

Publications of the Week

C-Terminal Truncation of IFN- γ Inhibits Proinflammatory Macrophage Responses and Is Deficient in Autoimmune Disease

First Author: Antoine Dufour | Senior Author: Christopher Overall (*third from left*)
Nature Communications | The Centre for Blood Research and UBC



Controlled macrophage differentiation and activation in the initiation and resolution of inflammation is crucial for averting progression to chronic inflammatory and autoimmune diseases. The authors show a negative feedback mechanism for proinflammatory IFN- γ activation of macrophages driven by macrophage-associated matrix metalloproteinase 12. [Profile](#) | [Abstract](#)

miR-143/145 Differentially Regulate Hematopoietic Stem and Progenitor Activity through Suppression of Canonical TGF β Signaling

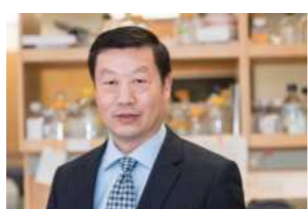
First Author: Jeffrey Lam | Senior Author: Aly Karsan (*back left*)
Nature Communications | Michael Smith Genome Sciences Centre, BC Cancer Research Centre, and UBC



Expression of miR-143 and miR-145 is reduced in hematopoietic stem/progenitor cells (HSPCs) of myelodysplastic syndrome patients with a deletion in the long arm of chromosome 5. The authors showed that mice lacking miR-143/145 have impaired HSPC activity with depletion of functional hematopoietic stem cells, but activation of progenitor cells. [Profile](#) | [Abstract](#)

A Presenilin-1 Mutation Causes Alzheimer's Disease without Affecting Notch Signaling

First Author: Shuting Zhang | Senior Author: Weihong Song (*pictured*)
Molecular Psychiatry | Townsend Family Laboratories and UBC



Presenilin-1 (PSEN1) is the catalytic subunit of the γ -secretase complex, and pathogenic mutations in the PSEN1 gene account for the majority of cases of familial Alzheimer's disease (AD). The authors found that a PSEN1 mutation (S169del) altered amyloid precursor protein processing and A β generation, and promoted neuritic plaque formation as well as learning and memory deficits in AD model mice. [Abstract](#)

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Spotlight

Cody Lo Talks Research, Medicine, and Science Communications



Cody Lo (*pictured*) is a first year medical student at UBC working as a research assistant in the laboratory of Dr. Bruce Carleton at the BC Children's Hospital Research Institute. Cody has worked in almost a dozen different academic laboratories since he started as an undergraduate at UBC. We sat down with Cody to discuss how his medical and research interests intersect, and where these interests will take him in the future. [Read More](#)

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Awards

June 2018 Award Winners



Dr. Faranak Farzan (*pictured*), Assistant Professor in the School of Mechatronic Systems Engineering at Simon Fraser University, was one of 17 exceptional BC-based health researchers to be awarded a Michael Smith Foundation for Health Research Scholar Award. Find out which other Vancouver researchers won grants, awards, fellowships, or scholarships in our June Award Summary! [Read More](#)

Awards Support Innovative Research

Vancouver Coastal Health Research Institute



Vancouver Coastal Health Research Institute is proud to contribute to groundbreaking research with their annual Innovation and Translational Research Awards. This year's eight recipients, including Dr. Honglin Luo (*left*) and Dr. William Jia (*right*) are putting new knowledge into practice, implementing research outcomes and turning discoveries into commercial opportunities. [Read More](#)

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Local News

This Partnership between BC Cancer and Microsoft Could Change the Future of Cancer Diagnosis and Treatment

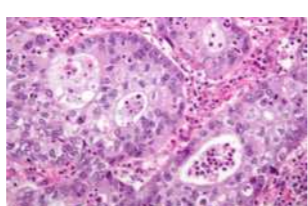
Daily Hive Vancouver



Microsoft Canada has announced a partnership with BC Cancer, and it could change the future of cancer diagnosis as well as treatment. It's also going to answer cancer's most complex questions at a rate never imagined possible. Innovative computing will help accelerate the pace of research to solve complex problems, creating enormous economic opportunities and – more importantly – save lives. [Read More](#)

HPV Test More Effective Than Pap Smear in Cancer Screening, Study Suggests

CNN



Cervical cancer is among the easiest gynecologic cancers to prevent, and two screening tests can help detect the disease early: the routine Pap smear and testing for human papillomavirus, or HPV. A new study suggests that cervical HPV testing may be able to detect signs of cancer earlier and more effectively than a Pap smear over a 48-month period. [Read More](#)

SFU Graduate Students Join International Network of African Scientists Pursuing Innovative HIV and Tuberculosis Research

SFU Faculty of Health Sciences



Five SFU graduate students, who are citizens of Kenya, Botswana and Rwanda, were recently admitted as research fellows into the Sub-Saharan African Network for TB/HIV Research Excellence (SANTHE) consortium. SANTHE connects students with a multinational network that empowers African scientists conducting innovative research on HIV and TB while also providing the opportunity to access a multitude of competitive resources. [Read More](#)

New Research Aims to Better Visualize Breast Cancer in Real Time

BC Cancer



Given that the degree of tumour shrinkage during chemotherapy can predict outcomes and sometimes potentially influence treatment plans, is there a better way to measure the tumour's response to chemotherapy before surgery? Armed with a new Health Professional-Investigator Award from the Michael Smith Foundation for Health Research, this is the question that a research team led Dr. Jenny Ko (*middle*) is aiming to find out. [Read More](#)

MSFHR Funding Offers Opportunity to Expand Scope of MRI Potential

Djavad Mowafaghian Centre for Brain Health



Dr. Shannon Kolind (*pictured*) has established a collaborative neurological research program at UBC linking the development and application of myelin- and axon-sensitive magnetic resonance imaging (MRI) techniques with clinical trials and, ultimately, more individualized patient care. Dr. Kolind recently received a Michael Smith Foundation for Health Research (MSFHR) award, funding her work in developing and applying unconventional neuroimaging methods for quantitative assessment of brain tissue health. [Read More](#)

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 **Upcoming Events in Vancouver**

- July 12 6:30 PM **SCWIST Pub Night**
Big Rock Urban Brewery & Eatery
- July 19 5:00 PM **Beaty Nocturnal**
Beaty Biodiversity Museum
- July 20 4:00 PM **D.R.I.N.K.S. (Discussions Relevant to Inspiring New Knowledge and Science)**
Mahony and Sons, Stamps Landing
- August 5 1:00 PM **Albatross Are Way Cool because . . .**
Beaty Biodiversity Museum
- August 16 12:00 PM **Centre for Blood Research Research Day 2018**
Life Sciences Institute

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 **STEMCELL Jobs in Vancouver**

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[STEMCELL Technologies](#)
- Research Associate, Particle Chemistry**
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- Program Manager, Partner Relationships**
[STEMCELL Technologies](#)
- Program Manager, Primary & Cultured Cells**
[STEMCELL Technologies](#)
- Quality Control Analyst, Microbiology**
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 **Other Science Jobs in Vancouver**

- Post-Doctoral Fellow, Platform Microbial Cell Factories**
Renaissance BioScience
- Research Scientist, Molecular Biology Group**
Renaissance BioScience
- Associate Scientist, Analytical & Pre-formulation**
The Centre for Drug Research and Development
- Electrophysiologist/Research Scientist**
Aurora Biomed
- Project Manager**
BC Centre For Excellence In HIV/AIDS

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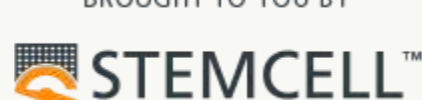
THINKING OF ADDING HEPATIC ORGANOID TO YOUR RESEARCH?

Webinar with Dr. Charis Segeritz-Walko, Senior Scientist, Liver Cell Biology



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