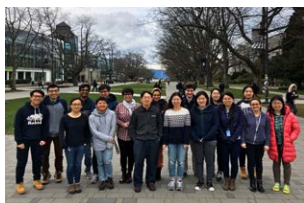


Publications of the Week

Opposite Roles of Salicylic Acid Receptors NPR1 and NPR3/NPR4 in Transcriptional Regulation of Plant Immunity

First Author: Yuli Ding | Senior Author: Yuelin Zhang (*third from left, front*)
Cell | The Michael Smith Laboratories and UBC



Salicylic acid (SA) is a plant defense hormone required for immunity. *Arabidopsis* NPR1 and NPR3/NPR4 were previously shown to bind SA and all three proteins were proposed as SA receptors. The authors report that NPR3/NPR4 function as transcriptional co-repressors and SA inhibits their activities to promote the expression of downstream immune regulators. [Profile](#) | [Abstract](#)

Viral Proteins as a Potential Driver of Histone Depletion in Dinoflagellates

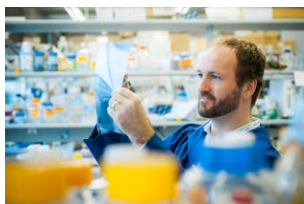
First Author: Nicholas Irwin (*second from left*) | Senior Author: LeAnn Howe (*far left*)
Nature Communications | The Life Sciences Institute and UBC



Dinoflagellates, a group of unicellular algae, have largely abandoned histones and acquired apparently viral-derived substitutes termed dinoflagellate-viral-nucleoproteins (DVNPs). The authors use *Saccharomyces cerevisiae* to show that DVNP impairs growth and antagonizes chromatin by localizing to histone binding sites, displacing nucleosomes, and impairing transcription. [Profile](#) | [Abstract](#)

Mild Suppression of Hyperinsulinemia to Treat Obesity and Insulin Resistance

First Author: Melissa Page | Senior Author: James Johnson (*pictured*)
Trends in Endocrinology and Metabolism | The Life Sciences Institute, The Diabetes Group, and UBC



Excessive circulating insulin is associated with adipose tissue expansion and obesity, yet a causal role for hyperinsulinemia in the development of mammalian obesity has proven controversial, with many researchers suggesting it as a consequence of insulin resistance. The authors discuss preclinical evidence in the context of the broader literature and speculate on the possibility of clinical translation of alternative approaches for treating obesity. [Abstract](#)

[View All Publications](#) 

April 2018 Award Winners



Dr. Boris Stoeber (*left*) of the Department of Mechanical Engineering at the University of British Columbia is a recipient of one of the CIHR Operating Grants announced in April. Find out which other Vancouver researchers won grants, awards, fellowships, or scholarships this past month in our April Awards Summary.

[Read More](#)

Ten HLI Trainees Win CIHR Travel Awards

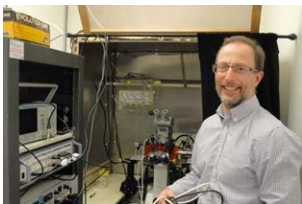
Centre for Heart Lung Innovation



Together, trainees at the Centre for Heart Lung Innovation at UBC and St. Paul's Hospital, including Dr. Miranda Kirby (*pictured*), brought in one third of all of the CIHR Travel Awards granted to UBC in the Spring of 2018. Trainee award-winners will receive a \$1000 stipend to support their attendance at an international conference this spring. [Read More](#)

Cross-Disciplinary Collaborations of LSI Scientists Meet Success at CIHR and NSERC Partnered Collaborative Health Research Projects

The Life Sciences Institute (LSI)



Five UBC teams met success for their innovative ideas at the intersection of health sciences and natural sciences and engineering research, in the form of CIHR's NSERC Partnered Collaborative Health Research Projects – Fall 2017 Competition. Recipients include Drs. David Fredida (*pictured*), Dieter Bromme, Ed Conway, and Jayachandran Kizhakkedathu. [Read More](#)

BioLytical Laboratories Recognized as a Leader in BC's Life Sciences Community

BioLytical Laboratories vis LifeSciences BC



BioLytical Laboratories, a world leader in rapid infectious disease tests, has been named the LifeSciences BC Growth Stage MedTech Company of the Year. This was one of several awards presented to distinguished organizations and leaders in the life sciences ecosystem at the 2018 Annual LifeSciences BC Awards dinner held at the Fairmont Hotel Vancouver. [Read More](#)

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Local News

Stem Cell Funding to Help Researchers Pinpoint Cause of SIDS

SFU News

SFU researcher Dr. Glen Tibbits (*left*) is working to develop a tool to better pinpoint the cause of death in cases of Sudden Infant Death Syndrome (SIDS). A professor



in the Department of Biological Physiology and Kinesiology, Tibbits is receiving nearly \$100,000 from the Stem Cell Network to advance his work, together with lab researchers Laura Dewar, Sanam Shafaat Talab (*middle*) and Eric Line (*right*).

[Read More](#)

Hope Beyond the Hype: The Pursuit of Longevity in Cell Therapies

Biotechnology Focus



After years of intensive research and development, cell therapies are finally having their moment. In the past year, the FDA has approved two CAR-T cell (chimeric antigen receptor T-cell) therapies, with stem cell treatments in hot pursuit as they enter late-stage clinical trials. While regulatory body recognition is an important milestone for the field, great challenges in the long-term sustainability of the industry remain. [Read More](#)

Research Clusters Promote Collaboration within and beyond Neuroscience at UBC

Djavad Mowafaghian Centre for Brain Health



Dr. Lara Boyd and several other researchers at the Djavad Mowafaghian Centre for Brain Health are currently taking part in initiatives that aim to accelerate discovery around brain health issues, from how the brain rewires itself after injury, to how the brain adapts to learning and change. Dr. Boyd's cluster is already engaged in three longitudinal studies that consider the impact of learning disability on neuroplasticity, social and emotional learning, and executive functions. [Read More](#)

A Quicker Treatment for Persistent Depression?

UBC Faculty of Medicine



Researchers at UBC and in Toronto have shown that a three-minute version of a brain stimulation treatment for hard-to-treat depression is just as effective as the standard 37-minute version. Repetitive transcranial magnetic stimulation uses magnetic field pulses to non-invasively stimulate a part of the brain called the dorsolateral prefrontal cortex, which is associated with mood regulation.

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Interesting Articles

Turning the Tide in Stem Cell Research in Canada with \$4M in New Funding

Biotechnology Focus

The Stem Cell Network (SCN) has received funding of \$4 million for innovative



stem cell and regenerative medicine research that will help translate discoveries into better health and economic growth for Canadians. This funding was made available thanks to a 2017 budget commitment by the Government of Canada and followed a competitive peer-reviewed process facilitated by SCN. [Read More](#)

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Upcoming Events in Vancouver

- May 7**
5:00 PM
2nd Annual Health xChange
St. Regis Bar and Grill
- May 8 - 10**
6:00 PM
Fuse International Conference
Coast Coal Harbour Hotel
- May 8**
2:30 PM
Women-in-Science Workshop
Beaty Biodiversity Museum
- May 9**
8:00 AM
2018 BCRegMed Symposium
Pharmaceutical Sciences Building
- May 11**
12:00 PM
The 2018 British Columbia Science & Policy Conference
Life Sciences Institute, UBC

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Science Jobs in Vancouver

- Product Marketing Manager, Hematology**
STEMCELL Technologies
- Scientific Marketing Specialist, Mesenchymal, Endothelial, and Myogenic**
STEMCELL Technologies
- Research Assistant 2**
BC Cancer Agency
- Research Scientist, Medicinal Chemistry**
Xenon Pharmaceuticals
- Postdoctoral Fellow, Membrane Proteins**
Department of Biochemistry, UBC

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