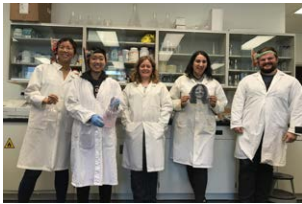


Publications of the Week

The Yeast Ty1 Retrotransposon Requires Components of the Nuclear Pore Complex for Transcription and Genomic Integration

First Author: Savrina Manhas (*second from right*) | Senior Author: Vivien Measday (*middle*)
Nucleic Acids Research | The Wine Research Centre and UBC



Nuclear pore complex proteins, or nucleoporins, are required for human immunodeficiency virus type 1 gene expression and genomic integration of viral DNA. The authors utilized the Ty1 retrotransposon of *Saccharomyces cerevisiae* to study retroviral integration, because retrotransposons are the progenitors of retroviruses and have conserved integrase enzymes. [Profile](#) | [Abstract](#)

NHR-49/HNF4 Integrates Regulation of Fatty Acid Metabolism With a Protective Transcriptional Response to Oxidative Stress and Fasting

First Author: Grace Goh | Senior Author: Stefan Taubert (*back row*)
Aging Cell | The Centre for Molecular Medicine and Therapeutics, BC Children's Hospital Research Institute and UBC



Endogenous and exogenous stresses elicit transcriptional responses that limit damage and promote cell/organismal survival. *Caenorhabditis elegans* NHR-49 is a well-established regulator of lipid metabolism. The authors revealed that NHR-49 is essential to activate a transcriptional response common to organic peroxide and fasting, which includes the pro-longevity gene flavin-containing monooxygenase.

[Profile](#) | [Abstract](#)

ddPCRclust – an R Package and Shiny App for Automated Analysis of Multiplexed ddPCR Data

First Author: Benedikt Brink | Senior Author: Ryan Brinkman (*pictured*)
Bioinformatics | The Terry Fox Laboratory, the BC Cancer Agency, and UBC



Droplet digital PCR (ddPCR) is an emerging technology for quantifying DNA. ddPCRclust is an R package for automated analysis of data from Bio-Rad's droplet digital PCR systems. It can automatically analyse and visualise multiplexed ddPCR experiments with up to four targets per reaction. Results are on par with manual analysis, but only take minutes to compute instead of hours. [Abstract](#)

CHÉOS Scientists Successful in CIHR Funding Competitions

Centre for Health Evaluation and Outcome Sciences



Centre for Health Evaluation and Outcome Sciences (CHÉOS) scientists were successful in several CIHR funding competitions, announced in March. Grant recipients include Drs. Eugenia Oviedo-Joekes (*left*), Michael Krausz (*right*), Skye Barbic, Steve Mathias, Jagbir Gill, Adeera Levin, Eric Grafstein, Martin Schechter, and Christian Schutz. [Read More](#)

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Could Revolutionary Research at CDRD Replace Chemotherapy?

Biotechnology Focus



The Centre for Drug Research and Development (CDRD) has been working on ways to potentiate the utility of oncolytic viruses for cancer therapy in the hope that one day these strategies may be able to eliminate, or at the very least significantly reduce, the need for traditional cytotoxic chemotherapy. Reducing the use of toxic treatments that impair the patient's immune system is expected to lead to better overall survival and quality of life for countless cancer patients. [Read More](#)

A Daily Dose of Ibuprofen Can Help Prevent Onset of Alzheimer's, Study Finds

Global News



A new Vancouver-based study says taking ibuprofen every day can help prevent the onset of Alzheimer's disease. Since 2016, president and CEO of Vancouver-based Aurin Biotech, Dr. Patrick McGeer and his team have been following 500 people who have a predisposition to the disease as they regularly took ibuprofen as a preventative measure. [Read More](#)

New Antiretroviral Compound Derived from Sea Sponges

SFU University Communications



SFU researchers have identified a chemical compound derived from sea sponges that inhibits HIV at low concentrations and has a mechanism of action that is distinct from licensed antiretroviral drugs. Drs. Ian Tietjen, Zabrina Brumme, and Mark Brockman identified six marine microorganisms with antiretroviral capability and one with significant efficacy at the same low concentrations as many antiretroviral drugs. [Read More](#)

MS Society & CDRD Support Two New Translational Projects on

Progressive MS

Centre for Drug Research and Development



The Centre for Drug Research and Development (CDRD) features two translational research projects that CDRD is working on in collaboration with Drs. David Granville (*pictured*) and Rebecca Spain, and with funding from The Multiple Sclerosis (MS) Society of Canada – the ultimate goal being the development of disease-modifying therapies for people living with progressive MS. [Read More](#)

New Pheromone Insight May Help Predict Mountain Pine Beetle Outbreaks

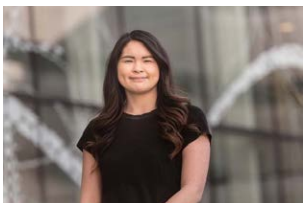
UBC News



Researchers at the University of British Columbia have shed new light on how mountain pine beetles produce an important pheromone called trans-verbenol, which could aid in efforts to better predict outbreaks. In recent years, mountain pine beetles have destroyed more than 25 million hectares of pine forests in western North America. [Read More](#)

Heather Yong: Plotting a Path from Bench to Bedside

Djavad Mowafaghian Centre for Brain Health



Heather Yong (*pictured*) is a directed studies student in the Faculty of Medicine at UBC. She has been volunteering with the UBC Multiple Sclerosis (MS) and Neuromyelitis Optica Clinic and Research Group at the Djavad Mowafaghian Centre for Brain Health since 2013. In her final year of her undergraduate studies, Yong is already volunteering in the MS clinic, conducting epidemiological research with Dr. Helen Tremlett. [Read More](#)

Understanding Ethical Issues Using Whole Genome Sequencing for Tuberculosis Surveillance and Outbreak Investigations

Genome BC



Public health surveillance programs and outbreak investigations have been dramatically enhanced through the use of whole genome sequencing (WGS). This is evidenced through the application of WGS in the understanding of tuberculosis transmission pathways, providing critical information to aid in controlling outbreaks and better identifying, testing, and treating those at risk in BC as well as globally.

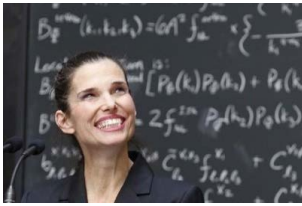
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Interesting Articles

Canada 150 Program Results in 'Brain Gain' for Universities: Duncan

CTV News



Last June, Science Minister Kirsty Duncan (*pictured*) hung out the "we're hiring" sign and dangled grants of up to \$1 million to try and lure some of the best and brightest international researchers to come to work in Canada. Nine months later, 24 scientists have been given the nod, ten of whom are Canadians coming home from all over the world. [Read More](#)

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Upcoming Events in Vancouver

- | | |
|--------------------------|---|
| April 4
4:30 PM | Mitacs Internship Info Session – Finding Non-Academic Collaborations to Advance Your Career
Irving K Barber Learning Centre |
| April 12 - 15
8:30 AM | SWCC On the Edge Conference
SFU Harbour Centre |
| April 12
7:00 PM | SciComm Social with SWCC and STAN
Telus World of Science |
| April 14
9:00 AM | 36th Annual Greater Vancouver Regional Science Fair
AMS Student Nest |
| April 19
5:00 PM | 20th Annual LifeSciences BC Awards
Fairmont Hotel Vancouver |

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Science Jobs in Vancouver

- Product and Scientific Support Specialist, Stem Cell Biology**
STEMCELL Technologies
- Scientist, Nanomaterials Analytical Chemistry**
STEMCELL Technologies
- Postdoctoral Fellow**
UBC Pharmacoepidemiology in MS Research
- Analytical Scientist**
Precision NanoSystems
- Communications Specialist**
The Terry Fox Research Institute

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