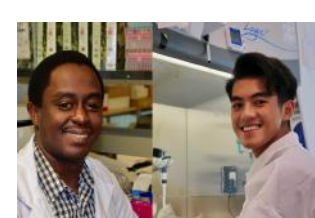


Publications of the Week

Variation in HIV-1 Nef Function within and among Viral Subtypes Reveals Genetically Separable Antagonism of SERINC3 and SERINC5

First Authors: Steven Jin (pictured, right) and Francis Mwimanzi (left) | Senior Authors: Zabrina Brumme and Mark Brockman
PLoS Pathogens | SFU and the BC Centre for Excellence in HIV/AIDS



HIV Nef counteracts cellular host restriction factors SERINC3 and SERINC5, but our understanding of how naturally occurring global Nef sequence diversity impacts these activities is limited. The authors quantified SERINC3 and SERINC5 internalization function for 339 Nef clones, representing the major pandemic HIV-1 group M subtypes A, B, C and D. [Profile](#) | [Abstract](#)

NSD1-Deposited H3K36me2 Directs De Novo Methylation in the Mouse Male Germline and Counteracts Polycomb-Associated Silencing

First Author: Kenjiro Shirane (pictured, back) | Senior Author: Matthew Lorincz (sixth from right)
Nature Genetics | UBC Life Sciences Institute



Oocytes and spermatozoa show distinct patterns of DNA methylation (DNAm). In mouse oocytes, de novo DNAm requires the lysine methyltransferase SETD2, which deposits H3K36me3. The authors have shown that SETD2 is dispensable for de novo DNAm in the male germline. Instead, the lysine methyltransferase NSD1, which broadly deposits H3K36me2 in euchromatic regions, plays a critical role in de novo DNAm in spermatogonia, including at imprinted genes. [Profile](#) | [Abstract](#)

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Awards

SFU Faculty of Science Receives Over \$1M in Research Funding from Canada Foundation for Innovation

SFU Faculty of Science



Molecular Biology and Biochemistry Professor Dr. Ly Yu (pictured) is among six researchers from the SFU Faculty of Science who have received funding from the Canada Foundation for Innovation (CFI). With \$1,000,000 in CFI-funded infrastructure, her research will provide the scientific foundation for developing a new strategy for eradicating leukemia stem cells to improve outcomes in acute myeloid leukemia patients. [Read More](#)

UBC Faculty of Medicine Researchers Receive \$15M from CIHR's Project Grant Program

UBC Medicine



Dr. Honglin Luo (pictured) is leading one of the twenty-two research projects led by researchers from the UBC Faculty of Medicine and affiliated health authority research centres who were awarded \$15 million from the Canadian Institute of Health Research (CIHR) Project Grant Spring 2020 competition. The Project Grant program supports researchers in building and conducting health-related research and knowledge translation projects, covering all areas of health. [Read More](#)

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Local News

An Inhaled Drug Cocktail Could Block COVID-19

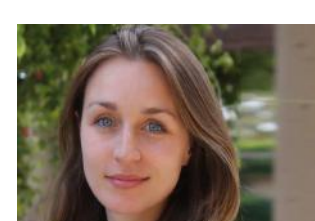
Vancouver Coastal Health Research Institute



An immunotherapy based on antibody research being developed by Vancouver Coastal Health Research Institute researcher Dr. Horacio Bach could provide short-term protection against the novel coronavirus, SARS-CoV-2. The team is developing single-chain antibodies that would neutralize proteins the COVID-19 virus employs to infiltrate cells — keys it uses to unlock cells in the body and destroy them. [Read More](#)

Award-Winning Canadian Tackles Bowel Disease and Diversity

Vancouver Sun



UBC's Dr. Carolina Tropini (pictured) had never intended to study bacteria before she started her PhD; in fact, not studying bacteria was her only requirement. Like most people, she saw bacteria as dirty, infectious agents that only carry pathogens. That all changed when she heard a Stanford University professor talk passionately about gut microbes and their role in human health. [Read More](#)

New Findings from Brown Lab on Independent Recruitment of PRC1 and PRC2 by Human XIST

UBC Life Sciences Institute



XIST establishes inactivation across its chromosome of origin, even when expressed from autosomal transgenes, according to a new pre-print from Dr. Carolyn Brown (pictured) and PhD candidate Thomas Dixon-McDougall at UBC. To identify the regions of human XIST essential for recruiting heterochromatic marks, the researchers generated a series of overlapping deletions in an autosomal inducible XIST transgene. [Read More](#)

Unleashing Canada's Radiopharmaceutical Excellence

adMare BioInnovations



The Centre for Probe Development and Commercialization (CPDC) and adMare BioInnovations have formed a new collaboration, The CPDC-adMare Radiopharmaceutical Initiative, to bring their respective resources together to advance an area of tremendous therapeutic and commercial potential in which Canada can gain a considerable global competitive advantage: radiopharmaceuticals. [Read More](#)

Bioprinted Therapeutic Offers Novel Solution for Treating Type 1 Diabetes

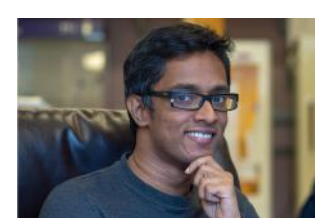
Genome BC



In a collaborative project with Dr. Timothy Kieffer of UBC, Vancouver-based company Aspect Biosystems is producing a bioprinted therapeutic of pancreatic cells surrounded by a protective layer that can be implanted in type 1 diabetes (T1D) patients. This could serve as an effective and scalable therapy for individuals with T1D, allowing them to move away from both daily insulin injections and long-term treatment with anti-rejection drugs. [Read More](#)

Genomics Study Uncovers a Novel Feature of Mantle Cell Lymphoma Biology

Canada's Michael Smith Genome Sciences Centre at BC Cancer



Mantle cell lymphoma (MCL) is a rare and incurable form of B cell non-Hodgkin lymphoma. To develop effective cancer therapies for the disease, a better understanding of how MCL cells develop and persist is essential. Prasath Pararajalingam (pictured) and colleagues at the Genome Sciences Centre used exome, genome and transcriptome sequencing to characterize MCL tumours and identify a novel feature of MCL biology. [Read More](#)

Pioneering B.C. HIV/AIDS Researcher Honoured on New Canada Post Stamp

Global News



A renowned British Columbia doctor is being celebrated for his pioneering work fighting HIV/AIDS with a new commemorative stamp. Dr. Julio Montaner (pictured) is one of six distinguished Canadian doctors and researchers whose faces will grace the new run of stamps from Canada Post. Montaner is recognized for his research work that helped turn HIV/AIDS from a death sentence to a manageable condition, with near-normal life expectancy. [Read More](#)

Interim Data Reported for AbCellera-Discovered COVID-19 Antibody in Phase 2 Clinical Trials

AbCellera



AbCellera has announced that interim data from a Phase 2 clinical trial of LY-CoV555, the first antibody to emerge from AbCellera's collaboration with Eli Lilly and Company to create antibody therapies for the prevention and treatment of COVID-19, shows a reduction in the rate of hospitalization in patients treated with the antibody. [Read More](#)

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Interesting Articles

Mitacs and All India Council for Technical Education Pair Graduate Students to Canadian Companies

Mitacs



Representatives of India and Canada have expanded their existing partnership that extends student mobility and enhances research collaborations between academia and industry. The new agreement between All India Council for Technical Education and Mitacs enables 30 master's students to participate in research exchanges in Canada through Mitacs's internship program. [Read More](#)

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Upcoming Events in Vancouver

September 29-30 8:00 AM	2020 BCRegMed 4 th Annual Symposium Online
October 1 11:00 AM	UBC School of Biomedical Engineering Distinguished Lecture: Dr. Tejal Desai Online
October 1 11:00 AM	UBC Career Day Online
October 6-7 8:00 AM	Foundations of Project Management Online
October 15 4:00 PM	Science Grand Slam 2020 Online

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STEMCELL Jobs in Vancouver

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STEMCELL Technologies
- Manufacturing Technologist, Clean Room
STEMCELL Technologies
- Process Development Associate
STEMCELL Technologies
- Senior Quality Assurance Specialist
STEMCELL Technologies
- Manufacturing Technician, Sterilization
STEMCELL Technologies

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Other Science Jobs in Vancouver

- Research Scientist, Cell Engineering
AbCellera
- Scientific Inside Sales Manager
Precision NanoSystems
- Lecturer and Laboratory Instructor, Pharmaceutical Sciences
UBC Faculty of Pharmaceutical Sciences
- Scientist III, iPSC Differentiation
Notch Therapeutics
- Postdoctoral Fellow, Proteome Modulation and Signalling in the Cancer Microenvironment
BC Children's Hospital Research Institute

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Free Wallchart: SARS-CoV-2 Structure and Life Cycle [REQUEST A COPY](#)

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