

Publications of the Week

Distinct Gene Expression Patterns of Calcium Channels and Related Signaling Pathways Discovered in Lymphomas

First Author: Shawna Stanwood | Senior Author: Wilfred Jefferies (pictured)
Frontiers in Pharmacology | Michael Smith Laboratories, Vancouver Prostate Centre, Centre for Blood Research, BC Cancer Research Institute, Djavad Mowafaghian Centre for Brain Health, and UBC



The expression of voltage-dependent Ca²⁺ (CaV) channels may modulate the growth of hematologic cancers. Profile analysis of Ca²⁺ channels, with a focus on the Ca²⁺ release-activated Ca²⁺ and L-type CaV channels, was performed on RNA sequencing data from lymphoma cell lines and samples derived from patients with diffuse large B cell lymphoma. [Abstract](#)

Correlates of Protection Against Respiratory Syncytial Virus Infection in Infancy

First Author: Bahaa Abu-Raya | Senior Author: Pascal Lavoie (pictured)
Clinical Reviews in Allergy & Immunology | BC Children's Hospital Research Institute and UBC



Correlates of protection are important in guiding the development of maternal respiratory syncytial virus (RSV) vaccines and the design of maternal RSV vaccine trials, as immune response to candidate vaccines should mirror protective RSV immunity at birth. The authors review the literature reporting correlations between RSV immune measures at birth and clinical RSV outcomes during infancy. [Abstract](#)

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Awards

Dr. Zabrina Brumme Recognized with PHC Research and Mission Award

BC Centre for Excellence in HIV/AIDS (BC-CIE)



The BC-CIE's Laboratory Director, Dr. Zabrina Brumme (pictured), is this year's winner of the Providence Health Care (PHC) Research and Mission award. The annual award recognizes a scientist who exemplifies the mission and values of PHC while conducting outstanding research. Recipients are recognized for their "contribution to scientific knowledge at an exceptional level". [Read More](#)

Graeme Koelwyn Receives Canada Research Chair in Public Health 'Omics in Exercise and Disease

SFU Faculty of Health Sciences (FHS)



The SFU FHS has announced Assistant Professor Dr. Graeme Koelwyn (pictured) as its Tier 2 Canada Research Chair (CRC) in Public Health 'Omics in Exercise and Disease. This chair is the fourth CRC held at the FHS. Dr. Koelwyn, who joined the FHS in 2021, is concurrently appointed as a Principal Investigator at the Centre for Heart Lung Innovation at St. Paul's Hospital. [Read More](#)

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Local News

LSI Study Named a Top Paper in 2021 Edition of "Best of Cell Stem Cell"

Life Sciences Institute (LSI)



Among studies of single cells to bioengineered models of development, *Cell Stem Cell* has named a Phase I/II clinical paper by first author Dr. Adam Ramzy (pictured) and senior author Dr. Timothy Kieffer amongst its readers' and editors' top picks from the journal in 2021. In a series of tweets, *Cell Stem Cell* presented Drs. Ramzy and Kieffer's analysis of year one data from a Phase I/II study showing evidence of meal-regulated insulin secretion by differentiated stem cells in patients. [Read More](#)

Whole Genome and Transcriptome Analysis Benefits Clinical Cancer Care

Canada's Michael Smith Genome Sciences Centre



The Personalized OncoGenomics Program (POG), co-led by Drs. Janessa Laskin (pictured) and Marco Marra, is a patient-centric research initiative that uses genomic data to study cancer growth, metastasis, and response to treatment. A publication in *Annals of Oncology* presents clinical data from 570 adult patients with advanced or metastatic cancer enrolled in the program from 2012-2017, the largest report on POG clinical findings to date. [Read More](#)

BC Invests \$25M into New School of Biomedical Engineering Facility

UBC School of Biomedical Engineering (SBME)



To promote innovative health care and medical advancements for the future, the Government of BC has invested \$25 million into the construction of a new building for the SBME. "The industry demands more and more professionals from the world-class education offered at UBC" said Dr. Peter Zandstra (pictured), Director of the SBME. "Thanks to this new funding, more UBC graduates will lead our biomedical economy in setting the stage for innovations that will transform patient health and health care around the world." [Read More](#)

Cracking the Code for the Cure to 'Corn Smut'

Michael Smith Laboratories (MSL)



At the same time a prized delicacy and a virulent pest, the fungus *Ustilago maydis* delights epicureans while frazzling farmers and scientists. Lead researcher Dr. Matthias Kretschmer and fellow researchers from the MSL laboratory of Senior Scientist Dr. James Kronstad (pictured) have uncovered key insights into the life cycle and disease progression of *Ustilago maydis* that could help cure maize of this disease. [Read More](#)

UBC's School of Biomedical Engineering and Amgen Bring the Amgen Golden Ticket to Canada

UBC School of Biomedical Engineering (SBME)



UBC's SBME and Amgen have announced the inaugural 2022 Amgen Golden Ticket at SBME Innovates, providing a launchpad for two promising UBC spin-off ventures, ArrowSmith Genetics and SeraGene. SBME is the first Canadian organization to host the Amgen Golden Ticket program. As the sponsor, Amgen provides mentorship to two teams selected by UBC for the period of one year. [Read More](#)

STEMCELL Technologies and PBS Biotech Partner to Enable Robust Scale Up of Human Pluripotent Stem Cell 3D Cultures

STEMCELL Technologies



STEMCELL Technologies and PBS Biotech have announced their supply partnership to make the PBS-MINI Bioreactor available through STEMCELL Technologies for researchers looking to scale up their human pluripotent stem cell (hPSC) cultures. By enabling the reliable and scalable suspension culture of hPSCs, this partnership will help scientists obtain the quantity and quality of cells needed to advance their research. [Read More](#)

Life Sciences Institute Becomes a UBC Global Research Excellence Institute, Launches Biological Resilience Initiative

UBC Faculty of Medicine



UBC's Life Sciences Institute has become a designated UBC Global Research Excellence Institute and is launching a new Biological Resilience Initiative (BRI) aimed at transforming human and environmental health. The BRI is the first initiative in Canada to study life science questions through the lens of innate resilience. [Read More](#)

New \$30 Million Genomics Initiative Supports Climate-Smart Agriculture and Food System Solutions

Genome BC



Genome Canada has launched a new \$30 million Climate-Smart Agriculture and Food Systems genomics initiative to reduce the carbon footprint and support the economic growth of Canadian agriculture and food systems. "This initiative will help us turn genomics research and innovation into solutions that support and strengthen BC's food producers, supply chains and the broader food system," said Pascal Spothelher (pictured), President and CEO at Genome BC. [Read More](#)

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Upcoming Events in Vancouver

- June 21 12:00 PM **3rd Annual Indigenous Science Speaker Series: Dr. Dustin King** Online
- June 22 12:00 PM **Women's Health Research Cluter Trainee Research Presentation** Online
- June 22 4:00 PM **HI Huddles™: Entrepreneurial Capabilities for Scientists: A Fireside Chat** Online
- June 23 5:00 PM **Life Sciences BC Summer Social** Vancouver Marriott Pinnacle Downtown
- July 8 4:00 PM **D.R.I.N.K.S. Vancouver** Mahoney and Sons

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