



Charles Duggan LISEF 2012 Grand Award Winners

All **First Place** Winners Win an All Expense Paid Trip to ISEF 2012

	Award	Name	School	Title
Animal Sciences	First	Trinity Russell	Commack High School	<i>A Comparison of Laboratory Reared Stock and Recently Outdoor Captured Fruit Flies (Drosophila melanogaster) using Phototactic, Upward Movement, and Starvation Assays</i>
	Second	Michelle Chyn and Victoria Wei	Manhasset High School	<i>The Role of Ethanol or Methamphetamine Induced Immune-Suppression in Mytilus edulis Hemocytes</i>
		Lauren Joyce and Emily Passarelli	South Side High School	<i>The Cost of the Genetic Resistance of Mya arenaria to Paralytic Shellfish Toxins</i>
	Third	Anirudh Chandrashekar	Jericho High School	<i>Identification of Drosophila melanogaster Gustatory Receptor 23a (gr23a) Response in Olfaction and Gustation Mechanisms</i>
		Tanya Jain	Half Hollow Hills High School West	<i>“The Cell Soluble UBA1 Inhibitor PYR-41 Impacts Normal Development in Danio rerio</i>
		Harrison Pravder	William A. Shine Great Neck South High School	<i>An Investigation of the Role of Serine/Arginine Domain-Containing Proteins on Fat Metabolism in Drosophila melanogaster Using RNAi</i>
	Honorable Mention	Dalton Brauer	East Hampton High School	<i>The Effect of Ocean Acidification on Regeneration Rate of Brittle Stars</i>
		Alexis Brown	Sayville High School	<i>Population Ecology of Ectoparasites Of Mormoopid Bats From</i>

				<i>the Osa Peninsula, Costa Rica</i>
		Michael Emerson, Noman Hamrani and Alexander Harwood	Smithtown High School West/Brentwood High School/Brentwood High School	<i>The effects of crude oil exposure on byssal thread production and mechanics in Mytilus edulis</i>
		Caroline Hsiao	Manhasset High School	<i>Study of Malathion's Effect on Mollusk Mytilus edulis: Its Implications with Animal and Human Health</i>
		Ross Iscowitz	Bellmore - John F Kennedy High School	<i>A Behavioral Analysis of Auditory Decision-Making in Mice</i>
		Lakshmi Nair	William A. Shine Great Neck South High School	<i>The Influence of Anesthesia on FDG Uptake in Rodent Model</i>
Behavior and Social Sciences	Award	Name	School	Title
	First	Brett Gossett	Bellmore - John F Kennedy High School	<i>Are Some Disabilities More Handicapping than Others? A Comparison of Teacher Grading of Children with Medical, Physical and Behavioral Disabilities</i>
		Benjamin Kornick	Roslyn High School	<i>OMG: Look Who Joined Facebook! The Relationship Between Parenting and Adolescent Risk Behaviors</i>
	Second	Nishad Damle	Plainview Old Bethpage JFK High School	<i>Identifying the Role of the Adhesio Interthalamica in Schizophrenia</i>
		Aaron Lewis	Syosset High School	<i>Influence of Quarterly Earnings Reports on the Stock Market Performance of Publicly Traded Technology Companies</i>
		Daniel Sikavi	Roslyn High School	<i>The Relationship Between Psychosocial Factors in the Patient-Oncologist Relationship and Quality of Care: A Study of Breast Cancer Patients</i>

	Third	Sherilyn Gould	Plainview Old Bethpage JFK High School	<i>The Impact of Acculturation on the Intergenerational Congruence Between the Parent and Child in Immigrant Families</i>
		Claire Leibowicz	John L. Miller Great Neck North High School	<i>The Neuropsychology of Social Instincts: A Behavioral and Information-Theoretic Analysis of the Cues Involved in Trustworthiness Evaluations</i>
		Adam Pollack	Paul D Schreiber High School	<i>Keeping Kids in School: The Role of Parental Support for LGBT Students</i>
		Talia Schwartz	Plainview Old Bethpage JFK High School	<i>The Effects of One's Perception of their Parents' Parenting Styles on Bullying and Victimization</i>
	Honorable Mention	Samantha Asofsky	Bellmore - John F Kennedy High School	<i>The Effect of Repetitive Transcranial Magnetic Stimulation on Obsessive-Compulsive Disorder Patients' Quality of Life</i>
		Samantha Finkel	Bellmore - John F Kennedy High School	<i>The Effect of Social Networking Sites on Teenage Relationships and Decisions</i>
		Joanna Finkelstein	Roslyn High School	<i>Look Who's Stereotyping Now! The Effects of Power and Target Gender on Perceptions of a Job Applicant</i>
		Samantha Fradkin	Plainview Old Bethpage JFK High School	<i>The Effects of Wellness Policies on the Low- and High-Nutritional Food Consumption of High School Students with Various Levels of Self-Control</i>
		Maggie Rouder	Lynbrook High School	<i>The correlation of the nutritional awareness and dietary development of young children</i>
		Michael	Paul D Schreiber	<i>Resource Type and its</i>

		Schweitzer	High School	<i>Effect on Altruistic Decision-Making</i>
		Joan Wang	Syosset High School	<i>Group Polarization and the Bystander Effect in Internet Communications: A Case Study of Online Responses and Reactions in Yahoo News</i>
		Samantha Weintraub	Plainview Old Bethpage JFK High School	<i>The Impact of a Child Leaving the Home for College on the Stability of a Family</i>
Biochemistry	Award	Name	School	Title
	First	April Pun	Jericho High School	<i>DNA Repair Mechanisms: Investigations of Base Excision Repair Pathway in Differentiated and Proliferative Neuronal CAD Cells</i>
	Second	Madison Bondy and Hannah Byrne	South Side High School	<i>An Examination of the Effectiveness of the Antimicrobial Properties of Magnifera Indica Kernels</i>
	Third	Daniel Lee	William A. Shine Great Neck South High School	<i>Exploring the Interaction Between ACP and Beta-ketoacyl Synthases</i>
		Hannah Kenagy	Half Hollow Hills High School East	<i>Understanding the Pathogenesis of Acid-Resistant E. coli: Computational Modeling of pH-Dependent Conformational Changes in GadB</i>
	Honorable Mention	Anjali Agarwalla	Herricks High School	<i>A Novel Method For Studying the Oxidative Polymerization of Dopamine and Its Utility in the Study and Treatment of Parkinsonism</i>
		Karan Kumar	North Babylon High School	<i>The Effect of Incense Particulate Matter on Drosophila Melanogaster</i>
		Rebecca Mazur	Bellmore - John F	<i>The Role of PRMT5</i>

			Kennedy High School	<i>and MEP50 on the Proliferation Rate and Invasive Potential of Hs578T Breast Carcinoma Cells.</i>
		Julia Tollin	Wellington C. Mephram High School	<i>DARTS- Target id in mycobacterium tuberculosis</i>
		Daniel Wang	W. T. Clarke High School	<i>Improving Computational Simulations of Biomolecules via Radius of Gyration Restraints</i>
Cellular and Molecular Biology	Award	Name	School	Title
	First	Rebecca Alford	Commack High School	<i>A Novel Structure-Based Approach to Predicting the Functional Effects of Mutations in Membrane Proteins</i>
		Charles Yu	The Wheatley School	<i>Mitigating the Effects of the Morphine Signaling System- A Novel Treatment for Diabetes</i>
	Second	Neil Mehta	Jericho High School	<i>Co-restoration of Type III Nrg1 back signaling through depolarization: Implications for schizophrenia</i>
		Sean Oh	The Wheatley School	<i>The Neuroprotective Effects of Docosahexaenoic Acid and Lithium Chloride: a Novel Pathway Implicated in Alzheimer</i>
	Third	Joshua Cho	William A. Shine Great Neck South High School	<i>Sensitization of Human Breast and Cervical Cancer to Anti-cancer treatments by Gene Therapy of a Novel Human Gene.</i>
		Shivee Gilja, Owen Grimm and Stephanie Ying	Manhasset High School	<i>Mechanisms of Muscle Atrophy Caused by Type 2 Diabetes Mellitus</i>
		Savina Kim	Commack High School	<i>Cognitive Deficits in Neuropsychiatric Disorders: A Schizophrenia Model Associated with Neuronal Alpha7</i>

				<i>Nicotinic Acetylcholine Receptor Localization</i>
		Kevin Mathew	Sewanhaka-Elmont High School	<i>Analysis on the regulation and function of DNA Polymerase Eta in Schizosaccharomyces pombe</i>
		Evan Schneider	Roslyn High School	<i>Folate Coated Platinum Nanoparticles: A Novel Innovation for Cancer Treatment</i>
	Honorable Mention	Asia Brown	Sanford H. Calhoun High School	<i>analysis of altered Gene expression in Human colon cancer cells exposed to the methylation inhibitor 5-aza-2</i>
		Kevin Clare	Northport High School	<i>What is the effect of a specific toxic factor on the cellular death cascade of Death Receptor 6?</i>
		Holly Flores and Austin Wild	Huntington High School/South Side High School	<i>A Study of the Extracellular Matrix in Dental Pulp Stem Cell Differentiation with and without Static Magnetic Fields</i>
		Sarah Han and Meenakshi Krishna	Half Hollow Hills High School West/Herricks High School	<i>Oxygen and nitric oxide levels regulate the expression of the angiogenesis inhibitor thrombospondin-2</i>
		Anisha Khemlani and Nidhi Mann	Plainview Old Bethpage JFK High School	<i>Examination of the effect of adding a SNAP-tag to the N-terminus of a Glycine Receptor</i>
		Connie Long	Half Hollow Hills High School East	<i>U2AF35 inhibits Exon 7 Splicing of survival of Motor Neuron Genes</i>
		Samantha Meadows	Sachem High School East	<i>The Effects of Sequestered Versus Secreted MBP-1 on Beta-Amyloid Toxicity in N20.1 Oligodendrocytes</i>
Danielle Scarano	Plainview Old Bethpage JFK High School	<i>Isolation of High Copy Suppressors of the Meiotic Recombination Defect due to a</i>		

				<i>Weakened Version of the Meiosis-specific Mek1 Kinase</i>
		Michael Shen	Jericho High School	ADIPOSIY ASSOCIATED GENES REGULATE THE PROLIFERATION OF 3T3-L1 PREADIPOCYTES
Chemistry	Award	Name	School	Title
	First	Steve Jang	Commack High School	<i>Synthesis and Analysis of Phototriggers for Drug Delivery Systems</i>
	Second	Aneesh Shah	Half Hollow Hills High School East	<i>Spectroscopic Characterization of the Reactivity of Substrate Water Molecules in Bio-inspired Catalysts for Water Oxidation</i>
	Third	Sarah Chapin	Herricks High School	<i>Computer-Aided Drug Discovery: Structure-Based Design and Evaluation of Small Molecule Botulinum Neurotoxin Inhibitors</i>
	Honorable Mention	Shaheer Alam and Andrew Koe	Plainview Old Bethpage JFK High School/Herricks High School	<i>Enzyme Eluting Polymeric Microparticles</i>
		Kristine Chen	John L. Miller Great Neck North High School	<i>The Preparation of Nanoparticle-Stabilized Antibubbles Optimized for Long Lifetime</i>
		Garima Yadav	Sachem High School North	<i>Discovery of Novel Benzimidazole-based Antibacterial Agents Targeting FtsZ for Potential Treatment of Drug-resistant Tuberculosis</i>
Computer Science	Award	Name	School	Title
	First	Bailey Liao and Azaria Zornberg	Half Hollow Hills High School West	<i>Effective Prevention of Memory Error Exploitation Through the Use of Memory Address Randomization</i>
	Second	Hannah Blumberg	Paul D Schreiber High School	<i>Modeling the Adaptive Venation Network of Physarum polycephalum</i>
	Honorable	Shreyas	Half Hollow Hills	<i>A Comparison of</i>

	Mention	Havalдар and Brian Levy	High School East	<i>Classification Algorithms for Detection of Colon Cancer</i>
		Neil Khosla	East Meadow High School	<i>A Mathematical Model of a Smallpox Attack in a Representative Long Island Town Using the Java Computer Language</i>
		Nicholas Walsh	Syosset High School	<i>Creating a Cyber Security Program in Java Using Application Whitelisting With Polymer Extensions</i>
Earth & Planetary Sciences	Award	Name	School	Title
	First	Nickolas Boroda	Massapequa High School	<i>Hurricane Signatures within Tree Ring Records, Fire Island New York</i>
	Second	Eric Drewitz	Northport High School	<i>The Effects of Hydration State and Synthesis Methods on the Structure of Amorphous Calcium Carbonate</i>
	Honorable Mention	Neema Patel	Smittown High School West	<i>Reconstruction of Marine-pH and CO₂ Levels during Ordovician using Boron Isotope Composition of Brachiopods</i>
		Benjamin Pleat and Raymond Wu	Herricks High School/Jericho High School	<i>A Novel Approach to Approximating Sea Level Rise Using Statistical Methods Applied to United States East Coast Tide Gauge Data</i>
		Susan Wu	John L. Miller Great Neck North High School	<i>Reactive Transport Model of Anthropogenic Carbon Sequestration</i>
Engineering: Electrical & Mechanical	Award	Name	School	Title
	First	Andrew Hurst and Zachary Klein	Long Beach High School	<i>The Synthesis of a compound device to maximize solar and wind energy</i>
	Honorable Mention	Joshua Haimson	Wellington C. Mepham High School	<i>Development of a Robust Open Platform Software Utility for the Modeling & Design of Solar Photovoltaic Systems</i>

Engineering: Materials & Bioengineering	Award	Name	School	Title
	First	Japbani Nanda	W. T. Clarke High School	<i>The Ultimate Delivery Package: Implementing Composite Hydrogels for Use in Cell and Drug Delivery Applications</i>
	Second	Prady Manepalli and Sonia Sethi	Smithtown High School West/Plainview Old Bethpage JFK High School	<i>Functionalization of Nanoparticles via Bingel Reaction to Increase Solubility in Aqueous Media</i>
	Third	Eric Methodiev	West Islip High School	<i>Optimization of Nanoscale Morphology of Polystyrene-Ordered Electron Donor-Acceptor Channels in Organic Photovoltaic Cells</i>
		Nicholas Suss	South Side High School	<i>Effects of Polycaprolactone Electrospun Fibers on Osteogenic Differentiation of Dental Pulp Stem Cells</i>
	Honorable Mention	Matthew Calo	Sanford H. Calhoun High School	<i>Improving the use of recycled high impact polystyrene in concrete</i>
		Rachel Davis	Smithtown High School East	<i>Engineering Flame Retardant Polymers</i>
		Jason Katz	North Shore Hebrew Academy High School	<i>Stochastic Modeling of Quorum Sensing in Bacteria</i>
		Eric Parigoris	Kings Park High School	<i>Low-Intensity Vibration as a Potential Treatment for Wound Healing Through Modulation of the Inflammatory Response and the Differentiation of Macrophage Progenitor Cells under the Challenge of a Bacterial Endotoxin</i>
		Mariyam Qureshi	Valley Stream South High School	<i>Dynamics Underlying Tissue Integrity</i>
Energy & Transportation	Award	Name	School	Title
	First	Nicholas Dipreta and Kevin Li	Manhasset High School	<i>Evaluation of the CuZnO Catalyst In Water Gas Shift Reaction For Enhanced</i>

				<i>Hydrogen Production</i>
	Second	Caroline Walsh	Long Beach High School	<i>Reinventing Solar Cells: The effect of different pigments on the efficiencies of dye-sensitized solar cells</i>
	Honorable Mention	Jacqueline Kalomiris	Sayville High School	<i>An Analysis of Lipid Biosynthesis and Inhibition in Chlamydomonas reinhardtii</i>
		Michael Karavolias	Hauppauge High School	<i>Comparative effects of Various Proteins on Glycine Max Biodiesel Cloud Point</i>
		Melissa Michels and Mike Schulz	Sachem High School North	<i>Alternative sources for ethanol production</i>
Environmental Management	Award	Name	School	Title
	First	Rajkumar Pammal	Commack High School	<i>Improving Reverse Osmosis Membranes for Desalination: The Modification of Cellulose Nanofibers</i>
	Second	Christopher Dipreta and Sai Senthilkumar	Manhasset High School	<i>Transgenic c. elegans: A viable bioassay for Metallic Pollution</i>
	Honorable Mention	Brendan Liu and Kristin Wong	Jericho High School	<i>Investigation of PEGDA and PAN for Filtration and Heavy Metal Adsorption</i>
		Chandler McMillan and Hunter Rogoff	Long Beach High School	<i>A natural solution to eliminate soil pollution: Relationship between Brassica juncea with Trichoderma harzianum and Streptomyces lydicus to hyperaccumulate aluminum from the soil</i>
		Robert Myrick	Sewanhaka High School	<i>Cheap Solar Water Purification for Emergencies</i>
	Environmental Sciences	Award	Name	School
First		Arianne Papa and Jane Smyth	Long Beach High School	<i>Mussels, a natural approach to water quality improvement: Assessing the impact of environmental factors on P. americanus and G. demissa status in Long Island bays and</i>

				<i>applying G. demissa as biofilters</i>
	Second	Timmothy D'Agostino and Devin Dwyer	Northport High School	<i>A Comparative Analysis of the Carbon Sequestration Efficacy of an Anionic Polymer and Indigenous Rain Forest Vegetation</i>
		Jennifer Gil and Terrence Goode	Brentwood High School	<i>The Effect of Crude Oil on the Marine Organisms, juvenile Mytilus edulis and the algal species Nannochloropsis oculata and Isochrysis galbana</i>
	Third	Saad Amer	Patchogue-Medford High School	<i>X-ray Fluorescence: A Study on Contaminants in the Environment and the Distribution of Elements in Trees</i>
		Sarah Matero	Paul D Schreiber High School	<i>A Comparison of North and South Shore Freshwater Ecosystems to Assess the Ability of an Invasive Species, Cabomba aquatica, to Effectively Remove Toxins from the Environment</i>
		Timothy Miller	Mount Sinai High School	<i>Single Particle Analysis of Ice Nucleating Aerosol Collected By Aircraft</i>
	Honorable Mention	Yousef Aly	Oceanside High School	<i>Tracing the carbon source of arsenic-releasing bacteria in Bangladesh</i>
		Anastasia Cassisi and Emily Schlicht	Locust Valley High School	<i>Onsite Monitoring of Dissolved Oxygen and Nitrogen to Aases the Effects of the Invasive Species of Trapas Natas (Water Chestnut) on a Local Pond</i>
		Jasmin Feliciano	Brentwood High School	<i>The Effects of Ocean Acidification on Hard Coral</i>
		Brian Hastings	Commack High School	<i>The Effects of Water Quality on Growth and Mortality of the Juvenile Hard Clam (Mercenaria</i>

				<i>mercenaria)</i>
Mathematical Sciences	Award	Name	School	Title
	First	Kevin Sherwin	Roslyn High School	<i>Classifying Generic Smooth Curves in the Projective Plane Related to Algebraic Curves of Degree 5</i>
	Honorable Mention	Daniel Pollack	Roslyn High School	<i>Modeling Tumor Growth and Quantifying the Duration of Time between Metastasis, Detection, and Mortality in Breast Cancer Patients</i>
Medicine & Health Sciences	Award	Name	School	Title
	First	Anoj Ilanges	Oceanside High School	<i>The role of the hippo protein and the hippo pathway in ethanol-induced stress</i>
		Ruchi Shah	Sachem High School North	<i>Beta-catenin and E-cadherin: novel protein biomarkers for improved diagnosis of precancerous lesions of the cervix</i>
	Second	Sagar Rambhia	Jericho High School	<i>RISK ASSESSMENT OF CARDIOVASCULAR PATHOLOGIES FROM DIAGNOSTICS TO DEVICE OPTIMIZATION: PATIENT-BASED FLUID-STRUCTURE INTERACTION SIMULATION STUDY</i>
		Alina Ranjbaran and Tom Wang	Garden City High School/The Wheatley School	<i>Expanding Leishmaniasis and Cancer Detection Using Molecular Imprinting for a Novel Point-of-Care Diagnostic Device</i>
		Jeremy Weber	Hebrew Academy Of The Five Towns And Rockaways	<i>Etiology and Effective treatment of Oji-Cree diabetes</i>
	Third	Parsa Erfani	Plainview Old Bethpage JFK High School	<i>Anti-inflammatory Potential of IL-27 in Psoriatic and Eczematous Immune Cells</i>
		Michael Fahey	Manhasset High	<i>The effect of P3-Q11 on</i>

		and Jake Shelton	School	<i>the Disaggregation of Q11 In Vivo and In Vitro</i>
		Serife Uzun	Jericho High School	<i>Herbal Treatment of Allergy and Inflammation: Radix Sophorae flavescens Exudate Formononetin Inhibition of TNF-a and IgE</i>
		Christie Wang	Roslyn High School	<i>Cold Shock Protein: A New Target for Attenuating Ischemic Stroke</i>
		William Zhou	Paul D Schreiber High School	<i>Effect of herbal medicine on asthma: implication of mu opiate receptor mechanism</i>
	Honorable Mention	Jonah Belser	Hauppauge High School	<i>Evaluation of Reperfusion Times in Relation to Interhospital Transfer for Primary Percutaneous Coronary Intervention in 7 Long Island, NY Hospitals</i>
		Nicolette Codispoti	Bellmore - John F Kennedy High School	<i>Quantitative Analysis of the Effects of Two Osteoclast Inhibitors on Improving Bone Properties in Mouse Models of Osteogenesis Imperfecta Using FTIRI and #956;CT</i>
		Hillel Friedman	Hebrew Academy Of The Five Towns And Rockaways	<i>A Novel Method of Combating Hematological Cancers- Inducing Cancer Cell Destruction using Kinase Inhibitors</i>
		Gabrielle Lovett	Hebrew Academy Of The Five Towns And Rockaways	<i>The Effects of Neem Oil on Apoptotic Signaling in HCT116 Colon Cancer Cells</i>
		Jonathan McGuire	Valley Stream South High School	<i>Developing a Protocol for Amyloid Beta Quantification that is Accurate, Consistent, and Time Efficient</i>
		Abigail Ritter	Half Hollow Hills High School West	<i>The Role of Post-Translational Modification of SLX4 Mutants in the Fanconi</i>

				<i>Anemia Pathway</i>
		Bradley Settle	Syosset High School	<i>Triiodothyronine Regulation of Thyroid Hormone Transporter Expression</i>
		Sohrab Vatsia	Manhasset High School	<i>Saquinavir Inhibits HMGB1 Induced Cytokine Release</i>
		Erica Weinberg	Sayville High School	<i>An Analysis of Variance of the Effects of Natural Substances on the Inhibition of Calcium Oxalate Crystallization</i>
		Laura Zweifler	Lynbrook High School	<i>Mapping of Phospho1 during Tooth Development, In Vitro and In Vivo</i>
Microbiology	Award	Name	School	Title
	First	Bilal Siddiqui	Wellington C. Mepham High School	<i>Engineering RCAS-TVA Vectors for Generating a Novel Transgenic Mouse Model of Melanoma</i>
	Second	Taylor Trentadue	Smithtown High School East	<i>Characterization of Novel Inhibitors of the Influenza Type A Virus Neuraminidase</i>
	Third	Shaun Holliday and Andrew Wong	Sachem High School East	<i>Use of Herbal Preparations to Control Dental Plaque Biofilm</i>
	Honorable Mention	Syndi Barish	Kings Park High School	<i>Co-evolution of Gene Promoters due to Gene Adjacency in Saccharomyces cerevisiae</i>
		Xiaofei Lin	Ward Melville High School	<i>Creating a Biocompatible Gelatin Model to Analyze the Effects of Substrate Rigidity on Cell Motility and Morphology</i>
		Arvind Viswanathan	Herricks High School	<i>The Effect of Titanium Dioxide Nanoparticles on Pseudorabies Virus Cellular Infection</i>
Physics and Astronomy	Award	Name	School	Title
	First	Shannon Wetzler	Kings Park High School	<i>Novel Determination of the Stopping Power And Other Characteristics of the Quark-Gluon-Plasma Based on Several Jet</i>

				<i>Modification Measurements</i>
	Second	Mark Hamilton	South Side High School	<i>Subwavelength nanostructures to control photovoltaic light absorption and LED light emission</i>
	Honorable Mention	William Chan and Hunter Dong	Syosset High School/Manhasset High School	<i>Searching For Exomoons Orbiting Kepler Mission Exoplanets Using Transit-Timing and Transit-Duration Variations</i>
		Juliana Coraor	Huntington High School	<i>The Impact of Compressive Misfit Strain on Improper Ferroelectricity in Lead Titanate/Strontium Titanate Superlattices</i>
		Alexandra McHale	Smithtown High School East	<i>Element Analysis of Zea Mays var. Rugosa (Sweet Corn) Plant and its Soil Using X-Ray Spectroscopy</i>
Plant Sciences	Award	Name	School	Title
	First	Kathryn Hochberg and Daphne Superville	G. W. Hewlett High School	<i>Unraveling the Gibberellin Signaling Pathway in Panicum virgatum</i>
	Second	Bryan Herbert, Aaron Tabibzadeh and Stephen Tranchina	Manhasset High School	<i>Maximization of Biomass and Lipid Ratio in Chlorella vulgaris to Enhance Biofuel Usability</i>
	Third	Shovon Hasan, Benjamin Kramer and Valery Zajkov	G. W. Hewlett High School	<i>The Role of Calmodulin in Regulating Seedling Germination of Panicum virgatum</i>
		Brandon Levokove and David Velez	Long Beach High School	<i>Sustaining Soil Quality II: The utilization of mycorrhizae inoculation in mitigating stress caused by pollution and degraded soils on Triticum aestivum</i>
	Honorable Mention	Emily Bih	Jericho High School	<i>The utilization of Dendroides canadensis antifreeze proteins to decrease frost damage in Arabidopsis thaliana</i>

		Will Dahl	North Shore High School	<i>Anthocyanin Overaccumulation as an Emergent Trait in Arabidopsis Allopolyploids</i>
		Elaina Mansley	Wantagh High School	<i>Modifying Auxin Pathways in Arabidopsis Thaliana Improves Plants Response To Stressors</i>
		Vishnu Tiwari	Floral Park Memorial High School	<i>Screening Dolioicarpus Brevipedicellatus for Toxicity</i>