



NYCSEF

NYC Science and Engineering Fair
CUNY College Now
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2016 NYC ISEF Finalists

The following sixteen students, representing 15 projects, have been selected from this year's NYCSEF competition to represent New York City at the Intel International Science and Engineering Fair in Phoenix, Arizona from May 08 - 13, 2016.

Tatheer Adnan - Senior (Animal Sciences)

High School: Staten Island Technical High School

Project Title: *The Use of Curcumin in the Treatment of Cervical Cancer*

Mentor: Sumit Mukherjee

Teacher: John Davis

Urooj Ansari - Senior (Microbiology)

High School: Midwood High School @ Brooklyn College

Project Title: *Physical and Chemical Warfare between *Streptococcus mutans* and *Streptococcus sanguinis**

Mentor: Nicolas Biais

Teacher: Glenn Elert

Raja Azhar - Senior (Physics & Space Sciences)

High School: Midwood High School @ Brooklyn College

Project Title: *Comparison of work output from first order and second order magnets during magnetic heat transitions*

Mentor: Karl Sandeman

Teacher: Glenn Elert

Anusha Bishop - Senior (Animal Sciences)

High School: Bronx High School of Science

Project Title: *Determining the Geographic Origins of Endangered Scalloped Hammerhead Shark (*Sphyrna lewini*) Fins*

Mentor: Andrew Fields

Teacher: Robert Muratore

Simone Braunstein - Senior (Engineering)

High School: Dalton School

Project Title: *A Novel Haptic Actuator for Robotic Surgery: Utilizing Soft Robotic Pneumatic Networks, a Closed Loop Control System, and an Electropneumatic Control Board to Accurately Restore an Operator's Sense of Touch*

Mentor: Donal Holland

Teacher: Lisa Brizzolara

Yi Chen - Senior (Cellular & Molecular Biology)

High School: Bronx High School of Science

Project Title: *IL-2 as a Therapeutic Target for Treatment of Autoimmune Alopecia Areata*

Mentor: Spandan Shah

Teacher: Robert Muratore

Benjy Firester - Sophomore (Plant Sciences)

High School: Hunter College High School

Project Title: *Modeling the Spread of Potato Late Blight (*Phytophthora infestans*) on a Regional Scale*

Mentor: Lior Blank

Teacher: Gilana Reiss

Joshua Gruenstein - Junior (Computer Science)

High School: Horace Mann High School

Project Title: *A Universal Robot Control System using Reinforcement Learning with Limited Feedback*

Teacher: Russell Hatch

Catherine Lai - Senior (Medicine & Health Sciences)

High School: Brearley School

Project Title: *Putative High-pIC50 SpDHBP Synthase Inhibitors Against Multi-Drug Resistant *S. pneumoniae**

Teacher: Jean Drew

Christopher Lee - Senior (Medicine & Health Sciences)

High School: Hunter College High School

Project Title: *A Rapid and Cost Effective Carbon Nanotube Sensor for Cancer Biomarker Detection*

Mentor: Ryab M. Williams

Teacher: Gilana Reiss

Nancy Lu - Junior (Biochemistry)

High School: Hunter College High School

Project Title: *Engineering of Polysaccharide-Based Nanoparticles for Theranostic Applications*

Mentor: Mang Mang

Teacher: Gilana Reiss

Abdallah Mohamed - Senior (Cellular & Molecular Biology)

High School: Bronx High School of Science

Project Title: *Antagonistic roles of EED and histone H3K36me2 on the propagation of histone H3K27me3*

Mentor: James Stafford

Teacher: Marisa Wagner

Brandon Muncan - Junior (Animal Sciences)

High School: Queens High School for Sciences @ York College

Project Title: *Effect of various preservation methods on morphologic changes in bovine liver*

Mentor: Andrea Costi

Teacher: Shanaz Baksh

Jay Shenoy - Junior (Computer Science)

High School: Fordham Preparatory School

Project Title: *Development of Machine Learning Algorithms to Diagnose Parkinson's Disease*

Teacher: Greg Curran

Michael Truell - Sophomore (Computer Science)

High School: Horace Mann High School

Project Title: *A Universal Robot Control System using Reinforcement Learning with Limited Feedback*

Teacher: Russell Hatch

Kelly Young - Junior (Earth & Environmental Sciences)

High School: Edward R. Murrow High School

Project Title: *A Comparison of the Effectiveness of Opuntia-fiscus-indica and Aloe Vera in the Biosorption of Manganese (II) Ions and Dispersion of Oil*

Teacher: Raywattie Chan