

Publications of the Week

N-Terminomics TAILS Identifies Host Cell Substrates of Poliovirus and Coxsackievirus B3 3C Proteinases That Modulate Virus Infection

First Author: Julienne Jagdeo (*pictured*) | Senior Author: Eric Jan
The Journal of Virology | The Life Sciences Institute, The Centre for Blood Research, and UBC



Although some host protein substrates of enterovirus proteinases have been identified, the full repertoire of targets remains unknown. The authors used a novel quantitative *in vitro* proteomics-based approach, termed terminal amine isotopic labeling of substrates (TAILS), to identify with high confidence 72 and 34 new host protein targets of poliovirus and coxsackievirus B3 3C proteinases. [Profile](#) |

[Abstract](#)

Somatic IL4R Mutations in Primary Mediastinal Large B-Cell Lymphoma Lead to Constitutive JAK-STAT Signaling Activation

First Author: Elena Vigano | Senior Author: Christian Steidl (*pictured*)
Blood | The BC Cancer Agency and UBC



Primary mediastinal large B cell lymphoma is a distinct subtype of diffuse large B cell lymphoma (PMBCL) thought to arise from thymic medullary B cells. Gene mutations underlying the molecular pathogenesis of the disease are incompletely characterized. The authors describe novel somatic IL4R mutations in 15 out of 62 primary cases of PMBCL and in all PMBCL-derived cell lines tested. [Abstract](#)

HIC1 Links Retinoic Acid Signalling to Group 3 Innate Lymphoid Cell-Dependent Regulation of Intestinal Immunity and Homeostasis

First Author: Kyle Burrows | Senior Author: Colby Zaph (*pictured*)
PLoS Pathogens | The Biomedical Research Centre and UBC



The intestinal immune system must be able to respond to a wide variety of infectious organisms while maintaining tolerance to non-pathogenic microbes and food antigens. The authors define a role for the transcriptional repressor Hypermethylated in cancer 1 (HIC1) in the regulation of innate lymphoid cell responses in the intestine. [Abstract](#)

Awards

Dr. Jayachandran Kizhakkedathu Receives Faculty Research Award

The Centre for Blood Research



Dr. Kizhakkedathu (*pictured*) has been awarded the 2017 UBC Killam Research Prize, which recognizes outstanding research and scholarly contributions to a variety of fields. Dr. Kizhakkedathu is a Professor and researcher in the Department of Pathology and Laboratory Medicine at UBC. His research focuses on the themes of macromolecular therapeutics, cell-surface engineering, proteomic reagents, and blood-compatible surfaces and devices. [Read More](#)

SFU Awards Excellence in Science Engagement and Public Outreach to Local *Let's Talk Science* Team

SFU Faculty of Science



The Faculty of Science at SFU has awarded the annual Excellence in Science Public Engagement and Outreach Award to SFU's *Let's Talk Science* team. Team members, Alexandra Kasper (*second from left*), Drake Comber (*right*) and Ashani Montgomery (*second from right*), are all SFU graduate students who bring passion and experience in sharing science engagement. [Read More](#)

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Local News

How a Common Virus Might Trigger Multiple Sclerosis

UBC Science



UBC immunologist Dr. Marc Steven Horwitz investigates how viruses can induce complex diseases like diabetes and lupus. Now he's studying a cat and mouse game — how a common virus might be related to the onset of multiple sclerosis. UBC Science sat down with Dr. Horwitz to discuss his research on Epstein-Barr Virus and multiple sclerosis. [Read More](#)

Brett Finlay to Serve as Chair of the Expert Panel on the Potential Socio-Economic Impacts of Antimicrobial Resistance in Canada

Michael Smith Laboratories



The Council of Canadian Academies has appointed Dr. Brett Finlay, a Peter Wall Distinguished Professor at UBC, as Chair of the newly appointed Expert Panel on the Potential Socio-economic Impacts of Antimicrobial Resistance in Canada. Dr. Finlay will lead a 14-member multidisciplinary, multisectoral panel comprised of individuals with expertise, experience, and demonstrated leadership in biology,

public health, socio-economic impact modelling and analysis, public policy, and industry. [Read More](#)

One Patient's Rare Disease Leads to New Insights into Diabetes: Q&A with Chi Kin Wong

BC Children's Hospital Research Institute



Over one million Canadians suffer from a rare disease. In a recent publication by Dr. Bill Gibson and PhD student Chi Kin Wong, one patient's rare mutation has led to the discovery of two proteins that help prevent diabetes from developing. Wong talks about how this research could lead to new treatments for diabetes, and what rare diseases can teach us about how the human body works. [Read More](#)

Dr. Mary De Vera Profiled as a Woman Leader in STEM

UBC Faculty of Pharmaceutical Sciences



Dr. Mary De Vera, assistant professor in the Faculty of Pharmaceutical Sciences at the University of British Columbia, is profiled as a Woman Leader in Science, Technology, Engineering and Mathematics (STEM) by the Government of Canada in their 2018 budget. As Canada Research Chair in medication adherence, utilization, and outcomes, Dr. De Vera focuses on helping individuals correctly take their prescription medications. [Read More](#)

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Interesting Articles

Budget 2018 Offers Hope, Opportunity for Canadian Research

Djavad Mowafaghian Centre for Brain Health



Budget 2018 dropped recently, and Canadian scientists are enthusiastic ... and relieved. The new budget offers nearly \$4 billion in funding for Canadian research over the next five years, which includes \$354 million each for the Canadian Institutes of Health Research and Natural Sciences and Engineering Research Council, plus \$763 million for the Canada Foundation for Innovation. [Read More](#)

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Upcoming Events in Vancouver

March 13
5:30 PM

Medical Aid in Dying in Canada

Alice Mackay Room, Vancouver Public Library

March 14 - 16
8:00 AM

Pluripotent Stem Cell Training

STEMCELL Technologies

March 15
4:30 PM

Life After Graduate School: Pharmaceutical Industry Edition
Djavad Mowafaghian Centre for Brain Health

March 15
7:00 PM

Timothy Caulfield Public Lecture – Twisted Messages, False Hope and Unproven Regenerative Therapies
Life Sciences Institute

March 23
8:00 PM

Science Slam
Cafe Deux Soleils

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Science Jobs in Vancouver

QC Analyst, Microbiology
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STEMCELL Technologies

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