

2016 Category Winners

	First Name	Last Name	Grade	School	Project Title
Behavioral & Social Sciences					
1st Place	Yuhan	Kim	9	Hudson High School	Physiological Reactions to Stress
2nd Place	Kevin	Du	10	Hudson High School	The Effect of Qualities of Math Teachers on Student Opinions on Them
3rd Place	Nicole	Neifert	10	Hudson High School	Facial Stereotypes and Feminism
Biochemistry					
1st Place	Ronan	Bracken	12	Mentor High School	Understanding the Gastrulation Defects in Wnt Signaling Ablated Embryos using Mice Embryonic Stem Cells
2nd Place	Kurt	Tobin	12	Mentor High School	Shifting the Absorption Spectrum of Bombyx mori CBP via Mutagenesis
3rd Place	Stuti	Dalal	9	Orange High School	Local Anesthesia Prevents Nerve Sprouting In a Culture Model of Inflammatory Pain
Botany					
1st Place	Fiona	Gaffney	9	Saint Vincent / Saint Mary High School	Soybean Growth in Hydroponic Systems
2nd Place	Sarah	Kikel	10	Beaumont School	The Effect of Citric Acid on Brassica rapa's Ability to Phytoremediate Zinc and Lead Contaminated Soils
3rd Place	Aileen	Bracken	7	Incarinate Word Academy	Does Fertilizer Improve the Outcome of Hydroponic or Soil Grown Plants Better?
Chemistry					
1st Place	Swathi	Srinivasan	11	Beachwood High School	Evaluating the Relationships Between Chemicals in Spices and Alzheimer's Disease Through Chemical and Bioinformatics Approaches
2nd Place	Omar	Mansour	12	Mentor High School	A Volumetric Explanation for Observed Differences in Surfactant Effectiveness
3rd Place	Rebecca	Lin	8	Solon Middle School	Is Your Water Bottle BPA- Free?

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Computer Science and Mathematics

1st Place	Vladislav	Hrosinkov	10	Hudson High School	Investigations on Surface Area
2nd Place	Michael	Biernacki	7	Incarnate Word Academy	Can a Neural Network Detect Cancerous Cells?
3rd Place	Isabel	Wu	9	Hudson High School	Multimedia Vocabulary Toolkit

Earth & Space Science

1st Place	Oddo	Dominic	12	Mentor High School	A statistical analysis of the solving of the Drake equation
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Engineering and Technological Design

1st Place	Zeynep	Ozgur	11	Hudson High School	Filosoph: An Intelligent System that Enhances Efficient Social Communication in Learning Environments, Part II
2nd Place	Ammar	Lone	11	Hawkins School	Raman spectral classification of mineral and collagen bound water in bone as novel predictor of bone strength
3rd Place	Patrick	Li	7	Hudson Middle School	Smart Midnight Care

Environmental Science

1st Place	Maximilian	Chmura	9	Saint Vincent / Saint Mary High School	The Effect of Electric Fields on Reducing Phosphate Runoff from Soybean Farmland
2nd Place	Kevin	Feezel	11	Saint Vincent / Saint Mary High School	Removing Organic Contaminants from Water Using Carbon Nanotubes
3rd Place	Edward	Dan	8	Solon Middle School	The Effect of Window Grids on Window Energy Efficiency

Medicine and Health

1st Place	Alexandria	Oliverio	11	Saint Vincent / Saint Mary High School	Effect Of Surface Functional Groups On Chondrocyte Behavior Using Molecular Gradients
2nd Place	Logan	Leak	12	Mentor High School	The Effect of Aging on Expression of CD45RA and CD45RO Memory Markers
3rd Place	Graham	Lane	11	University School	Pannexin 1 in EG7 Murine Thymoma Acts as a Functional Channel During Apoptosis

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Microbiology					
1st Place	Justin	Yun	10	Hudson High School	Finding Max Efficiency of Microbial Fuel Cells
2nd Place	Ruchin	Patel	12	Mentor High School	The Effect of Varying Concentrations of <i>B. atrophaeus</i> on the Prevacuum Steam Sterilization Resistance of Dual Microbe Indicators Consisting of <i>G. stearothermophilus</i> and <i>B. atrophaeus</i>
3rd Place	Lina	Ikhlef	9	Hudson High School	The Affect Of Microwave Radiation on Bacteria
Physics					
1st Place	Meghan	Bhanoo	6	Notre Dame Elementary School	Spinning Moments
2nd Place	Wenyao	Yang	11	Saint Vincent / Saint Mary High School	The Effect of Polymer Chain's conformation on Its Birefringence
3rd Place	Klaudia	Sirk	12	Beaumont School	The Effect of Gold Thickness on the Mechanical Properties of a Silicon Carbide Diaphragm: Determining the Shift in Fundamental Resonant Frequency
Zoology					
1st Place	Audrey	Stainbrook	9	Beaumont School	The Effects of Electronic Cigarettes
2nd Place	Ferenc	Somogyi	7	Incarnate Word Academy	The Use of Internet of Things Technology to Record the Feeding Frequency of Hummingbirds, the Drones of the Bird World
3rd Place	Sarah	Toth	7	Saint Rita	The Effect of Different Climates on Worms