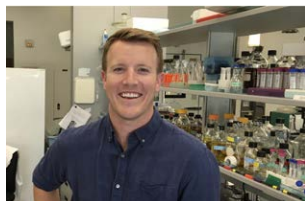


Publications of the Week

## Crystal Structure of an Intramembranal Phosphatase Central to Bacterial Cell-Wall Peptidoglycan Biosynthesis and Lipid Recycling

First Author: Sean Workman (*pictured*) | Senior Author: Natalie Strynadka  
Nature Communications | The Centre for Blood Research and UBC

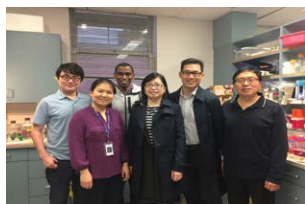


Undecaprenyl pyrophosphate phosphatase (UppP) is an integral membrane protein that recycles the lipid carrier essential to the ongoing biosynthesis of the bacterial cell wall. The authors present the crystal structure of UppP from *Escherichia coli* at 2.0 Å resolution, which reveals the mechanistic basis for intramembranal phosphatase action and substrate specificity using an inverted topology repeat.

[Profile](#) | [Abstract](#)

## Enteroviral Infection Inhibits Autophagic Flux via Disruption of the SNARE Complex to Enhance Viral Replication

First Author: Yasir Mohamud (*third from left*) | Senior Author: Honglin Luo (*third from right*)  
Cell Reports | The Centre for Heart Lung Innovation, St. Paul's Hospital, and UBC



Picornaviruses have evolved to hijack host cellular machinery, including the autophagic pathway. However, the mechanisms remain largely unclear. The authors used coxsackievirus B3 (CVB3) as a model organism to explore the possible role of picornavirus subversion of the autophagic pathway in viral infection. The study reveals a mechanism that supports an emerging model whereby CVB3 hijacks the autophagic machinery to facilitate its own propagation. [Profile](#) |

[Abstract](#)

## Strategies for Generating Diverse Antibody Repertoires Using Transgenic Animals Expressing Human Antibodies

First Author: Weihsu Chen | Senior Author: Christopher Murawsky  
Frontiers in Immunology | Amgen



Therapeutic molecules derived from antibodies have become a dominant class of drugs used to treat human disease. Increasingly, therapeutic antibodies are discovered using transgenic animal systems that have been engineered to express human antibodies. The authors describe some of the strategies and considerations they use for manipulating the immune systems of transgenic animal platforms.

## Awards

## March 2018 Award Winners



Dr. Evan Wood (*pictured*), a Professor of Medicine at UBC and Director of the BC Centre on Substance Use, was awarded a CIHR Operating Grant in the Opioid Crisis Knowledge Synthesis competition this past March. Find out which other Vancouver researchers won grants, awards, fellowships, or scholarships last month in our monthly award summary! [Read More](#)

## Dr. Brian Kwon Wins ASIA Apple Award

American Spinal Cord Injury Association



Dr. Brian Kwon (*pictured*), a Professor in the Department of Orthopaedics at the University of British Columbia, is the recipient of the American Spinal Cord Injury Association's (ASIA) 2018 Apple Award. The Apple Award for excellence in publishing in spinal cord injury rehabilitation literature is awarded in recognition of the best published paper by a clinician or researcher in the preceding calendar year. [Read More](#)

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

## Local News

## Top Researchers Join UBC as Canada 150 Research Chairs

UBC Faculty of Medicine



Three internationally recognized researchers will join the University of British Columbia this year, bringing international talent in the fields of evolutionary genomics, functional genetics and social psychology as Canada 150 Research Chairs. Drs. Judith Mank, Josef Penninger (*pictured*), and Azim Shariff are the latest international researchers to join UBC through the program. [Read More](#)

## Researchers Capture First Representative of Most Abundant Giant Viruses in the Sea

UBC Science



Bodo saltans virus, the first isolated representative of the most abundant giant viruses in the sea, has been unveiled by Dr. Curtis Suttle (*right*) and Christoph Deeg (*left*) at the University of British Columbia. The virus, whose genome weighs in at 1.39 million bases of DNA, is one of the largest giant viruses ever isolated, and the largest known to infect zooplankton. [Read More](#)

## Jennifer Gardy Makes a Splash on the Nature of Things Episode

The Vancouver Sun



You can catch Dr. Jennifer Gardy (*pictured*) on the most recent episode of *The Nature of Things*, titled *Myth or Science: The Power of Poo*. “As a microbiologist, I want people to know that germs are awesome, and for the most part they are pretty harmless and they are friendly. I kind of worry about a bit of the microbial fear-mongering,” says Gardy. [Read More](#)

## Forensic Files: UBC and BCIT Launch Joint Degree in Forensic Sciences

UBC News



UBC and BCIT are teaming up to train B.C.’s next generation of forensic scientists. Future graduates of the new combined honours program will receive a Bachelor of Science in Biochemistry and Forensic Science from UBC and BCIT. It will be the only program of its kind in Western Canada. Students of the new program will graduate with a solid understanding of science, how to conduct research, and be trained to work in labs. [Read More](#)

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### Upcoming Events in Vancouver

- |                          |   |
|--------------------------|---|
| April 12 - 15<br>8:30 AM | <b>SWCC On the Edge Conference</b><br>SFU Harbour Centre                                  |
| April 12<br>7:00 PM      | <b>SciComm Social with SWCC and STAN</b><br>Telus World of Science                        |
| April 14<br>9:00 AM      | <b>36<sup>th</sup> Annual Greater Vancouver Regional Science Fair</b><br>AMS Student Nest |
| April 19<br>5:00 PM      | <b>20<sup>th</sup> Annual LifeSciences BC Awards</b><br>Fairmont Hotel Vancouver          |
| April 25<br>7:00 PM      | <b>Nerd Nite</b><br>Fox Cabaret   |

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### Science Jobs in Vancouver

**Research Technologist, Pluripotent Stem Cells**  
STEMCELL Technologies

**Scientific Marketing Specialist, Immunology**  
STEMCELL Technologies

**Formulation Scientist**  
Precision NanoSystems

## Director, Centre for Molecular Medicine & Therapeutics

Centre for Molecular Medicine & Therapeutics

## Technician, Cell Culture and Screening

AbCellera

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**HOW IS DRUG SCREENING BEING REVOLUTIONIZED FOR CYSTIC FIBROSIS? WITH ORGANOIDS.**

Webinar by Sylvia Boj

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