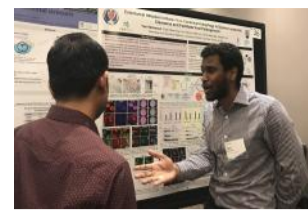


Publications of the Week

**Coxsackievirus Infection Induces a Non-Canonical Autophagy Independent of the ULK and PI3K Complexes**

First Author: Yasir Mohamad (pictured, right) | Senior Author: Honglin Luo  
Scientific Reports | UBC and the Centre for Heart Lung Innovation at St. Paul's Hospital



The authors investigated the role of established autophagy factors in the initiation of coxsackievirus B3 (CVB3)-induced autophagy. Using siRNA-mediated gene silencing and CRISPR-Cas9-based gene editing in culture cells, they discovered that CVB3 bypasses the ULK1/2 and PI3K complexes to trigger autophagy. [Profile](#) | [Abstract](#)

**Integrated Expression of Circulating miR375 and miR371 to Identify Teratoma and Active Germ Cell Malignancy Components in Malignant Germ Cell Tumours**

First Author: Lucia Nappi (pictured) | Senior Author: Christian Kollmannsberger  
European Urology | BC Cancer, UBC and the Vancouver Prostate Centre



Active germ cell malignancies express high levels of specific circulating micro-RNAs (miRNAs), including miR-371a-3p (miR371), which is undetectable in teratoma. To assess the accuracy of plasma miR375 alone or in combination with miR371 in detecting teratoma, 100 germ cell tumour patients, divided into two cohorts, were enrolled in a prospective multi-institutional study. [Abstract](#)

**Regenerative Intestinal Stem Cells Induced by Acute and Chronic Injury: The Saving Grace of the Epithelium?**

First Author: William Rees (pictured) | Senior Author: Theodore Steiner  
Frontiers in Cell and Developmental Biology | BC Children's Hospital Research Institute and UBC



This review covers the latest research on damage-associated regenerative intestinal stem cells (ISCs) and epigenetic factors that determine ISC fate, as well as provides opinions on future studies that need to be undertaken to understand the repercussions of the emergence of these cells, their contribution to relapses in inflammatory bowel disease, and their potential use in therapeutics for chronic intestinal diseases. [Abstract](#)

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Awards

**SFU Advances COVID-19 Research with \$1M from Canada Foundation for Innovation**

SFU News



SFU researchers are continuing to advance COVID-19 related research — from diagnostics to treatment — with more than \$1 million from the Canada Foundation for Innovation through its Exceptional Opportunities Fund. Among them is Dr. Robert Young (pictured), who will receive \$200,000 to purchase critical equipment to rapidly measure binding of potential inhibitors to key protein targets produced by the SARS-CoV-2 virus. [Read More](#)

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Local News

**Genomic Tools Will Help Support Grizzly Bear Management**

Genome BC



Genome BC has funded a unique project to develop a new set of genetic markers for the monitoring of grizzly bears on the central coast of B.C. Due to the importance of grizzly bears in B.C. and Canada, many populations are intensively monitored by First Nation and provincial governments to ensure effective and evidence-based management to safeguard a healthy population for the future. [Read More](#)

**New Analysis Challenges Long-Held Assumptions about Paternal DNA Methylation in the First Stages of Life**

UBC Life Sciences Institute (LSI)



LSI researchers are challenging the conventional wisdom on methylation of sperm DNA following fertilization of eggs. For years, sperm DNA has been thought to be mostly stripped of methylation (5-methylcytosine) in the aftermath of conception. But recent findings from Dr. Julien Richard Albert (pictured) in the Lorincz lab has shown that in the first stages of life, some regions on incoming paternal chromosomes actually show a robust increase in DNA methylation. [Read More](#)

**PhD Graduate's Research Helps Answer Why There Are So Many CBD Health Claims**

SFU News



Since the legalization of cannabis in Canada last year, cannabidiol (CBD), an active component of cannabis, continues to make health news. Dr. Reza Ghovanloo (pictured), a recent SFU PhD graduate in biomedical physiology and kinesiology, says his research helps to understand why there are so many health claims related to CBD. [Read More](#)

**Peptide-Based Drugs: A SPOT More Stable**

Centre for Blood Research (CBR)



The development of peptide-based drugs has been complicated by the fact that the peptides are easily digested by protein-cutting proteases in the body, making it challenging to maintain an effective dose of the drug. Recent work from Dr. Evan Haney (pictured) in the lab of CBR member Dr. Bob Hancock investigated how incorporating non-natural amino acid building blocks into a known innate defense regulator peptide might help overcome this issue. [Read More](#)

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**Upcoming Events in Vancouver**

November 24 1:00 PM	<b>2020 Mitacs Awards</b> Online
November 25 10:00 AM	<b>Cytiva: Accelerating Your Therapeutic Process to Meet Your Milestones and Bring Your Vision to Life</b> Online
November 26 9:00 AM	<b>Hot Topics in Research: The Genetic Basis of Obesity and Thinness</b> Online
November 27 4:00 PM	<b>Picture a Scientist Film Screening + Panel Discussion</b> Online
December 6 1:30 PM	<b>Vancouver STEMminist Book Club Reads "Radium Girls" by Kate Moore</b> Online

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**STEMCELL Jobs in Vancouver**

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STEMCELL Technologies

**Research Technologist, Cell Separation**  
STEMCELL Technologies

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STEMCELL Technologies

**Sales Development Representative**  
STEMCELL Technologies

**Quality Control Specialist, Raw Materials**  
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Precision NanoSystems

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UBC Faculty of Pharmaceutical Sciences

**Research Scientist**  
Applied Biological Materials Inc.

**Postdoctoral Research Fellow, Microbiologist**  
UBC Department of Chemical and Biological Engineering

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AdMare BioInnovations

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