

URECA Biology Alumni Awards Recipients

Irvind Buttar, Biology *Characterizing Y2853 as a substrate of AAA+ protease Lon* (Dr. Wali Karzai, Biochemistry & Cell Biology)

Aaron Gochman, Biology *Characterizing Novel Sites for Modulating NMDA Receptor Function* (Dr. Lonnie Wollmuth, Neurobiology)

Andrew Seunghyun Lee, Biology, Psychology *Investigation of S100B-mediated Neuroinflammation in Autism Spectrum Disorder: An Animal Model of Developmental Hyperserotonemia (DHS)* (Dr. Patricia Whitaker-Azmitia, Psychology)

Ryan Linzer, Biochemistry *The Effect of Sphingolipid Metabolism on CMT2F* (Dr. Can Senkal, Medicine-Cancer Center)

Henry Ng, Biology *Optimizing Mutation introduction by CRISPR/Cas in Candida albicans* (Dr. Neta Dean, Biochemistry & Cell Biology)

Sundas Shafique, Biology *The Evolution of Thermo-perception in Vampire Bats* (Dr. Liliana Davalos, Laurel Yohe, Ecology & Evolution)

Veevek Shah, Biochemistry *The Rate of Tumor Growth and Metastasis of Triple Negative Breast Cancer in PLD-/- Mouse Models*, (Dr. Michael A. Frohman, Pharmacological Sciences)

Andrew Tsai, Biology-Developmental Genetics Specialization *Characterization of the Four Classes of Human Equilibrative Nucleoside Transporters* (Dr. Jarrod B. French, Biochemistry, Chemistry)

Chhabra-URECA Award

Sunil Deochand, Mathematics/Biology minor *Creating Self-Preserving Vaccines with Intrinsically Disordered Proteins* (Dr. J. Peter Gergen, Undergraduate Biology, Biochemistry & Cell Biology)

URECA Recipients

Elle Butler Basner, Biochemistry, Applied Math & Statistics *Assessing the Subject Matter Knowledge of Beginning STEM Teachers in the US: A Longitudinal Demographic Study* (Dr. Gregory Rushton, Chemistry)

Kathryn Eckart, Biochemistry *Biotin Phenol Project; Labeling of Proteins in Live Cells* (Dr. Jessica Seeliger, Pharmacological Sciences)

Ibrahim Elmaghrbi, Biology *Down regulation of RCOR2 and its effect on movement in zebra fish embryos* (Dr. Howard Sirotkin, Neurobiology)

Michelle Goodman, Biology *Investigating the Role of ID3 Transcription Factors in Mesodermal Cell Fate* (Dr. Benjamin Martin, Biochemistry & Cell Biology)

Michael Haggerty, Biology *Function Mapping of Electrically Excited Sex Hormone Sensitive Subthalamic Nucleus Neurons* (Dr. Mary Kritzer, Neurobiology)

Ayman Haider, Biomedical Engineering *Investigating Mechanisms of Ion Permeation in NMDA Receptors* (Dr. Lonnie Wollmuth, Neurobiology)

Yasmeen Hamami, Biochemistry *Dissecting the Molecular Mechanisms of Mfa Fimbrial Assembly in Poryphoromonas gingivalis* (Dr. David Thanassi, Molecular Genetics & Microbiology)

Tasnia Islam, Biology *Stony Brook iGEM 2016 Team* (Dr. J. Peter Gergen, Undergraduate Biology, Biochemistry)

Maitreyee Kale, Biochemistry *Leaving Groups: An Analysis of Beginning Teacher Attrition and Mobility* (Dr. Gregory Rushton, Chemistry)

Evelyn Kandov, Biology *The Role of gC1qR and its Ligands in Cancer Pathogenesis and Metastasis* (Dr. Berhane Ghebrehiwet, Medicine)

Page Keating, Biology & Anthropology *Sequencing of the pyrin gene in black rats to determine its role in host resistance to Yersinia pestis in Madagascar* (Dr. James B. Bliska, Molecular Genetics & Microbiology)

Jonathan Krog, Biomedical Engineering, Stony Brook iGEM 2016 Team (Dr. J. Peter Gergen, Undergraduate Biology, Biochemistry)

Ann Lin, Biochemistry *Downsides and benefits of unicellularity in budding yeast* (Dr. Gabor Balazsi, Laufer Center)

Jennifer Luk, Biology & Chemistry, Researching on Gender-Differences in the CFA Pain Model in Mice treated with selected FABP Inhibitors (Dr. Martin Kaczocha, Anesthesiology, Biochemistry & Cell Biology)

Rima Madan, Biology, Comparing the prevalence of pathogenic bacteria in wild ringtailed lemurs (Lemur catta) inside and outside of Beza Mahafaly Special Reserve (Dr. Patricia Wright, Anthropology)

Arun Nallainathan, Biomedical Engineering *Analysis of the gene expression changes underlying taxol-induced 'chemo brain'* (Dr. Barbara Rosati, Physiology & Biophysics)

Kevin Skier, Psychology *Dissection of Pair Rule Response Elements for Drosophila Wingless Gene* (Dr. J. Peter Gergen, Undergraduate Biology, Biochemistry)

Gregory Smith, Biochemistry *Examining the Disputed Role of FOXP2 in Modern Human Origins* (Dr. Brenna Henn, Ecology & Evolution)

Andrew Sullivan, Engineering Science, Applied Mathematics & Statistics *Development of an Algorithm for Analyzing Calcium Signaling Data* (Dr. Lorna Role, Neurobiology)

Joseph Sweeney, Pharmacology *Inhibiting Endocannabinoid Intracellular Transporters, Fatty Acid Binding Proteins: A Novel Pain Relief Mechanism* (Dr. Dale Deutsch, Biochemistry & Cell Biology)

Qian Yang, Biochemistry, Psychology, Matrix Metalloproteinase-12 Regulating Planar Cell Polarity in Ependymal Cells (Dr. Holly Colognato, Pharmacological Sciences)

Melissa Yannetti, Biology *Mutation and Crystallization of Nitric Oxide Sensing Protein* (Dr. Elizabeth Boon, Chemistry)

PSEG EXPLORATIONS IN STEM Recipients

Robert Bruce, Physics, Biochemistry *The Effect of Low-intensity Mechanical Vibrations on Cytoskeleton Structure in Different Developmental Stages of Adipocytes* (Dr. Mei Lin Chan, Biomedical Engineering)

Matthew Choi, Biology *Assessing the efficacy of small-molecule inhibitors of Nrp1 in slowing glioma progression* (Dr. Stella Tsirka, Pharmacological Sciences)

Yuyan Huang, Psychology *Analysis of Transcriptome Changes in Rat Models of Post-Traumatic Stress Disorder* (Dr. David McKinnon, Neurobiology)

Breanna Jones, Biochemistry *Purifying Protein Constructs for Application as Ca²⁺ Indicators in Neural Mapping* (Dr. Scott Laughlin, Chemistry)

Ryan Kawalerski, Biochemistry, Stony Brook iGEM 2016 Team (Dr. J. Peter Gergen, Undergraduate Biology, Biochemistry)

Katherine Lo, Biology *The Analysis of the Putative BMP Response Element in the Sox5 Locus*, (Dr. Benjamin Martin, Biochemistry)