



LI Science & Engineering Fair, Inc.

Promoting Excellence in Scientific Inquiry and Discovery in LI Schools

Junior Varsity 2018 Award Winners

	Award	Name	School	Title	
	First	Kaylie S Hausknecht	Lynbrook High School	<i>Elucidating the Properties of the Chebyshev Polynomials</i>	
	First	Emma Lilly Levin	Paul D. Schreiber High School	<i>Examining the Sensitivity and Impact of Anthropogenic Climate Change on North Atlantic Major Hurricane Landfall Drought and Activity</i>	
	First	Tasin Miah Mashriqi	Jericho High School	<i>Environmental Monitoring and Marine Exploration: Utilizing Hybrid Undulatory Swimming for Autonomous Underwater Vehicle (AUV) Design</i>	
	First	Jason Rattansingh, Dominick Caputo	William Floyd High School	<i>An Analysis of Soil Microhabitats in Revolutionary War, Civil War and, Modern Graveyards on Long Island, New York</i>	
	First	Pooja N Shah	Lynbrook High School	<i>Loss of Thrombospondin-2 Leads to Differential Gene Expression During Extra Cellular Matrix Production</i>	
	First	Clara Song	East Meadow High School	<i>Synthesis of Pyrido[1,2-b]Indazole-7-Carboxamide and its Derivatives as Poly(ADP-ribose) Polymerase-1 Inhibitors</i>	
	First	Madhav Subramanian	Jericho High School	<i>Exploring the Vascular Function of Deducator of Cytokinesis 6 (DOCK6)</i>	
	First	Leah Emily Taylor, Dalia Rue Bercow	Paul D. Schreiber High School	<i>More Than Just A Pretty Face: The Effect of Instagram Lifestyle Influencers on Adolescent Body Image</i>	
			Asma Asghar,	William	<i>Analysis of Amblyomma americanum Microbiota and its</i>

	Second	Fariyah Chowdhury	Floyd High School	<i>Implications for Human Health in Suffolk County, New York</i>
	Second	Zachary Robert Ferretti	Plainview Old Bethpage JFK High School	<i>Analysis of a Genome Wide Association Study and Use of DNA Methylation to Lower Genetic Predisposition to Obesity Given an Obese Mother</i>
	Second	Alyssa Millie Iryami, Audrey Shine	Plainview Old Bethpage JFK High School	<i>Utilization of Bombyx mori in the Production of Polymeric Graphene Enhanced SuperSilk</i>
	Second	Nikhil Gopal Jaiswal	St. Anthony's High School	<i>Towards a Structure of the Endoplasmic Reticulum Shaping Protein REEP5</i>
	Second	Viraj Jayam	The Wheatley School	<i>Visualizing Alpha and Beta Crystals via Stereographic Projections</i>
	Second	Emma R Klein, Dhiya S Sani	Paul D. Schreiber High School	<i>The Effect of BPO and Glycerin on Escherichia Coli K12 and Skin Irritation in an In-vitro Skin Substrate</i>
	Second	Aaron Jason Lafazan	Syosset High School	<i>The Effect of Momentum Trading on the Quant Crash of 2007</i>
	Second	Maleeha Rahman	Roslyn High School	<i>How to Raise a Healthy Eater: Parenting Methods as Long-term Predictors of Children's Eating Behavior</i>
	Second	Nathalia Vinhal Reis, Erin Tumbrello	William Floyd High School	<i>Using DNA Barcoding to Analyze the Biodiversity of Biological Vectors in Ecosystems with Varying Levels of Habitat Complexity in Suffolk County, New York</i>
	Second	Anusha A. Siddiqui	W. Tresper Clarke High School	<i>What is the Effect of Aloe Vera Products vs. Other Liquid Treatments on the Amount of Light Penetrated through Calcium Oxalate Crystals?</i>
	Second	Kendrick Tak, Grace Choi	Manhasset High School	<i>EUK-8 as an Effective SOD and CAT Mimetic and an Al³⁺ Toxicity Mediator</i>
	Third	Sanjana Ahmed	W. Tresper Clarke High	<i>What is the Effect of Structural Format on the Electrical Output of a Piezoelectric-Photovoltaic</i>

Categories			School	<i>Structure?</i>
	Third	Kai Arthur Beattie	Lynbrook High School	<i>Determining the Role of Metalloprotease Meprin in Angiogenesis: A Potential Target of siRNA Nanotube Therapy in Prostate Cancer</i>
	Third	Ariel Kiok Margaret Blumenberg, Cooper Mason Scher, Michael John Bentivegna	Syosset High School	<i>The Effects of Buckminsterfullerene C₆₀ on Nematode Lipofuscin Concentration</i>
	Third	Kayla Hsu, Mary Elizabeth Nickita, Sarah Bella Shao	Manhasset High School	<i>The Effectiveness of Ascorbic acid and Fragaria x ananassa on Remediating the Negative Effects of Simulated Acid Rain Induced Oxidation in Medicago sativa</i>
	Third	Ramneek Kaur	Roslyn High School	<i>Hypothermia as an Inhibitor of Apoptotic Brain Cell Death</i>
	Third	Adrian Ke	Roslyn High School	<i>The Effect of Graph Embellishment on Perceived Trustworthiness, Comprehension Ability, and Information Memorability</i>
	Third	Abigail Judith Pace, Theresa Ann Haupt	Commack High School	<i>The Response of Planaria to Novel Objects</i>
	Third	Elizabeth Ashley Scianno, Angela Jasmin Ochoa, Philip Chibuzo Oriuwa	William Floyd High School	<i>The Microhabitat of Zostera marina in Moriches Bay, Westhampton, New York</i>
	Third	Kevin Connor Souhrada, Madison Rylee Esposito	Bay Shore High School	<i>Identification of the Crystalline Structure of Micrometeorites</i>
	Third	Elizabeth E Wu, Serena J Zhao, Ella R Kosciusko	Manhasset High School	<i>The Effects of Insulin Pathway Inhibition in Combination with Resveratrol and Lithium Chloride on Selenium, SOD1, and TDP-43 Induced Neuron Death in C. elegans and D. melanogaster</i>

	Honorable Mention	Zubair Mohammed Ali	Huntington High School	<i>The Effect of Propylene Glycol Propyl Ether on Uca pugnax</i>
	Honorable Mention	Melodi Doganay	West Islip High School	<i>Comparing the Effectiveness of Chemical Denitrification by Ferrous Iron under Various Catalyst Phases</i>
	Honorable Mention	Aaron Eng, Abigail Romero	Walter G. O'Connell Copiague High School	<i>The Effects of Industrial Waste on Perfluorinated Chemicals Levels in Long Island Water Bodies</i>
	Honorable Mention	Deborah Jaffe	East Meadow High School	<i>Does Bias Play a Role in Wrongful Convictions? An Analysis of Exonerations</i>
	Honorable Mention	Charlson Kim	Commack High School	<i>Dopamine Hypothesis in Neuropsychiatric Disorders: A Schizophrenia Model to Determine the Effect of Dopamine on Gene Expression and Behavior in Drosophila melanogaster</i>
	Honorable Mention	Kyle Christopher La Spisa, Christian James Meehan	William Floyd High School	<i>Analyzing the Biodiversity of Predatory Insects and Arachnids using DNA Barcoding from a Riverine Region and a Coastline Region on Long Island, NY</i>
	Honorable Mention	Anthony Joseph LaBarca	Syosset High School	<i>Preliminary Survey and Sedimentologic Analysis of Glacial Deposits in Hallock State Park Preserve, Mattituck, NY</i>
	Honorable Mention	Sean Francis Lee, Cara Grace Kurkjian	Manhasset High School	<i>The Effects of Ambroxol Hydrochloride and EDTA (Ethylenediaminetetraacetic Acid) on Drosophila melanogaster induced with Huntington's Disease</i>
	Honorable Mention	Karen Huijie Li, Victor Desheng Li	The Wheatley School	<i>TP53 Mutations as Potential Prognostic Markers for Specific Cancers: Analysis of Data from The Cancer Genome Atlas and the International Agency for Research on Cancer TP53 Database</i>
	Honorable Mention	Jacqueline A Picone	East Meadow High School	<i>Is it Worth Pulling Weeds? Analyzing the Reduction of Invasive Species</i>
				<i>Therapeutic Potential of</i>

	Honorable Mention	Dhruba Podder	Jericho High School	<i>Adipose-Derived Mesenchymal Stem Cell (AdMSC) Exosomes in the Intestine</i>
	Honorable Mention	Brittany S Polevikov	Paul D. Schreiber High School	<i>The Effect of Parental Stress on Resilience in American High Schools Students</i>
	Honorable Mention	Benjamin Taylor Pollard	Plainview Old Bethpage JFK High School	<i>N-acetylcystein (NAC) and Vemurafenib (Vem): A Novel Synergistic Modality for Decreasing Cell Proliferation in Anaplastic Thyroid Cancer</i>
	Honorable Mention	Justin Daniel Schiavo	Roslyn High School	<i>The Effect of an Aerospike Nozzle on the Hybrid Rocket Engine</i>
	Honorable Mention	Shivani Shastri	W. Tresper Clarke High School	<i>What is the Effect of Heat on the Amount of Energy Generated by a Piezoelectric Transducer?</i>
	Honorable Mention	Manan M Shukla	The Wheatley School	<i>Hacking Tumor-Associated Macrophage Therapeutic Resistance for Optimizing TNBC Treatment</i>
	Honorable Mention	Mary Elizabeth Sotiryadis	North Shore High School	<i>The Effect of Mood on the Retention of a Classroom Lesson Taught to Students in a Multimedia Environment</i>