

Publications of the Week

Widespread and Cell-Type-Specific Transcriptomic Reorganization Following Mild Traumatic Brain Injury

First Authors: Aditya Swaro (*pictured, left*), Brianna Bristow, and Mehwish Anwer | Senior Author: Mark Cembrowski (*right*)
Cell Reports | Djavad Mowafaghian Centre for Brain Health and UBC



Knowledge of how traumatic brain injury (TBI) alters the brain is urgently needed. Here, researchers employ the murine closed-head impact model of engineered rotational acceleration (CHIMERA) TBI model to produce mild, diffuse TBI reproducibly across mice in the subacute phase and apply spatial transcriptomics to study the multiscale effects of TBI. [Abstract](#)

Sensitivity of Diffusion Tensor Imaging to Regional Mixed Cerebrovascular Pathology

First Author: Jennifer Ferris (*pictured*) | Senior Author: Lara Boyd
Brain Communications | Djavad Mowafaghian Centre for Brain Health, UBC, and SFU



Diffusion tensor imaging is a candidate biomarker in cerebrovascular disease. Yet, little is known about the sensitivity of diffusion tensor imaging to mixed forms of cerebrovascular pathology: stroke and white matter hyperintensities. Researchers evaluated the sensitivity of diffusion tensor imaging to regional lesion load, considering both stroke and white matter hyperintensity lesions. [Abstract](#)

[View All Publications](#)

Awards

Dr. Brett Finlay Recognized with John McNeill Excellence in Health Research Mentorship Award

UBC Michael Smith Laboratories



Dr. Brett Finlay (*pictured*) has been awarded the 2024 John McNeill Excellence in Health Research Mentorship Award, recognizing his outstanding mentorship of the trainees in his lab. This award, holding a value of \$10,000, is awarded annually by the UBC Faculty of Pharmaceutical Sciences in honour of Dean Emeritus John McNeill. [Read More](#)

UBC Medicine Faculty Members Appointed to the Order of Canada

UBC Faculty of Medicine



UBC Faculty of Medicine community members Drs. Allison Eddy (*pictured*), Lorraine Greaves, and Bonnie Henry were recently appointed to the Order of Canada. Considered one of the country's highest honours, the Order of Canada recognizes people across all sectors of society who have made extraordinary and sustained contributions to the country. [Read More](#)

TFRI Celebrates Induction of Dr. Nadine Caron Into the Canadian Medical Hall of Fame

Terry Fox Research Institute (TFRI)



A long-time Terry Fox supporter and prominent surgeon, leader, and advocate for Indigenous health and research, Dr. Nadine Caron (*pictured*) has been inducted into the Canadian Medical Hall of Fame. The honour recognizes her trailblazing work as a surgeon, scholar, and advocate for health equity. A member of the Sagamok Anishnawbek First Nation, Dr. Caron broke new ground as the first Indigenous woman to become a general surgeon in Canada. [Read More](#)

Top Graduating Doctoral Student Award and Rising Star Award 2025 Recipients

Vancouver Coastal Health Research Institute (VCHRI)



VCHRI supports future research leaders with the Top Graduating Doctoral Student Awards and the Rising Star Awards. These awards recognize the outstanding efforts of VCHRI trainees whose pursuit of research has made them exceptional role models and significant contributors to the Vancouver research community. Among the five recipients is Aysha Allard Brown (*pictured*). [Read More](#)

Award-Winning Research Targets Lin28 to Fight Drug-Resistant Cancers

Vancouver Prostate Centre



The Vancouver Prostate Centre congratulates Victor Barrios (*pictured*) from Dr. Xuesen Dong's lab for receiving the Canadian Institutes of Health Research's Doctoral Research Award: Canada Graduate Scholarships. Barrios's award-winning research focuses on a promising new approach to cancer treatment by targeting a protein called Lin28. [Read More](#)

[View All Featured Awards](#) | [View All Monthly Award Summaries](#)

Local News

Study Reveals That Sucrose May Not Reduce the Impact of Neonatal Pain Exposure on Long-Term Outcomes

BC Children's Hospital Research Institute (BCCHR)



Research shows that infant exposure to daily pain is associated with poorer behavioural and cognitive outcomes later in life, so hospitals have pain management strategies in place such as oral sucrose. Dr. Manon Ranger (*pictured*) and her team at UBC have found that providing sucrose to preterms in the neonatal intensive care unit doesn't reduce these negative effects of pain exposure in the long term. [Read More](#)

Bacterial Fingerprints in Soil Show Where Copper Is Buried

UBC News



Researchers at UBC have identified buried copper ore by testing the DNA of microbes in the surface soil. These 'biological fingerprints' can reveal copper-containing ore buried tens of metres below the earth's surface without having to drill. This new application of DNA-sequencing technology shows the importance of interdisciplinary approaches for genomic research. [Read More](#)

Smart Wearables for Faster Cardiac Arrest Emergency Response

Vancouver Coastal Health Research Institute (VCHRI)



A pioneering study led Drs. Calvin Kuo and Mahsa Khalili (*pictured*) has demonstrated that consumer wearable technology may hold the key to transforming how out-of-hospital cardiac arrests are detected, potentially saving countless lives. The study's findings pave the way for Canadian-made technological advances to alert emergency response personnel as soon as a cardiac arrest occurs. [Read More](#)

Hitting the Right Target – SFU Study Sheds Light on How Drug Used to Treat Parkinson's Disease Affects the Brain

SFU News



SFU researchers led by Dr. Alex Wiesman (*pictured*) are using a new approach to brain imaging that could improve how drugs are prescribed to treat Parkinson's disease. The new study, published in the journal *Movement Disorders*, looks at why levodopa—the main drug used in dopamine replacement therapy—is sometimes less effective in patients. [Read More](#)

[View All Local News](#) | [Submit an Article](#)

Interesting Articles

New adMare Institute Report Examines Capital Flows in Canadian Life Sciences and the Urgent Need to Capture Domestic Economic Value

adMare Bioinnovations



Canada has developed a world-class life sciences sector, but without stronger domestic investment, much of the economic value and intellectual property it generates is flowing abroad. The second white paper from the adMare Institute, "Does Canada Own its Life Sciences Future?", analyzes investment flows across various deal stages, investor types, and origins, providing a comprehensive view of Canada's therapeutics funding landscape. [Read More](#)

[View All Interesting Articles](#) | [Submit an Article](#)



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

[View All Events](#) | [Submit an Event](#)



Science Jobs in Vancouver

Research Associate

UBC

Staff Scientist/Leader, Integrated Mouse Modelling Services

BC Cancer

Postdoctoral Researcher

SFU

Associate Senior Technician, Formulation

Cytiva

Clinical Trial Associate I/II

Xenon Pharmaceuticals

[View 70 Other Science Jobs](#) | [Submit a Job](#)



STEMCELL Jobs in Vancouver

Process Engineer

STEMCELL Technologies

Recruiter

STEMCELL Technologies

[View 5 Other STEMCELL Jobs](#)

Free Templates and Checklists for Scientific Presentations



[REQUEST A COPY >](#)

Submit your articles and events by reaching out to us at info@scienceinvancouver.com.

BROUGHT TO YOU BY



STEMCELL Technologies

Products | Services

STEMCELL Science News

Free Weekly Updates on Your Field

The Stem Cell Podcast

Interviews and Updates on Stem Cell Science