



DELAWARE VALLEY SCIENCE FAIRS, INC.

Winner Announcement Intel ISEF 2012 Grand Awards Ceremony

May 18, 2012, Pittsburgh, Pennsylvania – Society for Science & the Public, in partnership with the Intel Foundation, announced Grand Awards of the Intel International Science and Engineering Fair (ISEF). Student winners are ninth through twelfth graders who earned the right to compete at the Intel ISEF 2012 by winning a top prize at the Delaware Valley Science Fairs.

Below is a list of winning students from southeastern Pennsylvania, southern New Jersey, and the state of Delaware.

Animal Sciences:

Lucy Michelle Hritz, 16, Villa Joseph Marie High School, Holland, Pennsylvania
*Transcriptional Changes in *Borrelia burgdorferi* that Cross the Blood Brain Barrier in Neurological Tick-Borne Lyme Disease.*

Best of Category Winner with a \$5,000 award.

Grand Award: First Place - \$3,000

Special Award: First Place: Air Force Research Laboratory - \$3,000

Cell Biology:

Bansri Manesh Patel, 15, Sussex Technical High School, Georgetown, Delaware
Bisphenol A (BPA) Promotes Adipogenesis in 3T3-L1 Cells

Grand Award: Fourth Place - \$500

Chemistry:

Joy Yiran Wang, 16, Parkland High School, Allentown, Pennsylvania.
Polyoxovanadate-based Surfactants: The Search for an Effective Heterogeneous Catalyst

Grand Award: Fourth Place of \$500

Special Award: Third Place: American Chemical Society - \$2,000

Mathematical Sciences:

Jonah Milton Kallenbach, 17, Germantown Academy, Fort Washington, Pennsylvania.
Novel Graph Theory Algorithms for Protein Structure Prediction and Design

Grand Award: Third Place - \$1,000

Special Award: Florida Institute of Technology \$15,000 scholarship renewed annually.

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Medicine and Health:

Shombit Roy Chaudhuri, 18, Unionville High School, Kennett Square, Pennsylvania.

Optimization of Growth and Harvesting of Bacillus sphaericus and Bacillus thuringiensis for the Eradication of Culex genus Mosquito Larvae

Grand Award: Fourth Place - \$500

Microbiology:

Ananya Sureshkumar, 16, Biotechnology High School, Freehold, New Jersey

The Effect of Lactobacillus acidophilus on the Survival and Motility of Caenorhabditis elegans against Pathogenic Serratia marcescens

Grand Award: Third Place - \$1,000