at Memorial Sloan Kettering Cancer Center	Sandra Serrano Cabrera, Matthew Jacome
Association of Socioeconomic Factors and Healthcare Access with Breast Cancer Diagnosis, Stage, and Treatment at Memorial Sloan Kettering Cancer Center	Yaretzi Roman Pineda, Taylor Shaw
Trends in socioeconomic status and pancreatic cancer at Memorial Sloan Kettering Cancer Center	Izaiah Bernard, Will Hernandez, Sabrina Lebedinsky



Memorial Sloan Kettering Cancer Center - Science Enrichment Program

Poster Title	Presenter(s)
What Can S1 Nuclease Actually Detect	Hawa Diarrassouba
Resolution Comparison between Widefield, Confocal, and STED Microscopy Using Nuclear Pore Complex Protein NUP96 and Vimentin	Kelvin Dilone
Development of an Automated, Saline-Based Formulation Method for High-Purity Copper-61 Production from Solid Nickel Targets	Leah Gibson
Defining the Mechanism of Amphiregulin (Areg) Signaling in Activated T cells	Sofia Tabassum
Validation of Automated DNA/RNA Extraction Kits	Blessing Ugwudiobi
Hypermutation in Microsatellite Stable Urothelial Carcinoma Tumors	Godslove Agyarko
The Effect of AOX Expression on HCT116 and HT29 Colorectal Cancer Cells	Joanna Elkjateeb
Site-selective Serotonylation of Histone H3 using Split Inteins	Asfia Narwin
Prime Editing in iPSCs for FGFR3 Mutation Correction	Nelsy Mendoza
Characterization of APOBEC3 enzyme expression and growth effects in breast cancer cell lines	Lizbeth Huerta
Evaluating AEON Model Performance Across Cancer Subtypes, Sample Types, and Patient Ancestry	Sameera Haniff
Racial and Ethnic Differences in Clinical and Socioeconomic Characteristics and Overall Survival in Prostate Cancer	Evin Cruz



Natural Areas Conservancy - Student Urban Nature Program

Poster Title	Presenter(s)
Canopy Cover: Assessing the Impact of Native Canopy on Soil Health and Biodiversity in the Greenbelt Woodlands	Annabella Colucci, Isabella Urbaz, Zhong Wu
On The Ground Floor: Effects of Japanese Stiltgrass at the Staten Island Greenbelt	Erlanca Capacia, Stephanie Nieto, Angel Rodriguez, Stephy Zheng
Understanding the Health of Midstory Trees in the Staten Island Greenbelt	Aaron Li, Justin Woody, Mukarm Ali, Charles Finan
Public Perception of Climate Change in Forest Park's Forested and Non-Forested Areas	Survey: Mormo Haque, Keathon Ross
Impacts of Soil Composition and Compaction on Native Species Survival Along a Forest Park Desire Line	Understory: Juliette McMahon, Knakisha Antoine
Investigating the Impacts of Invasive <i>Pourthiaea villosa</i> on Native <i>Lindera benzoin</i> Health in a Forest Park Midstory Plot	Midstory: Yujin Chon, Luke Ahn, Kylise Hamilton
Fifteen meters of canopy: a peek into New York hardwood forest health	Overstory: Olivia Nuss-Caneda, Rio Hishiyama, Sophia Xu



NYU Tandon - Applied Research Innovation in Science and Engineering

Poster Title	Presenter(s)
3D Reconstruction of Traditional Dwellings in Kenya from Aerial and Terrestrial Data Using Gaussian	Ranbeer Singh Arora, Becky Weng
A Comparison of Methods: Observing Capuchin Nut-Cracking Behaviors	Alina Lin
A Low-Cost Wearable Spatial Awareness Device for the Visually Impaired	Abir Nath, Zane Wolf, Farsat Rahman
Air Quality Sensors in NYC	Rose Zeydelis
Analyzing the Efficiency of Different Cleaning Methods for Microcharcoal Analyses	Aubrey Cruzado
Analyzing Transformer Block Pruning in CLIP: Balancing Semantic Understanding and Inference Efficiency	Asha Archer
Applying Psychological Science to Media Literacy: Reducing Adolescents' Susceptibility to Influencer Marketing	Kyan Chen, Natasha Akther
Assessing Fire Safety in Crewed Spacecraft Under Space-Relevant Conditions	Kostiantyn Lapko
Assessing the Validity of Morphotype Classification in Microcharcoal Sampling	Zoe King
Autonomous Kinova Arm via the ACT AI Algorithm	Suri Stockton, Emma Zhang, Samuel Katz-Matsuya
Braiding Data To Save Lives: Bringing Context, Co-Design, and Collaborative Arts to Youth Suicide	Lily Pravda, Afseen Elahi
Climate Change Courtroom: Benchmarking Two Distinct LLM Approaches	Marley Ming, Layla Terrero
Climate Disaster-Risk Assessment Through Rapid Flood Modeling and RoofNet Material Classification	Luke Weidenmueller, Sean Nathu
Comparing the Kinetics of Indirect Photolysis Rates of Wetland Samples	Isabella Crow, Adriana Nicholson



Computer Vision-Based Obstacle Detection for Autonomous Navigation in Minecraft	Anand Prasad, Joy Jiang
Creation of an Ant-Based Program that Fosters Student Curiosity in STEM	Malia Binns, Maria Elkomos
Curvature-Aware Learning Rate Strategies for Gradient Descent Optimization	Abire Sarker
Cybersecurity and 3D Scanning: Testing Reflective Materials Against 3D Scanning Performance	Tori Bryden, Nafisa Anjum
Designing More Stable Solar Cells: Investigation of the Effect of Perovskite Composition on Degradation	Mira Neva, Axel Flores
Do Spectrum Classification Models Live Up to their Promise?	Oumou Diallo
Does AI Hear Space The Way We Do?	Wafeeka Irfan
Does fGCM Level Vary With Age, Within and Between Individuals?	Aisha Choudhury, Zhirui Pan
Effect of "C-terminal" Region of WWB2 Protein on Heterochromatic Gene Expression within <i>S. Pombe</i>	Tristan Lui, Michelle Pachay
Effects of Pretreatment on the Enzymatic Degradation of Cotton for Sustainable Waste Processing	Maya Michna, Jessenia De Jesus
Historic Maps: Brownfield Detection Automation	Emily Huang, Jasmine Coward, Sophie Perez
Hydroconversion and Catalytic Processing: Analyzing Bubbles in High Viscosity Polymers	David Benjamin, Daniel Barragan
Investigating Meiotic Bypass for Dmc1 Δ Induced Arrest in <i>Saccharomyces Cerevisiae</i>	Ethan Cheng, Aimee Ballesteros
Investigating the Effect of LiFDOB on SEI Formation and Lithium-Ion Battery Performance	Adela Rossochacki
Investigations of Solid-State Ligand Exchange Methods in Lead Sulfide Quantum Dots	Yalli Zussman, Zanab Fatima, Mackenzie Sisolak
Multispectral Change Detection	Tajrina Mahmud, Aaliyah Roberts, Martin Quiroz, Jason Malcolm, Laila Cohen
Nitrogen Fixation in the Liquid Interface of a Plasma Electrochemistry Reactor	Lucia Navarro, Jimena Cerda



Obstacle Avoidance in Redundant Manipulators Through Inverse Kinematics	Daniel Maleki, Wilson Liang, Raphael Olivares
Optoelectronic Applications in Quasi 2D Perovskites	Ryan Valle, Anouk Richter-Fleishman, Rosemary Matz
Predicting Buildings' Embodies Carbon: Trees vs. Neural Networks	Sofia Koe
Predicting Comfort Labels from Synthetic Vehicle Trajectories	Yudesh Singh
Structural and Optical Characterization of Organic Semiconductors: Crystal Twisting and Charge Transport in BP4VA	Lucia Diaz
The Use of Col1-TRAP in Detecting Liver Fibrosis To Prevent Organ Failure and Cancer	Fawzia Nila, Melisa Jimenez
Tracking Drug Delivery by Red-Shifting Emission via FRET-Paired Fluorophores in Light-Responsive Nanoparticles	Mushfiq Khan, Jonathan Jiang
Two-Echelon Truck-Drone Cooperative Delivery: System Design and Performance Analysis	Lawrence Hicks, Henri Tarelli
Where in the Internet is Congestion - Now?	Faiza Sumon



Queens College - CUNY STEM Research Academy

Poster Title	Presenter(s)
Regeneration of Goldfish Fin Ray Branch Points Post-Amputation	Nicole Chen, Pekko Hau, Avneet Khaira
The Impact of UV-C Exposure on Daphnia Magna	Allison Abreu Rosario, Tsewang Lama, Haroon Sheikh
Do Video Game Microtransactions Cause Gambling Tendencies?	Nadya Bokhari, Kathy Lin
Ornamental, Not Harmless - Biosecurity Risks Across the International Wildlife Trade	Asad Khaksar, Daniel Zhu
The Development of Allosteric Modulators	Daquan Chen
Scaling Genuine Multipartite Entanglement Classification	Jonathan Liu
Optimization of a Palladium Catalyzed Cascade Reaction for the Synthesis of Benzothiophenes	Micah Chang Wai



Queensborough Community College - CUNY STEM Research Academy

Poster Title	Presenter(s)
Highway Noise Barriers and Their Effect on Noise Levels Near Residential Areas	Shanai Taibu
Measurement of Environmental Noise Levels in Bayside Queens	Tenzin Dadon
Debt and Mental Health	Aliza Ali
Period Poverty in New York City Schools	Samiya Mitul
Patterns of Obesity in Relation to Food Access and	Irina Chen
Socioeconomic Status in the South Bronx Compared to the Upper East	Toby Chau
Side in New York City	Jinhao Zhang
Designing a Traditional Shower System for Future Lunar Habitats	Caden Ko
Estimating Lunar Surface Ages via Crater Density	YuXuan Lin
Antimicrobial Resistance in Environmental Bacteria	Ling Victoria Sanchez Guim
Antimicrobial Resistance in Environmental Bacteria	Philopatir Maximous
Data Acquisition Circuits	Ayden Liang O'Brien
Rasberri Pi for Data Acquisition	Olivia Kim
3D printing components for Physics Research	James Gregorio Manijaime Bruce
Electronic filtering of Data using enhanced filters	Nour Aboul
Comporative Assessment of Gamma and Beta Dose Rates Across Multiple Radiation Detectors	Abrarabir Hossain
Analysis of Radiation Detector Efficiency	Nicole Li
Investigating Microstructure of Iron in Food Sources Using Synchrotron X-ray Absorption	Mithila Jessica



Investigation of microstructure of iron nanoparticles using synchrotron X-ray absorption spectroscopy	Ripudaman Kaur
Design and Build a Cubesat	Janie Wu
Using a Cubesat for Seismic Wave Detection	Ryan Lin
Cubesat analysis of GPS data	Diganto Deb
A theoretical analysis on the performance of a next generation Martian rotorcraft	Patrikios Constanti
Space Radiation Protection Technologies for Manned Mars Migration Spacecraft	Narong Bai
Analyzing Proton and Heavy Ion Composition Patterns Within Coronal Mass Ejections	Tarini Pradhan
An Analysis of the Kinetic Energy of Coronal Mass Ejections	Shaan Singh



Rockaway Initiative for Sustainability and Equity (RISE) - Environmentor

Poster Title	Presenter(s)
The Foraging Habits of Common Terns, Least Terns & Black Skimmers in RBESNA	James Jr Pechera, Semiyah Walter, Adesola Ogunsola
Natural vs. Artificial Wave Creation Phenomena: Their Influence on Shoreline Erosion	Cecilia Mbonu, Hebah El Sharkawi, Surid Sopnil
The Effects of Human Disturbance on Coastal Insect Biodiversity	Kelissa Lochan, Naziah Lynch, Zara Savitsky
Examining edge effects in a living shoreline; Is predation of ribbed mussels, <i>Geukensia demissa</i> , higher at the marsh edge or interior marsh?	Abiola Saibu, Muntahi Mowla
Public Perceptions of Coastal Change and Citizen Science at Rockaway Beach	Jay Sanchez, Madison Anderson, Fariha Tasnim



RockEDU, Rockefeller University - Summer Science Research Program

Poster Title	Presenter(s)
Effect of Activated Dendritic Cells on Enhancing TH1 Cell Proliferation, Cytokine Production, and Cytotoxic Activity	Angelica Flores
Targeting the Immunological Synapse to Improve CD4+ T Cell-Mediated Host Defense	Angelique Alonso
From Capture to Activation: How Dendritic Cells Process Pathogens to Drive T. Cell Activation & Response	Ann-Sarah Day
Priming CD4+ T-cells into Superkillers using Dendritic Cells	Hoa Van, Riley Huang
Epigallocatechin gallate inhibits viral entry of HSV-1 outside Vero E6 cells	Catalina Chang
The Effects of Mogroside V on T Cell Activation and Metabolism Under Oligomycin-Induced Stress	Emma Neugarten
Evaluating the Role of Glycolysis during Amyloid- β Phagocytosis by Macrophages and Microglia	Joey Ammach
The Effects of Exercise-like and Tumor-like Lactate Conditions on T-Cells	Joyce Ji
Analyzing Environmental DNA (eDNA) in the Hudson River to Detect Changes in Fish Species	Lucia Mendoza
Amino Acid Metabolism as a Lifeline: Arginine and Lysine Support T-Cell Function to Kill Cancer Cells Under Energy Stress	Mahi Sehgal
Building Better Killers: Screening TLR Ligands for Cytotoxic CD4+ T-Cell Priming	Mastura Akter
The Divergent Effects of Sucralose and Monk Fruit on T-cells functionality	Moksh Shah
Enhancing T-Cell Activation and Pathogen Elimination in Immune Responses	Nomuun Undrakh
The Role Of TLR-Stimulated Dendritic Cells in Driving CD4+ T-Cell Cytotoxicity	Ryan Li
FACT OR FICTION? Turmeric's impact on Herpes	Sara Aboul



Effects of Pyrimidine Salvage Rescue on the Function of Metabolically Deficient Multiple Myeloma-Targeting CAR T Cells	Saurish Arora
The Effects of L-Arginine on Rescuing T Cell Viability and Anti-Tumor Function from 2-DG-Induced Glucose Starvation	Yee Oo



Rocking the Boat - Ambassadors

Poster Title	Presenter(s)
Analyzing Algae Diversity on an East River Seaweed Farm	Peniel Adjei, Jayden McDermott, Lowell Andrew R. Iporac, Ciaran McEnroe and Lily Mleczko Buck
What's in the Water? Testing Pipes of Unknown Origin Along the Bronx River	Leslye Henriquez, Fatima Cisse, Shaila Canales, Lily Mleczko Buck & Catherine Prunella
Do Industrial Hubs Provide Important Habitat for Wading Birds Along the Bronx River?	Ramon Bimwala, Abigail Molina, Lily Mleczko Buck & Emilio Tobón



Wave Hill - Woodland Ecology Research Mentorship

Poster Title	Presenter(s)
Tree Health as a Predictor of Bat Activity	Atiksh Bordia, Amelia Hearse, Laila McClenton-Allen, Ishrat Raisa
Assessing Potential Sites for <i>Castanea dentata</i> (American Chestnut) Restoration in Inwood Hill Park	John Dean, Harrison Luterman
Soil Respiration Interacts with Forest Fragmentation at Wave Hill, NY	Theodore Bernstein, Max Fong, Michelle Garcia Rosario



York College - CUNY STEM Research Academy

Poster titles not available