



ISEF 2019 Grand Award Winners

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

	Award	Name	School	Title
European Union Contest for Young Adults	Trip to Bulgaria to present the students research	Poojan Pandya Leo Takemaru	Half Hollow Hills High School West	<i>Investigating the Role of the Novel ESCRT-III Recruiter CCDC11 in HIV Viral Budding: Identifying a Potential Target for Antiviral Therapy</i>
		Kaylie Hausknecht	Lynbrook High School	<i>Disentangling Spatial Correlations from Inhomogeneous Materials with Shift-Invariant Artificial Neural Networks</i>
Animal Sciences	Award	Name	School	Title
	Second	Anthony D'Amore	Smithtown High School East	<i>Habitat Preference Drives Brain Shape in Crocodylomorphs</i>
Behavior & Social Sciences	Award	Name	School	Title
	Second	Jessica Goldstein	Plainview Old Bethpage JFK High School	<i>The Novel Volumetric Quantification of the Chemobrain Phenomenon within a Pediatric Population</i>
Biomedical and Health Sciences	Fourth	Matthew Mullahy	Smithtown High School East	<i>Brain Inflammatory Responses Compromise NG2-Glial Homeostasis During Depression</i>
		Shruthi Shekar	Jericho High School	<i>MALAT1 & SOX: Understanding Metastatic Progression Post Application of Negative Pressure Wound Therapy on Cancer Resected Wound Beds</i>
Cellular and Molecular Biology	Award	Name	School	Title
	First	Madhav Subramanian	Jericho High School	<i>ETM* is Indispensable to Endothelial Behavior During Pathological Angiogenesis</i>
Computational Biology	Fourth	Matthew Weltmann	Half Hollow Hills High School East	<i>Palbociclib Treated MDA-MB-231 Breast Cancer Cells Exhibit Increased Invasive Behavior in Zebrafish Xenograft Model</i>
		Arianna Pahalavan	Jericho High School	<i>Discretizing a Hybrid Cardiac Reconstruction: A Novel Simulation of Sustained Fibrillation</i>

	Award	Name	School	Title
Earth and Environmental Sciences	Third	Kelsey Ge	Ward Melville High School	<i>Multidecadal Trends in Tropical Cyclone Behavior within Tropical North Atlantic Sub-basins</i>
	Fourth	Yuktha Chiguripati	W. Tresper Clarke High School	<i>Pretreatment of Brassica rapa with Pyrabactin Increases Tolerance to Drought</i>
Energy: Chemical	Award	Name	School	Title
	Third	Danielle Kelly Audrey Shine	Friends Academy	<i>Identification of Micrometeorites Through Synchrotron Analysis</i>
Environmental Engineering	Award	Name	School	Title
	Third	Serena Zhao Samantha Chen	Manhasset High School	<i>Optimizing the Removal of Methylene Blue from Contaminated Water Using Pumpkin Rind Waste and an Analysis of Desorption Efficiency and Material Reusability</i>
Microbiology	Award	Name	School	Title
	Best in Category	Poojan Pandya Leo Takemaru	Half Hollow Hills High School West	<i>Investigating the Role of the Novel ESCRT-III Recruiter CCDC11 in HIV Viral Budding: Identifying a Potential Target for Antiviral Therapy</i>
	First	Poojan Pandya Leo Takemaru	Half Hollow Hills High School West	<i>Investigating the Role of the Novel ESCRT-III Recruiter CCDC11 in HIV Viral Budding: Identifying a Potential Target for Antiviral Therapy</i>
Physics and Astronomy	Award	Name	School	Title
	Best in Category	Kaylie Hausknecht	Lynbrook High School	<i>Disentangling Spatial Correlations from Inhomogeneous Materials with Shift-Invariant Artificial Neural Networks</i>
	First	Kaylie Hausknecht	Lynbrook High School	<i>Disentangling Spatial Correlations from Inhomogeneous Materials with Shift-Invariant Artificial Neural Networks</i>