

**Commack High School**

***Research Class of 2020***

**Ethan Abbe**

*University of Edinburgh*

The Effect of Imidacloprid on Planarian Regeneration

**Candace Arneaud**

*Stony Brook University*

Comparative Study of Metal Absorption Rates and Effects in *Aster anellas* & *Carex morrwii*

**Cheung, Nathan**

*Washington University-St. Louis*

The Loss of *E. Coli* Kanamycin Resistance Through Intraspecies Competition

**Choi, Wonjeong**

*George Washington University*

The Effect of High Fat Diet Feeding in Drosophila melanogaster on the Upd2 Protein

**Citera, Anthony**

*Marist College*

Optimizing the Catalyst Activity of Metal Nitrates to Produce Oxygen in the Electrolysis of Water

**Demacoupoulos, Elizabeth**

*Fordham University*

Calcium Sulfate and Sulfur Effects on on *Phaseous vulgaris* Germination in Saline Environments

**DiPrima, Emily**

*University of Rhode Island*

The Positional Effects of a Phenolic Hydroxyl Group in Cinnamic Acid Derivation on Antimicrobial Activity

**Downey, Emma**

*Georgia Institute of Technology*

Developing Unique Strains of Fruit Flies Using Transposable Elements

**Elferis, Mikayla**

*Binghamton University*

The Positional Effects of a Phenolic Hydroxyl Group in Cinnamic Acid Derivation on Antimicrobial Activity

**Feigenbaum, Matthew**

*University of Michigan*

Developing Unique Strains of Fruit Flies Using Transposable Elements

**Gembs, Nicholas**

*Cornell University*

Analysis of Tidal Flat Elevations in the Texas Barrier Islands using MATLAB

**Goren, Mia**

*SUNY New Paltz*

The Effect of Ellagic acid on Lipase Activity

**Greco, Nicholas**

*University of Maryland*

The Accuracy of "the Bipyridine Method" When Determining the Amount of Iron in Various Iron Tablets

**Haupt, Theresa**

*Haverford College*

Outer Membrane Vesicle and Tube Formation in Francisella

**Held, Amy**

*Binghamton University*

Calcium Sulfate and Sulfur Effects on on *Phaseous vulgaris* Germination in Saline Environments

**Karadenes, Emma**

*Northeastern University*

Matrix Metalloproteases as Inflammatory Factors in Vestibulodynia

**Khan, Marina**

*Binghamton University*

Developing Unique Strains of Fruit Flies Using Transposable Elements

**Kim, Charlson**

*Yale University*

CNN-LSTM Based Automatic Diagnosis of Schizophrenia Using EEG Input

**Kong, Christine**

*University of Pennsylvania*

Enhancing the Performance of Novel Cellulose Membranes for the Proton Exchange Membrane Fuel Cell

**Lee, Ruth**

*Columbia University*

The Use of Deep Learning to Translate Low Fidelity Data to High Fidelity Data — Application to X-Ray Absorption Spectra

**Liao, Kimberly**

*Massachusetts Institute of Technology*

Identification of a Model Agnostic Disease Driver in Non-Alcoholic Steatohepatitis; Implications for Drug Development

**Maikowski, Alexis**

*Binghamton University*

The Accuracy of "the Bipyridine Method" When Determining the Amount of Iron in Various Iron Tablets

**Malik, Izza**

*Stony Brook University*

Comparative Study of Metal Absorption Rates and Effects in *Aster anellas* & *Carex morrwii*

**Mastroianni, Sophia**

*Northeastern University*

Developing Unique Strains of Fruit Flies Using Transposable Elements

**O'Connor, Sarah**

*SUNY Cortland*

Developing Unique Strains of Fruit Flies Using Transposable Elements

**Pace, Abigail**

*University at Buffalo*

Developing Unique Strains of Fruit Flies Using Transposable Elements

**Rahim, Faizali**

*Rutgers University (New Brunswick)*

An Analysis of the Effects of Guar Gum and Cara geenan on *E. coli*

**Rana, SShamtej Singh**

*Johns Hopkins University*

Wildfire Prediction and Reduction for the West Coast of the USA Using a Neural Network Approach

**Sahin, Funda**

*Columbia University*

An Analysis of the Effects of Guar Gum and Cara geenan on *E. coli*

**Sontarp, Ethan**

*Princeton University*

Modeling Uranium Uptake in Fossilized Teeth and Bones: Insight into the Potential for Long-Term Uranium Waste Storage in Phosphates

**Strickland, Joseph**

*Rochester Institute of Technology*

The Effect of Different Types of Coastal Defense Structures on Coastal Flooding

**Tolentino, Caitlin**

*Stony Brook University*

Developing Unique Strains of Fruit Flies Using Transposable Elements

**Viglietta, Louis**

*Princeton University*

A Comparison of the Kinetic Effects of Different Ionic Catalysts on Hydrogen Peroxide Decomposition

**Zahran, Mariam**

*New York Institute of Technology*

Identificatin of Disease-driving Nodes in Acute Kidney Injury

**Zareif, Michael**

*Stony Brook University*

Saponification: Making Longer Lasting Soaps