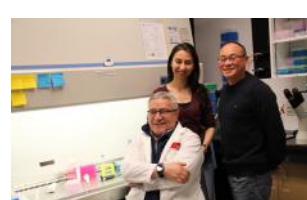


Publications of the Week

Mechanisms of Arrhythmogenicity of Hypertrophic Cardiomyopathy-Associated Troponin T Variant I79N

First Authors: Sanam Shafaatatab (pictured, middle), Alison Li, and Marvin Gunawan | Senior Author: Glen Tibbits (left) Frontiers in Cellular and Developmental Biology | SFU, BC Children's Hospital, and UBC



Hypertrophic cardiomyopathy is the most common heritable cardiovascular disease and often results in cardiac remodeling and an increased incidence of sudden cardiac arrest and death. In this study, a TNNT2 variant, I79N, was generated in human cardiac recombinant/reconstituted thin filaments to investigate the effect of the mutation on myofibrillar Ca²⁺ sensitivity and Ca²⁺ dissociation rate using steady-state and stopped-flow fluorescence techniques. [Abstract](#)

Quantitative Proteomic Screen Identifies Annexin A2 as a Host Target for Salmonella Pathogenicity Island-2 Effectors SopD2 and PipB2

First Author: Katelyn Knuff-Janzen | Senior Author: Brett Finlay (pictured) Scientific Reports | Michael Smith Laboratories and UBC



Intracellular pathogens need to establish an intracellular replicative niche to promote survival and replication within the hostile environment inside the host cell. The authors identified the host protein annexin A2 as a binding partner for secreted effector proteins SopD2 and PipB2, and were able to confirm its binding to SopD2 and PipB2 by reciprocal pull down. [Abstract](#)

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Awards

December 2021 Award Winners

Science in Vancouver



Dr. Curtis Suttle (pictured), a Professor of Botany, Earth, Ocean and Atmospheric Sciences, and Microbiology and Immunology at UBC, was appointed to the Order of Canada for "his innovative scholarship in the area of marine virology and for his mentorship of the next generation of scientists." See which other Vancouver scientists received awards, grants, and scholarships in December. [Read More](#)

Acuitas Therapeutics Co-Founder, Dr. Pieter Cullis, Named Officer of the Order of Canada

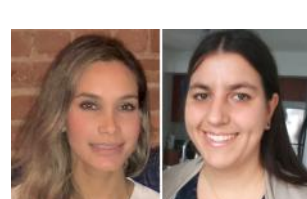
Acuitas



Acuitas Co-Founder Dr. Pieter Cullis (pictured) has been named an Officer of the Order of Canada for his contributions to the advancement of biomedical research and drug development, and for his mentorship of the next generation of scientists and entrepreneurs. For many decades, Dr. Cullis has led a research team at UBC, initially developing delivery systems for small molecule anticancer drugs and then focusing on novel nucleic acid therapeutics. [Read More](#)

Ashina Nagra and Cindy Shaheen Awarded 2021 Zymeworks Fellowship in Immunotherapeutics

Michael Smith Laboratories



Ashina Nagra (pictured, left) and Cindy Shaheen (right), both PhD candidates at UBC, were awarded the 2021 Zymeworks Fellowship in Immunotherapeutics. Created partly in recognition of the Noble laureate Dr. Michael Smith, this is the most prestigious internal award offered to graduate students of UBC's Department of Microbiology and Immunology and the Michael Smith Laboratories. [Read More](#)

Dr. Connie Eaves Appointed to the Order of Canada

BC Cancer Terry Fox Laboratory



The Governor General of Canada, Mary Simon, has announced the appointment of Dr. Connie Eaves (pictured) as an Officer of the Order of Canada. Dr. Eaves is a Distinguished Scientist at BC Cancer's Terry Fox Laboratory and Professor in the Department of Medical Genetics and the School of Biomedical Engineering at UBC. [Read More](#)

Dr. Peter Zandstra Appointed to Order of Canada

UBC Applied Science



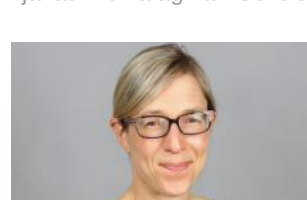
UBC School of Biomedical Engineering Director Dr. Peter Zandstra, whose work has led to major advancements in regenerative medicine and cell therapy, has been appointed to the Order of Canada. One of the country's highest civilian honours, the Order aims to recognize individuals "whose service shapes our society, whose innovations ignite our imaginations, and whose compassion unites our communities." [Read More](#)

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Local News

New Research Sheds Light on Role of Microbiome in Multiple Sclerosis

Djavad Mowafaghian Centre for Brain Health (DMCBH)



The gut microbiome — an array of microorganisms including bacteria, fungi, viruses and parasites — plays an important part in human health and likely plays a role in brain-based diseases. DMCBH researcher Dr. Helen Tremlett (pictured) collaborated with teams across Canada and the United States and found evidence that the gut microbiome might be involved in multiple sclerosis, the results of which were published in *Annals of Clinical and Translational Neurology*. [Read More](#)

Three MSL Members' Projects Highlighted on GlycoNet's Top 10 Stories of 2021

Michael Smith Laboratories



Three members of the Michael Smith Laboratories (MSL) had their research projects highlighted as part of the GlycoNet Top 10 Stories of 2021! Drs. Joerg Bohmann (pictured, left), Harry Bruner (center), and Stephen Withers (right) are all members of GlycoNet, "a pan-Canadian initiative bringing together researchers, industry and academic partners to develop solutions to unmet health needs through the study of glycomics." [Read More](#)

UBC Clinical Trial Supports New Self-Administered Rapid Antigen Test

UBC Faculty of Medicine



Principal investigator Dr. Sabrina Wong (pictured) and fellow researchers — including investigators Dr. Marc Romney and Dr. Don Sin of UBC's Faculty of Medicine and Providence Health and UBC School of Nursing's Dr. Kristen Haase — surveyed 689 participants at UBC's Vancouver campus. It was a part of a larger study that looked at the effectiveness of self-administration of rapid antigen testing amongst asymptomatic adults in Canada. [Read More](#)

BC Is Home to the Fastest-Growing Life Sciences Sector in Canada

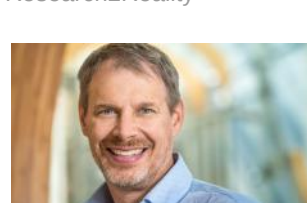
CanadianSME



Wendy Hurlburt (pictured), President and CEO of Life Sciences BC, talked with CanadianSME about the importance of BC's life sciences sector on a national level and the major areas of growth. She explained how BC's biggest challenges are space, talent, and investment, and talked about her plans to overcome them. [Read More](#)

Straight to the Source on Stem Cell Bioengineering

Research2Realty



Dr. Peter Zandstra (pictured) is such a pioneer in the field of stem cell bioengineering that he actually helped coin the term as a co-author of a 2001 publication on the topic. He is now the Director of the UBC School of Biomedical Engineering, and was recently appointed as a Companion Member of the Order of Canada for this work. [Read More](#)

UBC Scientists First in the World to Unveil Molecular-Level Analysis of Omicron Spike Protein

UBC Faculty of Medicine



Researchers at the UBC Faculty of Medicine are the first in the world to conduct a molecular-level structural analysis of the Omicron variant spike protein. The analysis — done at near atomic resolution using a cryo-electron microscope — reveals how the heavily mutated variant infects human cells and is highly evasive of immunity. Dr. Siram Subramaniam (pictured), Professor in UBC Faculty of Medicine's Department of Biochemistry and Molecular Biology, discusses the implications of his team's research. [Read More](#)

Characterizing Transcriptional Repressor Protein Capicua Function Using a Multi-Omics Approach

Canada's Michael Smith Genome Sciences Centre



Using CRISPR-Cas9 technology, researchers from Dr. Marco Marra's (pictured) lab generated C/C gene knockout immortalized human cell lines. Using their established cell lines, they assessed the transcriptomic and epigenomic changes following the loss of the C/C gene, which encodes Capicua, a transcriptional repressor protein implicated in neurodevelopment and oligodendroglioma. [Read More](#)

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Interesting Articles

NSERC Introduces New Alliance International Grants

National Sciences and Engineering Research Council of Canada (NSERC)



NSERC has announced the launch of the Alliance International grants, a new funding stream to support Canadian university researchers working with leading international academic researchers to establish and grow international research collaborations and projects of global importance that will generate benefits to Canada. [Read More](#)

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Upcoming Events in Vancouver

January 11 10:00 AM	Gairdner Webinar: Gut Peptides Drive Therapeutic Innovation Online
January 12 10:00 AM	MSL Seminar Series: January — Invited Speaker, Dr. Jilie Chai Online
January 12 12:00 PM	Patient-Oriented Research: Why, What, and How? Online
January 17 12:00 PM	Putting Cancer in Its Place VGH Research Pavilion
January 20 11:00 AM	AI in Med Lecture: Dr. Anne Martel Online

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STEMCELL Jobs in Vancouver

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- Process Development Manager
STEMCELL Technologies
- Scientific Recruiter
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- Lab Operations Assistant
STEMCELL Technologies

[View 67 Other STEMCELL Jobs](#)

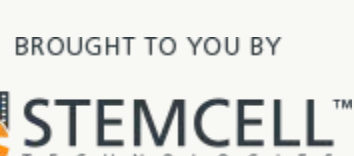
Other Science Jobs in Vancouver

- Fermentation Scientist
Renaissance BioScience
- Bioinformatician / Senior Bioinformatician
Boreal Genomics
- Postdoctoral Fellow
Canada's Michael Smith Genome Science Centre
- Research Associate, Immunology
UBC
- Project Manager
AbCellera

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Which Immune Cell Are You? [TAKE QUIZ](#)

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