

Publications of the Week

Dynamic Molecular Changes During the First Week of Human Life Follow a Robust Developmental Trajectory

First Author: Amy Lee (*pictured*) | Senior Author: Tobias Kollmann
Nature Communications | PROOF Centre of Excellence, BC Children's Hospital, BC Cancer and UBC



The authors optimized methods to extract transcriptomic, proteomic, metabolic, cytokine/chemokine, and single cell immune phenotyping data from less than 1 mL of blood, a volume readily obtained from newborns. Validated across two independent cohorts of newborns from West Africa and Australasia, a robust and common trajectory emerged, suggesting a purposeful rather than random developmental path. [Profile](#) | [Abstract](#)

Cell Competition During Reprogramming Gives Rise to Dominant Clones

First Author: Nika Shakiba | Senior Author: Peter Zandstra (*pictured*)
Science | Michael Smith Laboratories and UBC



Although studies have identified molecular networks that reprogram cells to pluripotency, the cellular dynamics of these processes remain poorly understood. By combining cellular barcoding, mathematical modelling, and lineage tracing approaches, the authors demonstrated that reprogramming dynamics in heterogeneous populations are driven by dominant "elite" clones. [Abstract](#)

[View All Publications](#) 

Awards

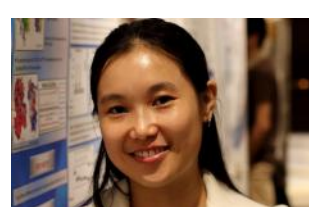
March 2019 Award Winners



Dr. Rachel Murphy (*pictured*) from the UBC School of Population and Public Health has been awarded an Operating Grant from the Canadian Institutes of Health Research to investigate risk factors for lung cancer beyond smoking, including lifestyle, other diseases and medications. Find out which other Vancouver researchers won grants, awards and fellowships in March! [Read More](#)

The Michael Smith Foundation for Health Research Awards

The Centre for Blood Research



Five Centre for Blood Research postdoctoral trainees and Principal Investigator Dr. Hugh Kim have been recognized by the Michael Smith Foundation for Health Research with research awards. One of the recipients, Dr. Ka-Yee (Grace) Choi (*pictured*) of the Hancock lab, is studying host defense peptides and their synthetic analogues, innate defense regulators. [Read More](#)

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

Local News

SFU-Led Team Fights Drug-Resistant Tuberculosis with Artificial Intelligence

SFU News



Just as the World Health Organization observed World Tuberculosis Day, SFU computing science Professors Leonid Chindelevitch (*pictured*) and Maxwell Libbrecht have partnered with University of Montreal researcher Jesse Shapiro for a new project. It uses machine learning to predict whether a patient's strain of tuberculosis is resistant to treatment by specific drugs. [Read More](#)

Your Genome Could Help Medical Research. It Could Also Be a Privacy Nightmare

CBC News



At home DNA testing kits have made it easier than ever for the average person to learn about their genes, unlocking information about everything from their genealogical ancestries to their risks for developing certain conditions. Catalina Lopez-Correa (*pictured*), the Chief Scientific Officer at Genome BC, says it's important for individuals to retain ownership of their data. [Read More](#)

RepliCel Reignites its First-in-Japan Strategy

RepliCel



RepliCel Life Sciences Inc. will be conducting their next-phase trials in Japan as a part of a new program to realize their goal of launching their cell therapy products in Japan sooner than would be possible anywhere else. Unlike elsewhere in the world, one well-designed cell therapy trial in Japan, approved by their regulatory authorities, has the potential to lead to product market launch. [Read More](#)

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

Interesting Articles

Canada Budget Overlooks Basic Research

Nature News



Canada's 2019 budget includes modest increases for Prime Minister Justin Trudeau's government priorities, including neuroscience and genomics research — nothing like the historic five-year, \$4-billion boost for basic science and research unveiled in 2018. The 2019 funding plan would also create an advisory body that would subject future government funding decisions for research to greater scientific scrutiny. [Read More](#)

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

Upcoming Events in Vancouver

- April 3
7:15 AM

2019 Norman Bethune Symposium
UBC Robson Square
- April 3
2:00 PM

UBC Medicine Career Day
BC Children's Hospital Research Institute
- April 4
5:00 PM

21st Annual LifeSciences BC Awards
Vancouver Convention Centre West
- April 4
1:00 PM

PBSS Luncheon Seminar: The Role of the Microbiome in Health and Disease
VanDusen Gardens
- April 4 - 6
12:00 PM

The Greater Vancouver Regional Science Fair
AMS Student Nest

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

STEMCELL Jobs in Vancouver

- Program Manager, Scientific Communications - Histochemistry**
[STEMCELL Technologies](#)
- Product Manager, Epithelial**
[STEMCELL Technologies](#)
- Scientific Recruiter**
[STEMCELL Technologies](#)
- Scientist, Pulmonary**
[STEMCELL Technologies](#)
- Process Engineer**
[STEMCELL Technologies](#)

[View 83 Other STEMCELL Jobs](#) 

Other Science Jobs in Vancouver

- Director, Regulatory Affairs & Clinical Development**
AbCellera
- Director/Sr. Director, Late Stage Chemistry, Manufacturing and Controls**
Xenon Pharmaceuticals
- Lead Post-Doctoral Scientist/Research Associate**
Centre for Molecular Medicine and Therapeutics
- Postdoctoral Fellow**
BC Cancer
- Scientist, Molecular Simulations**
Zymeworks

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

STEMCELL SCHOLARSHIPS FOR ATS 2019

[LEARN MORE](#)

BROUGHT TO YOU BY



STEMCELL Technologies
Products | Services

STEMCELL's Science Newsletters
Free Weekly Updates on Your Field

The Stem Cell Podcast
Interviews and Updates on Stem Cell Science