

Publications of the Week

**Comprehensive Genomic Profiling of Glioblastoma Tumours, BTICs, and Xenografts Reveals Stability and Adaptation to Growth Environments**

First Author: Yaoqing Shen | Senior Author: Steven Jones (pictured)  
PNAS | Canada's Michael Smith Genome Sciences Centre, UBC and the Center for Molecular Medicine and Therapeutics



The authors used massively parallel sequencing technology to decode the genomes and transcriptomes of brain tumour-initiating cells (BTICs) and xenografts and their matched tumours in order to delineate the potential impacts of distinct growth environments. They showed that BTICs and xenografts resembled their parental tumour at the genomic level, but differed at the mRNA expression and epigenomic levels. [Profile](#) | [Abstract](#)

**Targeting Myeloid-Derived Suppressor Cells in Combination with Primary Mammary Tumour Resection Reduces Metastatic Growth in the Lungs**

First Author: Momir Bosiljic (pictured) | Senior Author: Kevin Bennewith  
Breast Cancer Research | BC Cancer and UBC



The authors used mass cytometry time of flight and flow cytometry to quantify myeloid-derived suppressor cells (MDSCs) in the spleen, peripheral blood, and lungs of mice bearing orthotopic murine mammary tumours. They found that treating mice with gemcitabine after primary tumour resection decreased residual granulocyte-MDSCs in the lungs and decreased subsequent metastatic growth. [Abstract](#)

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Awards

**\$2 Million Invested in New Prostate Cancer Research**

Prostate Cancer Canada



Drs. Martin Gleave (pictured), Michael Cox, and Larry Goldenberg from UBC are among ten Canadian prostate cancer research leaders who are receiving nearly \$2 million to accelerate discoveries to save and improve men's lives. Prostate Cancer Canada and Movember have awarded the funds through the Discovery Grant program to support new and innovative research. [Read More](#)

**SFU Faculty of Health Sciences Dean Named to Royal Society of Canada**

SFU Faculty of Health Sciences



Tania Bubela (pictured), a Professor and Dean in SFU's Faculty of Health Sciences, is one of seven SFU faculty members elected as a Fellow of the Royal Society of Canada (RSC) for 2019. Attaining fellowship in the RSC is Canada's highest academic honour. As an internationally recognized expert in intellectual property and health law, she works to understand the legal, social and ethical challenges of bringing new health biotechnologies to the clinic. [Read More](#)

**2019 UBC Faculty of Medicine Award Recipients**

UBC Medicine



Each year, the UBC Faculty of Medicine recognizes faculty and staff members for excellence in teaching, research, administration, innovation and public service. Among the recipients is Dr. Peter Stirling (pictured), who has received a Distinguished Achievement award recognizing his overall excellence and meritorious performance as an early career scientist. [Read More](#)

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Local News

**One-Time UBC Researcher Headed to International Space Station**

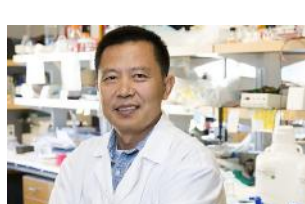
The Province



Dr. Jessica Meir (pictured) has always been interested in how Earth creatures respond to extreme environments, so it makes sense that she is heading to outer space, the most extreme environment of all. The one-time UBC post-doctoral researcher will blast off aboard a Russian Soyuz MS-15 spacecraft for a six-month stay on the International Space Station to conduct experiments in human physiology, and to fulfil a childhood dream. [Read More](#)

**New Clarity for Role of Protein-Protein Interaction in Synaptic Plasticity**

Djavad Mowafaghian Centre for Brain Health



New research from Dr. Yu Tian Wang's (pictured) lab has revealed a novel role for a protein involved in AMPA receptor trafficking, but that also is important for synaptic plasticity. The protein, p97, requires balance to facilitate synaptic transmission; out of balance it blocks long-term potentiation, a function that strengthens synaptic transmission and neuronal communication. [Read More](#)

**The Right Drug, at the Right Dose, to the Right Patient, at the Right Time**

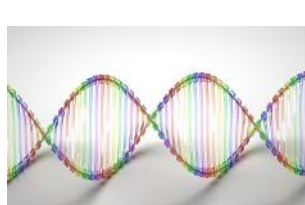
Genome BC



Adverse drug reactions (ADRs) are a major problem in modern medicine. This is particularly true for cancer treatment, with its potent medications. Building upon the success of his ongoing pharmacogenomics research, Dr. Bruce Carelton, a clinical pharmacologist at UBC, is working to prevent ADRs by developing lab tests to predict the likelihood of a childhood cancer patient developing an ADR. [Read More](#)

**A Genetic Explanation for Lymphoma Patients that Cannot Be Cured by Standard Treatment**

Canada's Michael Smith Genome Sciences Centre



The most common form of non-Hodgkin lymphoma, known as diffuse large B-cell lymphoma, is considered a curable disease with the exception of a subset of patients for whom the standard treatment is not effective. But scientists at Canada's Michael Smith Genome Sciences Centre have uncovered a genetic explanation for why some patients have poor prognosis. [Read More](#)

**Tracking Environmental DNA to Monitor Fish Health to Alleviate Mining Activity Impacts**

Genome BC



Dr. Vicki Marlatt at SFU is applying environmental DNA methods to more efficiently and economically monitor local fish populations at a future mine site. She is also working to develop other methods using protein analyses to enhance current fish health monitoring regimes with the goal of obtaining more comprehensive indicators of the harmful effects of low level metals and metal mixtures in fish. [Read More](#)

**Placental Sex Differences: Q&A with Amy Inkster**

BioMed Central



At the May meeting of the Organization for the Study of Sex Differences, Amy Inkster's (pictured) poster titled "Sex-specific patterns of autosomal DNA methylation in the human placenta" was selected as the winner of the Biology of Sex Differences Best Poster Prize. Learn more about the UBC Medical Genetic graduate student, the sex of placentas, and the importance of considering sex differences in pregnancy research in this Q&A with her. [Read More](#)

**Vancouver Community College Fashion Partners with BC Children's Hospital**

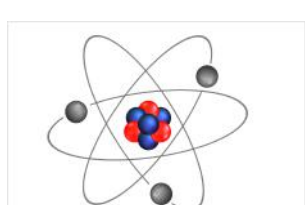
Vancouver Community College



Model Organisms is the talk of the city as Vancouver Community College (VCC) and BC Children's Hospital present their creative new collection at Vancouver Kids Fashion Week. Model Organisms is the result of a collaboration between students, alumni, and instructors in VCC's fashion design and production program as well as research scientists in the Healthy Starts theme at BC Children's Hospital. [Read More](#)

**Patients Fighting Cancer and Disease around the World are Counting on Canada for Medical Isotopes**

Canadian Nuclear Isotope Council



Patients fighting cancer and other medical conditions all over the world rely on Canada for a safe and stable supply of medical isotopes. The Canadian Nuclear Isotope Council has released a new report highlighting the need for strong Canadian leadership to ensure a domestic and international supply of medical isotopes. [Read More](#)

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Interesting Articles

**Many Canadian-Invented Patents not Staying with Canadians**

CBC



Despite having the right conditions for innovation — from educated workers to strong research centres — many Canadian-invented patents are being snapped up by foreign firms rather than being developed by Canadian ones. A report published by the Institute for Research on Public Policy says Canadians are increasingly likely to transfer or sell their intellectual property to foreign entities, especially with deep-pocketed American companies keen to invest in innovation. [Read More](#)

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**Upcoming Events in Vancouver**

- September 25 3:00 PM **Thriving in Graduate School**  
Djavad Mowafaghian Centre for Brain Health
- September 26 10:00 AM **SFU BIG Fair 2019**  
SFU Burnaby
- September 26 5:00 PM **Careers Fair & Networking Event for Graduate Students and Postdocs**  
Thea Koerner House
- September 26 4:00 PM **D.R.I.N.K.S. (Discussions Relevant to Inspiring New Knowledge and Science)**  
Mahony and Sons, Stamps Landing
- September 27 7:00 PM **Science Siam**  
Fox Cabaret

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**STEMCELL Jobs in Vancouver**

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- Associate Product Manager, Pluripotent Stem Cell Biology**  
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- Scientist, Matrix Biology**  
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- Scientific Inside Sales Representative**  
STEMCELL Technologies
- Research Associate, Immunology**  
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**Other Science Jobs in Vancouver**

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NovoBind
- Assistant Professor**  
Michael Smith Labs
- Senior Research Associate, Oncology**  
Zymeworks
- Postdoctoral Fellow/Research Associate, Hematopoiesis**  
BC Cancer, Vu Lab
- Research Senior Associate, Biotherapeutic Discovery**  
Amgen

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Webinar by Dr. Kristina McBarney & Leanna Bedell

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