HUGHES SCIENCE PIPELINE PROJECT

TWENTY-FIRST ANNUAL STUDENT RESEARCH SYMPOSIUM

4:00-7:30 P.M.

THURSDAY, 18 APRIL 2013

SULZBERGER PARLOR, BARNARD HALL

SCHEDULE OF SPEAKERS

4:05 Paul E. Hertz, Director of the HSPP
Welcome

4:15 Flo Doval Research Mentor: Reshmi Mukherjee, Physics and Astronomy
Search for Dark Matter Subhalos with Fermi-LAT and VERITAS

4:30 Aleq Abdullah Research Mentor: Brian Mailloux, Environmental Science
Methods for Optimizing Extraction of Bacterial DNA from Field Systems

4:45 Elizabeth Batista Research Mentor: John Glendinning, Biological Sciences
De-orphaning Olfactory Receptors in *Manduca sexta* Moths

5:00 Giulia Orazi Research Mentor: Krista McGuire, Biological Sciences
Seasonal and Geographical Variation of Microbial Abundance and Community Composition in New York City Green Roofs and Parks

5:15 Sara Payne Research Mentor: Krista McGuire, Biological Sciences
Identification of Heavy Metal Resistant Soil Fungi in NYC Green Roofs and Parks

5:30 Danielle Aronowitz Research Mentor: Jennifer Mansfield, Biological Sciences
Assessing Redundancy in Hox Gene Function by Early Knockdown of Hoxa-5 and Combinations of Hox Genes

5:45 Grace Winship Research Mentor: Hilary Callahan, Biological Sciences
Heritability and Genetic Correlation in Experimental and Natural Populations of *Arabidopsis thaliana*

6:00 Sarah Svirsky Research Mentor: Russell Romeo, Psychology
Neural Basis of Age- and Experience-Dependent Changes in Stress Reactivity

6:15 Victoria Oswald Research Mentor: John Magyar, Chemistry
An Electron Transfer Protein from a Psychrophilic Hydrocarbonoclastic Microorganism

6:30 Kavisha Khanuja Research Mentor: Mary Sever, Chemistry
Regulation of Amyloid β Precursor Protein by Iron Treatment and Mir-106b Alterations

6:45 Chloe Cheimets Research Mentor: Robert Remez, Psychology
On the Tolerance of Spectral Blur in the Perception of Spoken Words

7:00 Molli Jackson Research Mentor: Larry Heuer, Psychology
A Deservingness Model of Procedural Fairness