



# ISEF 2011 Grand Award Winners

Best in Category \$5,000, First \$3,000, Second \$1,500, Third \$1,000, Fourth \$500

European Union Contest for Young Scientists	Award	Name	School	Title
	An all-expense-paid trip to the European Union Contest for Young Scientists in Helsinki, Finland	<b>Erica Brooke Portnoy</b>	Commack High School	<i>A Novel Approach to Mapping Protein Interactions during Pilus Biogenesis by Using in vivo Photocrosslinking</i>
Behavior & Social Sciences	Award	Name	School	Title
	Third	<b>Sarah Susie Pak</b>	Roslyn High School	<i>Would You Do It for the Kids? Factors Involved in the Prediction of Intergenerational Preferences</i>
		<b>Samantha Michelle Phillips</b>	William A. Shine Great Neck South High School	<i>Strategies Utilized by People with Autism and Neuro-Typical Individuals to Determine Emotion in Faces</i>
Biochemistry	Award	Name	School	Title
	Best in Category	<b>Dianna Hu</b>	Half Hollow Hills High School West	<i>Computational Analysis of Specific Missense Mutations in the SMN Tudor Domain</i>
	First	<b>Dianna Hu</b>	Half Hollow Hills High School West	<i>Computational Analysis of Specific Missense Mutations in the SMN Tudor Domain</i>

<b>Cellular and Molecular Biology</b>	<b>Award</b>	<b>Name</b>	<b>School</b>	<b>Title</b>
	<b>First</b>	<b>Blake Edward Smith</b>	Oceanside High School	<i>Correcting Dysregulated Splicing of the KLF6 Gene in Pancreatic Cancer Using Modified Antisense Oligonucleotides</i>
	<b>Third</b>	<b>Bilal Ahmed Siddiqui</b>	Wellington C. Mephram High School	<i>The Effects of Indoleamine 2, 3-dioxygenase Expression on Tumor-Induced Immunosuppression</i>
<b>Neil Mehta &amp; Savina Dine Kim</b>		Jericho High School / Commack High School	<i>Expression of a Schizophrenia-Associated V321L-Nrg1 Protein Reduces Nrg1-ICD Nuclear Translocation and <math>\alpha</math>-7 nicotinic Acetylcholine Receptor Expression</i>	
<b>Chemistry</b>	<b>Award</b>	<b>Name</b>	<b>School</b>	<b>Title</b>
	<b>Second</b>	<b>Neil Pathak</b>	Herricks Senior High School	<i>Polyfunctionalized Single-Walled Carbon Nanotubes as Novel Scaffolds for Multimodal Tumor-Targeted Therapy and Biological Imaging</i>
<b>Engineering: Electrical &amp; Mechanical</b>	<b>Award</b>	<b>Name</b>	<b>School</b>	<b>Title</b>
	<b>Third</b>	<b>Ishwarya Ananthabhotla</b>	Kings Park High School	<i>A Robotic Assistant for the Visually-Impaired (RAVI): A Novel System Employing Digital Image Processing and Sonar Range Detection</i>
<b>Engineering: Materials &amp; Bioengineering</b>	<b>Award</b>	<b>Name</b>	<b>School</b>	<b>Title</b>
	<b>Second</b>	<b>Shyam Venkateswaran</b>	Herricks Senior High School	<i>Synthesis, Characterization, and Biological Evaluation of a Novel Biomaterial for Post-Lumpectomy Breast Reconstruction</i>
<b>Energy &amp; Transportation</b>	<b>Award</b>	<b>Name</b>	<b>School</b>	<b>Title</b>
	<b>Third</b>	<b>Benjamin Joseph Goldman &amp; Nathan Akhavan</b>	Rambam Mesivta High School	<i>Manufacturing an Improved Polymer Photovoltaic Cell Using Graphene and Graphene Oxide</i>

	Award	Name	School	Title
<b>Environmental Sciences</b>				
	<b>Second</b>	<b>Arianne Elizabeth Papa &amp; Jane Elizabeth Smyth</b>	Long Beach High School	<i>Mussels, a Natural Approach to Sewage Treatment: Evaluating Geukensia demissa as Biofilters of Local Bay Pollution</i>
<b>Medicine &amp; Health Sciences</b>				
	<b>Fourth</b>	<b>Kelsey Skyler McKenna, Tom Jie Wang &amp; Alan Eyal Czemerinski</b>	South Side High School /The Wheatley School	<i>3-Dimensional Bio-imprinting of Proteins and Viruses</i>
<b>Microbiology</b>				
	<b>Best in Category</b>	<b>Erica Brooke Portnoy</b>	Commack High School	<i>A Novel Approach to Mapping Protein Interactions during Pilus Biogenesis by Using in vivo Photocrosslinking</i>
	<b>First</b>	<b>Erica Brooke Portnoy</b>	Commack High School	<i>A Novel Approach to Mapping Protein Interactions during Pilus Biogenesis by Using in vivo Photocrosslinking</i>
<b>Plant Sciences</b>				
	<b>Third</b>	<b>Justine Li &amp; Serife E. Uzun</b>	Jericho High School	<i>Investigation of a Novel Herbal Anti-Inflammatory Agent: Liquidambar formosana Hance Exudate, Bornyl Cinnamate</i>