RECIPIENTS OF $10,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Sophia Friesen, Molecular Genetics, *Blood, Brains, and Backbone: The Role of MicroRNA 125a in Mouse Development*, Professor Susan E. Cole


RECIPIENTS OF $8,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Rachel Arielle Cannata, Astronomy and Astrophysics, *Characterizing Stellar Contamination in the Kepler Field*, Professor Donald Terndrup

Tyler Joseph Dause, Neuroscience, *Ethanol-Induced Inflammation in the Developing Hippocampus: Mast Cell Degranulation and Microglia Activation*, Professor Derick Lindquist


RECIPIENTS OF $7,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Olivia M. Fitzpatrick, Psychology, *In-Session Cognitive Change as a Predictor of Next-Session Depressive Symptom Reduction in Cognitive Therapy for Depression*, Professor Daniel R. Strunk


Nanki Hura, Biology, *The Development and Characterization of Neural-Specific Continuous Cell Lines in Drosophila melanogaster*, Professor Amanda Simcox

Duncan James Kountz, Biochemistry, *Tracking down Methyltransferases: Resolving Quaternary Amine Metabolism in Eubacterium limosum*, Professor Joseph A. Krzycki

Sean Ming Newby, Earth Sciences, *Refining the Geologic History of the Middle Ordovician (~ 465 mya) in Central Virginia Using the Seawater $^{87}$Sr/$^{86}$Sr Curve*, Professor Matthew R. Saltzman

Kieran Tebben, Microbiology, *Defining an Apicoplast Role of Atg8 in Plasmodium falciparum through Chemical Rescue*, Professor Mark Drew
RECIPIENT OF $6,500 UNDERGRADUATE RESEARCH SCHOLARSHIP

Alexander Harvey, Political Science, The Effects of Polarization, Alienation, and Inequality on American Democracy, Professor Benjamin McKean

RECIPIENTS OF $6,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Cheyenne Madison Jones, Microbiology, Reversible Anti-Von Willebrand Factor Inhibitor to Treat Thromboembolic Stroke, Professor Shahid Nimjee

Sheridan Nicole Leistikow, Neuroscience, Elucidating Loop Tolerance and Dynamics in Alpha-Helical Proteins, Professor Thomas J. Magliery

RECIPIENTS OF $5,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Alissa Caitlin Cullen, Molecular Genetics, Functional Complementation of Proteins Critical for the Initiation of Transposable Element Silencing: SDE5 and SGS3, Professor R. Keith Slotkin

Richard Andrew Heery, Physics, Optimizing Liquid Crystals as Plasma Mirrors for Ultra-Intense Lasers, Professor Douglass Schumacher

Seth Eugene Lyon, Biochemistry, Optimization of a Supplementation Approach for Generating 5′-Chemically Modified RNAs: Application to Introduction of an Internal Chemical Handle in a Long RNA, Professor Venkat Gopalan

Monica Sarkar, Neuroscience, A Network Mathematical Model of Ischemic Stroke, Professor David Terman

Natalie Squires, Neuroscience, The Role of TGFβ-Signaling in the Proliferation and Neurogenic Potential of Müller-glia Derived Progenitor Cells (MGPCs) in the Retina, Professor Andy Fischer

Cloe D. Watson, English and Psychology, New York City Creative Writing Trip, Professor Michelle Herman

RECIPIENTS OF $4,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Danielle Francine Blackfield, Psychology, The Psychological Impact of Concussion, Professor Stephen A. Petrill

Yannis Hadjiyannis, Molecular Genetics, Elucidating the Role of MMS22L on PTEN Regulation, Professor Gustavo Leone

Lindsey Annamaria Kinderdine, Spanish and International Studies, Silencing the Media Backlash in Chile: A Research Project on the Effects of Censored Media on Public Opinion in Dictatorship-Era Chile, Professor Ana Del Sarto
Nathaniel Allen Wesley, Biochemistry, Structure-Function Studies of an NFU1 Mutation: Implications for Iron-Sulfur Cluster Biosynthesis and Mitochondrial Disease, Professor James A. Cowan

RECIPIENTS OF $3,500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Richa Agrawal, Biochemistry, Role of Phosphorylation in Regulation of Cancer Biomarker Plasmin-2 Function, Professor Dmitri Kudryashov

Adam Joseph Haines, Neuroscience, The Effect of Oxytocin on Mammary Tumor Progression and Stress-Related Depressive and Anxiety-Like Behavior in Mice, Professor A. Courtney DeVries

Robert A. Kaufman, Neuroscience and Psychology, The Effects of Lavender and Peppermint Aroma on Cognitive Performance, Professor Christopher T. Simons

Hareesh S. Menon, Physics, Deep Convolutional Neural Networks in High Energy Physics Analysis, Professor Richard E. Hughes

RECIPIENT OF $2,500 UNDERGRADUATE RESEARCH SCHOLARSHIP

Rebecca Rose Martin, Geography, Berlin Residents’ Attitudes and Perceptions towards the Refugee Crisis, Professor Carmen Taleghani-Nikazm

RECIPIENTS OF $2,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Elizabeth Diane Auckley, Biochemistry, The Role of Dre2 and Erv1 in Iron-Sulfur Cluster Transport, Professor James A. Cowan

Anna Beatrice Callahan, Biochemistry, The Contribution of Estrogen Receptor Signaling to the Differential Response of Males & Females to Ultraviolet Light Exposure, Professor Tatiana Oberyszyn

Clare Anthony Carlisle, Psychology, Visual Perspective and the Accuracy of Recalled Interest, Professor Lisa Libby

Anthony Nicolas Ciavarella, Physics, Search for New Scalar Particles in the DiHiggs Channel at the LHC, Professor Harris Kagan

Samantha Lynn D’Agostino, Speech and Hearing Science, Immediate Effects of Resistance Training on Velopharyngeal Function, Professor Youkyung Bae

Macon Alexander Derleth, International Studies, Attachment to Place and Territorial Claims by Mexican Self-Defense Forces, Professor Alexander Wendt

Jennifer E. Eidemiller, Psychology, The Role of Self-Control in Confronting One’s Own Sexist Beliefs, Professor Kentaro Fujita

Skyler Daniel Maurer, Neuroscience, *Investigation of GABA Mediated Anxiolysis in the Postpartum Medial Prefrontal Cortex*, Professor Benedetta Leuner

Caitlin Marie Post, Neuroscience, *Linking Oxytocin Receptors in the Medial Prefrontal Cortex to Reduced Anxiety during the Postpartum Period*, Professor Benedetta Leuner

Spencer Ernest Talentino, Biology, *Reversible Aptamer in Translational Porcine Model of Stroke*, Professor Shahid Nimjee

Anh Thanh Thuy Tran, Biochemistry and Microbiology, *To Evaluate the Efficacy of p38 MAPK Target Peptide to Modulate Osteoclast Differentiation*, Professor Sudarshana M. Sharma

RECIPIENTS OF $1,500 UNDERGRADUATE RESEARCH SCHOLARSHIPS


John Edward Engle, Psychology, *The Role of Construal Level in Preconscious Awareness of Temptation*, Professor Kentaro Fujita

William T. Hines, Biology, *Retrograde tRNA Nuclear Import as a Novel Mechanism for tRNA Quality Control in Saccharomyces cerevisiae*, Professor Anita K. Hopper

Morgan Elizabeth Oates, Linguistics and Speech and Hearing Science, *Competence and Performance in Distributive/Collective Interpretation of Quantifiers in Child English and Spanish*, Professor John Grinstead

Joshua Lee Ong, Biochemistry, *A Multidisciplinary Approach to Brain Cancer Treatment: Computational-Guided Discovery of PRMT5 Inhibitors*, Professor Chenglong Li

RECIPIENTS OF $1,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Michael E. Behrendt, Psychology, *Evaluating Gender Differences in the Effectiveness of Different Emotion Regulation Strategies*, Professor Amelia Aldao

Ruoran Cheng, Geographic Information Science, *Explore the Party Competition and Elite Networks Using Geographic and Network Analysis: A Case Study during the Song Dynasty in China*, Professor Daniel Sui

Mikayla Elizabeth Dantuono, Biology, *Evaluation of Acquired Resistance to BGJ398 in FGFR-altered Ba/F3 Cells*, Professor Sameek Roychowdhury

Lydia Jiaen Kwong, Neuroscience, *The Relationship between Auditory and Visual Speech Processing*, Professor Vladimir Sloutsky

Tiffany Diem Le, Psychology, *Visual Imagery Perspective and the Integration of Affective Feelings with Knowledge*, Professor Lisa Libby
Tracy Okine, Neuroscience, Differences in Depressive- and Anxiety-like Behavior as Predicted by Stress-induced PFC-Amygdala Alterations, Professor Laurence Coutellier

Paul Kinsman O’Neill, English, New York City Creative Writing Trip, Professor Michelle Herman

Jessica Lynn Parker, Psychology, Inverse Effectiveness and Aging in Multisensory Integration, Professor Chris Robinson

Brandon J. Springer, Neuroscience, Gestational Stress Effects on Oxytocin Neuron Activity: Implications for Postpartum Depression, Professor Benedetta Leuner

Andrew Stephen Vidalis, Biochemistry, The Relaxation of Palmitic Acid Monolayers on Complex Subphases, Professor Heather C. Allen

RECIPIENTS OF $500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Summer Rose Fair, Neuroscience, Mechanisms of Phox2B-derived Non-polyalanine Repeat Expansion Mutations, Professor José Javier Otero

Cody James Klinker, Biochemistry, Dosimetry Comparison of Gamma Knife and External Beam Radiation Therapy on Brain Tumors/Functional Diseases, Professor Lanchun Lu

Note: Arts and Sciences faculty who served on the Research Scholarship Subcommittee of the Arts and Sciences Honors Committee included Professors Bryan Carstens (Evolution, Ecology, and Organismal Biology), Danielle Marx-Scouras (French and Italian), Jennifer Mitzen (Political Science), and Laura Wagner (Psychology).