



COLLEGE SCIENCE SCHOLARS

*A Joint Program of the Departments of
Astronomy, Biology, Chemistry, Computer Science,
Environmental Sciences, Mathematics, Physics, Psychology and Statistics*

College Science Scholars Research Symposium October 29th, 2014, 4 - 6pm, 166 Gilmer

Aarti Purohit, 2nd Year CSS Student and Lowe College Science Scholar, CSS Summer Scholar Award ¹

“Role of dopamine in circadian entrainment to reward: Proof-of-principle study using in vivo electrophysiology in the SCN of mice”

Mentor: Dr. Ali Güler, UVa Department of Biology, Topic Area: Neuroscience

Sarah Wyckoff, 2nd Year CSS Student

“Analysis and Quantification of Free-25-Hydroxyvitamin D3 Employing State of the Art LC-MS/MS Technology”

Mentor: Dr. Steven J. Soldin, Department of Laboratory Medicine, Clinical Center, NIH; Topic Area: Clinical Mass Spectrometry

Jessica Yoo, 3rd Year CSS Student, CSS Summer Scholar Award ²

“Progress on the co-crystallization of the broad range *Thermoplasma acidophilum* nucleoside kinase (TaNK) with substrates”

Mentor: Prof. Linda Columbus, UVa Biochemistry; Topic Area: Structural Genomics

George Schwartz, 3rd Year CSS Student

“Investigation of Surface Plasmon Resonance of Ag films capped with Cs₂O Layers”

Mentor: Prof. Rosa A. Lukaszew, W&M Applied Physics; Topic Area: Material Science, Surface Characterization

Funded by Virginia Microelectronics Consortium (VMEC)

Debbie Pan, 3rd Year CSS Student

“Characterization of MicroDNA stability using an artificial minicircle construct system”

Mentor: Dr. Anindya Dutta, UVa School of Medicine, Biochemistry and Molecular Genetics; Topic Area: Molecular Genetics

Leah Grande, 4th Year CSS Student

“Predictors of change in attachment security from adolescence to adulthood”

Mentor: Prof. Joseph Allen, UVa Department of Psychology; Topic Area: Clinical Psychology

Rebecca Walker, 4th Year CSS Student

“Comparison of soil nitrogen pools in the organic horizon between old growth and secondary growth forests of the U.S. Mid-Atlantic”

Mentors: Prof. Howard Epstein and Prof. Aaron Mills, UVa Environmental Sciences; Topic Area: Ecosystem Ecology

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