

Regeneron ISEF 2022 Grand Award Winners

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

Best III C	Award	Name	School	Title
H. Robert Horvitz Prize for Fundamental Research	\$10,000 This award is given to the project that represents the best in fundamental research that furthers our understanding of science and/or mathematics and promotes the understanding of natural phenomena without clearly defined applications towards processes or products in mind.	Rebecca Cho	Jericho High School	Reconstruction Modeling Using Tectonics and Climate of Western North America
	Award	Name	School	Title
Animal Sciences	Third	Sarah Schubel	Smithtown High School East	Loss of NMDA Receptor Signaling Results in Excess Proliferation of CNS and Neural Crest-Derived Cells
	Award	Name	School	Title
Behavior & Social Sciences	Fourth	Kyle Kavully	Plainedge High School	American Dream or American Myth? A Linear Regression Analysis of American Attitudes as a Factor of Race and Ideology
	Award	Name	School	Title
Biomedical and Health Sciences	Second	Griffin Hon	Syosset High School	Repurposed Cephalexin Causes Multifaceted Pro-Cancer Effects by Way of Wnt Signaling Pathway

	Award	Name	School	Title
Biomedical Engineering	Third	Natalia Pahlavan	Jericho High School	Automatic Diagnosis of Cardiovascular Disease: 12- Lead Electrocardiogram and Elucidating Sex Differences via Deep Learning
Cellular and	Award	Name	School	Title
Molecular Biology	Third	Miah Margiano	Saint Anthony's High School	LncRNAs Influence on NK Cells: Potential Therapeutic Target for Neuroblastoma
	Award	Name	School	Title
Chemistry	Third	Alex Wang	Syosset High School	Computational Assessment of Macrocyclic Host-Guest Ion- Dipole Interactions With Negative Pores
	Award	Name	School	Title
Computational Biology	First	Kevin Zhu	Jericho High School	Recurrent Repeat Contractions: Investigating a Novel Genomic Factor of Polymorphism in 10 Human Cancers
	Third	Amber Luo	Ward Melville High School	RiboBayes: Assessing the Transcriptome-Wide Expression of Ribosome Pause Sites in Ribosome Profiling Data With Bayesian Wavelet Thresholding
	Award	Name	School	Title
Earth and Environmental Sciences	First	Rebecca Cho	Jericho High School	Reconstruction Modeling Using Tectonics and Climate of Western North America
	Second	Tarunika Sasikumar	Plainview-Old Bethpage John F. Kennedy High School	Assessing the Efficacy of the U.S. Endangered Species Act Through the Novel Quantification of Species Charisma and Respective Population Trends
	Award	Name	School	Title
Embedded Systems	First	James Nagler	Garden City High School	Project Vision: Virtual Environment Through Artificial Intelligence Recognition
	Award	Name	School	Title
Environmental Engineering	Third	Emily Kim	Jericho High School	RB5 Dye Removal Using Activated Carbon Under UV Irradiation
	Award	Name	School	Title
Mathematics	Third	Daniel Salkinder	Half Hollow Hills High School East	Nxnxn Rubik's Cubes and God's Number

	Award	Name	School	Title
Microbiology	Third	Laxshanna Raveendran	Commack High School	Characterizing the Secretion of the Francisella tularensis Protein FTL_1123