

HUGHES SCIENCE PIPELINE PROJECT
TWENTIETH ANNUAL STUDENT RESEARCH SYMPOSIUM

4:00-8:00 P.M.

THURSDAY, 19 APRIL 2012

JAMES ROOM, BARNARD HALL

SCHEDULE OF SPEAKERS

- 4:05 Paul E. Hertz, Director of the HSPP
Welcome
- 4:15 Rachel Brodsky Research Mentor: Elizabeth Bauer, Biological Sciences
The BNST Mediates the Anxiogenic Effects of Acute SSRI Administration via Activation of the Central Nucleus of the Amygdala.
- 4:30 Anika Afroz Research Mentor: John Glendinning, Biological Sciences
Does Trpa1 Mediate Taste in *Manduca Sexta* Caterpillars?
- 4:45 Sarah Szwed Research Mentor: Mary Sever, Chemistry
Regulation of Tau Hyperphosphorylation by miR-15a and Manganese via MAPK3/ERK1 Pathway.
- 5:00 Jennifer Galamba Research Mentor: Koleen McCrink, Psychology
Spatial-Numeric Associations Bias Attention: An Investigation of Encoding Biases in Children Three to Four Years of Age and College Aged Adults.
- 5:15 Maria Stiller Research Mentor: Joshua New, Psychology
Arresting Perception: Animate Objects Capture Attention and 'Slow' Down Time.
- 5:30 Daly Franco Research Mentor: Russell Romeo, Psychology
Stress- and Age-related Differential Activation of the Amygdala during Auditory Fear Conditioning in Male Rats.
- 5:45 Julia Discenza Research Mentor: Krista McGuire, Biological Sciences
A Spatial Autocorrelation Analysis of Green Roof Microbial Communities in New York City.
- 6:00 Karimah Rokins Research Mentor: Jennifer Mansfield, Biological Sciences
Determining the Role Hoxc-4, Hoxd-4, and Hoxc-5 in Patterning the Chick Cervico-Thoracic Transition
- 6:15 Abigail Smith Research Mentor: Mary Sever, Chemistry
Small Molecules as MicroRNA Regulators.
- 6:30 Aneta Turlik Research Mentor: Alison Williams, Chemistry
The Effects of Ion Concentration and pH on the Stability of Double and Triple Helical DNA.
- 6:45 Madeline Pantalena Research Mentor: Hilary Callahan, Biological Sciences
Determining Appropriate Phytometers for Cross-Campus Experiments in Ecological Population Genetics.
- 7:00 Sarah Lyon Research Mentor: Brian Mailloux, Environmental Science
Natural Carbon Sources Drive Arsenic into Groundwater in Shahrasti, Bangladesh.
- 7:15 Bailey Griswold Research Mentor: Martin Stute, Environmental Science
Analysis of SF6 and SF5CF3 by Gas Chromatography to Characterize Groundwater Transport at a CO2 Sequestration Site in Iceland.
- 7:30 Nina Yang Research Mentor: Krista McGuire, Biological Sciences
Functional Analysis of Microbial Extracellular Enzymes in Soils From Rain Forest And Oil Palm Plantations in Pasoh, Malaysia.