



TOP STORY

Eric Schearer Awarded NSF REU Site Renewal



Dr. Eric [Schearer](#), an associate professor in the Department of [Mechanical Engineering](#), has been awarded a three year, \$450,000 renewal by the National Science Foundation for [RE@CSU](#), a Research Experiences for Undergraduates ([REU](#)) Site at CSU. Dr. Schearer is joined by a group of faculty mentors whose research spans engineering, physical therapy, and exercise physiology to create an immersive program to train

undergraduates recruited from around the country in the development of assistive technologies.

RE@CSU researchers will leverage sensing and computing to develop devices and therapy techniques to restore mobility and functional independence to people with reduced movement of their arms or legs. The 10-week program, held during the summer, will welcome student researchers to CSU's campus to join integrated learning communities that surround REU students with their peers, their mentors, medical professionals, and people with disabilities.

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MEET CSU'S FACULTY

Kailash Gulshan, BGES

Dr. Kailash [Gulshan](#) is an assistant professor in the Department of Biology, Geology, and Environmental Science ([BGES](#)) and a member of the Center for Gene Regulation in Health and Disease ([GRHD](#)). His research is focused on the role of inflammation in cardiovascular disease (CVD) and lung cancer. His postdoctoral research at the University of Iowa encompassed a wide variety of research projects including studies on reactive oxygen species, multidrug resistance, and the process of effluxing (flowing out) drugs from cells. He joined CSU in August 2020 from the Cleveland Clinic Lerner Research Institute ([LRI](#)).

Dr. Gulshan joins with a new, four year, \$1,607,512 NIH R01 award and a Case Comprehensive Cancer Center pilot award of \$50,000. In addition to CVD, his lab is also interested in studying the role of inflammation in lung cancer. His interest in the role of inflammation/cytokine pathways in lung cancer was deepened by the recent COVID-19 pandemic that highlighted the role of immune system-mediated "cytokine storms" in increasing fatality rates in COVID-19 patients.



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FEATURED RESEARCH PROGRAM

CSU Green Lab Program

The CSU Green Lab program has just launched! Developed by undergraduate student Grace Weyman Heller, a Biology major who is also pursuing minors in Chemistry and Environmental Science, the Office of Sustainability, and the Office of Environmental Health and Safety, this initiative aims to conserve energy and water, and to reduce waste in CSU labs. The components of the program include:

CSU Green Lab website: An overview of the program with links to CSU materials and resources.

Green Lab Guide: Best practice guidelines for energy and water conservation, sustainable purchasing, and waste reduction.

Shut the Sash campaign: Fume hoods are one of the largest energy users on campus. New stickers remind users to always shut the sash for safety and energy conservation.

Green Lab Training: This module will be included with EHS Lab Safety Training in Blackboard.

Faculty are encouraged to share these resources with students and staff who work in labs. For questions or more information, email Jenn McMillin, Director of Sustainability, at j.mcmillin@csuohio.edu.

RESEARCH OFFICE NEWS

Office of Research Welcomes Roman Kondratov as AVP

Dr. Roman [Kondratov](#), a professor in the Department of Biology, Geology, and Environmental Science ([BGES](#)) and a member of the Center for Gene Regulation in Health and Disease ([GRHD](#)), has been appointed associate vice president for research effective January 19, 2021.



An accomplished researcher, teacher, and mentor of graduate students, Dr. Kondratov will serve as liaison between the Office of Research and scholarly and creative activities across the University. He will work with the senior vice president for research and innovation, as well as faculty, staff, and students to enhance the University's scholarly productivity and to improve the research environment.

Roman can be reached at 216.687.5171 or via email at r.kondratov@csuohio.edu, and his office is located in PH 210.

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INSPIRED CREATIVITY

Red Bike, Directed by Holly Holsinger



Holly [Holsinger](#), an associate professor in the Department of [Theatre and Dance](#), will direct CSU's virtual production of [Red Bike](#). Written by Cara Svich, Red Bike is a shared storytelling event from the perspective of a pre-adolescent who is played by all actors in the cast.

The play follows thoughts about the dying town in which it takes place while also embodying the emotions of the storyteller(s) as the bike speeds out of control. Red Bike will be presented virtually from March

11-13 to a limited audience.

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U.S. Patent Issued



REPORT AN INVENTION

On January 26, 2021, the United States Patent and Trademark Office issued U.S. Patent No. 10,900,027 titled *Recombinant Prothrombin Analogues and Uses Thereof* that names Dr. Michael

Kalafatis Michael [Kalafatis](#), a professor and Chair of the Department of [Chemistry](#) and a member of the Center for Gene Regulation in Health and Disease ([GRHD](#)). The invention relates to modulation of the blood coagulation process including administration of modified forms of prothrombin and their use as anti-coagulants. The technology will enable a drug manufacturer to treat arterial thrombosis, a blood clot that develops in an artery that can obstruct or stop the flow of blood to major organs such as the heart or brain.

Contact Jack [Kraszewski](#) for assistance with a [disclosure](#) to begin the process of protecting your invention or intellectual property.

JumpStart Investing Q&A

Whether you're looking to learn more about venture capital fundraising in general, or interested in applying for funding specifically from [JumpStart](#), this is a great opportunity to gather information and ask questions.

JumpStart will be covering some of the core concepts of equity-based fundraising, including how investors like JumpStart approach due diligence, and answering questions directly from the audience.

Register [here](#).

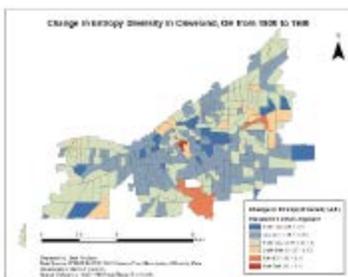


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SCHOLARSHIP OF NOTE

Research and Scholarship News from Across Campus

CRIS Brownbag Lunch



The Center for Refugee and Immigrant Success ([CRIS](#)) is hosting its first brownbag lunch event on February 18. Dr. Brian [Mikelbank](#), an associate professor in the Department of Urban Studies, and graduate student Jack Yochum will present their research, *Clusters, Diversity, and Intraurban Migration: Cleveland's Foreign-Born Population, 1930-1940*. The research examines the spatial dynamics of Cleveland's foreign-born populations between 1930 and 1940, and utilizes a unique data source, the Real Property Inventory, to detail neighborhood level migration patterns between 1933 and 1937.

Register [here](#) to attend.

Visiting Scholar Poonam Bala Publishes New Book

Dr. Poonam [Bala](#), a visiting scholar in the Department of Criminology, Sociology, and Anthropology ([CAS](#)), has co-authored a forthcoming book titled *Kayasthas: An Encyclopedia of Untold Stories*. The book is a comprehensive study of the Kayasthas in India, providing a bird's eye view of the Kayasth community across 21 States in India. It details their inter-state migration, evolution of the writer class, varna status, Kayasths in different States in India, their cuisine, script, temples, their



role in Indian freedom struggle, famous Kayasthas and identity symbols.

Additional information can be found at <https://www.kayasthencyclopedia.com/>.

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RESEARCH FUNDING NEWS

Internal Funding Applications

In spite of significant challenges imposed by the COVID-19 pandemic, CSU's faculty and graduate students continue to show their initiative in pursuing new directions in research and scholarship.

The Office of Research received another strong collection of proposals for internal research awards, including:

- 12 [FRD](#) proposals for seed funding for external research grants
- 21 [GSRA](#) proposals from graduate students
- 19 [FSI](#) proposals for scholarship and creative activity by faculty from all 8 academic colleges
- 40 [USRA](#) proposals for undergraduate summer research, supporting 53 undergraduate students



Thanks to all who applied - funding decisions will be announced by April 1.

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Please share with us important news or updates on your research, scholarly, or creative activities. Updates may be related to a paper that has been accepted for publication in a high-impact journal, a book you've just published, your work that will be exhibited at a prominent institution, or other updates you wish to share with our office. Send details to j.yard@csuohio.edu and b.j.ward@csuohio.edu.

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