The 2010 NYC Intel ISEF finalists (back row from left to right): Andrei Nagoryni, Manjinder Kandola, Ho Chit Siu, Cynthia Chen, Katrina Koon, Kemakorn Ithisuphalap, and Sheraz Tariq; (front row from left to right): Israt Ahmed, Klaudia Kluzinski, Angela Lee, Andrew Sherlock, Soo Kyoung Lee, Jack Griesman, Yevgeniy Rudoy, Stephanie Chen, and Cathy Zhou

The following are the names of the sixteen NYCSEF finalists (11 individual projects and 2 team projects) who represented New York City at the Intel International Science and Engineering Fair in San Jose, CA from May 9 - 14, 2010. Award winners and their awards are noted by an (*).

Individual Projects:

Cynthia Chen – senior, The Brearley School
Category: Medicine and Health Sciences
Project Title: Structural Basis for the Recognition of RNA by the Fragile X Mental Retardation Protein, FMRP

Jack Greisman* – senior, Stuyvesant High School
Category: Microbiology
Project Title: Shields Down: Protein – Protein Interactions in Bacillus subtilis Suggest a Novel Method of Spore Inactivation
Award: American Society for Microbiology – 5th Award - $250

Kemakorn Ithisuphalap – senior, Manhattan International High School
Category: Chemistry
Project Title: Synthesis of Zirconium Phthalocyanine and Hafnium Phthalocyanines for Grätzel-type solar cells
Manjinder Kandola* – senior, Queens High School for the Sciences at York College  
Category: Biochemistry  
Project Title: Computational Analysis of Cyclin-Dependent Kinase Substrates Leads to a Novel Substrate Identification Mechanism  
Award: Category Grand Award – 2nd Award - $1,500

Soo Kyoung Kim* – senior, Bronx High School of Science  
Category: Energy and Transportation  
Project Title: A Simulation Using C++ to Evaluate the Performance of Columbia Non-Neutral Torus Stellarator Based on a Pedersen Model for Optimization  
Award: Category Grand Award – 3rd Award - $1,000

Katrina Koon* – senior, Stuyvesant High School  
Category: Cell and Molecular Biology  
Project Title: Evaluation of Antibacterial and Anticancer Properties of Capnella imbricate Extracts  
Award: Category Grand Award – 3rd Award - $1,000

Andrei Nagornyi* – senior, Stuyvesant High School  
Category: Computer Science  
Project Title: New Morphological Features for Automated Classification of Galaxy Images Obtained in Deep Space Surveys  
Award: Astronomical Society of the Pacific and American Astronomical Society – Priscilla and Bart Bok 1st Award $1,000 and travel to the next AAS meeting; Category Grand Award – 3rd Award - $1,000

Yevegeniy Rudoy* – senior, Stuyvesant High School  
Project Title: On the Construction of an Uncountable Class of Transcendental Numbers  
Award: Category Grand Award – 4th Award - $500

Andrew Sherlock – sophomore, Hunter College High School  
Category: Medicine and Health Sciences  
Project Title: Dying Young: Mortality Patterns from Pandemic Influenza and Pneumonia by Age Group

Ho Chit Siu – senior, Bronx High School of Science  
Category: Environmental Sciences  
Project Title: Evaluation of Hydraulic Conductivity from Grain Size and Slug Test in Araihazar, Bangladesh

Sheraz Tariq – senior, Manhattan Center for Science and Mathematics  
Category: Medicine and Health Sciences  
Project Title: The Effect of Biometric Polymers on the Endothelial Glycocalyx

Team Projects:

Angela Lee and Klaudia Kluzinski* – juniors, Forest Hills High School  
Category: Behavioral and Social Sciences  
Project Title: Effects of an Action Video Game on Reducing Gender Gap in Geometry Scores  
Award: Team Grand Award – 4th Award - $500

Israt Ahmed, Stephanie Chen, and Cathy (Xiao) Zhou* – juniors, Francis Lewis High School and Stuyvesant High School  
Category: Earth and Planetary Sciences  
Project Title: ESR Dating “Early Men” and their Tools at Pradayrol, France, and Ainikab I, Russia: “So easy a Caveman can do it!”  
Award: Team Grand Award – 3rd Award - $1,000