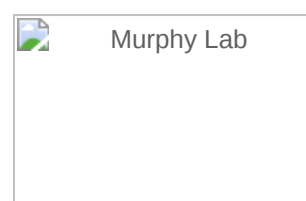


Publications of the Week

Gamma Frequency Activation of Inhibitory Neurons in the Acute Phase after Stroke Attenuates Vascular and Behavioural Dysfunction

First Author: Matilde Babli (pictured, fourth from left) | Senior Author: Timothy Murphy (fifth from left)
Cell Reports | Djavad Mowafaghian Centre for Brain Health and UBC

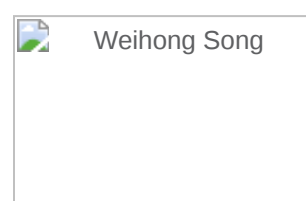


Alterations in gamma oscillations occur in several neurological disorders, and the entrainment of gamma oscillations has been recently proposed as a treatment for neurodegenerative disease. Optogenetic stimulation enhances recovery in models of stroke when applied weeks after injury; however, the benefits of acute brain stimulation have not been investigated. The authors report beneficial effects of gamma-frequency modulation in the acute phase, within 1 hour, after stroke.

[Profile](#) | [Abstract](#)

Cell-Type-Specific Memory Consolidation Driven by Translational Control

First Author: Qing Zhang | Senior Author: Weihong Song (pictured)
Signal Transduction and Targeted Therapy | UBC

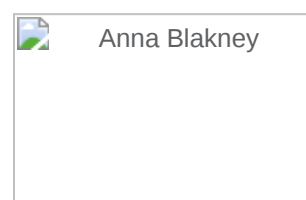


Long-term potentiation (LTP) has been widely acknowledged as one of the main cellular models of learning and memory. Lowering the threshold for LTP induction can facilitate the transition from the early phase of LTP to the late phase of LTP (L-LTP) and lead to memory consolidation. Therefore, deciphering the specific molecular machinery driving L-LTP formation is essential for understanding learning and memory.

[Abstract](#)

Next-Generation COVID-19 Vaccines: Here Come the Proteins

First Author: Anna Blakney (pictured) | Senior Author: Paul McKay
The Lancet | Michael Smith Laboratories and UBC



Since the publication of genomic information about severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), many efforts have been made to develop a vaccine against this virus. Three vaccines with more than 90% efficacy are licensed and beginning roll-out in some countries, which is a true feat of scientific endeavour and international efforts. However, SARS-CoV-2 continues to be a major threat worldwide and development of new COVID-19 vaccines remains essential.

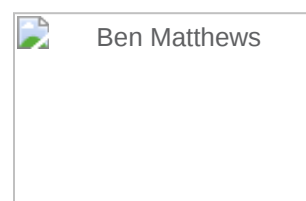
[Abstract](#)

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Awards

UBC Biologist Recognized as One of North America's Top Young Scientists

UBC Science

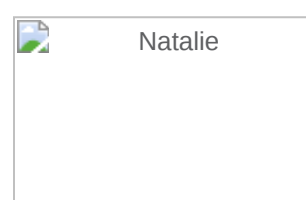


UBC biologist Dr. Ben Matthews (pictured) is a recipient of a 2021 Sloan Research Fellowship, an award which celebrates top early career researchers. Matthews heads a UBC lab that studies the genetics, genomics and behaviour of mosquitoes, which are considered some of the deadliest animals in the world due to their ability to transmit the pathogens that cause malaria, Zika, dengue and yellow fever.

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Dr. Natalie Strynadka at the Forefront of the Fight against COVID-19 with Two Rapid Response Grants Focusing on Potential Treatments

UBC Life Sciences Institute (LSI)



The theme of the sixth annual International Day of Women in Science was "Women Scientists at the forefront of the fight against COVID-19." In recognition of the day, The UBC LSI honoured the work of Dr. Natalie Strynadka (pictured), Professor of Biochemistry and Molecular Biology, who is both lead and co-lead on two separate grants funded by the federal government to speed discovery of potential therapeutics to combat COVID-19.

[Read More](#)

CRPBC Receives the Clinical Trials BC Service Award for 2020

Centre for Health and Evaluation & Outcome Sciences (CHEOS)



CHEOS Project Manager Judy Needham (pictured) recently accepted an award on behalf of the Clinical Research Professionals of British Columbia (CRPBC): "This award marked CRPBC's 25 years of service to the B.C. research and clinical trials community. In that time, CRPBC has made a significant contribution to the advancement of the clinical trials through activities that address challenges while inspiring and mentoring the next generation of clinical research teams and professionals".

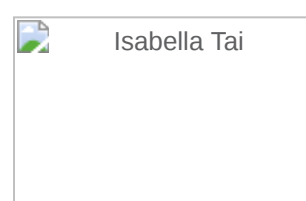
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Local News

New Study Provides Insight into the Molecular Biology of Colorectal Cancer

BC Cancer

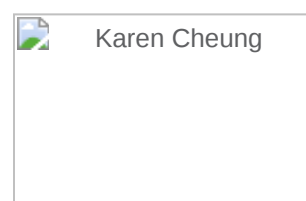


With an average of 73 Canadians being diagnosed with colorectal cancer every day, the disease is the second leading cause of cancer death in men and the third in women. Reducing colorectal cancer fatalities will require better knowledge of the disease and the development of novel treatment and screening strategies — endeavors that are currently being undertaken by Senior Scientist Dr. Isabella Tai (pictured).

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The CBR Celebrates #WomenInScience Day 2021

The Centre for Blood Research (CBR)

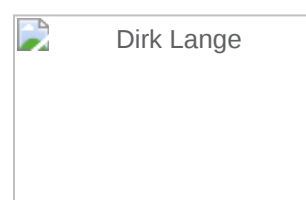


February 11 is recognized by the United Nations as the International Day of Women and Girls in Science. This year, the CBR chatted with several women researchers in the CBR community, including Dr. Karen Cheung (pictured), to learn more about their research, share their stories, and celebrate all that they do.

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In Conversation with Praxis SCI Incubate Cohort Member Purus Innovations

Praxis Spinal Cord Institute (SCI)



Purus Innovations Co-Founder Dr. Dirk Lange (pictured) talks about how the company started and its innovative technology to prevent urinary tract infections: "Everyone else was just targeting the bacteria. We developed a coating that has two unique mechanisms working together, that acts to prevent deposition of components and also kills the bacteria resulting in a clean surface."

[Read More](#)

AbCellera Appoints Ester Falconer as Chief Technology Officer

AbCellera



AbCellera has announced that Dr. Ester Falconer (pictured) has been appointed as Chief Technology Officer (CTO). As CTO, Dr. Falconer will lead AbCellera's long-term strategy in the development, aggregation, and integration of technologies that improve the speed and success of therapeutic antibody discovery from target to investigational new drug application submission.

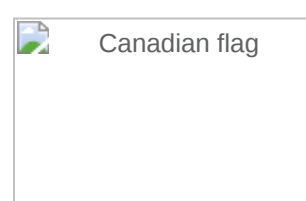
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Interesting Articles

Annual Funding Opportunity for Life Sciences Research via the HFSP Research Grant Program

Government of Canada



The Natural Sciences and Engineering Research Council of Canada is reminding researchers of an important funding opportunity for those interested in ambitious, international projects in the life sciences. Human Frontier Science Program (HFSP) Research Grants support innovative basic research into fundamental biological problems with emphasis placed on novel and interdisciplinary approaches that involve scientific exchanges across national and disciplinary boundaries.

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Upcoming Events in Vancouver

February 22 9:00 am	Language Science Talks: Talking Genetics Online
February 22 2:00 pm	Praxis SCI IDEATION Challenge Launch Online
February 23 10:00 am	Women's Health Research Cluster Seminar: Traumatic Brain Injury Online
February 24-25 8:30 am	Access to Innovation 2021 Online
March 5 4:00 pm	Livewire: A Stimulating Night of Neurotechnology Online

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