

Publications of the Week

Single-Cell Spatial Atlas of the Aging Human Breast

First Authors: Pulkit Gupta and Eric Lee | Senior Authors: Samuel Aparicio (pictured) and H. Raza Ali
Nature Aging | BC Cancer and UBC



Breast cancer can develop over a wide age range and tumours in younger women differ from those in older women. Aging alters the spatial context of early tumors and may explain these differences. Here, using imaging mass cytometry to profile the spatial expression of 40 proteins, researchers explore age-related remodeling of normal breast tissues in over 3 million cells from 527 reduction mammoplasties.

[Abstract](#) | [Press Release](#)

Drugging the Intrinsically Disordered Transactivation Domain of Androgen Receptor

First Author: Jon Obst | Senior Author: Marianne Sadar (pictured)
Signal Transduction and Targeted Therapy | BC Cancer and UBC



Androgen receptor (AR) is a therapeutic target for prostate cancer. Despite effectively targeting its folded ligand-binding domain, resistance ultimately develops by mechanisms involving reactivation of AR signaling. Leveraging a library of AR-TAD inhibitors using cultured prostate cancer cells and multiple xenograft models, researchers reveal that small alterations in the chemical scaffold impact selectivity and potency within the AR-transcriptome.

[Abstract](#) | [Press Release](#)

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Awards

Congratulations CIHR Fall 2025 Research Grant Recipients

BC Children's Hospital Research Institute (BCCHR)



Congratulations to BCCHR and Women's Health Research Institute investigators and their teams who were awarded funding through the Canadian Institutes of Health Research (CIHR) Fall 2025 Project Grant competition. BCCHR received \$2,609,749 in new research grants, including seven Project Grants and three Priority Announcement grants. Among the numerous awardees is Dr. Caitlin Chang (pictured).

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New CREATE Program Led by Drs. Sarah Hedtrich and Govind Kaigala

UBC School of Biomedical Engineering



The Natural Sciences and Engineering Research Council of Canada has announced major new funding through its Collaborative Research and Training Experience (CREATE) program, supporting the development of innovative training initiatives across Canada. Among the funded projects is a new program led by Drs. Sarah Hedtrich (pictured, right) and Govind Kaigala (left) at UBC.

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Local News

Neurons Store and Use Lipids for Energy, Reshaping Understanding of Brain Health and Metabolism

UBC Faculty of Medicine

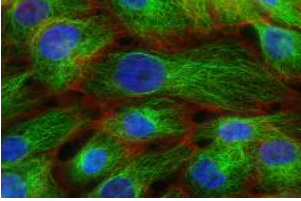


Researchers at the UBC Faculty of Medicine have discovered that brain cells store and use lipids as an energy source, challenging long-held assumptions about how the brain meets its energy needs and opening new avenues for understanding and treating metabolic and neurological diseases. The new study was led by Dr. Elizabeth Rideout (pictured).

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Canadian Team Advances Breakthrough “Living” Cancer Diagnostic Platform Following National Genomics Applications Partnership Program Funding

Canada's Michael Smith Genome Sciences Centre



Genetrack Biolabs, working in partnership with Canada's Michael Smith Genome Sciences Centre as part of a landmark research–industry collaboration, has announced the development of a revolutionary cancer testing platform called GenTraceDx™. Instead of providing a single snapshot of someone's cancer, this innovative technology delivers ongoing genomic updates.

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How Dr. Marissa Lithopoulos Built Science, Stand-Up, & Song

Djavad Mowafaghian Centre for Brain Health



On a clear summer evening in August, the air buzzed with excitement as guests bustled into The Charqui, a quaint neighborhood resto-bar, for the first of what would become a series of sold-out events. Two weeks before her own wedding, Dr. Marissa Lithopoulos (pictured) organized the very first “Science, Stand-up & Song” event in Vancouver. A stem cell scientist by day and a stand-up comedian and musician by night, she is on a mission to make us all love science.

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Behind the Lab Doors: Investigating Blood Biomarkers as a Window Into Brain Health at Wellington Laboratory

Vancouver Coastal Health Research Institute



Brain-derived biomarkers measured in the blood have the potential to transform diagnosis and prognosis for neurological conditions, while improving accessibility and reducing the need for patient travel. Researchers at Dr. Cheryl Wellington's (pictured) laboratory are using simple blood tests to bolster our understanding of neurological conditions and brain health.

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COVID Antiviral Speeds Recovery, but Doesn’t Reduce Hospitalization in Vaccinated Patients

UBC Faculty of Medicine



The COVID antiviral drug Paxlovid can help people recover faster, but does not reduce hospital admissions or deaths in vaccinated adults at higher risk of severe COVID-19, according to new results from two clinical trials. “This study underscores the importance of continuously evaluating treatments in the context of an evolving pandemic,” said co-investigator Dr. Srinivas Murthy (pictured).

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Bridge Research Consortium Report Highlights Perspectives, Recommendations on mRNA Technology in Canada

SFU Faculty of Health Sciences (FHS)



Canada has become a global leader in the development of mRNA medicines; however mRNA technologies have been targeted by increasing partisan polarization. The Bridge Research Consortium, co-led by SFU FHS Professor Kelley Lee and Université Laval Professor Ève Dubé, seeks to better understand public sentiment around mRNA technology to strengthen public trust.

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Upcoming Events in Vancouver

May 6

7:30 AM

Genome BC's 2026 Annual Genomics Forum: Resilience By Design

UBC Robson Square

May 6

10:00 AM

The Power of Citizen Science to Help BC Native Bees

VPL Kerrisdale Branch

May 11

8:30 AM

2026 BCRegMed 9th Annual Symposium

AMS Student Nest

May 13

4:00 PM

2026 UBC Science Research Mixer

Robert H. Lee Alumni Centre

May 21

4:30 PM

McCarthy Spotlight Speaking Series

McCarthy Tetrault LLP

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Science Jobs in Vancouver

Data Scientist

Xenon Pharmaceuticals

Biomedical Test Engineering Co-Op

Kardium Inc.

Research Coordinator

UBC

Scientist II, Analytical Development

Cytiva

Research Associate

BC Brain Wellness Program, UBC

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STEMCELL Technologies

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STEMCELL Technologies

Senior Operations Associate, Biospecimens

STEMCELL Technologies

Senior Scientist (Stem Cell Engineering)

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