



Regeneron ISEF 2023 Grand Award Winners

First \$5,000, Second \$2,000, Third \$1,000, Fourth \$500

	Award	Name	School	Title
Animal Sciences	Third	Ibrahim Qadri	Valley Stream South HS	The Ability of Vitamin E to Improve the Locomotor Fitness, Reproduction, and Metabolic Respiration of Nicotine-Induced <i>D. melanogaster</i>
Behavior & Social Sciences	Fourth	Elif Koch	Plainview-Old Bethpage JFK HS	Impacts of Levodopa and Traditional Medicines on the Locomotion of Alpha-Synuclein <i>Caenorhabditis elegans</i>
		Holy Mary Zaher	Smithtown HS East	The Correlation Between Peroxisome Levels and Short-Term Memory Loss in a PINK1 -/- Rat Model of Parkinson's Disease
Biomedical and Health Sciences	First	Natasha Kulviwat	Jericho High School	Claudin-5: A Novel Biomarker of Blood-Brain Barrier Breakdown to Predict and Prevent Suicide
Biomedical Engineering	Third	Natalia Pahlavan	Jericho High School	Bidirectional 12-lead Electrocardiogram and Electrogram Reconstruction Using a Cycle Generative Adversarial Network
Cellular and Molecular Biology	Fourth	Lucas Sher	Jericho High School	Rethinking Pancreatic Ductal Adenocarcinoma (PDAC) Prognosis: Analysis of KRAS-dependent Biomarkers Across Subtypes
Computational Biology	First	Kevin Zhu	Jericho High School	Micro-Changing Short Tandem Repeats: Investigating A Novel Genomic Factor of Polymorphism in 10 Human Cancers
Energy: Sustainable Materials and Design	Fourth	Emily Theodosopoulos	Manhasset High School	Production of Plasma-Enhanced SiO ₂ films for optimizing photovoltaic cells
Materials Science	Second	Vincent Huang	Syosset High School	An advanced computer app for simulating white-beam diffraction Laue patterns in modern X-ray crystallography