

Publications of the Week

Female-Biased Upregulation of Insulin Pathway Activity Mediates the Sex Difference in *Drosophila* Body Size Plasticity

First Author: Jason Millington (*pictured, left*) | Senior Author: Elizabeth Rideout (*right*)
eLife | UBC



Previous work in *Drosophila* showed that body size plasticity was higher in females, yet the mechanisms underlying increased female body size plasticity remain unclear. The authors have discovered that a protein-rich diet augments body size in females and not males because of a female-biased increase in activity of the conserved insulin/insulin-like growth factor signalling pathway. [Abstract](#)

Biogeography of the Relationship between the Child Gut Microbiome and Innate Immune System

First Author: Nelly Amenogbe (*pictured*) | Senior Author: William Mohn
mBio | UBC



The authors applied 16S amplicon sequencing to profile the stool microbiome and, in parallel, measured whole-blood innate immune cytokine responses to several pattern recognition receptor agonists among two-year-old children across biogeographically diverse settings. Microbiomes differed mainly between high- and low-resource environments and were not strongly associated with other demographic factors. [Abstract](#)

Nanoscale Flow Cytometry for Immunophenotyping and Quantitating Extracellular Vesicles in Blood Plasma

First Author: Nikki Salmond | Senior Author: Karla Williams (*pictured*)
Nanoscale | UBC



Extracellular vesicles (EVs) are desirable candidates for blood-based biopsy diagnosis of cancer. EVs can be time consuming to isolate, therefore a technology that can analyze EVs in complex biological samples in a high throughput manner is in demand. Here, nanoscale flow cytometry was used to analyze EVs in whole, unpurified, plasma samples from healthy individuals and breast cancer patients. [Abstract](#)

[View All Publications](#)

Awards

Faculty of Health Sciences Adjunct Professor, John Challis, Named to the Order of Canada

SFU Faculty of Health Sciences



Dr. John Challis (*pictured*), Adjunct Professor in the Faculty of Health Sciences at SFU, was named to the Order of Canada for his foundational contributions to health sciences research. During his storied career he has illuminated the role of fetal development in onset of disease, advocated for enhanced collaboration and funding in health sciences research, championed the rapid mobilization of innovative research to clinicians and patients, and mentored generations of researchers and contributors. [Read More](#)

[View All Featured Awards](#) | [View Monthly Award Summaries](#)

Local News

Vancouver Nanomedicine Firm Using New Technology to Develop COVID-19 Vaccine

Vancouver Sun



A Vancouver nanomedicine company is part of a team using new genetic technology to develop a COVID-19 vaccine. Precision NanoSystems Incorporated (PNI) is working on a vaccine in the same class as the ones made by Pfizer-BioNTech and Moderna, the only two COVID-19 vaccines approved by Health Canada. PNI's vaccine, which the company is developing with other collaborators, is still at an early, pre-clinical stage. [Read More](#)

Genomic Tools Offer Insight for a Stronger Economic Future in a Changing Climate

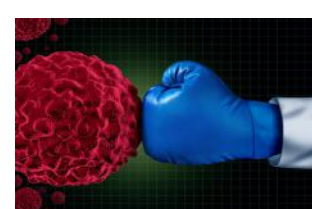
Genome BC



Genome BC is investing in a proactive research project to maintain and improve physiological adaptation of the ponderosa pine (Py). Using novel genomic methods, scientists will identify genes and gene variants that increase survival and enhance growth in a drier and warmer climate. These genomic tools will help jumpstart a breeding program for Py, which is an important part of BC's climate change adaptation strategy. [Read More](#)

Abdera to Accelerate the Development of Targeted Radiotherapies to Fight Hard-to-Treat Cancer

AbCellera



adMare BioInnovations, Canada's global life sciences venture, has announced the launch of Abdera Therapeutics Inc. with founding partner, AbCellera. Abdera is a precision oncology company developing novel next-generation targeted alpha therapies (TATs) for patients with relapsed, refractory and metastatic cancers. Abdera will leverage AbCellera's antibody discovery platform to develop antibody-based TATs against nine clinically-validated oncology targets. [Read More](#)

[View All Local News](#) | [Submit an Article](#)

Interesting Articles

MSFHR's 2021 Suite of Funding Opportunities Will Enable Innovative Health Research across BC

Michael Smith Foundation for Health Research (MSFHR)



The COVID-19 pandemic has further reinforced the importance of funding research to improve health and strengthen health care, support British Columbians through the pandemic, and contribute to economic recovery. As BC's health research funding agency, MSFHR's 2021 funding competition lineup provides opportunities for BC health researchers across all regions of the province. [Read More](#)

[View All Interesting Articles](#) | [Submit an Article](#)

Upcoming Events in Vancouver

January 27 12:00 PM	Brown Bag Series: Mapping Your Career Journey Online
January 27 12:00 PM	Biomedical Imaging and AI Cluster Research Exchange Online
January 28 3:00 PM	Shaping our Health: Microbiome in Immunity and Inflammation Online
February 3 12:00 PM	Women and Diversity in STEM: A Personal Journey Online
February 9 10:00 AM	Bio+tech Connec+ with Gilead Sciences Canada Inc. Online

[View All Events](#) | [Submit an Event](#)

STEMCELL Jobs in Vancouver

- Sales Development Representative**
STEMCELL Technologies
- Senior Quality Assurance Specialist**
STEMCELL Technologies
- Senior Quality Control Analyst, CELLCore**
STEMCELL Technologies
- Scientific Marketing Manager, Asia**
STEMCELL Technologies
- Product Manager, Immunology**
STEMCELL Technologies

[View 40 Other STEMCELL Jobs](#)

Other Science Jobs in Vancouver

- Scientist, Preclinical/Immunology**
Acuitas Therapeutics
- Research Scientist, Sequencing & Molecular Biology**
AbCellera
- Assistant Professor, Tenure Track in Clinical Pharmacology & Therapeutics Research**
UBC Department of Anesthesiology, Pharmacology and Therapeutics
- Vice President, Quality Assurance**
Chinook Therapeutics
- Postdoctoral Research Fellow, Vaccine Evaluation Centre**
UBC Vaccine Evaluation Centre

[View 43 Other Science Jobs](#) | [Submit a Job](#)

LiveChat Support
Scientific Support Within Reach

Submit your articles and events by reaching out to us at info@scienceinvanancouver.com.

BROUGHT TO YOU BY



- STEMCELL Technologies**
Products | Services
- STEMCELL Science News**
Free Weekly Updates on Your Field
- The Stem Cell Podcast**
Interviews and Updates on Stem Cell Science