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Publications of the Week

Effect of Small Molecule eRF3 Degraders on Premature Termination Codon Readthrough

Volume 5.14: April 19, 2021

First Author: Alireza Baradaran-Heravi | Senior Author: Michel Roberge (pictured) Nucleic Acids Research | UBC

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Premature termination codon (PTC) readthrough is considered a potential treatment for genetic diseases caused by nonsense mutations. Identifying compounds that enhance PTC readthrough by aminoglycosides or reduce their toxicity is a continuing challenge. The authors showed that PTC readthrough by aminoglycoside G418 is considerably enhanced by eukaryotic release factor 3 (eRF3) small interfering RNAs. Abstract

The Role of Phosphorylation in Atrial Fibrillation: A Focus on Mass **Spectrometry Approaches**

First Author: Sina Safabakhsh (pictured) | Senior Author: Zachary Laksman Cardiovascular Research | UBC, AbCellera, BC Children's Hospital Research Institute, and SFU



Atrial fibrillation (AF) is the most common arrhythmia worldwide. It is associated with significant increases in morbidity in the form of stroke and heart failure, and a doubling in all-cause mortality. The pathophysiology of AF is incompletely understood, and this has contributed to a lack of effective treatments and diseasemodifying therapies. This review discusses recent evidence surrounding the role of protein phosphorylation in the pathogenesis of AF. Abstract

From Infection Niche to Therapeutic Target: The Intracellular Lifestyle of Mycobacterium tuberculosis

First Author: Leah Rankine-Wilson | Senior Author: Yossef Av-Gay (pictured)



Microbiology | UBC

Mycobacterium tuberculosis (Mtb) is an obligate human pathogen killing millions ofpeople annually. Treatment for tuberculosis is lengthy and complicated, involving multiple drugs and often resulting in serious side effects and non-compliance. Mtb has developed numerous complex mechanisms enabling it to not only survive but replicate inside professional phagocytes. Abstract

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Local News

New Data about SARS-CoV-2 Virus Functions Could Aid in Treatment **Designs**

Phys.org



For the first time, a team of researchers has captured X-ray images of a critical enzyme of the COVID-19 virus performing its function. "What we've captured at high resolution is one of the important steps in that process that has never been visualized before in any viral protease of this class," said Dr. Natalie Strynadka (pictured, left), the UBC biochemistry Professor who led the research team with colleague Dr. Mark Paetzel (right) from SFU. Read More

Cloud Computing Support Accelerates COVID-19 Vaccine Improvements UBC News



For the last 11 months, UBC Biochemistry and Molecular Biology Professor Dr. Leonard Foster (pictured) and his team have been studying how SARS-CoV-2 attacks the human body, in hopes of developing a more targeted vaccine with fewer side effects. Before the pandemic, he was known for his work applying mass spectrometry to understand how pathogens affect honey bees. Now he's applying the same technology to better understand the novel coronavirus. Read More

SFU Neuroscientist Discusses Opportunities for Early-Career Researchers Nature Careers



Dr. Brianne Kent (pictured), a neuroscientist at SFU, says more junior researchers are in positions of influence because so many are active in movements around open science, open access and reproducibility. "Early-career researchers are really driving these initiatives to change scientific culture," said Dr. Kent, who is the first, and currently the only, junior scientist to sit on the Canadian Institutes of Health Research's 16-member governing council. Read More

Podcast Diabetes: From Beta Cells to Bicycles with Dr. Mary Jung BC Diabetes Research Network



Podcast host Krista Lamb is joined by BC Diabetes Research Network researcher Dr. Mary Jung (pictured). Dr. Jung is an Associate Professor at the School of Health and Exercise at UBC Okanagan. Her major research area is self-regulation of health behaviours, with a specialization in exercise, physical activity, and dietary behaviours, and the creation of community-based interventions for individuals at risk or living with type 2 diabetes. Read More

New Tools in the Fight against Crop Disease



Stripe rust, caused by the fungus *Puccinia striiformis*, is one of the most devastating pathogens of wheat and barley in Canada. Dr. Gurcharn Singh Brar (pictured), an Assistant Professor in Plant Science at UBC, and Dr. Guus Bakkeren with Agriculture and Agri-Food Canada are studying single cells to identify the prevalence of an adaptive somatic hybridization mechanism in which there is a genetic exchange without sex, and cells simply fuse. Read More

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Interesting Articles

Rebuilding the Canadian Biomanufacturing Sector



8:00 AM

To rectify Canada's R&D sector, there needs to be a plan in place to build a critical mass towards sustaining industry. One way to do this, according to Dr. Michael May, President and CEO of the Centre for Commercialization of Regenerative Medicine, is to focus on building an ecosystem akin to the one seen in Canada's auto sector where we manufacture and also have supply chains that are robust and deep. Read More

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Upcoming Events in Vancouver

Science-Informed Policy: COVID-19 and Beyond April 22 3:00 PM

Reproductive Cycle Effects on Brain and Cardiac Health April 23 9:00 AM

Mapping your Career Journey: Lessons on Academia to Industry April 23 12:00 PM

Online International Workshop on HIV & Women 2021 April 26

Microbiology and Immunology Undergraduate Research April 30

Symposium 9:00 AM Online

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(iii) Other Science Jobs in Vancouver

Computational Biologist, LIMS Canada's Michael Smith Genome Sciences Centre at BC Cancer

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Project Manager

Precision NanoSystems Inc.

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