

LI Science & Engineering Fair, Inc.

Promoting Excellence in Scientific Inquiry and Discovery in LI Schools

## Junior Varsity 2019 Award Winners

	Award	Name	Category	Title
Carle Place High School	Honorable Mention	Lyra Yuqin Lu	Categories	Berberine's Effect on Abeta
Commack High School	Third	Gavin James Cressy, Amy Liu	Categories	The Effect of Sugars on Ampicillin Resista in Escherichia coli
	Third	Rohan Surana, Kevin Chen	Categories	An Analysis of the Relationship between Shifts in Cyclone Weather and Variable Temperature Gradients
East Hampton High School	Third	Kendall Grace Stedman	Categories	Enhancing the Tolerance of Phaseolus vulgaris (Navy Beans) to Acid Rain by Exogenous and Endogenous Abscisic Acid (ABA)
East Meadow High School	First	Abigail Akselrod, Ikshu Pandey	Categories	The Effect of Electromagnetic Radiation or the Tunneling Behaviors of Ants
Great Neck South High School	First	Jaekeun Sung	Categories	Pneumatic Actuator Operated by Electroly of Water and Fuel-Cell Inspired Water Generator: Artificial Muscle Module
Hicksville Senior High School	Second	Sejal Gupta	Categories	Creation of a Cost Effective Prototype for ( Rehabilitation with the Implementation of a Algorithm to Trace the Path of Joints
Huntington High School	Third	Ava Lavinia Waxenberg, Peyton Kalb, Zubair Ali	Categories	The Effect of Mytilus edulis on the Detoxification of Potassium Nitrate in Long Island Sound Water

Jericho	First	Emily Gan	Categories	Optimization of Year-Round Outdoor Algal Cultivation: Fluorophore-Enhanced Photof Density of Photosynthetically Active Radia
	Second	Marguerite Li	Categories	Pesticides Associated with Alzheimer's Disease Prevalence: Dysfunctions in Neurological Hallmarks with Pyrethroids an Piperonyl Butoxide
High School	Second	Rishika Nahata	Categories	Oxaliplatin Resistance Induced by ERCC1 Metastatic Colorectal Cancer Patients
	Second	Riya Harshit Patel	Categories	Fluorescence Quenching by 4-(2-hydroxyethyl)-1-piperazineethanesulfo acid (HEPES) Buffer
	Honorable Mention	Kartik Subramanian	Categories	Ephemeral Exit Bridges for Tor
Locust Valley High School	Honorable Mention	Nils Robert Coffey	Categories	The Use ot Cryptochrome-4 in Magnetoreception in a Vareity of Species
Lynbrook High School	Third	Arpie Bakhshian	Categories	Development of CRISPR/Cas9 Knockout Selected Inflammatory Bowel Disease-Related genes in an In Vitro Mode Using Caco2 Cells
	Third	Julie Sara Lampert	Categories	Surfactant-Mediated Liquid Crystalline Self-Assembly of Charged Nanocellulose i Organic Solvents
	First	Sarah Bella Shao, Kaitlyn Joann Clarke	Categories	The Efficiency of Aluminum Oxide, Sodium Alginate, and Activated Charcoal as Hybric Materials in the Adsorption of Methylene B
Manhasset High School	Second	Mir Zayid Alam, Taylor Fox	Categories	Blue-Light Induced Sleep-Deprivation Affe Behaviors of Drosophila melanogaster
	Second	Joshua Max De Leeuw, Benjamin Glauner	Categories	The Use of Calcium Carbonate to Remedia the Effects of Acid Rain on Root Growth, Germination, Chlorophyll Content, and Photosynthesis in a Glycine max Model
	Second	Kayla Hsu, Mary Elizabeth Nickita	Categories	The Effectiveness of Pretreatment of Rhizobium leguminosarum and Ascorbic A on Preventing Osmotic and Oxidative Stre. Caused by High Salinity in Soil
		Kevin Ryan Carratu,		The Effect of Curcumin on Caenorhabditis

	Third	Spyrithoula Zoe Xenophontos	Categories	elegans dys-1 Locomotory Response, Lifespan, and Preference
	Honorable Mention	Ava J Balacek, Emily K Ma	Categories	Remediation of Copper Sulfate Utilizing Lemna minor, Salvinia minima, and Lumbriculus variegatus
Oceanside High School	Second	Elana R Pocress	Categories	Intracellular Sterol Transport using Saccharomyces as a Model
	Honorable Mention	Ethan James Chetkof	Categories	The Impact of IFN-gamma on Non-opsonz Phagocytosis
	First	Jeannie Ren	Categories	Inside the Black Box: Topological Memorization and Generalization of Convolutional Neural Networks
Paul D. Schreiber High School	Second	Jaime Lara Levin	Categories	The Relationship Between Race and Maternal Age and Offspring Psychiatric Outcomes of Bipolar and Schizophrenia Illness: A Case-Control Analysis in Urban Populations of African American and Caucasian Descent
	Third	Dylan Ira Lyman	Categories	Ambiguity in Pronouns: An Analysis of the Effect of Age and Gender on Third Person Pronoun Choice
	Honorable Mention	Eric Martin Epstein	Categories	The Effect of in utero Exposure to Materna anti-Caspr2 Antibodies on Cortical Development
	Honorable Mention	Lindsey Hope Feinstein, Madeline Grace Competello	Categories	The Effects of Taurine and Organic Growtl on Obesity in Lumbricus terrestris
Plainview	Honorable Mention	Ross Scot Bernstein	Categories	Catecholamine Inhibition of IL-4 Induced B-Cell Activation and Differentiation
Old Bethpage JFK High School	Honorable Mention	Saurav Bhasin	Categories	Using Perfusion Analysis to Evaluate the Connection of Higher Cerebral Blood Volumes with an Endothelial Growth Facto Mutation in Glioblastoma Multiforme
	First	Nicole Julia Blattman	Categories	Small Proteins, Large Roles: Resolving the Structure of Small Vasohibin-Binding Prote Using E. coli Heterologous Expression and Nuclear Magnetic Resonance Spectroscop
	Second	Joshua Alan Flashner	Categories	Shining a Light on the Black Box of Neural Networks

Roslyn High School	Third	Daleep Singh Grewal	Categories	The Role of FYN Inhibition and Knockdown Determining Podocyte Cell Size and Actin Cytoskeleton
	Honorable Mention	Sophie Arin Fries	Categories	The Effect of Gender of Initiator and Gendo of Payer on a Date on Perceived Attractiveness and Compatibility
	Honorable Mention	Maddie Rubin	Categories	The Synthesis and Purification of Pam3CS Spacer-Tag Variants
	Honorable Mention	Feyi Rufai	Categories	Does That Make Me Crazy? The Effects of Treatment Type and Effectiveness on Personal Perception
Sanford H. Calhoun	Third	Valeria Ventura Subirachs	Categories	Estimating the Age and Magnetic Field Strength of Pulsar and Pulsar Candidates
High School	Honorable Mention	Sonia Sarju	Categories	Effects of Hypoxic Conditions on the Phototaxicity of Bugula stolonifera and Bugula neritina
Seaford Senior High School	Third	Kaylee Sanderson, Kathleen Tuohy, Julia Gambino	Categories	Antibacterial Abilities of Seaweed Originati from the South Shore of Long Island, NY
				Comparing Actual and Perceived Creativity
	First	Sabrina Nicole Eager	Categories	Differences Among Students Across Academic Disciplines
Syosset High School	First First		Categories Categories	Differences Among Students Across
High		Eager Giselle Leah	-	Differences Among Students Across Academic Disciplines The Enhancement of HIV-1 Fusion Inhibito Potency by Key Residue Mutagenesis and
High	First	Eager Giselle Leah Rasquinha	Categories	Differences Among Students Across Academic Disciplines The Enhancement of HIV-1 Fusion Inhibito Potency by Key Residue Mutagenesis and C-terminal Anchor Addition Coordinated Evolutionary Growth in the
High School The Wheatley	First First Honorable	Eager Giselle Leah Rasquinha Sona Santy Matthew Thomas Cornacchia, Jacob I	Categories Categories	Differences Among Students Across Academic Disciplines The Enhancement of HIV-1 Fusion Inhibito Potency by Key Residue Mutagenesis and C-terminal Anchor Addition Coordinated Evolutionary Growth in the Cerebellum and Cerebrum

W. Tresper Clarke High School	Second	Saniya Jaidev Gaitonde	Categories	Bioinformatic Interrogation of the Evolution Conservation of Recursive Motifs Mediatin Multi-Step RNA Splicing
	Second	Deeti Patel	Categories	Increasing the Effectivity of Silver Nanoparticles by Suppressing the Product of Flagellin Increasing The Effectivety of Silver Nanoparticles by Suppressing the Production of Flagellin
Walter G. O'Connell Copiague High School	Honorable Mention	Anna Giselle Carvajal, Edinelly - Peguero-Rosario	Categories	The Efficacy of Sodium Alginate as a Bacterial Mitigatory Agent Against E coli
	Honorable Mention	Raul Mena, Jocelin Carbajal	Categories	The Effect of Organic Post-Treatment Water-Based Flame Retardant Materials o Wooden Structures
West Islip High School	Third	Rachel Qian Shuang Denzler, Michael Pleitez	Categories	Factors that Contribute to Ankle Injuries Within Adolescents
	Honorable Mention	Maximus Hujik Elijah Hujik	Categories	The Leaching of Copper from Antifouling Paint
William Floyd High School	Honorable Mention	Angela Jasmin Ochoa, Victoria Sofia Cordova-Morote	Categories	The Impact Zostera marina Bed Density ha on Vertebrate Biodiversity Using Environmental DNA Methods