

Publications of the Week

Assessing Structure and Function of Myelin in Cervical Spondylotic Myelopathy: Evidence of Demyelination

First Author: Hanwen Liu (*second from right*) | Senior Author: John Kramer (*far right*)
Neurology | UBC and ICORD

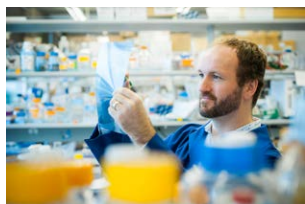


The authors provided evidence of decreased myelin content in the spinal cord associated with impaired spinal cord conduction in patients with cervical myelopathy. While conventional MRI techniques are of great value to define the extent of cord compression, they showed a limited correlation with functional deficits. Myelin water imaging provided independent and complementary readouts to spinal cord compression, with a high specificity to detect impaired conduction.

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

Reduced Circulating Insulin Enhances Insulin Sensitivity in Old Mice and Extends Lifespan

First Author: Nicole Templeman | Senior Author: James Johnson (*pictured*)
Cell Reports | UBC



The researchers found that decreased insulin led to lower fasting glucose and improved insulin sensitivity in aged mice. Moreover, lowered insulin caused significant lifespan extension, observed across two diverse diets. This suggests that elevated insulin contributes to age-dependent insulin resistance and that limiting basal insulin levels can extend lifespan. [Profile](#) | [Abstract](#)

The Interactome of Metabolic Enzyme Carbonic Anhydrase IX Reveals Novel Roles in Tumor Cell Migration and Invadopodia/MMP14-Mediated Invasion

First Author: Mridula Swayampakula | Senior Author: Shoukar Dedhar (*pictured*)
Oncogene | BC Cancer Agency and UBC



Carbonic anhydrase IX (CAIX) is a hypoxia inducible factor 1-induced, cell surface pH regulating enzyme with an established role in tumor progression and clinical outcome. However, the molecular basis of CAIX-mediated tumor progression remains unclear. The authors utilized proximity dependent biotinylation to map the CAIX interactome in breast cancer cells in order to identify physiologically relevant CAIX-associating proteins with potential roles in tumor progression. [Abstract](#)

Awards

Dr. Chris Overall Wins 2017 HUPO Award

The Centre for Blood Research



Dr. Chris Overall, a leading scientist at the Centre for Blood Research at UBC, has won the 2017 Discovery in Proteomic Sciences Award from the Human Proteome Organization (HUPO). Launched in 2001, HUPO is an international scientific organization that works to define and promote proteomics through collaborations on proteomics projects, fostering communication, and developing new technologies and training to better understand human disease. [Read More](#)

Five ICORDians Win MSFHR Awards

International Collaboration On Repair Discoveries (ICORD)



Dr. Heather Gainforth, an investigator with the International Collaboration on Repair Discoveries (ICORD), has received a Michael Smith Foundation Health Research (MSFHR) scholar award for her work addressing the gap between health promotion research and health promotion practice in the spinal cord injury community. Four ICORD postdoctoral fellows have also received research trainee awards.

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Local News

Using Simulations to Uncover a Potential New Player in Thrombosis

The Centre for Blood Research



The formation of blood clots is mediated by an intricate and dynamic interplay between platelets, blood clotting proteins, and small molecules. While rapid clot formation is essential for stopping blood loss at wound sites, uncontrolled blood clotting can evolve into thrombosis. Integrating both theoretical and experimental studies, research from a lab at UBC has shed light on the mechanisms behind short-chain polyphosphate, an activator of blood clot formation. [Read More](#)

Three Vancouver Prostate Centre Researchers in Best of the AACR Journals Collection

American Association for Cancer Research



The Best of the American Association for Cancer Research (AACR) Journals collection highlights the most-cited articles published in 2015 across AACR journals. Vancouver Prostate Centre researchers Drs. Kim Chi (*pictured*), Colin Collins, and Martin Gleave were interviewed by the AACR in honour of their achievement in making the cut. [Read More](#)

Transfusion Medicine “Boot-Less” Camp

The Centre for Blood Research

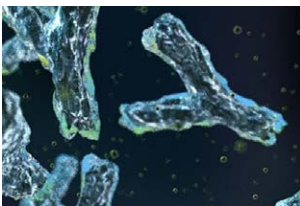


Transfusion practice plays a vital role in medicine. However, residents and physicians whose specialty is not hematology are often left out of the loop when decisions are made about transfusing a patient. To bridge this gap in knowledge, the first ever “Transfusion Camp” in British Columbia, spearheaded by Dr. Jacqueline Trudeau, was held in Vancouver over the course of the past year.

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Zymeworks and Daiichi Sankyo Announce Successful Achievement of a Research Milestone in Bispecific Antibody Collaboration

Zymeworks



Zymeworks Inc. and Daiichi Sankyo Company have announced the successful achievement of a research milestone for Azymetric™, an immuno-oncology bispecific antibody therapeutic candidate in their collaboration. The Azymetric™ platform consists of a library of proprietary amino acid substitutions that enable the transformation of monospecific antibodies into bispecific antibodies, giving them the ability to simultaneously bind two non-overlapping epitopes, or antigens. [Read More](#)

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Upcoming Events in Vancouver

- | | |
|--------------------------|---|
| August 6 1:00 PM | Slime Molds Are Way Cool Because... Beaty Biodiversity Museum |
| August 9 - 11 8:00 AM | Precision Medicine & Ion Channel Retreat Coast Coal Harbour Hotel |
| August 11 9:00 AM | Proteomics and Membrane Proteomics Workshop Shrum Science Centre |
| August 12 3:00 PM | UBC PDA Kayaking Deep Cove Kayak |
| August 17 12:00 PM | CBR Research Day Life Sciences Centre |

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Science Jobs in Vancouver

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Research Technologist

STEMCELL Technologies

Research Scientist, Molecular & Material Sciences

TRIUMF

Scientist, Translational Biology

Aquinox, Pharmaceuticals

Biostatistician

Xenon Pharmaceuticals

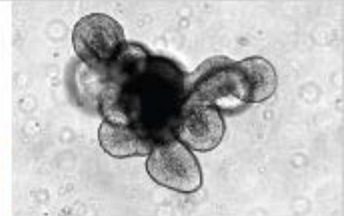
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