

Publications of the Week

IL-13 Signalling through IL-13 Receptor $\alpha 2$ Mediates Airway Epithelial Wound Repair

First Author: Jasmine Yang | Senior Author: Delbert Dorscheid (*pictured*)
The FASEB Journal | Centre for Heart Lung Innovation



Asthma is an airway inflammatory disease characterized by epithelial barrier dysfunction and airway remodelling. Interleukin-13 (IL-13) is a pleiotropic cytokine shown to contribute to features of airway remodelling. The role of IL-13 signalling via its receptor subunits in airway epithelial repair and restoration of intact barrier function is not well understood and was investigated in this study using *in vitro* models. [Profile](#) | [Abstract](#)

Double-Hit Gene Expression Signature Defines a Distinct Subgroup of Germinal Center B-Cell-Like Diffuse Large B-Cell Lymphoma

First Author: Daisuke Ennishi | Senior Author: David Scott (*pictured*)
Journal of Clinical Oncology | SFU and BC Cancer



High-grade B-cell lymphoma with *MYC* and *BCL2* and/or *BCL6* rearrangements (HGBL-DH/TH) has a poor outcome after standard chemoimmunotherapy. The authors analyzed RNA sequencing data from 157 *de novo* germinal center B-cell-like-diffuse large B-cell lymphomas (GCB-DLBCLs), including 25 with HGBL-DH/TH with *BCL2* rearrangements, to define a gene expression signature that distinguishes HGBL-DH/TH-*BCL2* from other GCB-DLBCLs. [Abstract](#)

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Local News

Science in the City Is on Break for the Holidays!

Science in the City



The holiday season is upon us, and as research begins to slow towards the end of the year, we too will be taking a short break to prepare for the new year ahead. The Science in the City website will be dark for the remainder of the holiday season, but will return as your source for local life science news on January 2nd, 2019! [Read More](#)

Grizzly Bear Genome Sequenced for the First Time by Scientists at the GSC

Canada's Michael Smith Genome Sciences Centre



Among the largest predators in the country, the Grizzly bear now has another claim to fame: the most complete genetic map for its species. Within 37 pairs of chromosomes composed of about 2.3 billion nucleotide base pairs, scientists have now revealed the location of 19,848 coding genes, 7,061 non-coding genes, 3,671 pseudo-genes, and more, within the Grizzly genome. [Read More](#)

Ottawa to Discontinue Networks of Centres of Excellence Funding Program

The Globe and Mail



The federal government is phasing out a 30-year-old funding program known for connecting teams of scientists across Canada and encouraging them to work together in key areas of biomedical and environmental research. This includes some high-profile Canadian science organizations, such as the clinically oriented Stem Cell Network as well as ArcticNet, which provides access for researchers to work aboard the Canadian research icebreaker, Amundsen. [Read More](#)

Developing a New Analytical Technique to Assess the Quality of Blood without Breaching the Sterility of Transfusion Bags

Michael Smith Laboratories



Donated red blood cells are an extremely precious resource and there is currently no way to test for blood quality without breaching the sterility of the blood bag. Dr. Martha Vardaki, a postdoctoral fellow under Dr. Robin Turner (*pictured*) in the Michael Smith Laboratories, in collaboration with the Centre for Blood Research, developed a new technique to evaluate the quality of transfusion blood without having to compromise blood bags. [Read More](#)

New Data 'Powerhouse' at SFU to Combat Drug-Resistant Superbugs

Vancouver Sun



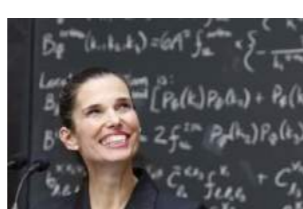
A new data centre at Simon Fraser University (SFU) will bring together researchers to better understand and combat drug-resistant superbugs. The Canadian Statistical Sciences Institute, or Canssi, headquarters, at SFU's Big Data Hub, is described by university staff as a "statistical and data science powerhouse" for researchers studying everything from climate change to healthcare, and even the growing field of sports analytics. [Read More](#)

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Interesting Articles

\$275-Million Offered Up for "High-Risk" Science

CTV News



The federal government has launched a new \$275-million pot of funding for "high-risk" scientific research. It hopes to inspire high-risk unique projects that defy current research models or use different perspectives to solve existing problems. The first tranche of funding is open to researchers with five years or less experience, with grants overseen by the Social Sciences and Humanities Research Council of Canada. [Read More](#)

Supporting Health Research Comes at a Cost

The Globe and Mail



A CBC news story revealed that the Canadian Institutes of Health Research was spending "\$2,600 a day on meals and refreshments" and even more on "travel and hospitality." To summarize the reader comments: *A bunch of cardigan-wearing academics rejecting modern technology so they can rack up air miles and luxuriate in fancy hotels.* It makes for a compelling narrative in these anti-science, anti-government times. But is that really the case? [Read More](#)

GMOs: Scientific or Social Uncertainty?

Centre for Blood Research



Since its discovery in the 1970s, genetic engineering has been used to advance research, industry, medicine, and agriculture. However, using genetic modification to engineer the food we eat has been an ongoing contention. Biological systems are complex and interconnected, and some fear that genetic modification may cause significant ripple effects impacting the health of consumers or the surrounding environment. [Read More](#)

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Upcoming Events in Vancouver

- December 19 12:00 PM **CHÉOS Work in Progress Seminar — What Happens After You Die? Post-Admission Management of Out-of-Hospital Cardiac Arrest**
St. Paul's Hospital
- December 19 7:00 PM **Nerd Nite 2018 Solstice Spectacular**
Fox Cabaret
- December 20 3:00 PM **D.R.I.N.K.S. (Discussions Relevant to Inspiring New Knowledge and Science)**
Mahony and Sons, Stamps Landing
- January 6 1:00 PM **Dinosaur Teeth are Way Cool Because...**
Beaty Biodiversity Museum
- January 8 1:00 PM **Career Connect : Applied Biological Materials**
Applied Biological Materials

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STEMCELL Jobs in Vancouver

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STEMCELL Technologies
- Research Associate, Business Operations Products**
STEMCELL Technologies
- Senior Manager, Nanoparticle Engineer**
STEMCELL Technologies
- Associate Product Manager, Pluripotent Stem Cell Biology**
STEMCELL Technologies
- Scientific Marketing Specialist, Business Operations Products**
STEMCELL Technologies

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Other Science Jobs in Vancouver

- Senior Scientist, Molecular Simulations**
Zymeworks
- Faculty Position, Bioinformatics and Genomics**
Simon Fraser University
- Postdoctoral Research Scientist**
The Providence Airway Centre
- Senior Research Associate**
Evonik
- Biophysicist for Medical Device Company**
Posted by Swim Recruiting

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