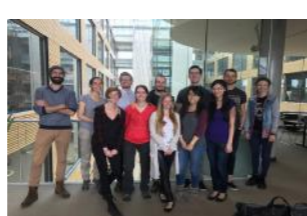


Publications of the Week

A Complex Peripheral Code for Salt Taste in *Drosophila*

First Author: Alexandria Jaeger (*front row, left*) | Senior Author: Michael Gordon (*back row, 3rd from right*)
eLife | UBC



Each taste modality is generally encoded by a single, molecularly defined, population of sensory cells. However, salt stimulates multiple taste pathways in mammals and insects, suggesting a more complex code for salt taste. After creating a comprehensive molecular map comprised of five discrete sensory neuron classes across the fly labellum, the authors found that four are activated by salt: two exhibiting characteristics of 'low salt' cells, and two 'high salt' classes. [Profile](#) | [Abstract](#)

Genotypic and Mechanistic Characterization of Subtype-Specific HIV Adaptation to Host Cellular Immunity

First Author: Natalie Kinloch (*back row, 3rd from left*) | Senior Author: Zabrina Brumme (*front row, 2nd from right*)
Journal of Virology | SFU, UBC, and the British Columbia Centre for Excellence in HIV/AIDS

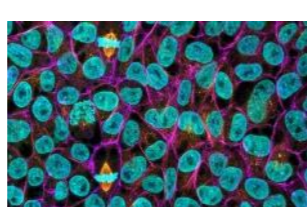


The extent to which viral genetic context influences HIV adaptation to human leukocyte antigen (HLA) class I-restricted immune pressures remains incompletely understood. Using phylogenetically-informed statistical approaches, the authors identified HLA-associated polymorphisms and formally compared their strengths of selection between viral subtypes. [Profile](#) | [Abstract](#)

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Local News

STEMCELL Submits Drug Master File for mTeSR™ 1, the Most Widely Published Cell Culture Medium for Human Pluripotent Stem Cells

STEMCELL Technologies



STEMCELL Technologies has announced that it has filed a Type II Drug Master File to the FDA for the Cellular Therapy Ancillary Material mTeSR™ 1. Used in over 1500 peer-reviewed publications, mTeSR™ 1 is the most widely published feeder-free cell culture medium, with established protocols for applications ranging from cell line derivation to terminal differentiation. [Read More](#)

Cutting-Edge New Cancer Treatment Coming to B.C.

BC Cancer Foundation



The BC Cancer Foundation has announced a historic \$18.346 million philanthropic grant from the Aqueduct Foundation on behalf of an anonymous donor that aims to transform treatment for people facing metastatic cancer. The funds will fuel a world-leading Molecular Imaging and Therapeutics program at BC Cancer spanning research and development of cutting-edge radiopharmaceuticals through to clinical trials. [Read More](#)

AbCellera Celebrates the Opening of Its New Research Facility and Corporate Headquarters

AbCellera



AbCellera has moved from its incubation space at UBC to a 21,000 square foot building with new offices and custom-built laboratories. The facility houses AbCellera's rapidly growing multidisciplinary team of cell and protein scientists, bioinformaticians, and engineers alongside the finance and business groups. The space will support expanded research capacity to meet the demands of its successful partnership business. [Read More](#)

Kyle Demes Joins SFU as Director, Institutional Strategic Awards, to Support the University's Increasing Research Capacity

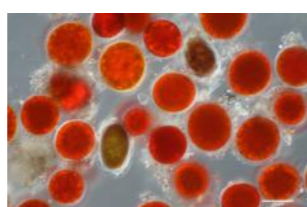
SFU



Kyle Demes (*pictured*) is a marine ecologist – and postdoctoral research fellow SFU alumnus – motivated by a desire to increase the impacts of research beyond singular research projects. He has been hired to enable research excellence across all disciplines, and in turn, support the rapidly growing research enterprise at the university. [Read More](#)

Understanding the Microbiome—Human, Animal, and Environmental

Genome BC



Observed globally in alpine and polar regions during the summer, 'watermelon' or red snow is caused by blooms of microscopic algae and their associated microbiome, including fungi, bacteria and viruses. Genome BC is funding research into the microbiome of the algae that causes red snow to provide a better understanding of how this microbiome persists in harsh environments, and its effect on the larger ecosystem. [Read More](#)

CDRD Re-Organizes to Align with Key Functions and Optimize Its Role as Canada's Life Sciences Venture

The Centre for Drug Research & Development



The CDRD announced a major operational re-organization designed to align CDRD's structure with its three key functions, and optimize its role as Canada's life sciences venture by: (1) Creating companies of scale; (2) Helping existing companies scale up; and (3) Training the next generation of life sciences innovators and leaders. [Read More](#)

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Interesting Articles

What Legal Weed in Canada Means for Science

Nature News



On October 17th, Canada became the second country in the world, after Uruguay, to legalize cannabis for all uses. And although a few other countries, most notably Israel, have made a concerted effort to support agricultural research into cannabis, full legalization in Canada has brought with it unparalleled access to money for basic research on the plant. [Read More](#)

Assessing Research Impact: Perspectives from a Provincial Health Research Funding Agency

Michael Smith Foundation for Health Research (MSFHR)



Assessing research impact is complex and challenging, but essential for understanding the link between research funding investments and outcomes both within and beyond academia. Dr. Julia Langton, MSFHR's Manager of Evaluation & Impact Analysis, provides an overview of how they approach research impact assessment at the Foundation, and some of the tools in their assessment toolbox. [Read More](#)

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Upcoming Events in Vancouver

- October 30**
 7:30 PM **Cafe Scientifique Vancouver**
 Yaggers' Downtown
- November 1 - 2**
 8:00 AM **Human Airway Epithelial Cell Training**
 STEMCELL Technologies
- November 2**
 7:00 PM **Nerd Nite North Van 1.2**
 Eagles Club
- November 3**
 8:00 PM **Science Slam**
 Cafe Deux Soleils
- November 5**
 7:45 AM **Creation of a Pan-Canadian Airway Network Conference**
 Sheraton Vancouver Wall Centre

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STEMCELL Jobs in Vancouver

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STEMCELL Technologies
- Research Associate, Bioinformatics**
STEMCELL Technologies
- Content Manager**
STEMCELL Technologies
- Scientific Marketing Specialist, Pulmonary**
STEMCELL Technologies
- Process Chemist, Nanoparticles**
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Precision Nanosystems
- Regional or Sr. Regional Medical Liaison, Cardiovascular**
Amgen
- Assistant Director, Quality Assurance**
Evonik
- Postdoctoral Fellow**
UBC / BC Children's Hospital Research Institute
- Research Technician, Yeast Innovation**
Renaissance BioScience Corp.

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