

LI Science & Engineering Fair, Inc.

Promoting Excellence in Scientific Inquiry and Discovery in LI Schools

Junior Varsity 2016 Award Winners

	Award	Name	School	Title
	First	lsabella Marie DeCarlo	Half Hollow Hills High School West	Optimizing Stem Cell Growth Using High Throughput Protein Arrays
	First	Allison Hung	Syosset High School	Incorporating multiple protein structure populations using sample enhanced molecular dynamics
	First	Kayla Angelique Keriazes, Lazarus Theodore Ziozis	Manhasset High School	The Effect of Graphene Coated Sand on the Filtration of Methylene Blue
	First	Hamza Naeem Khilji, Andrew James Ardizzone, Kavan Singh Wadhwa	Syosset High School	The Automatic Robotic Vacuum
	First	Stephen John Lee, Fred Chu	Manhasset High School	The Optimization of Dye-Sensitized Solar Cells Through the Co-Adsorption and Tri-Adsorption of Natural Dyes and the Application of a Conductive Copper Infrastructure with Their Effectiveness in the Electrotaxis of C.elegans in Single and Tandem Cells
	First	Conner Jordan Muraglio	West Islip High School	Comparing 7, 8- Dihydroxyflavone Hydrate and an SSRI to Reduce Anxiety in Nudibrach
	First	Sabrina E Palacios, Nina	Huntington High School	The correlation between pesticidal residuum of imidacloprid found in the

	Cartwright		regurgitate of Apis melifera and colony collapse disorder
First	Trevor Joseph Rosenlicht, Mike Guerino Delmonaco, Nicole Margaret La Reddola	Commack High School	Resolving the Primary Mechanism Causing Floor-Fractured Craters Using GRAIL and LOLA Data
First	Julia Karen Ruskin	Paul D. Schreiber High School	Analyzing the Impact of Vaccination Rates on Measles Transmission
First	Vanessa J Zhang, Elin C Hu	Manhasset High School	Investigating Vitamin E and Rapamycin as treatments for genetically and environmentally induced parkinsonism in Drosophila melanogaster and C. elegans
Second	Yesha Sudhir Desai	East Meadow High School	The Effect of Different Stresses on the Emission of Biogenic Volatile Organic Compounds
Second	Gareth Thomas Dwyer	West Islip High School	Analyzing Stevens' Hypothesis: Melatonin Functionality in Procambarus clarkii
Second	Megan Auguste Kirschner, Ananya Bansal	The Wheatley School	The Effect of Coconut Oil on the Alzhiemer's homologue gene, apl-1, in C. elegans
Second	Robert Steven Kleyner	Syosset High School	Use of next generation sequencing to discover mutations contributing to idiopathic, rare seizure disorders
Second	Ryan Frank Schaake	West Islip High School	The Presence of Mercury within High Fructose Corn Syrup
Second	Maxwell Raphael Schulman	Plainview Old Bethpage JFK High School	The Effect of Effectance Motivation and General Anthropomorphism on Empathetic Capacity
Second	Markella Elizabeth Tsalikis, Parker Van Roy	Manhasset High School	Fabrication of Semiconductor layer in Dye Sensitized Solar Cells Using Spin Coating
Second	David K Wendt	Island Trees High School	Utilizing Mirrors to Enhance The Affordability of Photovoltaic

				Energy Sources
	Second	Steve Ryh-Jong Yeh	Huntington High School	Alternative Methodology of Calculating Areas under Polynomial Functions with Minimal Implementation of Indefinite Integral Approximation
Categories	Third	Andrew Burke, Delaney Buskard	Manhasset High School	Improving Energy and Power Density within Metal-Air Batteries
	Third	Jack Ethan Doughty	East Meadow High School	The Effect of Environmental Factors Related to the Growth and Remediation of Plumes Containing Trichloroethylene.
	Third	Marshall Brent Feingold	Syosset High School	The Trading of OTC Derivatives and Financial Instability
	Third	Daniel Jacob Foreman	Syosset High School	Multi-Phase Optimization of Trusses via Genetic Algorithm Considering Constructability
	Third	Daniel Garcia	W. Tresper Clarke High School	The Effect of the Molarity of the Liquid Electrolyte in a Dye Sensitized Solar Cell on the Drop in Efficiency at Temperature Extremes
	Third	Niv Skidan, Faisal Younus	Syosset High School	Quantifying spiral wave stability in a novel and physiologically relevant cardiac model through high performance GPU-based computing
	Third	Serena Tam	Jericho High School	The Loss of Thrombospondin-2 (TSP2) regulates extracellular matrix (ECM) assembly
	Third	Sara Wong, Soo Bynn Lee	Manhasset High School	Matrix Metalloproteinase Inhibitors and Anti-Angiogenic Drugs on the Metastasis of Tumors in Drosophila Melanogaster
	Honorable Mention	Jessica Devilla, Kiran Shetty	Half Hollow Hills High School East	Effect of Difluoromethylornithine on Cellular Proliferation in Lung Carcinoma Cells
	Honorable Mention	Andrew Fang, Eric Li	Jericho High School	4-NP and 4-MEI Combination in Caramel Beverages Invoke Inflammatory Responses that can Lead to Autoimmune

			Disease
Honorable Mention	Nicholas Alexander Florio	St. Dominic High School	Exploring the Different Variables of the Hodgkin-Huxley Model
Honorable Mention	Nathan M Gershengorin	Oceanside High School	Developing and interfacing with a kinase database to assess inhibitor selectivity using Perl
Honorable Mention	Berlin T Jacob	Plainview Old Bethpage JFK High School	The Journey toward a Tailor-made Mesenchymal Stem Cell (MSC's) to treat Inflammatory Diseases.
Honorable Mention	Nandini Jojode, Feyisayomi Tiffany Otegbade	East Meadow High School	The Effects of Lichens on Native and Non-native Species
Honorable Mention	Shermeen Khan	East Meadow High School	Will Decomposers Break Down Phosphorescent Substances?
Honorable Mention	Vani Kumar, Jessica Elizabeth Poomkudy, Emily Wang	The Wheatley School	The Use of the CRISPR/Cas9 System for Genetic Engineering in Escherichia coli
Honorable Mention	Jennifer Lin	Oceanside High School	Using a SMN2 minigene construct to test the effects of HSPA8 gene on the alternative splicing patterns of SMN2
Honorable Mention	Katherine Elizabeth Melkonian	Paul D. Schreiber High School	The Effect of Different Recovery Methods on Heart Rate and Rating of Perceived Exertion After an All Out Rowing Test
Honorable Mention	Frederick William Nocella, Sneha Kumar	Babylon Jr-Sr Hlgh School	The use of clove and neem oil as a natural repellent against Acyrthosiphon pisum on Pisum sativum The use of clove and neem oil as a natural repellent against Acyrthosiphon pisum on Pisum sativum
Honorable Mention	Samuel Ross Petruzzi	Commack High School	The Effect of Nicotine and Cigarette Waste on Regeneration in Planaria
Honorable	Mara Danielle	Plainview Old	Clinical Comorbidities: One Piece of an Abdominal Aortic

Me	ention	Robinson	Bethpage JFK High School	Aneurysm Classification System
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