# **Regeneron ISEF** 2024 Grand Award Winners

Best in Category $5,000, First $3,000, Second $1,500, Third $1,000, Fourth $500

| | Award | Name | School | Title |
|---|---|---|---|---|
| **Animal Sciences** | Third | **Kaitlin Ho** | North Shore High School | *Cocoa's Cognitive Triumph: The Rescue of the Alzheimer's Model of* Drosophila melanogaster *with* Theobroma cacao *Supplementation* |
| | Fourth | **Katherine Lee** | Jericho High School | *C-Fos and Reelin Protein Localization: Brain Fluorescence Imaging of Activity Pathways in Mice During Sensory Behavior Tasks* |
| | **Award** | **Name** | **School** | **Title** |
| **Behavioral & Social Sciences** | Third | **Syon Khatter** | Plainview-Old Bethpage John F. Kennedy High School | *Investigating Impacts of Sucralose on Hedonic Feeding Behaviors in C. elegans as a Model for Prevention and Treatment of Obesity and Eating Disorders* |
| | **Award** | **Name** | **School** | **Title** |
| **Biomedical and Health Sciences** | Fourth | **Alena Tsai** | Manhasset High School | *Integrated In-silico and In-vitro Experimental Strategies for the Application of Carbon Quantum Dots in Alzheimer's Research* |
| | **Award** | **Name** | **School** | **Title** |
| **Cellular and Molecular Biology** | Third | **Ava Goldsmith** | John F. Kennedy High School | *Targeting of Epichaperome Downregulates HCFC1 Mediated Transcription of Oncogenes: Implications in Breast Cancer Therapy* |
| | **Award** | **Name** | **School** | **Title** |
| **Computational Biology and Bioinformatics** | Fourth | **Tessla Chan** | Roslyn High School | *Utilizing Deep-Learning to Facilitate Diagnosis of Look-Alike Leukemia Subtypes* |
| | **Award** | **Name** | **School** | **Title** |
| **Earth and Environmental Sciences** | Third | **Manfred Lim** | Jericho High School | *From Data to Insights: Understanding Global Soil Respiration Through Machine Learning* |
| | Fourth | **Yoav Muscal** | Plainview-Old Bethpage John F. Kennedy High School | *Using Machine Learning Species Distribution Modeling as a Novel Approach to Efficiently Predict Forest Development Suitability* |

| | Award | Name | School | Title |
|---|---|---|---|---|
| **Embedded Systems** | **Second** | **James Nagler** | Garden City High School | *Project Vision - Assisted Navigation & Waypoint Positioning through 3D Mapping* |
| | **Award** | **Name** | **School** | **Title** |
| **Environmental Engineering** | **Third** | **Dylan Yoon** | Manhasset High School | *The Enhancement of a Novel 3D-Printed Electrodialysis Device through the Implementation and Optimization of Spacer Designs* |
| | **Award** | **Name** | **School** | **Title** |
| **Materials Science** | **Third** | **Samyra Mahiba** | Jericho High School | *DNA Crystallography: Exploring Small-Molecule Interactions With DNA for Nanoscale Drug Delivery* |
| | **Award** | **Name** | **School** | **Title** |
| **Microbiology** | **Second** | **Mehek Sawhney** | Commack High School | *Secretion of the Francisella tularensis Protein FTL_1123 by Escherichia coli Containing the HlyBD Operon* |
| | **Award** | **Name** | **School** | **Title** |
| **Plant Sciences** | **Fourth** | **Leah Fromm** | East Hampton High School | *Growth promotion of hydroponic Lactuca sativa var. capitata and microgreen Raphanus sativus when exposed to Pseudomonas psychrotolerans consistently throughout the growth period* |
| | **Award** | **Name** | **School** | **Title** |
| **Systems Software** | **Third** | **Milan Lustig** | Cold Spring Harbor Jr/Sr High School | *A Configurable Compiled Programming Language With Integrated Transpilation* |