SPRING 2014

Virginia Commonwealth University Presidential Research Quest Fund

Karolina Aberg
School of Pharmacy
Center for Biomarker Research and Personalized Medicine

Edwin van den Oord
School of Pharmacy
Center for Biomarker Research and Personalized Medicine

Karolina Kaehler
Karolinska Institute
Methylome-wide investigation of PKUblood spots may determine whether hypoxia-related methylation marks, associate to schizophrenia, were present early in life

Julio Alvarez
College of Humanities and Sciences
Department of Chemistry
Application of acid base catalysis to redox reactions involving proton-coupled electron transfer

Roy Colello
School of Medicine
Department of Anatomy and Neurobiology
Saving football: Utilizing the repulsive force of magnets to reduce impact forces generated at helmet-to-helmet collisions

Ross Collin
School of Education
Department of Teaching and Learning
The value of English: Contending visions of the value of studying English language arts

Daniel Conway
School of Engineering
Department of Biomedical Engineering
Measurement of mechanical tension across desmosomal cadherins

Gurpreet Dhillon
School of Business
Department of Information Systems
Corporate insider threat detection: Inside out cybersecurity

Malgorzata Dukat
School of Pharmacy
Department of Medicinal Chemistry

Douglas Sweet
School of Pharmacy
Department of Pharmaceutics
hOCTs as promising targets for antidepressant action: Early structure-activity studies

Chris Ehrhardt
College of Humanities and Sciences
Department of Forensic Science

Vamsi Yadavalli
School of Engineering
Department of Chemical and Life Science Engineering
Chemical signatures of environmental pathogens for microbial forensics

Carlos Escalante
School of Medicine
Department of Physiology and Biophysics
Structural studies of IRF4 as target against multiple myeloma

continued on next page

Quest for Distinction
VCU

SPRING 2014

Virginia Commonwealth University Presidential Research Quest Fund

continued

Purusottam Jena
College of Humanities and Sciences
Department of Physics

Hani El-Kaderi
College of Humanities and Sciences
Department of Chemistry
Toward a new generation of rechargeable batteries

Youngmi Kim
School of Social Work
How do household assets mitigate food insecurity during the Great Recession?

Laura McClelland
School of Allied Health Professions
Department of Health Administration

Allison Gabriel Rossetti
School of Business
Department of Management
Understanding the causal relations of workplace stressors on provider well-being and the patient care experience

Michael McVoy
School of Medicine
Department of Pediatrics — Infectious Diseases
Structure of cytomegalovirus nuclease UL98

Ruixin Niu
School of Engineering
Department of Electrical and Computer Engineering
Distributed compressive sensing with applications to biomedical signals

Darrell Peterson
School of Medicine
Department of Biochemistry and Molecular Biology

Rong Huang
School of Pharmacy
Department of Medicinal Chemistry
Development of bisubstrate inhibitors for protein N-terminal methyltransferase 1

Semi Ryu
School of the Arts
Department of Kinetic Imaging
VoicingElder: Improving quality of life for older adults with avatar life-review

Genevieve Siegel-Hawley
School of Education
Department of Educational Leadership
Overcoming the city-suburban educational divide? The merger of the Memphis City and Shelby County School systems

H. Gregory Waller
School of Business
Department of Finance, Insurance and Real Estate

Miroslava Straska
School of Business
Department of Finance, Insurance and Real Estate
On staggered boards at highly visible firms