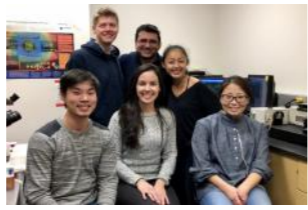


Publications of the Week
Genome-Wide Discovery of Somatic Coding and Non-Coding Mutations in Pediatric Endemic and Sporadic Burkitt Lymphoma

 First Author: Bruno Grande (*left*) | Senior Author: Louis Staudt
 Blood | SFU and Canada's Michael Smith Genome Sciences Centre


The molecular features of Burkitt lymphoma have not been comprehensively evaluated when taking into account tumour Epstein-Barr virus (EBV) status or geographic origin. Through an integrative analysis of whole genome and transcriptome data, the authors show a striking genome-wide increase in aberrant somatic hypermutation in EBV-positive tumours, supporting a link between EBV and AICDA activity. [Profile](#) | [Abstract](#)

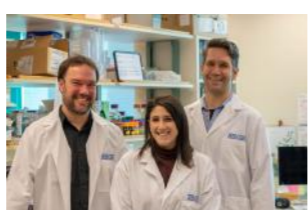
Ionic Stress Enhances ER-PM Connectivity via Phosphoinositide-Associated SYT1 Contact Site Expansion in *Arabidopsis*

 First Author: Eunkyong Lee (*front row, right*) | Senior Author: Abel Rosado (*back row, middle*)
 PNAS | UBC


The interorganelle communication mediated by membrane contact sites is an evolutionary hallmark of eukaryotic cells. In plants, the importance of membrane contact site components in the responses to environmental stress has been widely established, but the molecular mechanisms regulating interorganelle connectivity during stress still remain opaque. [Profile](#) | [Abstract](#)

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Local News
New Tumour Test Could Guide Personalized Treatment for Children with Cancer

UBC Faculty of Medicine



Scientists at UBC and the BC Children's Hospital, including Drs. Philipp Lange (*pictured, left*), Amanda Lorentzian (*middle*) and Chris Maxwell (*right*), are the first in Canada to use a new test for pediatric tumour analysis that may one day guide personalized treatments for children with cancer. Similar tests have been designed for adult cancers, but childhood cancers require a unique approach since different tissues are affected and fewer drugs are safe for treating children. [Read More](#)

"Microscopic" Improvements Yield Big Gains in SFU's Research Capabilities

SFU Faculty of Science



A "super-resolution microscope" was recently purchased by SFU, with help from the NSERC Research Tools and Instruments Grants Program and installed in the Faculty of Science. According to researcher Christopher Beh (*pictured, right*), "The microscope has capabilities beyond our existing equipment. Namely, a combination of high sensitivity, speed, excellent depth of visual penetration, and significantly higher resolving power." [Read More](#)

ICORD Researchers Investigate Cognitive Impairment in People with SCI

International Collaboration on Repair Discoveries (ICORD)



Scientists at ICORD are focusing on cardiovascular problems in spinal cord injury (SCI) patients, in particular their inability to regulate blood pressure. Dr. Andrei Krassioukov (*pictured, right*) and his postdoctoral research fellow Dr. Rahul Sachdeva (*pictured, left*), have found that up to 60 per cent of people with SCI have demonstrate some degree of cognitive impairment. [Read More](#)

Breaking Down the Barriers: Can Lithium Be the Answer for Future Antifungal Therapies?

Michael Smith Laboratories



Cryptococcus neoformans is a major human pathogenic fungus that is responsible for 15% of all AIDS-related deaths worldwide. It is particularly harmful to people with weakened immune systems as it can result in serious lung infections. Dr. Francois Mayer, a postdoctoral fellow under Dr. Jim Kronstad's supervision at the Michael Smith Laboratories, has investigated a promising new approach to target infections with *C. neoformans*. [Read More](#)

New Study Reveals Young, Concussed Hockey Players Still Impaired after Being Cleared to Play

SFU News



Young ice-hockey players who have had concussions continue to exhibit some brain impairment after being cleared to play, according to a new study by researchers from SFU, the Surrey Health and Technology District and the Mayo Clinic. SFU professor Ryan D'Arcy, founder of Surrey's Health and Technology District, led a research and development team that has developed a new set of objective physiological measures for tracking the brain's "vital signs". [Read More](#)

Cembrowski Lab Merges Mathematical Thinking with Basic Neuroscience

Djavad Mowafaghian Centre for Brain Health



A neuroscientist, mathematician, and expert on the hippocampus, Dr. Mark Cembrowski (*pictured*) has a rare combination of skills. Now, at the start of a new year, he begins his career at UBC with a newly established lab located in the Life Sciences Centre. Dr. Cembrowski recently arrived on campus following a postdoctoral fellowship at the Janelia Research Campus at the Howard Hughes Medical Institute. [Read More](#)

Phoenix Molecular Designs Announces Collaboration to Develop Diagnostic for Triple-Negative Breast Cancer

PhoenixMD via LifeSciences BC



Phoenix Molecular Designs has announced that it has entered into a collaboration with Roche to develop a diagnostic (CDx) in triple-negative breast cancer (TNBC). The Roche CDx identifies RSK2 activation in human tumours. Measuring nuclear RSK2 signifies activation and abundance of this emerging drug target. The diagnostic assay developed through this collaboration will relay information on how active the RSK2 pathway is in TNBC and other cancers. [Read More](#)

The Secret Lives of CBR Researchers: Lauren Wilkinson

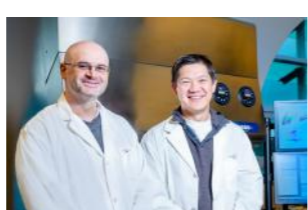
The Centre for Blood Research



The Centre for Blood Research (CBR) spends a great deal of time focusing on how CBR researchers apply their skills to achieve prestigious publications and awards, but often do not recognize the extraordinary things that researchers do outside of the lab. This month, they highlight Lauren Wilkinson (*pictured*), a talented microbiologist with a secret past as an Olympic athlete. [Read More](#)

Restoring Stem Cells to a Fetal-Like State Could Provide a Therapeutic Alternative for Acute Leukemias

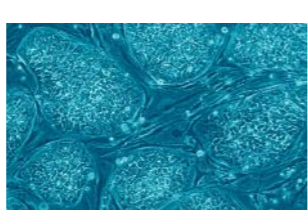
The Terry Fox Research Institute



A TFRI-funded team led by Vancouver clinician-scientist Dr. Andrew Weng (*pictured, right*) has set about using mouse models of T-cell acute lymphoblastic leukemia from two different types of progenitor cells – fetal liver cells and adult bone marrow cells – to determine if leukemia has different biological properties at different stages of life. [Read More](#)

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Will Price Be a Barrier to New Cancer Immunotherapy?

CBC News



A revolutionary new cancer treatment is now available in Canada, but provinces are being advised not to cover it until the price comes down — a price that is being kept secret from Canadians. Health Canada approved Kymriah in September. It's a form of CAR-T immunotherapy, in which a patient's blood cells are removed, reprogrammed to attack cancer and then re-injected back into their body. [Read More](#)

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Upcoming Events in Vancouver

January 30 - 31 8:00 AM	LifeSciences BC Access to Innovation Conference 2019 Vancouver Convention Centre West
January 30 7:00 PM	Brews, Builds 'N' Bytes Night – Simple Machines Storm Crow Alehouse
January 31 4:00 PM	2019 UBC Undergraduate Neuroscience Conference Djavad Mowafaghian Centre for Brain Health
February 6 2:30 PM	Career Connect: AbCellera AbCellera
February 7 7:00 AM	Heart + Lung Health FEST 2019 Pinnacle Hotel Harbourfront

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STEMCELL Jobs in Vancouver

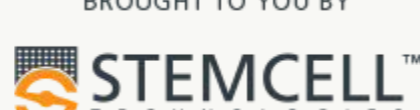
- Scientific Marketing Specialist**
STEMCELL Technologies
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STEMCELL Technologies
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NovoBind Livestock Therapeutics Inc.
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