

Publications of the Week

### Malt1 Blocks IL-1 $\beta$ Production by Macrophages *In Vitro* and Limits Dextran Sodium Sulfate-Induced Intestinal Inflammation *In Vivo*

First Author: Mahdis Monajemi (*front row, middle*) | Senior Author: Laura Sly (*back row, middle*)  
The Journal of Leukocyte Biology | BC Children's Hospital Research Institute and UBC



The authors tested the hypothesis that Malt1 deficiency in macrophages contributes to dextran sodium sulfate-induced intestinal inflammation in Malt1-deficient mice. In people, combined immunodeficiency caused by a homozygous mutation in the *MALT1* gene is associated with increased susceptibility to bacterial infections and chronic inflammation, including severe inflammation along the gastrointestinal tract. [Profile](#) | [Abstract](#)

### Enzyme Structures of the Bacterial Peptidoglycan and Wall Teichoic Acid Biogenesis Pathways

First Author: Nathanael Cavenay | Senior Author: Natalie Strynadka (*pictured*)  
Current Opinion in Structural Biology | The Life Sciences Centre, The Centre for Blood Research, and UBC



The bacterial cell wall is a complex polymeric structure with essential roles in defence, survival and pathogenesis. Common to both Gram-positive and Gram-negative bacteria is the mesh-like peptidoglycan sacculus that surrounds the outer leaflet of the cytoplasmic membrane. Recent crystallographic studies of enzymes that comprise the peptidoglycan biosynthetic pathway have led to significant new understanding of all stages. [Abstract](#)

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Awards

### ICORD Researchers Win MSFHR Scholar Awards

International Collaboration on Repair Discoveries (ICORD)



ICORD Investigator Dr. Shannon Kolind (*pictured*) and research scientist Dr. Babak Shadgan are among seventeen BC-based health researchers to have received 2018 Scholar Awards from the Michael Smith Foundation for Health Research. These important awards support researchers in the early stages of their careers as they develop their research programs and grow their labs. [Read More](#)

### Three CHÉOS Scientists Receive MSFHR Scholar Awards

Centre for Health Evaluation and Outcome Sciences (CHÉOS)



The Michael Smith Foundation for Health Research (MSFHR) announced the recipients of their 2018 Scholar Awards. This year, three of the seventeen awardees are CHÉOS Scientists — Drs. Anne Gademann, Ehsan Karim, and Skye Barbic (*pictured*). The MSFHR Scholar Program supports the development of B.C.'s research talent by providing salary support to scientists who are building strong research programs and training new scientists. [Read More](#)

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Local News

### UBC Researchers Create Matchmaking Service to Combat Antibiotic Resistant Infections

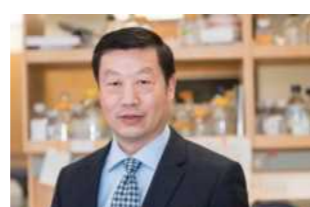
UBC News



Dr. Bob Hancock (*pictured*) and other UBC researchers have matched small proteins, called peptides, with antibiotics so they can work together to combat hard-to-treat infections that don't respond well to drugs on their own. The study builds on previous research that showed that the peptides are key to making harmful bacteria more responsive to drugs. [Read More](#)

### Pair of Studies Offers New Insight into Genetic Biochemical Mechanisms of Alzheimer's Disease

Djavad Mowafaghian Centre for Brain Health



Dr. Weihong Song (*pictured*) has recently published two studies that provide insight into the genetic and biochemical mechanisms of Alzheimer's disease. Dr. Song, a Canada Research Chair in Alzheimer's disease, the Jack Brown and Family Professor and Director of UBC's Townsend Family Laboratories, says his finding provides a rationale for trying a gene therapy in animal models of Alzheimer's disease that boosts levels of BACE2 in the brain. [Read More](#)

### Machine Learning Takes Disease Detection to the Next Level

Vancouver Coastal Health Research Institute



Dr. Stephen Yip and Adrian Levine are researching how software programs that use deep learning can add a layer of quality control to diagnosing diseases from tissue samples. Deep learning here refers to computer software that uses algorithms to recognize what data represents, such as curves and lines in an image. This is similar to technology found in self-driving cars, which uses machine learning to detect features in the landscape. [Read More](#)

### Pascal Biosciences Receives DEA Schedule I License for Cannabinoid Development and Renews UBC Collaboration

Pascal Biosciences



Pascal Biosciences Inc. has announced significant progress in its cannabinoid based research and development program with UBC. Pascal has been licensed by the US Drug Enforcement Administration to conduct research and development on cannabinoids. Pascal will renew the UBC collaboration and continue financial support of Dr. Wilfred Jefferies' laboratory at the Michael Smith Laboratories. [Read More](#)

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### Upcoming Events in Vancouver

- July 8  
1:00 PM  
**Coral Reefs Are Way Cool because...**  
Beaty Biodiversity Museum
- July 12  
6:30 PM  
**SCWIST Pub Night**  
Big Rock Urban Brewery & Eatery
- July 19  
5:00 PM  
**Beaty Nocturnal**  
Beaty Biodiversity Museum
- July 20  
4:00 PM  
**D.R.I.N.K.S. (Discussions Relevant to Inspiring New Knowledge and Science)**  
Mahony and Sons, Stamps Landing
- August 16  
12:00 PM  
**Centre for Blood Research - Research Day 2018**  
Life Sciences Institute

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### STEMCELL Jobs in Vancouver

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[STEMCELL Technologies](#)

**Senior Scientist, Pluripotent Stem Cells**  
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**Research Associate, Particle Chemistry**  
[STEMCELL Technologies](#)

**Scientific Communications & Publishing Specialist**  
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### Other Science Jobs in Vancouver

**Scientific Director**  
[Michael Smith Foundation for Health Research](#)

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[Aspect Biosystems](#)

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