



Charles Duggan

LISEF 2003 Grand Award Winners

All **First Place** Winners Win an All Expense Paid Trip to ISEF 2003

Behavioral Sciences	First	Alex Kardon	South Side High School	<i>Do Pay Raises Affect Measured Performance and Inferred Motivation in Professional Baseball Players?</i>
		Casey Vaughn	Lawrence High School	<i>"Deaf, Not Dumb:" Dispelling the Myth of the "Mathematics Deficit" Among Deaf Students.</i>
		Sarah Waldman	Roslyn High School	<i>The effects of stereotype threat on high school girls' performance on a math test.</i>
	Second	Rebecca Ajodan	John L. Miller Great Neck North High School	<i>The Effect of Method of Communication on Social Emotional Inferences</i>
		Jeremy Francis	Paul D. Schreiber High School	<i>Sequential and Simultaneous Lineups Under the Cross-Race Condition</i>
		Jonathan Levin	Paul D. Schreiber High School	<i>Object Based Attention in Pigeons</i>
	Third	Stacey Kallem	POB John F. Kennedy High School	<i>Self-Esteem and Schematic Processing as Precursors of Depression in Children</i>
		Kristen O'connor	Kings Park High School	<i>Media, Peer Influence, and Self-Esteem as Predictors of Eating Disorders</i>
		Nuara Siddique	Roslyn High School	<i>The Compatibility of Couples</i>
Biochemistry/ Gerontology	Award	Name	School	Title
	First	Andrew Chang	Jericho High School	<i>Structural Homology and Experimental Complementation of Yersinia pestis and Escherichia coli SsrA-SmpB</i>
		David Gottesman	Roslyn High School	<i>Isolation and Expression of an Epinephrine-synthesizing Enzyme (PNMT) from Entamoeba Parasites</i>
		Jeremy Price	Jericho High School	<i>Developing An Inducible, Neural Cell Model Of Polyglutamine Aggregation and Toxicity</i>
	Second	Michael Gorin	Lynbrook High School	<i>Development of a Three-Color Microarray Assay—Putative Mechanisms For Probe Loss</i>
		Anh Pham	Jericho High School	<i>The Effect of epsilon D173A Mutation on Antagonism of nicotinic Acetylcholine Receptors by Pancuronium and Cisatracurium</i>
		Alexander Vinberg	Manhasset High School	<i>The Chemical Pathway of Extramedullary Hematopoiesis in Myelofibrosis</i>
	Third	Katherine Aguila	Sachem North High School	<i>The T-DNA Chaperons: Intracellular Localization and Protein-Protein Interaction</i>
		Merve Emre	Paul D. Schreiber	<i>Screening for Alternate</i>

			High School	<i>Reading Frame Protein (ARFP) in HCV-1 Transfected Huh7 Hepatocytes</i>
		Jonathan Mogen	Half Hollow Hills HS West	<i>Regulation of slp1 Transcription by Runt and Ftz Proteins in Drosophila Embryos</i>
Botany/ Zoology	Award	Name	School	Title
	First	Gregory Amend	Manhasset High School	<i>The Effect Sea Star Coelomocytes have on Asteroidea Regeneration in vivo and Lumbricus terrestris Brain Cellular Proliferation in vitro</i>
	Second	Jordan Komisarow	Long Beach High School	<i>The Identification of Transposon Regulator Genes in the Flowering Plant Arabidopsis thaliana.</i>
	Third	Khaivchandra Ramjeawan	Uniondale High School	<i>ALL IN THE FAMILY: Using Phylogenetic Systematics to Develop a Family of Arsenic Hyperaccumulators</i>
Chemistry	Award	Name	School	Title
	First	John Sadowski	North Shore High School	<i>Self-Assembling Nanostructures Using Conductive DNA: A New Approach to Post-Silicon Computer Processor Technology</i>
	Second	Mandeep Viridi	POB John F. Kennedy High School	<i>The Synthesis of a Taxoid Porphyrin Conjugate for Selective Drug Delivery</i>
	Third	Kerry Lanigan	Kings Park High School	<i>The Design and Synthesis of Water-Soluble Taxoids for Tumor-Activated Prodrugs in Cancer Chemotherapy</i>
Computer Science	Award	Name	School	Title
	First	Katherine Harvard	Great Neck South High School	<i>Modeling the Ecological Success of Decision Rules Using Variants of the Iterated Prisoner's Dilemma</i>
	Second	Brandon Diamond	John L. Miller Great Neck North High School	<i>Verifying Text Authorship via a Stylistically Trained Language Analysis System Employing the K-Nearest Neighbor Computer Learning Algorithm</i>
	Third	Alec Berntson	Smithtown High School	<i>Applications of Neural Networks in Protein Crystallography</i>
Engineering	Award	Name	School	Title
	First	Michelle Louie	Kings Park High School	<i>A sensing system based on Laser intensity changes due to optical fiber vibration</i>
	Second	Andrew Clare	Harborfields High School	<i>A New Empirical Model for Sonic Boom Prediction</i>
	Third	Kathy Miu	Syosset High School	<i>The Mobile Assistant for the Visually Impaired</i>
Environmental Science	Award	Name	School	Title
	First	Erica Burden	Paul D. Schreiber High School	<i>The Effects of Pubertal Exposure to Estradiol on Epididymal Sperm Counts: Genetic Differences in Sensitivity to Endocrine</i>

				<i>Disruption</i>
	Second	Jon Mcmanus	West Islip High School	<i>The Effects of Dissolved Inorganic Nitrogen on Microspora galbama and Botrydiopsis turneri</i>
	Third	Erin Lowry	Sachem North High School	<i>An Ecological Analysis of Cryptobiotic Crust Growing in the Long Island Pine Barrens</i>
Mathematics	Award	Name	School	Title
	First	Lester Mackey	Half Hollow Hills HS West	<i>A Combinatorial Proof of Seymour's Conjecture for Regular Oriented Graphs with Almost Regular Outsets O'a and O"a</i>
	Second	Lauren Lichtman	Half Hollow Hills HS East	<i>Zeckendorf Representations of Products of Fibonacci and Lucas Numbers</i>
	Third	David Gorski	The Wheatley School	<i>Equations of Non-Integer Powers</i>
Medicine & Health	Award	Name	School	Title
	First	Jennifer Ling	John L. Miller Great Neck North High School	<i>Detection of surface antigen mutants in the a determinant region of children that failed neonatal hepatitis B prophylaxis</i>
		Gene Sussman	Lawrence High School	<i>Inhibition of Cisplatin-Induced Apoptosis by AKT2: Implication of AKT2 in Chemoresistance</i>
	Second	Steven Klein	Manhasset High School	<i>The Effect of Myocardial Infarction on the Expression of alpha- and beta- MHC in Rat Cardiac Tissue</i>
		Haley Yarosh	Bellmore John F. Kennedy High School	<i>The Promotion of Angiogenesis by a Bicyclic Monoterpene Diol</i>
	Third	Bevin Cohen	Oceanside High School	<i>A Comparison of Hand Hygiene Practices in Two Neonatal Intensive Care Units</i>
		Matan Setton	POB John F. Kennedy High School	<i>Characterization and Optimization of Flow Across a Mechanical Heart Valve</i>
	Microbiology	Award	Name	School
First		Jarryd Levine	Paul D. Schreiber High School	<i>Identifying Bacterial Genes via Neural Networks</i>
Second		Sarah Brown	Bellmore John F. Kennedy High School	<i>Using Transposon Mutagenesis to Extend the Host Range of T4 Bacteriophages</i>
Third		Lawrence Shieh	Manhasset High School	<i>A Model Method for the Rapid Identification of Biological Warfare Agents</i>
Physics/ Earth & Space Sciences	Award	Name	School	Title
	First	Brandon Imber	Commack High School	<i>The "Blackberry" Cluster: Thermodynamic Equilibrium and Potential Medical Applications of Giant Nanoscale Inorganic Molecules in Solution</i>
	Second	Tedhar (tedi) Setton	POB John F. Kennedy High School	<i>Correlation of Cell and Substrate Mechanical Properties</i>
	Third	Zachary Wissner-Gross	Great Neck South High School	<i>Discovery of Low-Current Second-Spike Winners in</i>

	Award	Name	School	<i>Models of Neuron Pairs</i>
				Title
Teams	First	Hyeyeon Choi and Aaron Long	Half Hollow Hills HS East	<i>The Effect of Density Fluctuations on Polymer Interfaces</i>
		Joshua Egan and Jason Pellegrino	Manhasset High School	<i>Sub-Nuclear Localization of the Unknown Protein Muo10.12 and the Chromatin Remodeling Factor HirA in Arabidopsis Thaliana</i>
		Jonathan Hefter and Andrew Song	Davis Renov Stahler Yeshiva High School for Boys	<i>Improving Thermal Stability of PMMA Resins by Melt Blending with Modified Organoclays</i>
		Hatty Hong and Vivek Kuncham	Manhasset High School	<i>Controlling the Crystallization Properties of Poly[ethylene oxide] Thin Films</i>
		Ashley Kepping and Joanne Hsieh	Northport High School	<i>Lipoic Acid Inhibits CREB Gene Expression in Regenerating Hydra</i>
		Abigail Maller and Lauren Goldstein	Stella K. Abraham HS for Girls	<i>Using Nanoparticle Fillers to Enhance the Properties of Polymer Thin-Film Lubricants</i>
		Shama Patel and Helen Tsai	Manhasset High School	<i>Evaluating the Effects of Various Oxidative Stressors on Hormesis in Caenorhabditis elegans</i>
		Joan Rho and Maanasa Indaram	The Wheatley School	<i>DNA Electrophoresis on Modified Silicon Surfaces in the Presence of Electroosmotic Flow</i>
	Second	Lakshmi Alagappan and Leslie Kim	Syosset High School	<i>The Characterization of the Granulomatous Reaction in Mycobacterium tuberculosis</i>
		Upton Au and Laurie-anne Haller	Manhasset High School	<i>Increasing Crop Yields: the Localization and Analysis of the Candidate Gene fea2</i>
		Carrie Bodner and Amelia Breyre	Manhasset High School	<i>The Effects of Bt Corn Cry1 and Cry3 variations on Ground Dwelling Carabids</i>
		Mitchell Fourman and Varun Mehta	Ward Melville High School	<i>Optimizing the Physical Properties of Various Polymer Blends by means of exposure to Supercritical Fluids</i>
		Nikhilesh Ray-mazumder, Xiaodong Jiang, and Neil Chheda	Ward Melville High School	<i>Synthesis and Characterization of 1-Decanethiol Functionalized Gold Nanoparticles</i>
		Arvin Thachara and Chiu Felicia	The Wheatley School	<i>Quantifying The Surface Structures and Properties of Hyaluronic Acid Thin Films</i>
		Jonathan Yehuda and Anuraag Parikh	Roslyn High School	<i>The Steinhaus Problem</i>
		Kevin Zarrabi, Storm Liebling, and Dustin Liebling	Northport High School	<i>Does Ursolic Acid Inhibit HNE Released from DNAase Treated Cystic Fibrosis Sputum</i>