2014 New York City Science and Engineering Fair - COMPLETE PARTICIPANT LIST

The New York City Science and Engineering Fair (NYCSEF), sponsored by the New York City Department of Education (NYCDOE) and the City University of New York (CUNY) / Office of Academic Affairs, is the city's largest high school research competition. Approximately 700 students from around the city submitted applications to the 2014 NYCSEF for a chance to compete for a variety of cash and prizes including an all-expense trip to Pittsburgh, PA representing New York City at the Intel International Science and Engineering Fair (ISEF). This year's Preliminary Round was held on Sunday, March 2, 2014 at The City College of New York (Manhattan). The top 20 -25 percent of student researchers from each subject category were selected to participate in the Finals Round on March 25, 2014 at the American Museum of Natural History. All award winners, including the names of the seventeen students selected to represent NYC at the International Science and Engineering Fair in May in Los Angeles, CA as well as approximately 200 other award winners were announced at the NYCSEF Awards Ceremony on March 27, 2014 at The Kaye Playhouse at Hunter College. The names of all of this year's participants are listed below. Congratulations to all of this year's participants and award recipients.

For more information about NYCSEF, please visit <collegenow.cuny.edu/sciencefair>.

---

**Bronx**

**Bronx Academy of Health Careers**

Renee McGaw

*Project Title: Arsenic transport and accumulation in rice*

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

---

**Bronx Center for Science & Mathematics, The**

Lawrence Abu-Hammour

*Project Title: Energy Efficiency in Autonomous Vehicles*

NYCSEF Preliminary Round Participant

---

Kenrick Alfred

*Project Title: The Effect of Phosphorylation of Wiskott-Aldrich Syndrome protein (WASp) on Podosome Formation*

NYCSEF Preliminary Round Participant

---

Yesenia Castelan

*Project Title: Study the mechanism of the anti-cancer activity of an IL-10-related cytokine, IL-24.*

NYCSEF Preliminary Round Participant

---

**Jennifer Hernandez**

*Project Title: Energy Efficiency in Autonomous Vehicles*

NYCSEF Preliminary Round Participant

---

**Anjelica Mulero**

*Project Title: How to become a card player?*

NYCSEF Preliminary Round Participant

---

**Gabriel Quinones**

*Project Title: The Effect of Phosphorylation of Wiskott-Aldrich Syndrome protein (WASp) on Podosome Formation*

NYCSEF Preliminary Round Participant

---

**Marliana Ramos**

*Project Title: The Effect of Phosphorylation of Wiskott-Aldrich Syndrome protein (WASp) on Podosome Formation*

NYCSEF Preliminary Round Participant

---

**Karla Romero**

*Project Title: Energy Efficiency in Autonomous Vehicles*

NYCSEF Preliminary Round Participant
Saadjo Sow  
*Project Title: the effect of french colonization on colonial Senegal, present day Senegal and Senegalese Immigrants.*

NYCSEF Preliminary Round Participant

Sarah Tapia  
*Project Title: BSF - Role of the Medial Dorsal Nucleus in Apical Dendritic Development in the Prefrontal Cortex*

NYCSEF Preliminary Round Participant

Djamila Tcheifa  
*Project Title: BSF - Role of the Medial Dorsal Nucleus in Apical Dendritic Development in the Prefrontal Cortex*

NYCSEF Preliminary Round Participant

Nicole Terc  
*Project Title: Effects of Racism on Psychological Well-Being*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
Department of Health and Human Services  
NYCSEF Third Award

Raychell Velez  
*Project Title: A Study of the Effect of Acidity and Salinity on Plant Growth*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Regina Catague  
*Project Title: Identifying the Association Between the Common Variants of MACROD2 and Autism Spectrum Disorder*  
NYCSEF Preliminary Round Participant

Andrew Cha  
*Project Title: What is the EPAC-1/2’s signaling pathway’s role in the inhibition of Osteoclast Differentiation by the A2A Receptor?*  
NYCSEF Preliminary Round Participant

Matthew Chan  
*Project Title: Novel Anatomic Architecture of the Cancer Stem Cell (CSC) Niche and Plating Efficiency & Radiation Sensitivity of CSCs*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award  
US Navy and Marine Corps

Ahrisue Choi  
*Project Title: Statistical Analysis of Stock Prices: Proof that Mean Reversion Exists & Whether Profit/Loss is Guaranteed*  
NYCSEF Preliminary Round Participant

Ruby Chung  
*Project Title: Effectiveness of Perioperative Antibiotics for Prevention of Breast Infections Following Mastectomy with Breast Reconstructive Surgery*  
NYCSEF Preliminary Round Participant

Lily Coad  
*Project Title: The Relationship Between Adolescent Eating Disorders and Emotional, Social, and Environmental Factors*  
NYCSEF Preliminary Round Participant

Bronx High School of Science

Siddharth Ahsan  
*Project Title: The Importance of Skin Color in Facial Recognition*  
NYCSEF Preliminary Round Participant

Raisa Alam  
*Project Title: Assessment of Multiphoton Microscopy in Photodynamic Diagnostics and Therapy for Theranostic Treatment of Cancer*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Jacqueline Cortez  
*Project Title: The apolipoprotein-e2 allele in cognitively intact elderly probands and familial protection against dementia*  
NYCSEF Preliminary Round Participant
Epshita Das
Project Title: Relationship Between Notch Signaling Receptors and Lymphatic Malformations
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

George Friedlander
Project Title: Computing The Groups Of Automorphisms Of Ring Extensions Of The Rationals That Fix Exactly Q
NYCSEF Preliminary Round Participant

Sanya Goswami
Project Title: Genetics Analysis of IgA Nephropathy by Sanger Sequencing
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF First Award
The City University of New York Scholarship - City College of New York

Alexander Gould
Project Title: A New Foundational Approach for Analysis and Prediction of Endemic Processes in Social Networks
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award
The City University of New York Scholarship - City College of New York

Yiwen Huang
Project Title: Reworking the Problem: ESR Dating Tooth Enamel in Pesturina, Serbia
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Association for Women Geoscientists
NYCSEF Third Award

Tanseela Islam
Project Title: Tooth-colored Fillings and Neuropsychological Function in Adults
NYCSEF Preliminary Round Participant

Akshay Jain
Project Title: The Effects of Phytoplasma Infection on the Leaf Morphology of Juniperus chinensis
NYCSEF Preliminary Round Participant

Pratima Jurakan
Project Title: Gene Expression Patterns Determined by RNA FISH to improve predictive accuracy for breast cancer prognosis.
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Alice Kallman
Project Title: The Effect of Stigma on Acceptance into Social Roles
NYCSEF Preliminary Round Participant

Alexandra LaGrassa
Project Title: Using Ligands to Control the Growth Kinetics of Cadmium Selenide Clusters
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF First Award

Darien Lin
Project Title: Method to produce overexpressing of CSK in A20 cells
NYCSEF Preliminary Round Participant

Luther Lu
Project Title: Palladium-based catalysts for the methane to methanol conversion as a new energy source
NYCSEF Preliminary Round Participant

Sam Maeglin
Project Title: Assessing the Predictive Value of 18FDG-PET Using Tumor-Based Optimized Number of Iterations
NYCSEF Preliminary Round Participant

Mansi Maini
Project Title: Retrospective analysis of the effects of ionic vs. non-ionic contrast media on CKMB levels
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Samuel Minick
Project Title: The Role of Acetaminophen Metabolites on Glioma Cell Growth
NYCSEF Preliminary Round Participant


Cecilia Moog
Project Title: Two Routes to Stem Cell Formation in Plants
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Michael Raevsky
Project Title: Soddy Sphere Packings™ Construction Theorems and evidence of their Curvatures™ Log-normality under the Local-to-Global Theorem
NYCSEF Preliminary Round Participant

Michael Moore
Project Title: Improvements in the efficiency of mitochondrial biofuels through modeling of thermodynamic efficiency of the electron transport chain
NYCSEF Preliminary Round Participant

Tahina Mukit
Project Title: Detection of Malaria in Previously Collected Blood Samples
NYCSEF Preliminary Round Participant

American Meteorological Society
NYCSEF Third Award

Brian Nan
Project Title: The Effect of Tau Aggregation on the Autophagy-Lysosome System
NYCSEF Preliminary Round Participant

Praveen Rammohan
Project Title: The Role of Serotonin in Impulsivity in Mice
NYCSEF Preliminary Round Participant

Meghna Narayan
Project Title: A Novel Analysis and Predictive Risk Model of Chronic Diseases: A Markov Chain Monte Carlo Simulated Study on the Rising Incidence of Type II Diabetes Mellitus in the Youth
NYCSEF Preliminary Round Participant

Felix Rozenberg
Project Title: Mitochondrial Dysfunction Caused by Cholesterol-Induced Cytochrome C Damage is Attenuated by Mitochondrial Protective Peptides
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Second Award

Monisa Nayim
Project Title: Effect of antiepileptic drugs on efficacy of seizures generated by mutations in the sodium channel SCN1A gene.
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Violetta Rucinski
Project Title: The effect of perinatal lesioning of the medial dorsal nucleus on the CA3 region of the hippocampus on young adults
NYCSEF Preliminary Round Participant

Sumit Saha
Project Title: Possible Role of His-133 Phosphorylation on G-Actin Regulation
NYCSEF Preliminary Round Participant

Kelly Pellegrino
Project Title: The Effect of Varying Methods of Recall on the Accuracy of Memories
NYCSEF Preliminary Round Participant

Spencer Shapiro
Project Title: The Economic Assimilation of Cuban Immigrants and its Impact on Future Immigration in the United States
NYCSEF Preliminary Round Participant

Hol Seo
Project Title: Enumerating Acyclically Oriented Subgraphs
NYCSEF Preliminary Round Participant

Joey Pan
Project Title: Tactile and Audio Games for the Visually Impaired
NYCSEF Preliminary Round Participant

Kelly Pellegrino
Project Title: The Effect of Varying Methods of Recall on the Accuracy of Memories
NYCSEF Preliminary Round Participant
Dachi Tan  
*Project Title:* Violation of Heisenberg Limit with Nonlinear Phase Shifts  
NYCSEF Preliminary Round Participant

Evan Tatnall  
*Project Title:* Tests of Accuracy, Omission Error, and Response Time in Children Ages 7-15 with and without ADHD  
NYCSEF Preliminary Round Participant

Maharshi Thakker  
*Project Title:* Discovering the Mechanism Through which TGFB Works: Fibroblast Activated Protein and Cancer Associated Fibroblast Analysis  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Gabriela Thorne  
*Project Title:* Mouse Micro-Organ Lung Tissue Culture Model for Long-Term Cell Viability and Function  
NYCSEF Preliminary Round Participant

Vivek Trivedi  
*Project Title:* Stabilizing Nature of Intrinsically Bursting Neurons Suggests Novel Method to Treating Refractory Epilepsy  
NYCSEF Preliminary Round Participant

Anna Trott-Herdrich  
*Project Title:* Water Water Everywhere: new methodology and quantitative model for environmental conservation and water conservation  
NYCSEF Preliminary Round Participant

Julia Vinagolu-Baur  
*Project Title:* The Effect of Different Solvents and Fluorescent Molecules on the Stability of PLGA-PE Nanoparticles  
NYCSEF Preliminary Round Participant

Yuqing Wang  
*Project Title:* New Quantitative Methodology for Identification of Drug Abuse Based on Feature-Based Context-Free Grammar  
NYCSEF Preliminary Round Participant

Byron Wasti  
*Project Title:* Mobility Measurements of MoS2 on CNO  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Jingyu Yao  
*Project Title:* Empirical modeling of fault regions with natural erosion and fault uplift  
NYCSEF Preliminary Round Participant

Anthea Ye  
*Project Title:* Benchmark Proof of Sensitivity to Temporal Order of Events under Masked Stimuli  
NYCSEF Preliminary Round Participant

Andrew Zhang  
*Project Title:* Novel Anatomic Architecture of the Cancer Stem Cell (CSC) Niche and Plating Efficiency & Radiation Sensitivity of CSCs  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Yu Zheng  
*Project Title:* Observation of CHOP and XBP1 Expression in mRNA after Treatment of DU145 cells with NSC100nM for Different Time Periods  
NYCSEF Preliminary Round Participant

Bronx Latin School, The  
Nenekade Bah  
*Project Title:* BSF Evaluation of the action of chemical pollutants upon the surface of different materials used in the electronic industry - Proof of concept  
NYCSEF Preliminary Round Participant

Aicha Fofana  
*Project Title:* Possible Dendritic Alterations on Cortical Pyramidal Neurons in Area 9 of Schizophrenic Patients  
NYCSEF Preliminary Round Participant
Yaneska Mejia
*Project Title:* BSF Evaluation of the action of chemical pollutants upon the surface of different materials used in the electronic industry - Proof of concept
NYCSEF Preliminary Round Participant

Jose Ramirez
*Project Title:* BSF Evaluation of the action of chemical pollutants upon the surface of different materials used in the electronic industry - Proof of concept
NYCSEF Preliminary Round Participant

Bronxwood Preparatory Academy
Jahnelle Martin-Howe
*Project Title:* Arsenic transport and accumulation in rice
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Columbus Institute of Math and Science
Abeera Nadeem
*Project Title:* Bioinformatics approach leads to putative identification of carotene hydroxylase enzyme in the green alga Chlamydomonas reinhardtii
NYCSEF Preliminary Round Participant

DeWitt Clinton High School
Jonathan Dalloo
*Project Title:* The Potential Decomposition of Organic Matter in Soil and its Impact on the Atmospheric Carbon Pool
NYCSEF Preliminary Round Participant

Herbert H. Lehman High School
Noor Fatima
*Project Title:* Study the mechanism of the anti-cancer activity of an IL-10-related cytokine, IL-24.
NYCSEF Preliminary Round Participant

High School of Computers and Technology
Romina Burger
*Project Title:* Educators’ Perceptions of the Inclusion of DMT in a Classroom Setting
NYCSEF Preliminary Round Participant

Horace Mann High School
Julie Aaron
*Project Title:* Conserving Art by Determining the Most Durable Chemically Combined Paint
NYCSEF Preliminary Round Participant

Sahil Gupta
*Project Title:* A Study of Quantum Locking
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ASM Materials Education Foundation
NYCSEF Second Award

Jeffrey Weiner
*Project Title:* Granular Flow
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

In-Tech Academy (M.S./ High School 368)
Kevin Narine
*Project Title:* Possible Dendritic Alterations on Cortical Pyramidal Neurons in Area 9 of Schizophrenic Patients
NYCSEF Preliminary Round Participant

International Community High School
Michael Herrera
*Project Title:* The Effect of Vitamin C on the Seed Germination of Vigna radiata
NYCSEF Preliminary Round Participant

Michael Reyes
*Project Title:* The Effect of Vitamin C on the Seed Germination of Vigna radiata
NYCSEF Preliminary Round Participant

International Leadership Charter School
Chandani Jagmohan
*Project Title:* Stability of Molecular Hydrogen Inside Fullerenes
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award
Leslee Ramos  
Project Title: Stability of Molecular Hydrogen Inside Fullerenes  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award  

Marble Hill High School for International Studies  
Tiffany Addo  
Project Title: Using different salinities to predict the effect of global warming on organisms, particularly Artemia hatch rates  
NYCSEF Preliminary Round Participant  

Turiana Mantuano  
Project Title: Using different salinities to predict the effect of global warming on organisms, particularly Artemia hatch rates  
NYCSEF Preliminary Round Participant  

Pelham Preparatory Academy  
Joy George  
Project Title: Bioinformatics approach leads to putative identification of carotene hydroxylase enzyme in the green alga Chlamydomonas reinhardtii  
NYCSEF Preliminary Round Participant  

Riverdale Country School  
Rebecca Flowers  
Project Title: Underwater observation of the quantity of Echeneis naucrates on male and female Carcharias leucas  
NYCSEF Preliminary Round Participant  

SAR High School  
Aaron Liberman  
Project Title: Characterizing novel HPV types through the techniques of Rolling Circle Amplification and Polymerase Chain Reaction  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award  

Olivia Rosenzweig  
Project Title: Stereotactic Body Radiation Therapy for Hepatocellular Carcinoma Prior to Liver Transplantation  
NYCSEF Preliminary Round Participant  

Women's Academy of Excellence  
Ashleigh Francis  
Project Title: Bioinformatics approach leads to putative identification of carotene hydroxylase enzyme in the green alga Chlamydomonas reinhardtii  
NYCSEF Preliminary Round Participant  

Brooklyn  
Abraham Lincoln High School  
Onur Calikusu  
Project Title: How do "smart phones" and their use before sleep affect the quality of sleep?  
NYCSEF Preliminary Round Participant  

Sikandar Cheema  
Project Title: Does hemispheric dominance and handedness affect academic success?  
NYCSEF Preliminary Round Participant  

Neal Dolzhanskiy  
Project Title: How do "smart phones" and their use before sleep affect the quality of sleep?  
NYCSEF Preliminary Round Participant  

Huma Kazi  
Project Title: Does the use of colored paper improve concentration or retention?  
NYCSEF Preliminary Round Participant  

Mehriniso Khaydarova  
Project Title: Can using mnemonics improve our memory  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award  

Orlando Leech  
Project Title: Does scarcity affect decision making?  
NYCSEF Preliminary Round Participant  

Calvin Li  
Project Title: Does hemispheric dominance and handedness affect academic success?  
NYCSEF Preliminary Round Participant
Mohammad Mahmud  
*Project Title:* Does hemispheric dominance and handedness affect academic success?  
NYCSEF Preliminary Round Participant

Azra Malik  
*Project Title:* Fecundity in the drosophila melanogaster under sexually isolated conditions.  
NYCSEF Preliminary Round Participant

Mikiann McIntosh  
*Project Title:* Can using mnemonics improve our memory  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Malika Nasriddinova  
*Project Title:* Does the use of colored paper improve concentration or retention?  
NYCSEF Preliminary Round Participant

Trung Phan  
*Project Title:* The Effect of Photo-Shopped Images of Idealized Bodies in Advertisements on the Self-Esteem of Adults  
NYCSEF Preliminary Round Participant

Darhan Rzaev  
*Project Title:* Does scarcity affect decision making?  
NYCSEF Preliminary Round Participant

Ahmad Usman  
*Project Title:* The Effect of Photo-Shopped Images of Idealized Bodies in Advertisements on the Self-Esteem of Adults  
NYCSEF Preliminary Round Participant

Brooklyn Amity School  
Bilge Felek  
*Project Title:* Antibiotic delivery to local infection sites by using liposome encoded magnetic nanoparticles  
NYCSEF Preliminary Round Participant

Brooklyn Technical High School  
Tameem Ahmed  
*Project Title:* An Evaluation Of Toxic Emissions In Solid Oxide Fuel Cells.  
NYCSEF Preliminary Round Participant

Jonathan Cheng  
*Project Title:* Two Speed Shifting Transmission  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
Frank W. and Jan J. Stahl Memorial Award for Technical Excellence  
NYCSEF First Award  
Sarah and Morris Wiesenthal Science Awards

Alexander Chong  
*Project Title:* Investigation of Bacterial Levels in NYC Waterways Following Hurricane Sandy  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
American Meteorological Society  
NYCSEF Third Award  
Stockholm Junior Water Prize

Eva Justo  
*Project Title:* Investigation of Bacterial Levels in NYC Waterways Following Hurricane Sandy  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
American Meteorological Society  
NYCSEF Third Award  
Stockholm Junior Water Prize

Aamnah Khan  
*Project Title:* The Development and Testing of an Aniphibous Tranquilizing Dart Rifle.  
NYCSEF Preliminary Round Participant

Arjun Krishna  
*Project Title:* The Development and Testing of a Drone Solar Hydrogen Electric Rocket Plane  
NYCSEF Preliminary Round Participant

Elaine Wong  
*Project Title:* Investigation of Bacterial Levels in NYC Waterways Following Hurricane Sandy  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
American Meteorological Society  
NYCSEF Third Award
Stockholm Junior Water Prize

**Edward R. Murrow High School**

**Minhazur Bhuiyan**  
*Project Title:* The Use of Photoresistors as an Alternative to Accelerometers for Wrist Movement Detection in a Glove Controller  
NYCSEF Preliminary Round Participant

**Henry Blazer**  
*Project Title:* Bad Habits and Their Fat Friends: The Effects of Adolescent Procrastination and Time Management on Sugar and Fat Consumption  
NYCSEF Preliminary Round Participant

**Mya Brady**  
*Project Title:* The antibacterial and antifungal effect of Cocos nucifera and coconut water on Staphylococcus epidermidis, Escherichia coli and Aspergillus niger  
NYCSEF Preliminary Round Participant

**Samantha Brown**  
*Project Title:* Adolescent Attitude and Preschool Perception  
NYCSEF Preliminary Round Participant

**Brian Chen**  
*Project Title:* The Effect of UV-radiation on Diet, Mortality, and anhydrobiosis on Hypsibius dujardini  
NYCSEF Preliminary Round Participant

**Maggie Chen**  
*Project Title:* The Effect of water quality from Coney Island Beach and Caesars Bay Bazaar on the development and mortality of Artemia salina  
NYCSEF Preliminary Round Participant

**Sherry Cheung**  
*Project Title:* Removal of Iron and Copper ions from Aqueous Solutions with Laminariales saccharina by Biosorption  
NYCSEF Preliminary Round Participant

**Lila Cohen**  
*Project Title:* The Effect of Thymus Vulgarus Essential Oil on Staphylococcus epidermidis and Escherichia coli  
NYCSEF Preliminary Round Participant

**Charlotte Fenton**  
*Project Title:* The Effectiveness of Lilium in Reducing Hard Water  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

**George Gandy**  
*Project Title:* The effect of Ficus Carica leaf extract on the survival rate of E coli  
NYCSEF Preliminary Round Participant

**Briana Gibaldi**  
*Project Title:* The Effects of methanol Chrysanthemum morifolium Extract on Gram Negative Escherichia coli and Gram Positive Bacillus subtilis  
NYCSEF Preliminary Round Participant

**Kallista Gonzalez**  
*Project Title:* Effects of Chromium Cr(III) on the Germination, Growth, and Development of the Rapid-Cycling Brassica  
NYCSEF Preliminary Round Participant

**Hanaa Habboub**  
*Project Title:* The Stability and Effectiveness of Hair Dye on Human Hair  
NYCSEF Preliminary Round Participant

**Simon Horowitz**  
*Project Title:* The effect of ozone air pollutant on the growth, germination, chlorophyll levels of Ipomoea indica and Papaver comutatum  
NYCSEF Preliminary Round Participant

**Enis Husejnovic**  
*Project Title:* Can we extract lipids from Pandorina Morum to create biodiesel fuel?  
NYCSEF Preliminary Round Participant

**Shaina Juarez**  
*Project Title:* The Effect of Different Concentrations of Carbon dioxide on the Growth and Luminous Intensity of Vibrio fischeri  
NYCSEF Preliminary Round Participant
Suzan Khavkin  
**Project Title:** The antibacterial and antifungal effect of Cocos nucifera and coconut water on Staphylococcus epidermidis, Escherichia coli and Aspergillus niger  
NYCSEF Preliminary Round Participant

Michelle Lam  
**Project Title:** Comparison of the effectiveness between a homemade repellent consisting of Cinnamomum cassia oil, Mentha arvensis oil and Taraxacum officinale extracts and the commercial Flying Insect Killer as repellent for Hippodamia convergens  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Jacob Lester  
**Project Title:** The Effects of HNO3 Treated Pollen on Hippodamia convergens  
NYCSEF Preliminary Round Participant

Sally Li  
**Project Title:** The Production of Antifungal and Antibacterial activities of Nitella subspicata sp. Extract on Staphylococcus epidermidis, Bacillus subtilis and Penicillium italicum  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Yee Man Li  
**Project Title:** Understanding How the Learning Experience Impacts Memory: Suggestions from Three Mice  
Ricoh Americas Corporation

ZiQi Liang  
**Project Title:** Removal of Iron and Copper ions from Aqueous Solutions with Laminariales saccharina by Biosorption  
NYCSEF Preliminary Round Participant

Ruoxin Lin  
**Project Title:** The Effect of Mg on the Inhibiting Actions of Abscisic Acid on the Growth, Cellular Respiration, and Chlorophyll Level of Glycine  
NYCSEF Preliminary Round Participant

Kimberly Louisor  
**Project Title:** The Effect of Nitric Acid on Chlorophyll and Carotenoids on Brassica Rapa Rapa Leaves  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Sofia Malmoli  
**Project Title:** The Effect Of Nitrate and Phosphate in Fresh Water Ponds in Prospect Park  
NYCSEF Preliminary Round Participant

Environmental Education Advisory Council

Eliana Marzullo  
**Project Title:** Digital Natives, Digital Newcomers: The Effects of Adolescents™ Perceptions of Parental Technological Intelligence on Perceptions of Parental Authority  
NYCSEF Preliminary Round Participant

Francesca Matias  
**Project Title:** The Effects of methanol Chrysanthemum morifolium Extract on Gram Negative Escherichia coli and Gram Positive Bacillus subtilis  
NYCSEF Preliminary Round Participant

Londeen Meachron  
**Project Title:** The Effect of Mg on the Inhibiting Actions of Abscisic Acid on the Growth, Cellular Respiration, and Chlorophyll Level of Glycine  
NYCSEF Preliminary Round Participant

Julia Moore  
**Project Title:** The Effects of Erythromycin on the Germination Rate and Growth and Arabidopsis thaliana  
NYCSEF Preliminary Round Participant

Crystal Ng  
**Project Title:** The Effect of L- Lysine on mortality and heart beat of Daphnia Magna  
NYCSEF Preliminary Round Participant

Margaret O’Neil  
**Project Title:** The inhibition action of oral tetracycline on Staphylococcus Epidermidis and Corynebacterium xerosis  
NYCSEF Preliminary Round Participant

Page 10 of 40
Mathena Ortiz  
*Project Title:* The Antifungal Effect of Balsamic vinegar and Red wine vinegar on Aspergillus niger  
NYCSEF Preliminary Round Participant

Taylor Owen  
*Project Title:* The effect of copper sulfate on oxygen stressed *Escherichia Coli*  
NYCSEF Preliminary Round Participant

Amber Puglisi  
*Project Title:* The effect of copper sulfate on oxygen stressed *Escherichia Coli*  
NYCSEF Preliminary Round Participant

Whitney Situ  
*Project Title:* The Production of Antifungal and Antibacterial activities of Nitella subspicata sp. Extract on *Staphylococcus epidermidis, Bacillus subtilis* and *Penicillium italicum*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award  
Ricoh Americas Corporation

Nuriya Sohnis  
*Project Title:* The Effects of Ocean Acidification and Fe contamination on the Feeding Habits of *Aiptasia pallida* Using Brachionus plicatilis  
NYCSEF Preliminary Round Participant

Tasfia Tabassum  
*Project Title:* The Process and Efficiency of Phytoremediation by Hydroponically Grown Ipomoea tricolor and Lobularia maritima Plants in Copper-Contaminated Water and Their Tolerance of Excess Copper  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF First Award

Ruoyu Wang  
*Project Title:* Comparison of the effectiveness between a homemade repellent consisting of *Cinnamomum cassia* oil, *Mentha arvensis* oil and *Taraxacum officinale* extracts and the commercial Flying Insect Killer as repellent for *Hippodamia convergens*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award

Tomasz Wiercioch  
*Project Title:* The effect of flame on the dimensions created on cloth with Modified Boric Acid, Monoammonium Phosphate and Dioammonium or sodium chloride(NaCl) H2O applied  
NYCSEF Preliminary Round Participant

Julie Yaish  
*Project Title:* The Effects of substrates on Emission Rates of CO2 in New York City soils  
NYCSEF Preliminary Round Participant

Mario Yi  
*Project Title:* The Effects of UVB Radiation and Phosphorous on *Volvox globator*  
NYCSEF Preliminary Round Participant

James Madison High School  
Daniel He  
*Project Title:* A Novel Approach for Determining Earthquake Loss Using a New Mathematic Model  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award  
Mu Alpha Theta  
NYCSEF Second Award

Airin Kashem  
*Project Title:* The Effects of Particular Extracts on Termite Behavior  
NYCSEF Preliminary Round Participant

Mateen Yousaf  
*Project Title:* CAN THE COMPRESSION AND FLEXION OF RECYCLED AGGREGATE CONCRETE BE IMPROVED?  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
Michael G. Mann Award  
NYCSEF Third Award

Lenura Ziyadinova  
*Project Title:* Exploring motor neuron diversity in *Caenorhabditis elegans* worms  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Magen David Yeshiva High School
Albert Antar  
*Project Title: Maximum Speed Limit* 
NYCSEF Preliminary Round Participant

David Hedaya  
*Project Title: Can Optical Lenses Improve the Performance of an Argon Blue-Dot Laser?* 
NYCSEF Preliminary Round Participant

Jake Sutton  
*Project Title: THE PREVALENCE OF MYOPIA IN ORTHODOX JEWISH HIGH SCHOOL POPULATIONS: ASHKENAZI VS SEPHARDIC* 
NYCSEF Preliminary Round Participant

Midwood High School @ Brooklyn College  
**Allen Barbarovich**  
*Project Title: Link Between Systemic Cobalamin Deficiency and CNS Demyelination in a CD320/TCblR KO Mouse Model* 
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
ISEF Finalist - First Alternate  
NYCSEF First Award

**Yasmine Brown-Williams**  
*Project Title: The Effect of a High-Fat Diet on Whole-Body and Muscle Insulin Resistance* 
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award  
Society for In Vitro Biology

**Varvara Budetti**  
*Project Title: The Effects of Macroalgae on Benthic Biodiversity in Jamaica Bay* 
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award  
Stockholm Junior Water Prize

**Alisha Bunting**  
*Project Title: The Effects of Macroalgae on Benthic Biodiversity in Jamaica Bay* 
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award  
Stockholm Junior Water Prize

**Amy Cao**  
*Project Title: Synthesis of iron trisopropylsilylated vinylketene complexes* 
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

**Jelissa Castro**  
*Project Title: Barbie Dolls and Fire Trucks* 
NYCSEF Preliminary Round Participant  
Sarah and Morris Wiesenthal Science Awards

**Ariel Chan**  
*Project Title: The Differences Between Video Gamers and Non-Video Gamers: Multitasking and Memorization* 
NYCSEF Preliminary Round Participant

**Bryan Chan**  
*Project Title: Tumor-Targeted T Cells Enhanced with Costimulatory Signaling are an Effective Treatment for Cancer* 
NYCSEF Preliminary Round Participant

**Xin Yi Chen**  
*Project Title: Fermented Food Waste and Plant Growth: A Greenhouse Study* 
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
Association for Women Geoscientists  
NYCSEF Third Award  
The City University of New York Scholarship - Hunter College

**Sammi Chung**  
*Project Title: Electrode Size Effect on Microbial Fuel Cell* 
NYCSEF Preliminary Round Participant

**Irissa Cisternino**  
*Project Title: Gender Roles and Emotional Support* 
NYCSEF Preliminary Round Participant

**Ruth Dameus**  
*Project Title: Religions impact on prosocial behavior* 
NYCSEF Preliminary Round Participant

**Emira Dervishi**  
*Project Title: Sleep and Academic Performance* 
NYCSEF Preliminary Round Participant
Leonidas Eracleous
Project Title: Durability of Amalgams and Composites
NYCSEF Preliminary Round Participant

Samuel Genchikmakher
Project Title: Effect of an Audience on the Calling Behavior of Monk Parakeets
NYCSEF Preliminary Round Participant
Sarah and Morris Wiesenthal Science Awards

Kharene Gittens
Project Title: Removing Lead and Arsenic from Contaminated Soil
NYCSEF Preliminary Round Participant

Yekaterina Goncharova
Project Title: Parental Effect on Juvenile Smoking
NYCSEF Preliminary Round Participant

Ying Tong Guo
Project Title: Synthesis of iron triisopropylsilylated vinylketene complexes
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Alec Gurevich
Project Title: Read, Lead, Succeed: A Study of Reading Disparities Between Generations
NYCSEF Preliminary Round Participant

Julietta Gurgova
Project Title: Diverse Activities Prevent Memory Loss in Senior Citizens
NYCSEF Preliminary Round Participant

Tasnim Halim
Project Title: Myiopsitta Monachus, the monk parakeet, prefers Rosaceae, fruit tree wood, for the construction of nests
NYCSEF Preliminary Round Participant

Nora Hassan
Project Title: Influence of peer pressure on academic dishonesty amongst high school students
NYCSEF Preliminary Round Participant

Remi Henry
Project Title: Removing Lead and Arsenic from Contaminated Soil
NYCSEF Preliminary Round Participant

Stefanie Henry
Project Title: Promoting Repair of Damaged Corticospinal Tract
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Raquel Hosein
Project Title: Application of a Wireless Electrical Device for the Detection of Epilepsy
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Frank W. and Jan J. Stahl Memorial Award for Technical Excellence
ISEF Finalist - Second Alternate
NYCSEF First Award

Shadika Jahan
Project Title: Computer Vision Syndrome: A study on blink rates
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Joel Jose
Project Title: Mud Battery
NYCSEF Preliminary Round Participant

Mosammed Kabir
Project Title: Anti-cancer peptide PNC-27 associates with Mitochondria in Cancer Cells
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Taulant Kastrati
Project Title: Als5 and Flo11 adhesins in functional cell assays
NYCSEF Preliminary Round Participant

Jasmin Kim
Project Title: Electrode Size Effect on Microbial Fuel Cell
NYCSEF Preliminary Round Participant
Tommy Lam  
*Project Title:* The Effects of Procrastination on Academic Success  
NYCSEF Preliminary Round Participant

ROSANNE LEI  
*Project Title:* Differences in the decision-making process between males and females  
NYCSEF Preliminary Round Participant

Michelle Leung  
*Project Title:* The Negative Effects of Standardized Testing on Students  
NYCSEF Preliminary Round Participant

Cindy Li  
*Project Title:* Can Effective Microorganism (EM) Suppress pathogens in Wastewater?  
NYCSEF Preliminary Round Participant

Karen Li  
*Project Title:* Procrastination and Self-Regulation  
NYCSEF Preliminary Round Participant

Gloria Liang  
*Project Title:* The Bystander Effect  
NYCSEF Preliminary Round Participant

Jessica Liang  
*Project Title:* The Preparation of an iron cyclooctenyl ketene complex for use in organic synthesis  
NYCSEF Preliminary Round Participant

Mei Mei Liu  
*Project Title:* Negative Influences on Long-Term Relationships  
NYCSEF Preliminary Round Participant

Cynthia Liguichuzhca  
*Project Title:* Stereotypes of Immigrants Based on Skin Tone  
NYCSEF Preliminary Round Participant

Ellysa Magloire  
*Project Title:* Sodium Hypochlorite and Hydralazine  
NYCSEF Preliminary Round Participant

Tiffany Mai  
*Project Title:* Mammalian Cell Expression of M2e-HA1 Conserved Sequences of H5N1 Influenza Virus  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Kiara Nunez  
*Project Title:* Computer Vision Syndrome: A study on blink rates  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Chukwunonso Nwasike  
*Project Title:* Autophagy in Macrophages  
NYCSEF Preliminary Round Participant

Fionne Pham  
*Project Title:* Will Salt Accumulate in Bioswale Soil?  
NYCSEF Preliminary Round Participant

Akeem Pinnock  
*Project Title:* Iron's Involvement in the Diagnosis of Lupus  
NYCSEF Preliminary Round Participant

Vanessa Salvador  
*Project Title:* Racial Identification and Preference in Children  
NYCSEF Preliminary Round Participant

Alex Shields-Weber  
*Project Title:* Parental influence on teen political views and participation  
NYCSEF Preliminary Round Participant

Ruth-Ann Small  
*Project Title:* The Affect of Parent Education and Employment Class on the Assimilation of First Generation Immigrant Students  
NYCSEF Preliminary Round Participant

Adam Soliman  
*Project Title:* Promoting Regeneration of RLN using Li+ Administration  
NYCSEF Preliminary Round Participant
Anastasiya Tomusyak
*Project Title:* Ukrainian Nationalism
NYCSEF Preliminary Round Participant

Hector Torres
*Project Title:* Friendships and Self-Esteem
NYCSEF Preliminary Round Participant

Jeffrey Tsui
*Project Title:* Brooklyn Monk Parakeet Respond to Recorded Alarm Calls From Florida, Uruguay, and Brazil
NYCSEF Preliminary Round Participant

Chrstal Wong
*Project Title:* Dating Preferences among Female Chinese Teenagers
NYCSEF Preliminary Round Participant

Ashley Yip
*Project Title:* A Simple Design to Help Soil Retain Water on Greenroofs
NYCSEF Preliminary Round Participant

Jonathan Yuen
*Project Title:* Mud Battery
NYCSEF Preliminary Round Participant

Yi Zhang
*Project Title:* Peer Pressure has a Negative Affect on Academic Performances in Teens
NYCSEF Preliminary Round Participant

Packer Collegiate Institute
Anna-Serena Baum
*Project Title:* Advanced Paternal Age and Dementia: A Family History Study
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
American Psychological Association
NYCSEF Third Award

Raphael Santore
*Project Title:* The Role of PakD on the Adhesion of Dictyostelium Discoideum to a Substrate
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Polytech Preparatory Country Day School
Eva Philips
*Project Title:* The Genotoxicity Potential of Nutraceuticals
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF First Award

Emma Rodney
*Project Title:* Slow Learning of Unfamiliar Letters Predicts Slow Reading of English Letters
NYCSEF Preliminary Round Participant

School for Classics: An Academy of Thinkers, Writers and Performers
JaziahBrittney Henriquez-Richie
*Project Title:* Qualitative Analysis of Water Samples from Fresh Creek Nature Preserve and Spring Creek Park
NYCSEF Preliminary Round Participant
Brooklyn Friends of Clearwater

Andrea Rose
*Project Title:* Qualitative Analysis of Water Samples from Fresh Creek Nature Preserve and Spring Creek Park
NYCSEF Preliminary Round Participant
Brooklyn Friends of Clearwater

Urban Assembly New York Harbor High School
Pablo Jimenez
*Project Title:* Can Crassotrea Virginica Filter Enterococcus Feacalis?
NYCSEF Preliminary Round Participant

Manhattan
Abraham Joshua Heschel School
Alexis Engel
Project Title: Iron Response Element Conformation Changes Induced By Manganese Ion
NYCSEF Preliminary Round Participant

Emma Fruchtman
Project Title: The Pathomechanism of Endometriosis
NYCSEF Preliminary Round Participant

Maxwell Goldberg
Project Title: Nano Particle Encapsulation of Human Hemoglobin
NYCSEF Preliminary Round Participant

Daniella Nevid
Project Title: Cell Tolerance in DNA-Reactive B Cells
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Yuval Pearl
Project Title: Implications for Paleoecological Reconstruction of n-Acid and n-Alcohol Concentrations in Arctic Plant Leaf Waxes
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

David Polovets
Project Title: CBV f-MRI, A New Diagnostic Tool for AD?
NYCSEF Preliminary Round Participant

Heila Precel
Project Title: The Neuroimaging of Disgust-Related Olfaction in Contamination Subtype OCD
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
American Psychological Association
NYCSEF First Award

Sylvie Rosen
Project Title: Comparing the Effectiveness of Piermont marsh in New York to Constructed Marshes on Degrading PPCPs
NYCSEF Preliminary Round Participant

Jonathan Safdie
Project Title: Can Osteoprotegerin Protect β Cells Against Genotoxic and Endoplasmic Reticulum Stress-Induced Cell Death?
NYCSEF Preliminary Round Participant

Zachary Stein
Project Title: Analyzing the BRCA1 Complex in Relation to Breast Cancer Through the Co-Immunoprecipitation Method
NYCSEF Preliminary Round Participant

Michael Steinberg
Project Title: The Effect of Being Identifiable in Groups on Helping and the Bystander Effect
NYCSEF Preliminary Round Participant

Arielle Tannin
Project Title: Studying the Effects of Integration on Memory Retrieval
NYCSEF Preliminary Round Participant

Fanny Wolfowitz
Project Title: Curcumin Decreases Viability of U87 Human Glioblastoma Cell Line
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Brearley School
Sara Sakowitz
Project Title: A Novel Approach for Metastatic Breast Cancer Therapy: Pharmacological Inhibition of EZH2 Histone Methyl Transferase Activity Suppresses Cancer Stem Cells and Induces Epithelial Phenotype
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ISEF Finalist
NYCSEF First Award

Dalton School
Leighton Braunstein
Project Title: Adolescent Loss of Lis1 Results in Defective Hippocampal Morphology and Distinct Behavioral Deficits Resembling a Schizophrenic-like Phenotype
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ISEF Finalist
NYCSEF First Award

Yinge Zhao
Project Title: Cardiolipin-targeted Peptides Inhibit Alzheimer’s Beta-Amyloid Oligomer Toxicity through a Two-hit Approach: Fibril Formation and Reduction of Newly Characterized Oxygenase Activity

ISEF Finalist
NYCSEF First Award

Dwight School, The
SeiMi Chu
Project Title: Reworking the Problem: ESR Dating Tooth Enamel in Pesturina, Serbia

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

High School for Environmental Studies
Dong Yi Chen
Project Title: EXPERIMENTAL STUDY OF THE STRESS-STRAIN BEHAVIORS OF UNSATURATED AND SATURATED SANDS UNDER LOW STRAIN RATE LOADING

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

High School for Health Professions & Human Services
Selena Brazley
Project Title: Solving Issues in Pharmacies: How Pharmacists and Doctors Can Prevent Prescription Errors

NYCSEF Preliminary Round Participant

Fiona Chen
Project Title: Adequacy of Traditional Verbal Informed Consent versus Patient-Directed Standardized Written Consent: Are non-English speaking patients being cared for adequately?

NYCSEF Preliminary Round Participant

Lisset Duran
Project Title: Correlation Between Environmental Effects & Canine Intelligence

NYCSEF Preliminary Round Participant

Gurjeet Johal
Project Title: Does Gender Influence Outcomes? - A sex-based analysis of a migraine clinical trial.

NYCSEF Preliminary Round Participant

Sanjay Mahadeo
Project Title: The Effect of Music on Concentration and Memory

NYCSEF Preliminary Round Participant

Tawanna McPherson
Project Title: The effect of physiological psycholoy and memory on the effect of witness cognition recall

NYCSEF Preliminary Round Participant

High School for Mathematics, Science and Engineering @ CCNY
Juan Castaneda
Project Title: Morpholino Knockdown of Galectin-9 in Zebrafish Larvae: Impact on Kidney Morphology and Function

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

Kharizza-Alleth Empedrado
Project Title: Effects of Growth Factors on Wounded Corneal Cells

NYCSEF Preliminary Round Participant

Jenny Gao
Project Title: Changes in Induced Pluripotent Stem Cell Reprogramming With and Without microRNAs

NYCSEF Preliminary Round Participant

Andrea Guerrero
Project Title: Effects of Growth Factors on Wounded Corneal Cells

NYCSEF Preliminary Round Participant

Thaiyeba Jalil
Project Title: Probing Isoforms of an Eicosanoid Clearance Enzyme for Functions in Humans

NYCSEF Preliminary Round Participant
Vaishvi Jhaveri  
**Project Title:** Defining the Frequency and Mechanism of Dysregulated MTAP Splice Variant Expression in Osteosarcoma  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Second Award

**Joan Lee**  
**Project Title:** Tracking CDC42 in mammary tissue as a possible biomarker for metastasis following HMTV infection in vitro  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award  
Society for In Vitro Biology

**Austin Lomax**  
**Project Title:** Growth of Antibiotic Resistance in E. Coli from Patience Negligence of Dosage Regimens  
NYCSEF Preliminary Round Participant

**William Pan**  
**Project Title:** Regulation of LRRK2 Through PIRB: An Insight into Brain Inflammation and Parkinson's Disease  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

**Byung Min Park**  
**Project Title:** Next-Generation Sequencing for the Detection of Mutations Associated with Rare Mendelian Disorders in Patients Meeting Diagnostic Criteria for Primary Progressive Multiple Sclerosis (PPMS)  
NYCSEF Preliminary Round Participant

**Jin Park**  
**Project Title:** Defining the Frequency and Mechanism of Dysregulated MTAP Splice Variant Expression in Osteosarcoma  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Second Award

**Kaylah-Marie Tomlinson**  
**Project Title:** Using qPCR to Validate the Upregulation of Glutamate Related Genes in Heroin Users  
NYCSEF Preliminary Round Participant

**Taisa Vasilkova**  
**Project Title:** Tissue Oxygenation Properties in Patients with Sickle Cell Anemia  
NYCSEF Preliminary Round Participant

**Hunter College High School**

**Alexander Chan**  
**Project Title:** Touchpad Input as a Biometric Identifier  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF First Award  
Yale Science and Engineering Association

**Stefan Colton**  
**Project Title:** Helping the Blind Perceive Their Surroundings Through Sound Localization  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Second Award  
US Navy and Marine Corps

**Axel Feldmann**  
**Project Title:** Search Engine to Map FDA Approved Drugs to Diseases based on Microarray Data Mined from GEO  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Intel Excellence in Computer Science  
ISEF Finalist

NYCSEF First Award  
Yale Science and Engineering Association

**Julian Glowacz**  
**Project Title:** Novel Iterative Methodologies in the Search for a Universally-Functional DNA Barcode for Plants  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

ISEF Finalist

NYCSEF First Award

**Jaison Jain**  
**Project Title:** Novel Iterative Methodologies in the Search for a Universally-Functional DNA Barcode for Plants  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

ISEF Finalist

NYCSEF First Award
Christopher Lee
Project Title: Detecting the Prostate Cancer Biomarker uPA with Carbon Nanotube Fluorescence
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award
Society for In Vitro Biology

Stephen Leong
Project Title: Correlation Networking of Speech Production: Examining the Brain With Comparative Graph Analysis
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Erica Lin
Project Title: Epithelial Mesenchymal Transition Contributes to Perineural Invasion in Pancreatic Adenocarcinoma
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ISEF Finalist
NYCSEF First Award
Society for In Vitro Biology

Noah Miller
Project Title: Helping the Blind Perceive Their Surroundings Through Sound Localization
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award
US Navy and Marine Corps

Margarita Ren
Project Title: Cardiolipin-targeted Peptides Inhibit Alzheimer’s Beta-Amyloid Oligomer Toxicity through a Two-hit Approach: Fibril Formation and Reduction of Newly Characterized Oxygenase Activity
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ISEF Finalist
NYCSEF First Award

Karina Xie
Project Title: Overcoming a Novel Resistance Mechanism in Sarcomas: Positive Feedback Activation of PDGFRβ after MEK inhibition in Malignant Peripheral Nerve Sheath Tumor (MPNST)
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Glenn Yu
Project Title: Spectroscopic Characterization of Polar Metabolites in Potato Tuber Periderms
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF First Award
US Metric Association
Yale Science and Engineering Association

Alison Zhao
Project Title: Transcriptional silencing in Saccharomyces cerevisiae is influenced by promoter strength and chromatin architecture
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Kelley Zhao
Project Title: Glia-Mediated Neurodegeneration in the Drosophila melanogaster CNS
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Institute for Collaborative Education

Sabrina Armesto
Project Title: The Effect of Implicit Racial Stereotypes upon Perception of Employment Categories
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Department of Health and Human Services
NYCSEF Third Award

Ava Chambers
Project Title: Difference in Male and Female Sound Symbolism and Word Association
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Michael Fera
Project Title: The Effect of Dietary Health, Body Mass Index, and Peer-induced Stress on Test Performance
NYCSEF Preliminary Round Participant
Madeleine Galvin  
Project Title: The Correlation Between Facial Dominance and Occupational Success in Women  
NYCSEF Preliminary Round Participant

Max Gertler  
Project Title: The Effect of Lyrical and Instrumental Cues on Short Term Memory  
NYCSEF Preliminary Round Participant

Arielle Gironza  
Project Title: The Effect of a dietary caffeine-taurine solution and aspartame upon spatial learning in blaberus discoidalis cockroaches.  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award

Leon Gonzalez  
Project Title: Integration Between Eyes and Antennae in a Microstimulation Task for Adult Blaberus discoidalis  
NYCSEF Preliminary Round Participant

Sophie Haber  
Project Title: The Effect of Time and Unconscious Thought on Moral Judgment  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Alexander Lemonides  
Project Title: The Effect of Maintained Deception on Pupil Diameter  
NYCSEF Preliminary Round Participant

Emma Livingston  
Project Title: The Effect of Herbicides on the Spontaneous Nerve Impulses of Earthworms (Eisenia Fetida)  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award

Lindsay Riley  
Project Title: The Effect of iPhone Brightness Upon Recall Times and Accuracy  
NYCSEF Preliminary Round Participant

Sadie Solomon  
Project Title: The Effect of Reinforcement on Children with Perceived Anxiety During Cognitive Tasks  
NYCSEF Preliminary Round Participant

Emma Sprague  
Project Title: The Effect of Visual Distraction and Multitasking on Reaction Times  
NYCSEF Preliminary Round Participant

Hannah Wing  
Project Title: The Effect of Transracial Adoption on the Other-Race Effect (ORE)  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
American Psychological Association  
NYCSEF First Award

Manhattan Center for Science & Mathematics  
Sukhanpreet Kaur  
Project Title: Using Deformation to Produce Triboluminscence  
NYCSEF Preliminary Round Participant

Mohammedasad Khan  
Project Title: Regulation of the actin cytoskeleton in Dictyostelium discoideum: the interaction between a protein kinase, TklA and a phospholipase, PldB  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Shriraj Shah  
Project Title: Regulation of the actin cytoskeleton in Dictyostelium discoideum: the interaction between a protein kinase, TklA and a phospholipase, PldB  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Stuyvesant High School  
David Cahn  
Project Title: The Relationship Between Functional Connectivity and BOLD Magnitude Explains Sustained Attention Deficits in Schizophrenia  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF First Award
Jack Cahn  
*Project Title:* The Dorsomedial Prefrontal Cortex Is Sensitive to Uncertainty, Not Arousal  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF First Award

Anthony Chan  
*Project Title:* Adolescent Self-Esteem: What Makes High School Seniors Feel More or Less Self-Worth?  
NYCSEF Preliminary Round Participant

Doris Chen  
*Project Title:* Obtaining Superhydrophobicity by Studying the Contact Angles for Teflon in Different Interfaces along with Magic Sand’s Effect on PDMS  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award

Kelly Chen  
*Project Title:* On the Horns of a Dilemma: ESR Dating the Middle-Upper Paleolithic Transition at Grotte du Bison, Yonne, France  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award

Peter Chen  
*Project Title:* Growing Rice Aerobically in Arsenic Contaminated Soil Increases the Growth Efficiency of Rice Plants  
NYCSEF Preliminary Round Participant

Yi Fan Chen  
*Project Title:* The Role of MAPK/ERK Signaling Pathway in HPV Infections  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award

Sebastian Conybeare  
*Project Title:* Canonical Numbering and Orbit Enumeration for Acyclic Graphs  
NYCSEF Preliminary Round Participant

Soham Daga  
*Project Title:* Using Google Trends to Enhance Predictive Models of Mortgage Delinquency to Mitigate Risk in the Loan Lending Process  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
ISEF Finalist  
Mu Alpha Theta  
NYCSEF First Award

Risham Dhillon  
*Project Title:* Developing a Clinical Assay to Distinguish Between Indolent & Aggressive Prostate Cancer: A Molecular Approach Through Biomarkers PMP22, FGFR1, & CDKN1A/p21  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF First Award

Libby Ho  
*Project Title:* Mycobacteriophage TM4 Tape-Measure Protein Blocks Entry into Stationary Phase of Tuberculosis  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
ISEF Finalist  
NYCSEF Second Award

Ida Huang  
*Project Title:* Reduction of Interocular Imbalance in Amblyopia  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award

Jason Huang  
*Project Title:* Simulation of subwavelength light confining structures using hyperbolic metamaterials  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Waqarul Islam  
*Project Title:* Characterizing NbSe2 through Soft Micro-Stencil Lithography and Atomic Force Microscopy  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
ISEF Finalist  
NYCSEF First Award
Mika Jain
*Project Title:* The Effects of Novel Substrates on Morphology and Protein Expression in Podocytes
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ISEF Finalist
NYCSEF First Award
Society for In Vitro Biology

Chiwu Kim
*Project Title:* Chinese and Japanese Attitudes towards the United States
NYCSEF Preliminary Round Participant

Elizabeth Kim
*Project Title:* Regulation of Proteasomes in Neuronal Remodeling and Organ Size
NYCSEF Preliminary Round Participant

Lily Kim
*Project Title:* Fragile X Syndrome: Testing for Differences in Behavior between Male and Female Zebrafish
NYCSEF Preliminary Round Participant

Min Kyu Kim
*Project Title:* Shell We Date?: ESR Dating the Sangamonian Interglacial Deposits at Hopwood Farm, IL
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Stephanie Kwan
*Project Title:* Investigating the Suppression of Mid-Range Harmonics in Violins
NYCSEF Preliminary Round Participant

Eugene Lee
*Project Title:* The Elusive Poncelet Point
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Mu Alpha Theta
NYCSEF First Award

Lily Lee
*Project Title:* Assessment of Thirdhand Exposure to Nicotine from Electronic Cigarettes
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ISEF Finalist
NYCSEF First Award

Henrik Lempa-Cho
*Project Title:* Creating An Interface in Igor Pro to Control a Scanning Tunneling Microscope
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Frank W. and Jan J. Stahl Memorial Award for Technical Excellence
NYCSEF First Award

Edward Li
*Project Title:* Identifying Dependency in Chiroptera Dental Data to Create New Phylogenetic Paradigms
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award
The City University of New York Scholarship - Hunter College

Jing Lin
*Project Title:* A Novel Azimuthal Polarizer Using A Bulk Acoustic Wave Resonator To Align Silver Nanowires
NYSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Frank W. and Jan J. Stahl Memorial Award for Technical Excellence
NYCSEF First Award

Tommy Lin
*Project Title:* The Relationship between Specialized High School Admissions Test Preparation Methods and Household Income as an Explanation of the Racial Admissions Gap
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

YunFei Lin
*Project Title:* A Study of the Influence of Electrospinning Parameters on Diameter of Polymer Nanofibers
NYCSEF Preliminary Round Participant

Kahmun Lo
*Project Title:* Getting to the 'Root' of Nitrogen Uptake Efficiency in Plants
NYCSEF Preliminary Round Participant

Xiao Kai Luo
*Project Title:* Backward Facing Step Flow Energy Harvesting
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Tanzib Razzaki
Project Title: Taurine Treatment Reduces Anxious Behavior In Rats
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Alex Sandomirsky
Project Title: A Flexible Equivalent Circuit Model of Transformer Core Hysteresis
NYCSEF Preliminary Round Participant

Nicole Senderovich
Project Title: What makes a freethinker?: The effects of parenting style and peer relationships on the development of authoritarian thinking in adolescents
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Ahmed Sherif
Project Title: Human Trafficking and GDP Sectoral Composition: Evidence from Africa and Asia, 2001-2012
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Alvin Wei
Project Title: Identifying Secured Camouflaged Gates Using SAT
NYCSEF Preliminary Round Participant

Brian Wei
Project Title: Optimizing Efficiency of Mesoporous Zn(OH)2 Solar Cells and its Composites Sensitized by Quantum Dots
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ASM Materials Education Foundation
NYCSEF Third Award

Peter Wei
Project Title: Autophagy prevention of Alcohol induced lipid accumulation in HepG-2 liver cells
NYCSEF Preliminary Round Participant

Mandy Wong
Project Title: Synaptic changes in neuromuscular junctions in Insomniac mutants of Drosophila Melanogaster
NYCSEF Preliminary Round Participant

William Xiao
Project Title: Square Quadrilateral Picking
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Shehtab Zaman
Project Title: International Comparison of Healthcare Expenditure and Labor Productivity, 1995-2010
NYCSEF Preliminary Round Participant

Trinity School
Young Joon Kim
Project Title: Capillary Action: The Key to Enhanced Bone Regeneration in Micro-Channeled Scaffolds
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Young Women's Leadership School - Harlem
Cindy Perez
Project Title: Is Fallopia japonica a viable sponge for Carbon Sequestration in Tidal Marshes
NYCSEF Preliminary Round Participant

Aziza Rahman
Project Title: Habitat Preferences of Nektons in Piermont Marsh
NYCSEF Preliminary Round Participant

Nancy Ramirez
Project Title: Is Fallopia japonica a viable sponge for Carbon Sequestration in Tidal Marshes
NYCSEF Preliminary Round Participant

Queens
Archbishop Molloy High School
Dhanesh Binda
Project Title: Environmentally Sustainable Housing for Urban Expansion and Revitalization
NYCSEF Preliminary Round Participant
Thomas Brinskelle  
*Project Title: Effects of Electroculture and Magnetoculture on Radishes*
*NYCSEF Preliminary Round Participant*

Francisco Cid  
*Project Title: Survey on Surveys*  
*NYCSEF Preliminary Round Participant*

Candice Forrester  
*Project Title: The Effect of the Shape of Different Chambers on Social Space Between Rugos 6 and Cantones Drosophila*  
*NYCSEF Preliminary Round Participant*

Sebastian Geraci  
*Project Title: Environmentally Sustainable Housing for Urban Expansion and Revitalization*  
*NYCSEF Preliminary Round Participant*

Georgios Gulino  
*Project Title: Environmentally Sustainable Housing for Urban Expansion and Revitalization*  
*NYCSEF Preliminary Round Participant*

Edrean-Neil Kabigting  
*Project Title: Art Squared: The Psychological Effect of Music on Drawing*  
*NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant*  
*American Psychological Association*  
*NYCSEF Second Award*

Kristian Mosquito  
*Project Title: Memory vs. Reading: The Effects of Reading Daily on Short-Term Memory*  
*NYCSEF Preliminary Round Participant*

Jordi Sevilla  
*Project Title: The Hero Project*  
*NYCSEF Preliminary Round Participant*

Benjamin N. Cardozo High School

Manasseh Alexander  
*Project Title: The effect of vitamins C and E on the delaying of Parkinson symptoms in wittype, pink-1 and unc-13 caenorhabditis elegnans under oxidative.*  
*NYCSEF Preliminary Round Participant*

Roger Arteaga  
*Project Title: The Effect of Three Plant Antioxidants on Delaying the Onset of Beta Amyloid Accumulation in C. elegans*  
*NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant*

Chen Fang  
*Project Title: The Reparative Properties of Carbon Dioxide on UV Exposed Arabidopsis Thaliana*  
*NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant*  
*The City University of New York Scholarship - City College of New York*  
*NYCSEF Third Award*

Syed Khurshid  
*Project Title: The effect of vitamins C and E on the delaying of Parkinson symptoms in wittype, pink-1 and unc-13 caenorhabditis elegnans under oxidative.*  
*NYCSEF Preliminary Round Participant*

Hayk Matevosyan  
*Project Title: The Effect of Three Plant Antioxidants on Delaying the Onset of Beta Amyloid Accumulation in C. elegans*  
*NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant*  
*NYCSEF Third Award*

Damaris Roblero  
*Project Title: The Reparative Properties of Carbon Dioxide on UV Exposed Arabidopsis Thaliana*  
*NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant*  
*The City University of New York Scholarship - City College of New York*  
*NYCSEF Second Award*

Summer Stoff  
*Project Title: The effects of four plant antioxidants on lifespan of C. elegans*  
*NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant*  
*ISEF Finalist*  
*NYCSEF First Award*
Forest Hills High School

Heather Alper
Project Title: The Effects of Benzylaminopurine on PEG Grown Ceratopteris richardii
NYCSEF Preliminary Round Participant

Joel Cheung
Project Title: The Effect of Titanium Dioxide Nanoparticles on the Growth Rate and Sexual Differentiation of the C-Fern Gametophyte
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Klaudia Ciszewska
Project Title: The Effects of Cr(NO3)3 9H2O and CuO on C-fern Spore Germination
NYCSEF Preliminary Round Participant

Anxhelo Haxhillari
Project Title: The Effects of Benzylaminopurine on PEG Grown Ceratopteris richardii
NYCSEF Preliminary Round Participant

Eveliana Kazakova
Project Title: The Effects of Ammonium Nitrate on Sexual Differentiation in C-fern
NYCSEF Preliminary Round Participant

Fadil Nero
Project Title: The Effect of Titanium Dioxide Nanoparticles on the Growth Rate and Sexual Differentiation of the C-Fern Gametophyte
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Miguel Ortega
Project Title: The Effect of Mannitol on Salt Stressed Ceratopteris richardii spores
NYCSEF Preliminary Round Participant

Laura Palma
Project Title: The Effects of Ammonium Nitrate on Sexual Differentiation in C-fern
NYCSEF Preliminary Round Participant

Krupal Patel
Project Title: The Effect of Mannitol on Salt Stressed Ceratopteris richardii spores
NYCSEF Preliminary Round Participant

Kamila Pawelec
Project Title: The relationship between student motivation and homework policy on homework completion
NYCSEF Preliminary Round Participant

Asim Rana
Project Title: The Effects of Benzylaminopurine on PEG Grown Ceratopteris richardii
NYCSEF Preliminary Round Participant

Daniel Shamaev
Project Title: The relationship between student motivation and homework policy on homework completion
NYCSEF Preliminary Round Participant

Tamar Solomon
Project Title: The Effects of Soot on the Melting Rate of Ice
NYCSEF Preliminary Round Participant

Victoria Szablinski
Project Title: The Effects of Cr(NO3)3 9H2O and CuO on C-fern Spore Germination
NYCSEF Preliminary Round Participant

Francis Lewis High School

Amanda Ackermann
Project Title: What Degrades My DNA? Affects of Intense Heating on DNA Quantities During Mass Fatality Incidents
NYCSEF Preliminary Round Participant

Tasnim Belal
Project Title: The Effect of Potassium Nitrate on Bermuda Grass
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award
**Niman Bhatia**  
*Project Title:*  How Well Do You Know Yourself? We Know You Better!  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award  
The City University of New York Scholarship - City College of New York

**Philip Bis**  
*Project Title:*  Slime Mold Yum Yum: Nutritional Preference of Physarum Polycephalum  
NYCSEF Preliminary Round Participant

**Catherine Botero**  
*Project Title:*  The Effect of Music Genre on the Memory of Children and Adolescents ages 7-18  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

**Hunter Brink**  
*Project Title:*  Insulin the Traitor? The Effect of Insulin on E. coli  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

**Kelly Cabeza**  
*Project Title:*  The Greatest Wealth = Health? Assessing Nutritional Intake of High School Students  
NYCSEF Preliminary Round Participant

**Gisella Carpio**  
*Project Title:*  Don't nitrate, it won't eliminate!  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

**Iffath Chaity**  
*Project Title:*  The Effect of Differently Colored LED's on Radish (Raphanus sativus) Growth  
NYCSEF Preliminary Round Participant

**Benjamin Chen**  
*Project Title:*  Got Water? Rehydrated! The Effects of Potassium Polyacrylate Gel on Raphanus Sativus  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

**Connie Chen**  
*Project Title:*  Pansy Torture? How does Acid Rain Effect on Viola tricolor?  
NYCSEF Preliminary Round Participant

**Kyle Chin**  
*Project Title:*  The Effect of Different Herbs on the MDA MB157 Breast Cancer Cell Line Proliferation  
NYCSEF Preliminary Round Participant

**Lisa Cho**  
*Project Title:*  Stomach Wars: EDTA vs B. cereus  
NYCSEF Preliminary Round Participant

**Maria Chung**  
*Project Title:*  Building an Affordable Hydroponics System for Window Sills  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award  
Ricoh Americas Corporation

**Chebria Crandol**  
*Project Title:*  Stomach Wars: EDTA vs B. cereus  
NYCSEF Preliminary Round Participant

**Amina Durkovic**  
*Project Title:*  The Link Between Sleep Deprivation and Academic Performance  
NYCSEF Preliminary Round Participant

**Muhammed El Shatanofy**  
*Project Title:*  Self-assembled structures via manipulation of hydrophilic and hydrophobic surfaces  
NYCSEF Preliminary Round Participant

**Gabriella Eng**  
*Project Title:*  What Degrades My DNA? Affects of Intense Heating on DNA Quantities During Mass Fatality Incidents  
NYCSEF Preliminary Round Participant
Angeline Fang
Project Title: Daily Exercise Survey on Highschool Students: We Will, We Will, Pump Iron!
NYCSEF Preliminary Round Participant

Niha Habul
Project Title: Building an Affordable Hydroponics System for Window Sills
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award
Ricoh Americas Corporation

Amrita Harrichand
Project Title: Daily Exercise Survey on Highschool Students: We Will, We Will, Pump Iron!
NYCSEF Preliminary Round Participant

Mohammed Hasnat
Project Title: Effect of calcium chloride on lima bean growth
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Ivon Hong
Project Title: The Effect of Mg(NO3)2 on Mung Bean Growth
NYCSEF Preliminary Round Participant

Andrew Hoyos
Project Title: Slime Mold Yum Yum: Nutritional Preference of Physarum Polycephalum
NYCSEF Preliminary Round Participant

Emily Huang
Project Title: The Hidden Dimension of Chaos: How Personality Traits Affect Fractal Preference
NYCSEF Preliminary Round Participant

Aadil Hussain
Project Title: Effect of calcium chloride on lima bean growth
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Simran Jaspal
Project Title: Slime Mold Yum Yum: Nutritional Preference of Physarum Polycephalum
NYCSEF Preliminary Round Participant

Eileen Kao
Project Title: How Well Do You Know Yourself? We Know You Better!
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award
The City University of New York Scholarship - City College of New York

Tarandeep Kaur
Project Title: The Link Between Sleep Deprivation and Academic Performance
NYCSEF Preliminary Round Participant

Chanyang Kim
Project Title: How does cupric sulphate affect the growth of Zinnia elegans?
NYCSEF Preliminary Round Participant

Neil Koshy
Project Title: Got Water? Rehydrated! The Effects of Potassium Polyacrylate Gel on Raphanus Sativus
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Kevin Lam
Project Title: How does Magnesium Nitrate Affect the Growth of Black Beans (Phaseolus vulgaris)?
NYCSEF Preliminary Round Participant

Seung hyun Lee
Project Title: The Link Between Sleep Deprivation and Academic Performance
NYCSEF Preliminary Round Participant

Susan Lee
Project Title: The Effect of Mg(NO3)2 on Mung Bean Growth
NYCSEF Preliminary Round Participant

Guadalupe Leon
Project Title: Don't nitrate, it won't eliminate!
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Page 27 of 40
YuChieh Lin
*Project Title: Insulin the Traitor? The Effect of Insulin on E. coli*
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Zarrin Mahmud
*Project Title: The Effect of Differently Colored LED’s on Radish (Raphanus sativus) Growth*
NYCSEF Preliminary Round Participant

Sameena Manzur
*Project Title: Stomach Wars: EDTA vs B. cereus*
NYCSEF Preliminary Round Participant

Ali Mian
*Project Title: Effect of calcium chloride on lima bean growth*
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Samantha Ng
*Project Title: The Effect of Mg(NO3)2 on Mung Bean Growth*
NYCSEF Preliminary Round Participant

Kavita Niranjan
*Project Title: The Effect of Potassium Nitrate on Bermuda Grass*
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Dayana Paredes
*Project Title: Presto! Pesto! The Effect of Different Colored LEDs on Sweet Basil.*
NYCSEF Preliminary Round Participant

Rhea Patel
*Project Title: Ultrastructural defects of Drosophila neuromuscular synapses in mutants of rugose, a model of autism spectrum*
NYCSEF Preliminary Round Participant

Teodoros Petridis
*Project Title: Building an Affordable Hydroponics System for Window Sills*
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Farah Pragga
*Project Title: Cry me a Sequence! The Gene Expression of Cryptochrome 1 in Ceratopteris*
NYCSEF Preliminary Round Participant

Humda Rahman
*Project Title: The effect of LED’s on Nemophila menziesii and Eschsholzia californica*
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Mia Rodie
*Project Title: The effect of LED’s on Nemophila menziesii and Eschsholzia californica*
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Priangka Saha
*Project Title: Do the Health Belief Model and the Theory of Planned Behavior Predict BMI, Diet, and Exercise Behaviors for Ethnic Minority Women?*
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Department of Health and Human Services
NYCSEF Second Award

Mushe Shaulov
*Project Title: The Ultimate Shield? The Effects of Proteases on Hemoglobin Encapsulated TMOS Sol Gel*
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Vivian Shi
*Project Title: Pansy Torture? How does Acid Rain Effect on Viola tricolor?*
NYCSEF Preliminary Round Participant

Khy Ee Siew
*Project Title: The Greatest Wealth = Health? Assessing Nutritional Intake of High School Students*
NYCSEF Preliminary Round Participant

Arpna Singh
*Project Title: Presto! Pesto! The Effect of Different Colored LEDs on Sweet Basil.*
NYCSEF Preliminary Round Participant
Impreet Singh
*Project Title:* On the Horns of a Dilemma: ESR Dating the Middle-Upper Paleolithic Transition at Grotte du Bison, Yonne, France

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Second Award

Naveen Singh
*Project Title:* The Effect of Bismuth Nanoparticles in a Magnetic Field on Radish Growth

NYCSEF Preliminary Round Participant

Kaitlin Siu
*Project Title:* How Well Do You Know Yourself? We Know You Better!

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

The City University of New York Scholarship - City College of New York

Marcelo Torres
*Project Title:* Got Water? Rehydrated! The Effects of Potassium Polyacrylate Gel on Raphanus Sativus

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

Luc Tourangeau
*Project Title:* The Effect of Bismuth Nanoparticles in a Magnetic Field on Radish Growth

NYCSEF Preliminary Round Participant

Razia Uddin
*Project Title:* Help seeking Barries among Different Ethnicities

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Department of Health and Human Services

NYCSEF Third Award

Eva Villarreal
*Project Title:* Daily Exercise Survey on Highschool Students: We Will, We Will, Pump Iron!

NYCSEF Preliminary Round Participant

Kalliope Vourakis
*Project Title:* Don’t nitrate, it won’t eliminate!

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

Jina Wang
*Project Title:* How does cupric sulphate affect the growth of Zinnia elegans?

NYCSEF Preliminary Round Participant

Caroline Wu-Silveira
*Project Title:* Insulin the Traitor? The Effect of Insulin on E. coli

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

Iris Yu
*Project Title:* The Effect of Differently Colored LED’s on Radish (Raphanus sativus) Growth

NYCSEF Preliminary Round Participant

Cindiraina Zhai
*Project Title:* The Effect of Music Genre on the Memory of Children and Adolescents ages 7-18

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

Kate Zhao
*Project Title:* Presto! Pesto! The Effect of Different Colored LEDs on Sweet Basil.

NYCSEF Preliminary Round Participant

Kelvin Zheng
*Project Title:* But I have to facebook! Poking Outside of the Chatbox 2

NYCSEF Preliminary Round Participant

Mark Zheng
*Project Title:* The Effect of Bismuth Nanoparticles in a Magnetic Field on Radish Growth

NYCSEF Preliminary Round Participant

John Bowne High School

Carolyn Wakeima Curtis
*Project Title:* Establishing a Correlation between the Urban Heat Island (UHI) Effect and Land Cover in New York City

NYCSEF Preliminary Round Participant
Manjot Dhaliwal
Project Title: Comparative Effectiveness of Antibiotics and Antibiotic Combinations for Staphylococcus epidermidis Colonization
NYCSEF Preliminary Round Participant

Yu Ying Mei
Project Title: The Effect of Phosphate in Inorganic Solid Phase Arsenic Determination
NYCSEF Preliminary Round Participant

Katya Garashchenko
Project Title: The effect of oak biochar on soil quality and growth of Glycine max in a stress-free environment
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Laurie Nazaire
Project Title: The Effects of Environmental Toxicant, Bisphenol A (BPA), on the Ovarian Cells of the Patiria miniata
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Kimberley Harricharran
Project Title: Temperature Variability and Climatic Extremes in New York City
NYCSEF Preliminary Round Participant

Vilian Quach
Project Title: Spatial Variations of Fecal Indicator Bacteria (FIB) and Nutrients in the Gowanus Canal, Brooklyn, New York
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
National Oceanic and Atmospheric Administration
NYCSEF Third Award
Stockholm Junior Water Prize

Elise Harrison
Project Title: PCB Effects on Zebrafish Development
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ISEF Finalist
NYCSEF First Award

JUSTIN SEETARAM
Project Title: Differential Pulse - Cathodic Stripping Voltammetry (DPCSV) for simultaneous determination of Cu, Pb, Cd, and Zn in Environmental Samples
NYCSEF Preliminary Round Participant

Marissa Laikhram
Project Title: Comparative Effectiveness of Antibiotics and Antibiotic Combinations for Staphylococcus epidermidis Colonization
NYCSEF Preliminary Round Participant

Sanjay Singh
Project Title: 'Anti-Stokes emission from dye sensitized nanowires'
NYCSEF Preliminary Round Participant

Johnson Lin
Project Title: Spatial Variations of Fecal Indicator Bacteria (FIB) and Nutrients in the Gowanus Canal, Brooklyn, New York
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
National Oceanic and Atmospheric Administration
NYCSEF Third Award
Stockholm Junior Water Prize

Alexandros Stefanidis
Project Title: The effect of oak biochar on soil quality and growth of Glycine max in a stress-free environment
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Xiaomin Lin
Project Title: The Effect of Phosphate in Inorganic Solid Phase Arsenic Determination
NYCSEF Preliminary Round Participant

Kimberly Thelusma
Project Title: Inter-Annual Comparison of Satellite Passive Microwave Data with Ground based Radiometric Measurements for Snowpack
NYCSEF Preliminary Round Participant
Ajith Vellat  
*Project Title:*  Spatial Variations of Fecal Indicator Bacteria (FIB) and Nutrients in the Gowanus Canal, Brooklyn, New York  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
National Oceanic and Atmospheric Administration  
NYCSEF Third Award  
Stockholm Junior Water Prize  
Brooklyn Friends of Clearwater  

Farzana Begum  
*Project Title:*  The Effect of Iron on Copper Aqueous Solutions  
NYCSEF Preliminary Round Participant  

Andrea Cadornigara  
*Project Title:*  Antioxidant Potential of Tropical Philippine Fruits  
NYCSEF Preliminary Round Participant  

Joel Caxaj  
*Project Title:*  Determining Patterns in Cyclic Primes Using Mathematical Operations  
NYCSEF Preliminary Round Participant  

Bianca Chakravorty  
*Project Title:*  Using Ratios of Triangle Areas to Improve Facial Recognition Using Computer Technology  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award  

Julie Chan  
*Project Title:*  Creating an Environmentally Friendly Pesticide  
NYCSEF Preliminary Round Participant  

Gloria Chen  
*Project Title:*  The Effect of Allelochemicals from Ipomoea Batatas as a Natural Herbicide  
NYCSEF Preliminary Round Participant  

Kevin Chen  
*Project Title:*  Effects of Commercial Length on Product Sales  
NYCSEF Preliminary Round Participant  

Emily Chiang  
*Project Title:*  The Effect of Allelochemicals from Ipomoea Batatas as a Natural Herbicide  
NYCSEF Preliminary Round Participant  

Ki Rim Chung  
*Project Title:*  Patterns in Modern Pop Music based on Musical Notes  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
Mu Alpha Theta  
NYCSEF Third Award
Ritu Dhar
Project Title: Ultrastructural defects of Drosophila neuromuscular synapses in mutants of rugose, a model of autism spectrum
NYCSEF Preliminary Round Participant

Min Dong
Project Title: Using Cross Correlation Function and Multivariate Regression to Predict and Analyze Trends in the Economy
NYCSEF Preliminary Round Participant

Pooja Dutta
Project Title: Role of NFkappaB on IL-8 Gene Expression in LPS Stimulated U937 cells
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Kelsey Eng
Project Title: The Behavior of Stock Prices During Presidential Terms
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Matthew Gonsalves
Project Title: The Effect of Magnifying Film and Mirror Matrices on the Efficiency of Solar Panels
NYCSEF Preliminary Round Participant

Katie Han
Project Title: The Effect of Different Fertilizers on the Growth of
NYCSEF Preliminary Round Participant

Nida Hussain
Project Title: Physical and Chemical Characterization of the Water Quality of Lakes and Ponds in Greater New York
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
American Meteorological Society
NYCSEF Third Award
The City University of New York Scholarship - Hunter College

Seokyung Hwang
Project Title: Creating an Environmentally Friendly Pesticide
NYCSEF Preliminary Round Participant

Sandy Jiang
Project Title: Effect of Angled Light on Plant Growth
NYCSEF Preliminary Round Participant

SungHan Kang
Project Title: The Effect of Phosphorus and Sulfur Concentration Application on the Growth of Phaseolus lunatus L.
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Zainab Karim
Project Title: The Effect of Garlic Mustard Seeds, Alliaria petiolata, on the Growth of Lettuce, Lactuca sativa, and Radish, Raphanus sativus, Seeds
NYCSEF Preliminary Round Participant

Minji Kim
Project Title: Identification of Modern Standards of Beauty Using the Golden Ratio
NYCSEF Preliminary Round Participant

Karen Kong
Project Title: The Effect of Cell Phones on a Voice Verification System
NYCSEF Preliminary Round Participant

Edwin Lee
Project Title: The Seasonal Effects of Different Colored Roofing Materials on Surface Albedo in an Urban Environment
NYCSEF Preliminary Round Participant
Brooklyn Friends of Clearwater

Chris Li
Project Title: Effect of the Temperature and Salinity of Water on the Absorption of UV Radiation
NYCSEF Preliminary Round Participant
Brooklyn Friends of Clearwater

Fanny Lin
Project Title: Patterns in Modern Pop Music based on Musical Notes
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Mu Alpha Theta
NYCSEF Third Award
Jin Lin
Project Title: The Behavior of Stock Prices During Presidential Terms
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Deanna Lochan
Project Title: The Effect of Common Pollutants on the Growth of Elodea canadensis
NYCSEF Preliminary Round Participant

Amit Manhaini
Project Title: Finding the Direction South Without the use of Advanced Tools
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Environmental Quest
NYCSEF Second Award

Rehat Mannan
Project Title: Using Cross Correlation Function and Multivariate Regression to Predict and Analyze Trends in the Economy
NYCSEF Preliminary Round Participant

Rabia Mehmood
Project Title: Muscle Transcriptome profiling and analysis of Synodus synodus
NYCSEF Preliminary Round Participant

Sadia Mohaimin
Project Title: The Effect of Thymoquinone Encapsulated within Sol-Gel Nanoparticles on E. coli
NYCSEF Preliminary Round Participant

Matthew Moulton
Project Title: Carrying Capacity of New York City
NYCSEF Preliminary Round Participant

Fatema Noor
Project Title: The Effect of Testing an Oleophilic Method on Different Aquatic Environments to Discover the Vanguard Setting
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Brooklyn Friends of Clearwater
National Oceanic and Atmospheric Administration
NYCSEF First Award

Gladys Obaji
Project Title: The Effect of Glycyl-L Glutamine on the Efficacy of Regeneration in Dugesia Tigrina
NYCSEF Preliminary Round Participant

Olivia Palacios
Project Title: Carrying Capacity of New York City
NYCSEF Preliminary Round Participant

Eric Pang
Project Title: Determining Patterns in Cyclic Primes Using Mathematical Operations
NYCSEF Preliminary Round Participant

Harleen Paul
Project Title: The Effect of the Vetiver Plant\textsuperscript{\textregistered}\textsuperscript{TM}s Phytoremediation Qualities on the Absorption of Heavy Metals in Water
NYCSEF Preliminary Round Participant
Brooklyn Friends of Clearwater

Sean Pereira
Project Title: The Effect of Pork Lard on the Efficiency of Biofuel
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Priya Persaud
Project Title: The Effect of Copper Windings Around the Central Shaft of an Electric Motor on its Efficiency
NYCSEF Preliminary Round Participant
Sarah and Morris Wiesenthal Science Awards

Dana Ragoonanan
Project Title: The Effect of the Vetiver Plant\textsuperscript{\textregistered}\textsuperscript{TM}s Phytoremediation Qualities on the Absorption of Heavy Metals in Water
NYCSEF Preliminary Round Participant
Brooklyn Friends of Clearwater

Denera Ragoonanan
Project Title: The Alterations of Condition and Structure of Flavylium Ions on the Light Harvesting of DSSC
NYCSEF Preliminary Round Participant
Rasidha Rahman
Project Title: The Effect of Solvents on the Photorelease of a Model Drug from a New Phototrigger
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Second Award

Rasman Rayyan
Project Title: The Effect of Pork Lard on the Efficiency of Biofuel
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Second Award

Celine Ripla
Project Title: The Application of Battle Dynamics on Nash Equilibria
NYCSEF Preliminary Round Participant

Monica Singh
Project Title: The Seasonal Effect of Seed Size on the Growth of Organic White Kidney Bean Seeds
NYCSEF Preliminary Round Participant

Claudia Siu
Project Title: Effects of Commercial Length on Product Sales
NYCSEF Preliminary Round Participant

Emily Song
Project Title: The Effects of Using a Manually Controlled Total Artificial Heart on Maintaining Heart Performance in Realistic Applications
NYCSEF Preliminary Round Participant

Richa Tamakuwala
Project Title: The Effect of Different Protection Methods on the Germination Rate of Grass Seeds
NYCSEF Preliminary Round Participant

Amy Truong
Project Title: The Effect of Organic Fertilizers on the Pigmentation and Growth of Ocimum basilicum
NYCSEF Preliminary Round Participant

Chi-Ming Tseng
Project Title: Ship Hull Coating Effect on Shipping Efficiency
NYCSEF Preliminary Round Participant

Brooklyn Friends of Clearwater

Carlos Velez
Project Title: The Effect of Magnifying Film and Mirror Matrices on the Efficiency of Solar Panels
NYCSEF Preliminary Round Participant

Nithya Vishwanathan
Project Title: The Effect of Common Pollutants on the Growth of Elodea canadensis
NYCSEF Preliminary Round Participant

Jessie Yang
Project Title: Effect of Angled Light on Plant Growth
NYCSEF Preliminary Round Participant

Seung Hye Yang
Project Title: The Effect of Different Fertilizers on the Growth of
NYCSEF Preliminary Round Participant

Yulin Yang
Project Title: The Effect of Cell Phones on a Voice Verification System
NYCSEF Preliminary Round Participant

Cheng Yuan
Project Title: The Effects of Using a Manually Controlled Total Artificial Heart on Maintaining Heart Performance in Realistic Applications
NYCSEF Preliminary Round Participant

JunJun Zhang
Project Title: The Patterns of Natural Numbers
NYCSEF Preliminary Round Participant

Erik Zhao
Project Title: Effect of the Temperature and Salinity of Water on the Absorption of UV Radiation
NYCSEF Preliminary Round Participant

Brooklyn Friends of Clearwater

Peilin Zhen
Project Title: The Patterns of Natural Numbers
NYCSEF Preliminary Round Participant

Saint Francis Preparatory School
Jaclyn Angielczyk  
*Project Title: Changing Children’s Perception of Nutrition through Hands-On Education*  
NYCSEF Preliminary Round Participant

Kathryn Angielczyk  
*Project Title: The Effects of Tonal Language, Familial Musicality, and Musical Preference on Pitch Perception Using Applications*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Daniel Bogun  
*Project Title: Tuning the Physical Properties of a Graphite Nanosolution Through Changes in Particle Coagulation*  
NYCSEF Preliminary Round Participant

Jacqueline Heffner  
*Project Title: Oncolytic Virotherapy Using Vaccinia Virus GLV-1h68 Successfully Kills Sorafenib-Resistant Hepatocellular Carcinoma*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Suriah Iqbal  
*Project Title: Occupational and Communal Exposures to Harmful Substances in Relation to Lung and Breast Cancer Risk: An Epidemiological Analysis of Environmental Exposure Utilizing Google Trends*  
NYCSEF Preliminary Round Participant

Diane Lachhman  
*Project Title: Climatic Drivers of Extreme Rainfall Patterns Over the Northeastern United States*  
NYCSEF Preliminary Round Participant

Erene Litis  
*Project Title: How An Individual’s Sense of Smell Effect Their Test-Taking Anxiety*  
NYCSEF Preliminary Round Participant

Samantha Moreno  
*Project Title: Alzheimer’s Disease and Depression: The Case Against a Similar Etiology*  
NYCSEF Preliminary Round Participant

Umay Mughal  
*Project Title: The Molecular Effect of Age on Liver Toxicity by Asparaginase*  
NYCSEF Preliminary Round Participant

Kevin Power  
*Project Title: The Effects of Alcohol On Reading an Listening Comprehension Tests*  
NYCSEF Preliminary Round Participant

Kimberly Rosal  
*Project Title: Parental Monitoring and its Effects on Adolescents’ Bullying Behavior*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
American Psychological Association  
NYCSEF Third Award

Ashley Simons  
*Project Title: Comparative Analysis of the Sleep Patterns of Older and Younger Adults*  
NYCSEF Preliminary Round Participant

Thalia Tamay  
*Project Title: Dog Aggression Change as a Function of the Day of the Week*  
NYCSEF Preliminary Round Participant

Townsend Harris High School  
Samia Abedin  
*Project Title: The Effect of Solar Water Disinfection on the Inactivation of Escherichia coli Using Different Concentrations of Food Grade Hydrogen Peroxide*  
NYCSEF Preliminary Round Participant  
Brooklyn Friends of Clearwater

Clara Abouelsaad  
*Project Title: The Effect of Different Types of Honey on the Growth of Serratia marcescens*  
NYCSEF Preliminary Round Participant

Monisha Afrooza  
*Project Title: The Effect of Microwave Radiation on the Germination of Phaseolus acutifolius*  
NYCSEF Preliminary Round Participant
Tahsin Akanda  
Project Title: Development of Silicon-Based Flexible Technology for Biomedical Application: Monitoring of Dystonia

Aisha Ali  
Project Title: The Effect of Sunscreen on the Amount of Skin Damage Caused by UV Rays
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Sindhu Avuthu  
Project Title: Using a T-maze to test the effects of different stimulants on the memory of the Drosophila melanogaster
NYCSEF Preliminary Round Participant

Xhesika Begaj  
Project Title: Changes in Smad4 Localization as a Result of Different Drug Treatments
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Karun Bhardwaj  
Project Title: Impact of School Lunches on High School Students
NYCSEF Preliminary Round Participant

Chloe Chai  
Project Title: Asian Americans and Pacific Islanders' (AAPI) Opinion on Affirmative Action in Higher Education
NYCSEF Preliminary Round Participant

Deborah Chai  
Project Title: Gain or Pain: Testing the Effectiveness of Bicycle Lanes in Manhattan
NYCSEF Preliminary Round Participant

Jothika Challapalli  
Project Title: The Role of YAP and TAZ signaling in HIV-associated nephropathy.
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Allison Chan  
Project Title: Effects of Extracurricular Activities on the Academic performance of NYC High School students
NYCSEF Preliminary Round Participant

Darren Chen  
Project Title: The Effects of Skipping Lunch on Students' Academic Performance
NYCSEF Preliminary Round Participant

Elese Chen  
Project Title: How does a neighborhood’s income level affect its use of public libraries?
NYCSEF Preliminary Round Participant

Neil Chen  
Project Title: Examination of Phototaxis and Stigmergy in Dugesia tigrina
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award

Kavya Dasari  
Project Title: The Effect of Disrupted Circadian Rhythm on Alcohol Consumption in Drosophila Melanogaster
NYCSEF Preliminary Round Participant

Sarah Elhachimi  
Project Title: The Effect of Different Types of Honey on the Growth of Serratia marcescens
NYCSEF Preliminary Round Participant

Shamilah Faria  
Project Title: The Effect of Windsocks on Wind Turbine Efficiency
NYCSEF Preliminary Round Participant

Nicole Gleizer  
Project Title: The Comparative Effect of B Vitamins on the Lifespans of Successive D. melanogaster Generations
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award
Nimrod Gozum
Project Title: The Essential Nature of the 3' Region of the Small Segment of Bacteriophage Phi 6
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Shweta Gupta
Project Title: Independent Reading and Its Effect on Student Reading Habits
NYCSEF Preliminary Round Participant

Elizabeth Ha
Project Title: The Comparative Effect of B Vitamins on the Lifespans of Successive D. melanogaster Generations
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Sarah Han
Project Title: Do High School Seniors Care More About Reputation or Money When It Comes to College Enrollment Decision?
NYCSEF Preliminary Round Participant

Amy Hao
Project Title: The Analysis of Posterior Cervical Thickness in Association with Spontaneous Preterm Birth: A Correlational Study
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award
The City University of New York Scholarship - Hunter College

Melinda Harbhajan
Project Title: The Effects of Kanamycin Encapsulated Nanogels on E.coli
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award
US Metric Association

Faisal Hossain
Project Title: The Effect of Carbon Filtration on the Amount of Iron and Copper Ions in Tap Water
NYCSEF Preliminary Round Participant

Inderdeep Jaswal
Project Title: The Effects of Moringa oleifera on the Phaseolus vulgaris
NYCSEF Preliminary Round Participant

Yarim Lee
Project Title: Development of a Therapeutic drug for Alzheimer’s Disease: A Chemical Approach to Cease Amyloidosis
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
Biophysical Society Award
ISEF Finalist
NYCSEF First Award

Rebecca Li
Project Title: Using a T-maze to test the effects of different stimulants on the memory of the Drosophila melanogaster
NYCSEF Preliminary Round Participant

Shiying Lin
Project Title: The effect of the components of dairy milk on the larval mass of Bombyx Mori
NYCSEF Preliminary Round Participant

Monica Maharjan
Project Title: The Effect of a Single Herbal Remedy, a Combined Herbal Remedy, and an Over-the-Counter Sleep Medication on the Memory of Dugesia tigrina
NYCSEF Preliminary Round Participant

Swathi Mettela
Project Title: The Effect on the Behavior of Drosophila melanogaster When Presented With Distilled Water, Orange Flavedo, and Increasing Volumes of Octyl Ethanoate
NYCSEF Preliminary Round Participant

Mahnoor Mirza
Project Title: Studying the Correlation between Aspects of Identity and the College Student’s GPA
NYCSEF Preliminary Round Participant
Jillian Panagakos
Project Title: Determining the Optimal Parameters to Maximize Lifetime of Emission in a Coupled Type-II and Type-I Quantum Dot System
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

Jan Pazhayampallil
Project Title: The Effect of Different Types of Water on the Voltage Created by Microbial Fuel Cells
NYCSEF Preliminary Round Participant

Zoya Qureshi
Project Title: The Effect of a Barrier on Particle Mobilization and Discoloration
NYCSEF Preliminary Round Participant

Syed Rahman
Project Title: The Effects of Moringa oleifera on the Phaseolus vulgaris
NYCSEF Preliminary Round Participant

Abrianna Reddy
Project Title: The Effect of Diet on the Regeneration Rate of Dugesia tigrina
NYCSEF Preliminary Round Participant

Daniel Restifo
Project Title: Reduced Willpower and Decision Fatigue Among Supermarket Shoppers
NYCSEF Preliminary Round Participant

Alexa Rizzuto
Project Title: The Influence of Parenting Styles on Teen Happiness
NYCSEF Preliminary Round Participant

Washika Ruhani
Project Title: The Impact of College Tuition and Educational Debt on the Choice of Degree a Student Wants to Pursue
NYCSEF Preliminary Round Participant

Jhumpa Sarkar
Project Title: Don't Cap! Use Tap!: A Study on Bottled Water and Tap Water Preferences of College Students
NYCSEF Preliminary Round Participant

Solly Sebastian
Project Title: The Effects of Kanamycin Encapsulated Nanogels on E.coli
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Third Award
US Metric Association

Maryam Shahab
Project Title: The Effect of Sunscreen on the Amount of Skin Damage Caused by UV Rays
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
NYCSEF Second Award

Stiven Shkembi
Project Title: Development of an Environmentally Friendly Organic Solar Paint
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ASM Materials Education Foundation
NYCSEF Third Award

Talwinder Singh
Project Title: The effect of an early postnatal lesion of the thalamic nucleus on pyramidal cell apical dendrite lengths in the prefrontal cortex
NYCSEF Preliminary Round Participant

Sadiqa Taaseen
Project Title: The Effect of Syzygium aromaticum on the growth of Serratia marcescens
NYCSEF Preliminary Round Participant

Alessandra Taboada
Project Title: Pilot Study: Characterization of Diquinolinium Compounds and Study of Their Interaction with DNA
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant
ASM Materials Education Foundation
NYCSEF Second Award
US Metric Association
Yun-Ping Tseng  
*Project Title: Utilization of Wind Power Using Sail in Shipping Transportation*  
NYCSEF Preliminary Round Participant

Saloni Vishwakarma  
*Project Title: The Effect on the Behavior of Drosophila melanogaster When Presented With Distilled Water, Orange Flavedo, and Increasing Volumes of Octyl Ethanoate*  
NYCSEF Preliminary Round Participant

Catherine Vozikis  
*Project Title: The Impact of Qualities of Hospice Care on Family Members of Terminally Ill Patients*  
NYCSEF Preliminary Round Participant

Simrankaur Wahan  
*Project Title: The Effect of Different Materials on Oil Absorption*  
NYCSEF Preliminary Round Participant

Linda Wu  
*Project Title: A comparison of the rate of proton transport in the d-channel of cytochrome c oxidase in Paracoccus denitrificans and the bovine heart*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award

Elizabeth Yakubova  
*Project Title: Spine Distribution and Density within Pyramidal Cells of the Somatosensory Cortex in C57 Black 6 Mice*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Third Award  
The City University of New York Scholarship - Hunter College

Fatmira Curovic  
*Project Title: The Effect of Sleep on Cognition and Motor Development in Infants*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
Department of Health and Human Services  
NYCSEF Third Award

Theodora Danias  
*Project Title: Eye Abnormalities Caused by the N-Ras Gene*  
NYCSEF Preliminary Round Participant

Shreya Jain  
*Project Title: Using a 3-Point Bending Test to Measure Metatarsal Bone Strength and Stiffness to Reduce Sports Injuries in Athletes™ Feet*  
NYCSEF Preliminary Round Participant

Chelsey Lin  
*Project Title: Recombinant Production of the Potassium Channel-Activating Snake Toxin Ttx7335*  
NYCSEF Preliminary Round Participant

Kevin Lin  
*Project Title: DNA Barcodes of Staten Island Snapping Turtles and Their Leech Parasites*  
NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant  
NYCSEF Second Award

Freeman Lou  
*Project Title: A time division multiple access with data prediction protocol for underwater wireless sensor networks.*  
NYCSEF Preliminary Round Participant

Emily Maj  
*Project Title: Can a Computerized Language Learning Program Foster Russian Language Acquisition?*  
NYCSEF Preliminary Round Participant

Julia Medina  
*Project Title: The Effectiveness of Sex Education in High School Students*  
NYCSEF Preliminary Round Participant
Ewa Przybylko

Project Title: The Effects of Operant Conditioning on Patterns of Social Behavior in Heterocephalus Glaber

NYCSEF Preliminary Round Participant

Sarah Stalerman

Project Title: Using Morphological Measurements to determine the health of Painted turtle populations of Long Pond and Freshkills Park

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Third Award

Akash Vaidya

Project Title: DNA Barcodes of Staten Island Snapping Turtles and Their Leech Parasites

NYCSEF Preliminary Round Participant and NYCSEF Finals Round Participant

NYCSEF Second Award