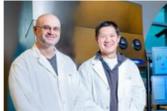


Publications of the Week

Epigenetic Restoration of Fetal-Like IGF1 Signaling Inhibits Leukemia Stem Cell Activity

First Author: Vincenzo Giambra (*left*) | Senior Author: Andrew Weng (*right*)
Cell Stem Cell | Terry Fox Laboratory and Michael Smith Laboratories



Using a mouse model of acute T cell leukemia, the authors found that leukemias generated from fetal liver (FL) and adult bone marrow (BM) differed dramatically in their leukemia stem cell activity with FL leukemias showing markedly reduced serial transplantability as compared to BM leukemias. They present evidence that this difference was due to NOTCH1-driven autocrine IGF1 signaling, which is active in FL cells but restrained in BM cells by EZH2-dependent H3K27 trimethylation. [Profile](#) | [Abstract](#)

Effects of Aging on Executive Functioning and Mesocorticolimbic Dopamine Markers in Male Fischer 344 × Brown Norway Rats

First Author: Ryan Tomm | Senior Author: Stan Floresco (*pictured*)
Neurobiology of Aging | Djavad Mowafaghian Centre for Brain Health



Aging is associated with changes in executive functioning and the mesocorticolimbic dopamine system. However, the effects of aging on different forms of behavioural flexibility are not fully characterized. In young and aged male rats, the authors assessed spatial working memory and different forms of behavioural flexibility using operant tasks. They also assessed dopaminergic markers using immunohistochemistry. [Profile](#) | [Abstract](#)

Genome-Wide Discovery of Somatic Regulatory Variants in Diffuse Large B-Cell Lymphoma

First Author: Sarah Arthur (*second from right*) | Senior Author: Ryan Morin (*third from left*)
Nature Communications | SFU, BC Cancer Research Centre, and Canada's Michael Smith Genome Sciences Centre



Through an integrative analysis of whole genomes, exomes, and transcriptomes, the authors uncovered genes and non-coding loci that are commonly mutated in diffuse large B-cell lymphoma. Their analysis identified novel cis-regulatory sites, and implicates recurrent mutations in the 3' UTR of *NFKBIZ* as a novel mechanism of oncogene deregulation and NF-κB pathway activation in the activated B-cell subgroup. [Profile](#) | [Abstract](#)

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Awards

Connie Eaves Inducted into the 2019 Canadian Medical Hall of Fame

UBC



Connie J. Eaves (*pictured*), Professor of Medical Genetics and Distinguished Scientist at the BC Cancer Agency, is among six individuals to be inducted into the 2019 Canadian Medical Hall of Fame. The recognition honours individuals whose contributions to medicine and the health sciences have led to extraordinary improvements in human health. [Read More](#)

Innovate BC Awards Nearly \$1M to Accelerate Commercialization of Innovative Research Projects

Innovate BC



Innovate BC, a Crown agency that connects local innovators with government funding, resources, and support, has awarded \$944,600 through its Ignite program to spark the commercialization of technologies that will solve industry problems in the natural resources and applied sciences. Four BC research projects in diverse fields such as clean technology, forestry, and agriculture will split the funding. [Read More](#)

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Local News

The Blueberries and the Bees

Michael Smith Laboratories



Blueberries are Canada's biggest fruit export, generating about \$400 million in revenue annually. Most of those berries are grown in BC and rely on honey bee pollination for reliable fruit set. But over the last few years, beekeepers have voiced growing concerns over the health of their blueberry-pollinating colonies; in particular, an unusually high incidence of European foulbrood (EFB) disease and a yet-unidentified "snotbrood disease," which looks similar to EFB but comes back as negative in diagnostic lab tests. [Read More](#)

Digging Deeper into the Responsible Application of Genomics Research

Genome BC



Genome BC has announced the recipients of project funding through its Societal Issues Competition. Genome BC created the Societal Issues Competition as a way to identify and study the societal issues that emerge from genomics-based innovations. The projects will examine societal issues related to agrifood and natural resources. [Read More](#)

New Clinician-Scientist, Dr. Florian Kuchenbauer, on Board with TFL!

Florian Kuchenbauer



Welcome Dr. Florian Kuchenbauer (*pictured*), a newly appointed Clinician-Scientist, to the Terry Fox Laboratory and the Leukemia/Bone Marrow Transplant Program of BC. His research focuses on non-coding RNAs, especially microRNAs in acute myeloid leukemia and normal hematopoiesis, and he has made significant contributions to the field over the past decade. [Read More](#)

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 **Upcoming Events in Vancouver**

- October 22 3:30 PM **2018 International Gairdner Symposium**
Life Sciences Institute
- October 22 6:00 PM **BrainTalks: Epigenetics and Early Life Experiences**
Paetzold Auditorium
- October 25 8:00 AM **LifeSciences BC Investor Summit**
Fairmont Pacific Rim
- October 25 - 26 7:00 PM **Science World After Dark: MurderCon**
Telus World of Science
- October 26 7:00 PM **SFU Café Scientifique**
Boston Pizza, New Westminster

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[STEMCELL Technologies](#)
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[STEMCELL Technologies](#)
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 **Other Science Jobs in Vancouver**

- Sr. Manager, Quality Control (Analytical Chemistry)**
Genevant Sciences
- Radiopharmaceutical Chemistry Technician**
BC Cancer
- Scientific Market Researcher Co-op/Intern**
Precision NanoSystems Inc.
- Fabrication Technician**
Aspect Biosystems
- Research Scientist, Electrophysiology**
Xenon Pharmaceuticals

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