

Publications of the Week

Human *De Novo* Mutation Rates From a Four-Generation Pedigree Reference

First Author: David Porubsky | Senior Authors: Peter Lansdorp (*pictured*), Deborah Neklason, Lynn Jorde, Aaron Quinlan, Michael Eberle, and Evan Eichler
Nature | BC Cancer Agency and UBC



Understanding the human *de novo* mutation rate requires complete sequence information. Here, using five complementary short-read and long-read sequencing technologies, researchers phased and assembled more than 95% of each diploid human genome in a four-generation, twenty-eight-member family.

[Abstract](#) | [Video](#)

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Awards

Three MSL Members Receive 2025 Pathway to Independence Award

UBC Michael Smith Laboratories (MSL)



The MSL Pathway to Independence Award aims to support the research and career development of outstanding MSL Postdoctoral Fellows and Research Associates. Three individuals have been selected for this award in 2025: Drs. Jeff Doherty, Tiam Heydari, and Morito Sakuma (*pictured*). They will lead new projects aligned with their future career research focuses. [Read More](#)

Dr. Pamela Hoodless Receives NSERC Discovery Grant

BC Cancer Research



Dr. Pamela Hoodless (*pictured*) has received a Discovery Grant from the Natural Sciences and Engineering Research Council of Canada (NSERC). Dr. Hoodless, a distinguished researcher and the Interim Head of Basic and Translational Research at BC Cancer, will use the grant to support her work in defining cell lineages and plasticity in the developing liver. [Read More](#)

Dr. Douglas Allan Receives Co-Funded Grant from Alzheimer Society and Brain Canada

UBC Life Sciences Institute



UBC Life Sciences Institute researcher Dr. Douglas Allan (*pictured*) has been awarded a Proof of Concept Grant through the Alzheimer Society Research Program, co-funded by the Brain Canada Foundation. Dr. Allan's project aims to accelerate the identification of harmful Tau gene mutations associated with dementia. [Read More](#)

Innovation and Translational Research Awards 2025 Recipients

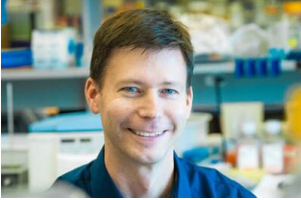
Vancouver Coastal Health Research Institute (VCHRI)



Taking innovative research from concept to application is critical for improving health care systems and well-being of patients. VCHRI is supporting investigators and their groundbreaking health research with the Innovation and Translational Research Awards. Among this year's eight awardees is Dr. Joanne Matsubara (*pictured*). [Read More](#)

UBC Scientists Receive New Funding for Stem Cell and Regenerative Medicine Research

UBC Faculty of Medicine



UBC Faculty of Medicine scientists have been awarded more than \$1.8 million from the Stem Cell Network for leading seven projects advancing stem cell and regenerative medicine. Three projects involving Faculty of Medicine researchers as co-investigators and collaborators were also awarded a combined \$1.03 million. Among the cohort of awardees is Dr. Timothy Kieffer (*pictured*). [Read More](#)

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Local News

SFU Team Joins International Effort to Track and Monitor Infectious Diseases

SFU News



Researchers from SFU are joining an international collaboration to improve how infectious diseases are tracked and monitored. "The importance of genome sequencing really came to the fore during the COVID-19 pandemic, when new variants were constantly spreading and evolving," says SFU's Dr. Caroline Colijn (*pictured*) who is co-leading part of the project. [Read More](#)

Brain Canada Invests in ICORD's SCI Biobank

International Collaboration on Repair Discoveries (ICORD)



Brain Canada announced its support for two pioneering neuroscience research platforms at UBC through its Platform Support Grants program, including an expansion of the International Spinal Cord Injury (SCI) Biobank, headed by Dr. Brian Kwon (*pictured*), at ICORD. These investments aim to accelerate discovery and foster open science, positioning Canada at the forefront of global neuroscience health innovation. [Read More](#)

Internationally Renowned Clinician-Scientist to Lead Faculty of Medicine and UBC Health

UBC Faculty of Medicine



Dr. Sharmila Anandasabapathy (*pictured*), a leading clinician-scientist whose work spans cancer detection, biomedical engineering, and global health, will be joining UBC as the new Dean of the Faculty of Medicine and Vice-President of Health. Dr. Anandasabapathy is known for developing and validating low-cost, scalable technologies to improve early detection of gastrointestinal cancers. [Read More](#)

New Research Reveals How Prostate Cancer Becomes More Aggressive—and How to Reverse It

M.H. Mohseni Institute of Urologic Sciences



A new study led by Drs. Christopher Ong and Yuzhuo Wang (*pictured*) has uncovered a key mechanism behind how prostate cancer transforms into a more dangerous form known as neuroendocrine prostate cancer. This change, often triggered by standard hormone therapies, makes the disease more resistant to treatment. [Read More](#)

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📅 Upcoming Events in Vancouver

July 17 5:00 PM	The Life Sciences Data Association Vancouver Vancouver Prostate Centre
July 17 5:00 PM	Beaty Nocturnal Beaty Biodiversity Museum
August 14 12:00 PM	CBR – LSI Research Day 2025 UBC Life Sciences Centre
August 14 6:00 PM	After Dark: Sparks and Rec — Summer Party Edition Science World
October 2 5:00 PM	27th Annual Life Sciences BC Awards Vancouver Convention Centre West

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📁 Science Jobs in Vancouver

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