



Siemens Competition

Math : Science : Technology

2016 National Finals

Tuesday, December 6th, 2016

TEAM WINNERS

\$100,000 TEAM SCHOLARSHIP RECIPIENT

Adhya Beesam & Shriya Beesam, Plano East Senior High School, Plano, TX

Linked Neuro-Fuzzy Inference System: A Novel Approach to Schizophrenia Diagnosis

\$50,000 TEAM SCHOLARSHIP RECIPIENT

Nikhil & Anika Cheerla, Monta Vista High School, Cupertino, CA

Mitosis Detection and Tumor Grading Using Deep Convolutional Neural Networks

\$40,000 TEAM SCHOLARSHIP RECIPIENT

Yoshihiro Saito, Marriotts Ridge High School, Marriottsville, MD

Lauryn Wu, Thomas Jefferson High School for Science and Technology, Alexandria, VA

New Discovery of Large Bulk Band Gap Topological Insulators in Chemically Functionalized Two-Dimensional Compounds

\$30,000 TEAM SCHOLARSHIP RECIPIENT

Louis Golowich & Richard Zhou, Lexington High School, Lexington, MA

Maximum Size of a Family of Pairwise Graph-Different Permutations

\$20,000 TEAM SCHOLARSHIP RECIPIENT

Katherine Cao, Homestead High School, Mequon, WI

William Hu, Saratoga High School, Saratoga, CA

Alice Wu, Half Hollow Hills School West, Dix Hills, NY

Characterizing Novel, Spun-Cast PLA/Polystyrene Substrates of Differential Nanoscale Surface Topographies and Optimizing Cell-Plating Density to Promote Dental Pulp Stem Cell Proliferation and Differentiation in vitro

\$10,000 TEAM SCHOLARSHIP RECIPIENT

Jasmin Gao, Northview High School, Johns Creek, GA

Rose Hong, Del Norte High School, San Diego, CA

Effects of Fibrin Gel Scaffolds and Dexamethasone on the Differentiation of Human Dental Pulp Stem Cells for Applications in Regenerative Endodontics

INDIVIDUAL WINNERS

\$100,000 INDIVIDUAL SCHOLARSHIP RECIPIENT

Vineet Edupuganti, Oregon Episcopal School, Portland, OR

Development of a High-Performance Biodegradable Battery for Transient Electronics



\$50,000 INDIVIDUAL SCHOLARSHIP RECIPIENT

Manan Shah, The Harker School, San Jose, CA

Deep Learning Assessment of Tumor Proliferation in Histopathological Images for Categorical and Molecular Breast Cancer Severity Diagnosis



\$40,000 INDIVIDUAL SCHOLARSHIP RECIPIENT

Alexander Kirov, Greenbrier High School, Evans, GA

Exosomes in Amyloid Aggregates Promote Neuronal Damage: A Mechanism of Alzheimer's Pathology



\$30,000 INDIVIDUAL SCHOLARSHIP RECIPIENT

Prateek Kalakuntla, Texas Academy of Mathematics and Science, Denton, TX

Luminescent Heavy Metal Sensors



\$20,000 INDIVIDUAL SCHOLARSHIP RECIPIENT

Pranav Sivakumar, Illinois Mathematics and Science Academy, Aurora, IL

Searches for Almost Dark Galaxies in Blank Sky Fields with the Sloan Digital Sky Survey



\$10,000 INDIVIDUAL SCHOLARSHIP RECIPIENT

Blake Hord, Dobbs Ferry High School, Dobbs Ferry, NY

High Mass Planet Spiral Shocks as a Source of Infrared Emission in Protoplanetary Disks

