

Publications of the Week

A Topological View of Human CD34⁺ Cell State Trajectories from Integrated Single-Cell Output and Proteomic Data

First Authors: David Knapp and Colin Hammond | Senior Author: Connie Eaves *(pictured)*
Blood | Terry Fox Laboratory, Michael Smith Laboratories and UBC



The authors integrated single-cell proteome measurements with clonally determined lymphoid, neutrophilic/monocytic, and/or erythroid progeny outputs from >1000 index-sorted CD34⁺ human cord blood cells in short-term cultures with and without stromal cells. Analyses showed that conventionally defined subsets of CD34⁺ cord blood cells are heterogeneous in their functional properties, transcription factor content, and signalling activities. [Profile](#) | [Abstract](#)

Huntingtin Lowering Strategies for Disease Modification in Huntington's Disease

First Author: Sarah Tabrizi | Senior Author: Blair Leavitt *(pictured)*
Neuron | Centre for Molecular Medicine and Therapeutics and UBC



Huntington's disease is caused by an abnormally expanded CAG repeat expansion in the *HTT* gene, which confers a predominant toxic gain of function in the mutant huntingtin protein. There are currently no disease-modifying therapies available, but approaches that target proximally in disease pathogenesis hold great promise. [Abstract](#)

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Awards

Faculty of Medicine Members Nominated for YWCA Women of Distinction Awards

UBC Medicine



Twelve members of the Faculty of Medicine community have been nominated for the 2019 YWCA Women of Distinction Awards, which honours individuals whose outstanding activities and achievements contribute to the well-being and future of our community. Shawna Narayan *(pictured)*, a graduate student in Experimental Medicine, has been nominated as a Young Woman of Distinction. [Read More](#)

CIHR Invests in Future Research Leaders in Maternal, Reproductive, Child and Youth Health and Highlights Innovative and Impactful Knowledge Translation Initiative

Government of Canada



The Honourable Ginette Pelitpas Taylor has announced nearly \$1.7 million from the Government of Canada, through the Canadian Institutes of Health Research (CIHR), to support the work of 17 outstanding early career investigators, including Dr. Manish Sadarangani *(pictured)*, who will conduct research projects that may have a significant impact on maternal, reproductive, child and youth health. [Read More](#)

Karin Humphries and Leonard Foster Receive Distinguished Researcher Awards

UBC Medicine



Dr. Karin Humphries, Associate Professor in the Division of Cardiology, and Dr. Leonard Foster *(pictured)*, Professor and Head of the Department of Biochemistry & Molecular Biology, have been awarded the 2018 Faculty of Medicine Distinguished Researcher Awards, which recognize the significant contributions of UBC Medicine faculty to basic science, clinical and applied research. [Read More](#)

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Local News

Dissecting the Techniques of Studying the Gut Microbiota of the Honey Bee

Michael Smith Laboratories



"Microbiota" seems to be the buzz word in today's research - it has become the focus of many research papers as the microbiota can help determine health and overall fitness. A team of students from Dr. Leonard Foster's *(pictured)* lab has compiled findings and current techniques used to study the gut microbiota of honey bees. [Read More](#)

New Technique Reveals Big Data from Tiny Babies

UBC News



An international research team co-led by UBC has pioneered a technique to get huge amounts of data from a tiny amount of newborn blood—less than a quarter teaspoon—allowing for the most comprehensive data analysis yet. The technique reveals molecular changes in the first week of newborn life, including what genes are turned on, what proteins are being made and how metabolism changes. [Read More](#)

Meet the Canadian Who Invented the Way to Not Die of AIDS

The Province



Canada has a rich history of innovation, but in the next few decades, powerful technological forces will transform the global economy. *Maker Nation* is looking at the untold stories behind key discoveries and inventions made in Canada. In this episode, they meet Dr. Julio Montaner *(pictured)*, who literally caused thousands of AIDS patients to rise from their death beds. [Read More](#)

AbCellera Signs Agreement with Global Health Foundation to Fight Infectious Disease

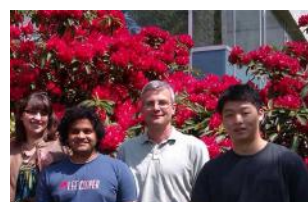
AbCellera



AbCellera has announced a two-year agreement with the Bill & Melinda Gates Foundation to help accelerate global health research. The funding, totaling \$4.8 million, will support a series of scientific collaborations between AbCellera and Gates Foundation-funded scientists working on the prevention and treatment of high-priority infectious diseases. [Read More](#)

Innovate BC Awards More Than \$600,000 to Clean, Bio and Marine Tech Companies

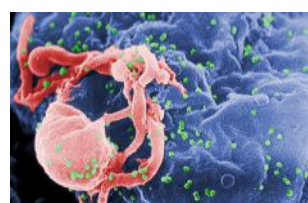
Innovate BC



Innovate BC has awarded \$613,850 in round six of its Ignite Program to spark the commercialization of technologies that will solve industry problems in the natural resources and applied sciences. The innovation team of Applied Biological Materials and Dr. Peter Unrau's lab *(pictured)* at SFU are collaboratively developing the "RNA Mango" pathogen detection technology. [Read More](#)

BC-CfE Applauds Advance towards an HIV Cure

BC Centre for Excellence in HIV/AIDS



The BC Centre for Excellence in HIV/AIDS (BC-CfE) is optimistic about the encouraging announcement that a second person has been cleared of HIV. As in the first case, this was achieved through a bone-marrow transplant from a donor harbouring a rare mutation in the human CCR5 gene. The CCR5 is necessary for HIV to enter cells in the human body as it acts as a receptor. [Read More](#)

Research Mobilization Success Leads to Continued Canada-France Partnership

Mitacs



Capitalizing on five years of research-collaboration success, Mitacs and Inria have renewed their partnership originally signed in 2014. The memorandum of understanding supports two-way international research opportunities for graduate researchers at Canadian universities and at eight Inria Research Centres in France. [Read More](#)

Women in STEAM Take Centre Stage at New Westminster's Innovation Week

The Georgia Straight



New Westminster hosted its third annual Innovation Week. The seven-day event brings leaders together to discuss the issues facing Canadian cities, and culminated with a daylong summit focusing on promoting and celebrating women in STEAM. Assembling individuals from governments, nonprofits, academia, and private business, the event broke down what's working and what is still needed to advance female representation in tech fields. [Read More](#)

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Interesting Articles

Innovation Means No One Ever 'Graduates': Learning Happens Year-Round. Industry and Schools Must Adjust

The Province



In Canada, the innovation era will require closer collaboration between post-secondary institutions and industry than ever before. To stay on top of changing workforce requirements, universities and colleges need to be more aligned with industry needs. Industry, meanwhile, must also step up with support for future talent. [Read More](#)

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Upcoming Events in Vancouver

March 19 3:00 PM	#SciComm: More Than Just a Hashtag Life Sciences Centre
March 26 6:00 PM	The SBN Biotech Expo & Conference UBC Robson Square
March 28 4:00 PM	D.R.I.N.K.S. (Discussions Relevant to Inspiring New Knowledge and Science) Mahony and Sons, Stamps Landing
April 3 7:15 AM	2019 Norman Bethune Symposium UBC Robson Square
April 4 1:00 PM	PBSS Luncheon Seminar: The Role of the Microbiome in Health and Disease VanDusen Gardens

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