



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 12th, 2016, 4 - 6pm, 166 Gilmer

Tomoya Kanno, 2nd Year CSS Student

“De novo assembly of potential lncRNA samples relevant in Prostate Cancer cell lines and patients”

Mentor: Prof. Anindya Dutta, UVA Medical Center Department of Biochemistry; Topic Area: Biochemistry and Molecular Genetics

Richard Doty, 2nd Year CSS Student

“Assorted Analytical Methods in MATLAB Including Spectroscopy, Image Processing, and TCSPC”

Mentor: Prof. James Demas, UVa Chemistry; Topic Area: Physical Chemistry

Hamzah Shariff, 2nd Year CSS Student

“The potential for tRNA-derived RNA fragments (tRFs) to regulate genes and their presence in human embryonic kidney (HEK293T) cells”

Mentor: Prof. Anindya Dutta, UVA Medical Center Department of Molecular Genetics and Biochemistry; Topic Area: MicroRNAs

John Costello, 2nd Year CSS Student

“Research methods for studying *OXTR* methylation in behavioral epigenetics”

Mentor: Prof. Jessica Connelly, UVa Psychology; Topic Area: Epigenetics

Daniel Inyoung Lee, 3rd Year CSS Student

“Characterizing the role of CREM as a tumor suppressor in pancreatic cancer”

Mentor: Prof. Mazhar Adli, UVA Medical Center Department of Biochemistry and Molecular Genetics; Topic Area: Epigenomics

Drake Dixon, 3rd Year CSS Student

“Utilizing Oxygen Sensing Boron Nanoparticles to Develop a Novel Immunometabolism Assay”

Mentor: Prof. Rebecca Pompano, UVa Chemistry; Topic Area: Immunometabolism

Kelvin Li, 3rd Year CSS Student

“Crystallization of the soluble domain of inclusion membrane protein A (IncA)”

Mentor: Prof Linda Columbus, UVa Biochemistry; Topic Area: Biochemistry

Samantha Heitsch, 4th Year CSS Student

“Town Bee and Country Bee: A Tale of Colony Growth and Land Use Change.”

Mentor: Prof. T'ai Roulston, UVa Environmental Science and Blandy Experimental Farm; Topic Area: Ecology

Many thanks go to the generous donors to the College Science Scholars program who make these summer research awards possible: Charles Henry Leach, II, Foundation, Mr. Steve Van Besien; Entigence Corporation; Lois A. Fitton & W. Christopher Draper, Jr.; Sharon B. Parente & John W. Risner; The Jefferson Trust; Robert Atkinson; Lowe Family; Dean's discretionary gifts