THE SCOPE

THE OFFICIAL NEWSLETTER OF THE COLLEGE OF SCIENCE & MATHEMATICS / SCHOOL OF HEALTH PROFESSIONS

Summer Research Review

National Institutes of Health: Dr. Alison Krufka



The Cumberland County College Bridge to Rowan (CB2R) program is a collaborative effort between Rowan and CCC funded through the NIH Bridges to the Baccalaureate Program. This comprehensive academic and mentoring program is providing students with academic, mentoring, and research opportunities from their freshmen year at CCC through their graduation from Rowan.

The program, which targets traditionally underrepresented student populations, will help to diversify the biomedical research workforce, bringing new perspectives, establishing important connections to diverse populations, and improving the results produced by this workforce. The first cohort of students will be attending Rowan this fall and the second cohort of students is going into their second year at CCC.

"I am very excited to be working with my collaborators from CCC. Through this program, teams of talented educators and researchers at CCC and Rowan can provide students the opportunity to gain valuable research experience and excel in their study of biology," said Krufka. "Two of the students were given the opportunity to participate in the Summer Undergraduate Research Program (SURP) this summer and get a preview of what it will be like to attend Rowan full-time this fall."

National Science Foundation: Dr. Gustavo Moura-Letts



Dr. Gustavo Moura-Letts was awarded a grant by the NSF that is allowing Rowan to acquire a top-of-the-line Nuclear Magnetic Resonance (NMR) instrument which will be used to advance undergraduate research on our Glassboro campus. Rowan is the first academic institution in the state of New Jersey and among the first on the east coast to acquire this sophisticated instrument. Moura-Letts commented, "This piece of equipment will allow Rowan to compete among the best research institutions in the Delaware Valley." The NSF also recently presented Moura-Letts with a CAREER: The Faculty Early Career Development (CAREER) Program award. He is the first faculty member in the CSM to earn the award.

National Institutes of Health Grant: Dr. Ileana Soto-Reyes



Dr. Ileana Soto-Reyes received an Academic Research Enhancement Award (AREA, R15) from the NIH. "This award is of great importance to determine how a specific mutation alters the normal postnatal development of neural connections in the cerebellum and how this alteration contributes to the fast degeneration of neurons in early childhood in Niemann-Pick Type C (NPC) disease," stated Soto-Reyes. "Understanding these pathological changes in the brain that precede neuronal loss and neurological symptoms will help the scientific community to develop therapeutic interventions that delay or prevent the onset and progression of the disease."

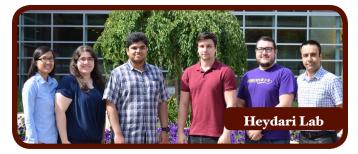
More research grants on back cover

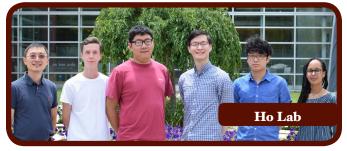












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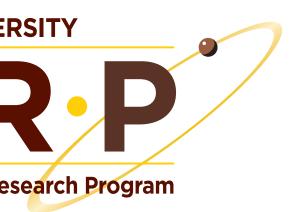
Summer Undergraduate Re































National Science Foundation: Dr. Xiao Hu



Prof. Xiao Hu was recently awarded a 3-year collaborative grant by NSF to study the protein-polysaccharide interactions of natural composite materials in one and two dimensions. As the first NSF Collaborative Award between Rowan and Rutgers-Camden, the funds will be used to address real-world biomaterial problems, bringing together medicine, environmental science, and materials science. The grant also provides research training and educational opportunities for South Jersey high school and college students, which is critical for the future of science and the economy in our region.

ASRC Federal/Mission Solutions: Dr. Tony Breitzman



Rowan's grant with ASRC Federal Mission Solutions (AFMS) has been extended for a third year and potentially years four and five. Professor Tony Breitzman, who leads the grant team, commented, "Through this grant, Rowan is able to introduce to ASRC Federal some of our best and brightest students. Meanwhile the students gain invaluable experience working on cutting edge problems from ASRC." ASRC Federal Mission Solutions, has been developing satellite imaging systems to identify objects with Rowan computer science students on a project titled "Image Fusion for Situational Awareness."

New Competitive Grants & Contracts (July 1, 2017 - July 27, 2018)

Principal Investigator Federal Funding	Department	Sponsor
Alison Krufka	Biological Sciences	NIH
Ileana Soto-Reyes	MCB	NIH
Xiao Hu	Physics & Astronomy	NIST
Xiao Hu	Physics & Astronomy	NSF
Gustavo Moura-Letts	Chem. & Biochem.	NSF
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Trevor Smith	Physics & Astronomy	NSF
Trevor Smith	Physics & Astronomy	NSF
Bo Sun	Computer Science Br	ookhaven
	National L	aboratory
Karen Magee-Sauer	Dean's Office	NASA
	Sp	ace Grant
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	Sp	ace Grant

Foundation & Other Non-Profit Funding

Tabbetha Dobbins	Physics & Astronomy	ACS
James Grinias	Chem. & Biochem.	ACS
Jeffrey Hettinger	Physics & Astronomy NJ	Health
	Fou	ndation

Claude Krummenacher Biological Sciences/MCB

NJ Health Foundation

Principal Investigator	Department	Sponsor
Nathaniel Nucci	Physics & Astronomy/MCB	
	NJ Health	Foundation
Nicholas Whiting	Physics & Astronomy	
	NJ Health	Foundation
Nicole Vaughn	HES	United Way

Industry Funding

Tony Breitzman	Computer Science	ASRC
Subash Jonnalagadda	Chem. & Biochem.	Avante
	Phar	maceuticals
James Grinias	Chem. & Biochem.	Shimadzu
Gustavo Moura-Letts	Chem. & Biochem.	Syrsa Corp.

Internal Funding - RU Seed Funding

Name	Department
Daniel Freidenreich	HES
Shen-Shyang Ho	Computer Science
Erin Pletcher	HES
Christina Simmons	Psychology
Ileana Soto-Reyes	MCB
Robert Weaver	HES