

HUGHES SCIENCE PIPELINE PROJECT
TWENTY-SECOND ANNUAL STUDENT RESEARCH SYMPOSIUM

4:00-8:00 P.M.

WEDNESDAY, 23 APRIL 2014

JAMES ROOM, BARNARD HALL

SCHEDULE OF SPEAKERS

- 4:05 Paul E. Hertz, Director of the HSPP
Welcome
- 4:15 Sumeet Minhas Research Mentor: Russell Romeo, Psychology
Stress-Induced Oxytocin and Vasopressin Responses in Male Rats before and after Pubertal
Development.
- 4:30 Vassiliki Papagermanos Research Mentor: Rae Silver, Psychology
The Neural Basis Underlying the Acquisition of Anticipation.
- 4:45 Katherine Rinaldi Research Mentor: Andrew Crowther, Chemistry
The Photochemical Chlorination of Graphene
- 5:00 Blanka Janicek Research Mentor: Andrew Crowther, Chemistry
Charge Transfer Dynamics between Iodine and Graphene in Solution
- 5:15 Hannah Yan Research Mentor: Jonathan Snow, Biological Sciences
Establishment of an *Apis mellifera* Immune Signaling Model in *Drosophila Melanogaster* S2 Cells
- 5:30 Ashiana Jivraj Research Mentor: Brian Morton, Biological Sciences
Codon Usage Patterns in Nuclear Genes from *Arabidopsis Thaliana*, *Oryza Sativa* and *Solanum
Tuberosum*.
- 5:45 Maria Geba Research Mentor: Jennifer Mansfield, Biological Sciences
Chemoreception Gene Knockout in *Manduca Sexta* Using the CRISPR Method.
- 6:00 Sara Pasik Research Mentor: Elizabeth Bauer, Biological Sciences
Which Cells are Involved in the Acute Anxiety Initiated by Selective Serotonin Reuptake Inhibitors
(SSRIs)?
- 6:15 Carol Kim Research Mentor: Brian Mailloux, Environmental Science
A Method for Isolating High Purity RNA from Aqueous Samples for Radiocarbon Analysis.

- 6:30 Colleen Mulvihill Research Mentor: Brian Mailloux, Environmental Science
Sources of Organic Carbon in a Recently Deposited Floodplain Aquifer, Rifle, Colorado.
- 6:45 Lissa Soares Research Mentor: Martin Stute, Environmental Science
Groundwater Quality Survey of Rural New York and Pennsylvania State: A Pilot Study.
- 7:00 Lisa Veras Research Mentor: Daniel Nieto & Reshmi Mukherjee, Physics & Astronomy
Cherenkov Telescope Array: Mirror Alignment Project Software Solutions to Increase Positional
Resolution.
- 7:15 Yuexia Lin Research Mentor: Manel Errando & Reshmi Mukherjee, Physics & Astronomy
Analysis of Lunar Occultation of Crab Nebula observed by VERITAS.
- 7:30 Valerie Magalong Research Mentor: Peter Balsam, Psychology
Effects of the 5-HT_{2C} Receptor Antagonist Agomelatine on Performance in the Progressive Ratio
Schedule.
- 7:45 Arielle Sasson Research Mentor: Peter Balsam, Psychology
Learned Habits: Dendritic Morphology in Dorsal Striatum.