

Publications of the Week

**Profiling the *E. coli* Membrane Interactome Captured in Peptidisc Libraries**

First Author: Michael Luke Carlson | Contributing Author: John Young *(pictured)* | Senior Author: Franck Duong eLife | UBC



While protein-correlation-profiling has been successfully applied to soluble proteomes, characterization of the membrane interactome has lagged, partly due to the necessary use of detergents to maintain protein solubility. The authors applied the peptidisc, a 'one-size fits all' membrane mimetic, for the capture of the *E. coli* cell envelope proteome and its high-resolution fractionation in the absence of detergent. [Profile](#) | [Abstract](#)

**Endogenous Hyperinsulinemia Contributes to Pancreatic Cancer Development**

First Author: Anni Zhang *(pictured)* | Senior Author: James Johnson Cell Metabolism | UBC



The incidence of cancers, including pancreatic ductal adenocarcinoma (PDAC), continues to rise alongside the global obesity and diabetes epidemics. Hyperinsulinemia is associated with PDAC, independent of BMI. This rise suggests that factors modulated by environment or lifestyle play a key role, but the mechanisms by which obesity and type 2 diabetes promote cancer remain unclear. [Abstract](#)

**Closed-Loop Optogenetic Activation of Peripheral or Central Neurons Modulates Feeding in Freely Moving *Drosophila***

First Author: Pierre-Yves Musso | Senior Author: Michael Gordon



To address the challenge of manipulating feeding circuits in freely moving animals like *Drosophila*, the authors developed the Sip-Triggered Optogenetic Behavior Enclosure ('STROBE'). The STROBE is a closed-looped system for real-time optogenetic activation of feeding flies, designed to evoke neural excitation coincident with food contact. [Abstract](#)

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Awards

**Crohn's and Colitis Canada Provides Over \$2.8 Million in 2019 Research Grants**

Crohn's and Colitis Canada



Crohn's and Colitis Canada, one of the world's leading non-governmental funders of Crohn's disease and ulcerative colitis research, has announced over \$2.8 million in grants to eleven Canadian investigators and their teams. Dr. Bruce Vallance *(pictured)* was among the five Vancouver-based researchers who received awards. His work focuses on the dangerous bacteria in the intestines of many people with ulcerative colitis. [Read More](#)

**Dr. Harry Brumer Receives Crohn's and Colitis Canada 2019 Innovations in IBD Research Award**

Michael Smith Laboratories



Dr. Harry Brumer *(pictured)*, Professor at the Michael Smith Laboratories and the UBC Department of Chemistry, has received a 2019 Innovation in Inflammatory Bowel Disease (IBD) Research Award. Dr. Brumer and his team are working on a new technology where a peptide will be packaged as an inactive pill that can be taken orally and only becomes active in the lower gut. [Read More](#)

**MSFHR Awards Help Health Science Scholars and Trainees Further Their Research**

SFU Faculty of Health Sciences



SFU Faculty of Health Sciences Assistant Professor Ruth Lavergne *(pictured)* was named as one of the 20 recipients of the Michael Smith Foundation for Health Research (MSFHR) Scholar and Research Trainee awards. The Scholar program supports researchers who are building cutting-edge health research programs, training junior scientists and expanding their potential to make significant contributions to their field. [Read More](#)

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Local News

**Vancouver Company Repurposes Soviet Union Doping Drug to Cure Kidney Disease**

The Georgia Straight



Vancouver company Algemon Pharmaceuticals repurposes safe, approved generic drugs that are not available in the U.S. or Europe, and screens them for their ability to cure different diseases to the ones they were originally billed for. They have announced that two drugs developed by the Soviet Union to boost the performance of its military and Olympic athletes are effective for treating chronic kidney disease, and non-alcoholic steatohepatitis: inflammation caused by a buildup of fat in the liver. [Read More](#)

**A Transition to Translation: Dr. Carl Hansen**

Michael Smith Laboratories



After a decade at UBC, Dr. Carl Hansen *(pictured)*, a Professor at the Michael Smith Laboratories and the Department of Physics and Astronomy, has chosen to leave UBC and make the full 'transition to translation' by pursuing his commitment as Chief Executive Officer of AbCellera. AbCellera started out in 2012 at UBC with only six employees, one of whom was Dr. Hansen. [Read More](#)

**Dr. Wolfram Tetzlaff Reappointed as ICORD Director**

ICORD



Dr. Wolfram Tetzlaff *(pictured)*, a Professor in the Departments of Zoology and Surgery at UBC, has been reappointed as the Director of the International Collaboration on Repair Discoveries (ICORD). Dr. Tetzlaff has led ICORD since July 2013 and has been a faculty member at UBC since 1995. His work focuses on spinal cord injury experimental modelling and experimental strategies for neuroprotection and neural repair after spinal cord injury. [Read More](#)

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 **Upcoming Events in Vancouver**

- August 13  
12:00 PM **CBR Research Day**  
UBC Life Sciences Centre
- August 14  
6:00 PM **Open Science Network Open Lab**  
MakerLabs
- August 19 - 23  
8:00 AM **TRIUMF Science Week**  
TRIUMF
- August 29  
4:00 PM **D.R.I.N.K.S. (Discussions Relevant to Inspiring New Knowledge and Science)**  
Mahony and Sons, Stamps Landing
- September 11  
9:00 AM **WordPress Training Workshop**  
UBC Life Sciences Centre

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 **STEMCELL Jobs in Vancouver**

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- Scientist, Particle Chemistry**  
[STEMCELL Technologies](#)
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 **Other Science Jobs in Vancouver**

- Research Associate, Pharmacogenomics**  
UBC Faculty of Pharmaceutical Sciences
- Formulation Scientist, Formulation Solutions**  
Precision Nanosystems
- Project Manager, CMC**  
Xenon
- In Vitro Scientist**  
NovoBind Livestock Therapeutics
- Technician, Plant Tissue Culture**  
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**HOW TO KEEP YOUR LAB STOCKROOM AND COLD REAGENTS ORGANIZED**

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