

HUGHES SCIENCE PIPELINE PROJECT

**SIXTEENTH ANNUAL STUDENT RESEARCH SYMPOSIUM**

4:15-8:00 P.M.

WEDNESDAY, 9 APRIL 2008

SULZBERGER PARLOR, BARNARD HALL

SCHEDULE OF SPEAKERS

- 4:20 PAUL E. HERTZ, Director of the HSPP  
Welcome
- 4:30 Ayelet Spitzer                      Research Mentor: Matt Wallenfang, Biological Sciences  
The effect of a pro-aging gene, *methuselah*, on the aging of the germ-line stem cells of *drosophila melanogaster*
- 4:45 Maika Takita                      Research Mentors: Tim Halpin-Healy & Horst Stormer, Physics & Astronomy  
Graphene Device Fabrication
- 5:00 Tzvetomira Atanassova              Research Mentor: John Magyar, Chemistry  
Probing electron-transfer pathways in cytochrome *c*
- 5:15 Kaitlyn Suski                      Research Mentor: Dina Merrer, Chemistry  
Reactivity of Dihalocarbenes with Cycloalkyne
- 5:30 Tina Tong                      Research Mentors: Rae Silver & Joe LeSauter, Psychology  
Exploring Spatio-temporal Organization of SCN Circuits
- 5:45 Rachel Romesburg              Research Mentor: Eshkol Rafaeli, Psychology  
Emotional Complexity and Empathic Accuracy in Romantic Dyads
- 6:00 Lu Han                      Research Mentor: Lisa Son, Psychology  
The Self- And Other-Hindsight Bias Effect
- 6:15 Risa Hoshino                      Research Mentor: Jennifer Pardo, Psychology  
The influence of social factors on speech production
- 6:30 Jessica Chen                      Research Mentor: Jennifer Mansfield, Biological Sciences  
Determination of *Hoxa-5* Function in Chicken Axial Tissue through RNA Interference
- 6:45 Emily Kyrillou                      Research Mentor: John Glendinning, Biological Sciences  
Does High Sugar Intake Lead to Obesity?
- 7:00 Samantha Roberts              Research Mentor: Hilary Callahan, Biological Sciences  
Root Trait Variation among Species in Basal Angiosperm and Seed Plant Clades: Studies at the New York and Brooklyn Botanical Gardens and Barnard Greenhouse
- 7:15 Maggie Chan                      Research Mentor: Hilary Callahan, Biological Sciences  
Reproductive and Offspring Trait Variation in *Quercus rubra*
- 7:30 Diana Chang                      Research Mentors: Martin Stute & Jason Smerdon, Environmental Science  
Testing canonical correlation analysis as a climate field reconstruction method using pseudo-proxy experiments
- 7:45 Margaret Bounds                      Research Mentor: Martin Stute, Environmental Science  
Push/pull Experiments to Determine Arsenic Reaction Rates