

Publications of the Week

Integrated Proteomic Analysis of Low-Grade Gliomas Reveals Contributions of 1p-19q Co-Deletion to Oligodendroglioma

First Author: Derek Wong | Senior Author: Stephen Yip (pictured)
Acta Neuropathologica Communications | Vancouver General Hospital, BC Cancer Agency, and UBC



Diffusely infiltrative low-grade gliomas (LGG) are primary brain tumours that arise predominantly in the cerebral hemispheres of younger adults. LGG can display either astrocytic or oligodendroglial histology and do not express malignant histological features. The authors utilize low grade glioma RNA-sequencing data from the Cancer Genome Atlas and tandem mass-spectrometry on an in-house cohort of 54 formalin-fixed paraffin-embedded LGG specimens to investigate the transcriptomic and proteomic profiles across the three molecular subtypes of LGG.

[Abstract](#)

Protein Interaction Networks in Neurodegenerative Diseases: From Physiological Function to Aggregation

First Author: Gaetano Calabrese | Senior Author: Thibault Mayor (pictured)
Journal of Biological Chemistry | Michael Smith Laboratories and UBC



The accumulation of protein inclusions is linked to many neurodegenerative diseases that typically develop in older individuals, due to a combination of genetic and environmental factors. While the underlying mechanism leading to rare familial neurodegenerative disorders still remains to be fully elucidated, efforts in the past 20 years revealed a vast network of protein-protein interactions that play a major role in regulating the aggregation of key proteins associated with neurodegeneration.

[Abstract](#)

[View All Publications](#)

Awards

ECE PhD Student Mohammad Jafari, Governor General's Gold Medal Winner

UBC Department of Electrical and Computer Engineering (ECE)



Congratulations to ECE PhD student Mohammad Jafari (pictured), who has been awarded the 2022 Governor General's Gold Medal! Mohammad's high-achieving studies took place under Dr. Purang Abolmaesumi at the Robotics and Control Laboratory, where he studied deep learning for medical imaging. After graduation, he will continue his investigations into artificial intelligence as Technical Director of Artificial Intelligence at Aspect Biosystems. [Read More](#)

Dr. Judy Illes Named Distinguished Scholar for Outstanding Contributions in Neuroethics

UBC Faculty of Medicine



Neurology Professor Dr. Judy Illes (pictured) has been appointed the first UBC Distinguished Scholar in Neuroethics in recognition of her outstanding contributions to the field of neuroethics. A pioneer in her field, Dr. Illes — who is also a Distinguished University Scholar and Director of Neuroethics Canada — has made ground-breaking contributions to the ethical, legal, social, and policy challenges at the intersection of the brain sciences and biomedical ethics. [Read More](#)

UBC Medicine Community Members Recognized for Advancing BC as a Global Leader in Clinical Trials

UBC Faculty of Medicine



On May 19, members of the UBC Medicine community were recognized by Clinical Trials BC for outstanding contributions to clinical trials and health research in the province. Dr. Robert McMaster (pictured) was awarded the Clinical Trials BC Leadership & Advocacy Award which honours outstanding leaders and advocates for clinical trials at the local, provincial, or national level. [Read More](#)

Dr. Leonard Foster Receives Tony Pawson Proteomics Award

Life Sciences Institute



The Canadian National Proteomics Network (CNPN) has named Dr. Leonard Foster (pictured) from UBC Biochemistry and Molecular Biology and Michael Smith Labs as its 2022 recipient of the Tony Pawson Proteomics Award. Presented at the CNPN annual meeting held in Montreal from May 16-18th, 2022, the award recognized Dr. Foster's lifetime contributions to the developments of proteomics technologies. [Read More](#)

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

Local News

Terry Fox Laboratory Celebrates 40 Years

BC Cancer



On Monday, May 16, the Terry Fox Laboratory (TFL) hosted its 40 year anniversary event. Since its establishment in 1981, TFL has developed an international reputation for research exploring the molecular mechanisms and pathways involved in the regulation of cell renewal systems. The celebration event included highlights from Drs. Allen Eaves (pictured, right) and Connie Eaves (left). [Read More](#)

Dr. Reinhild Kappelhoff Champions Lab Sustainability with Glove and Mask Recycling Project

The Centre for Blood Research



Dr. Reinhild "Reini" Kappelhoff (pictured) is making labs greener at UBC, one sustainability project at a time. With \$1000 from the Workplace Sustainability Fund, she was able to purchase seven boxes for mask and glove recycling, which she then distributed to different Centre for Blood Research labs. Once these boxes are full, they will be sent to a recycling company in Burnaby called Vitacore. [Read More](#)

Professional 'Guilds' of Bacteria Gave Rise to the Modern Microbiome

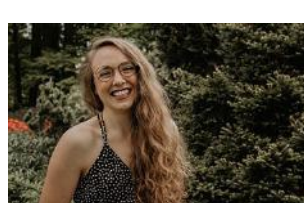
UBC Science



Even the smallest marine invertebrates — some barely larger than single-celled protists — are home to distinct and diverse microbial communities, according to new research from UBC biologists. A new study from Dr. Patrick Keeling's (pictured) lab underscores that a vast diversity of animals have microbiomes, just as humans do. But more surprisingly, there's little correlation between how closely related most animals are and how similar their microbiomes are. [Read More](#)

A Day in the Life of a Honeybee Scientist

Centre for Blood Research



Abigail Chapman (pictured) is a third year PhD student at UBC in the Department of Biochemistry and Molecular Biology and the Centre for Blood Research, under the supervision of Dr. Leonard Foster. Within the lab, she's researching how viral infections affect the reproductive ability of honeybee queens. When Abbi is not working with bees, she can usually be found outside — skiing, hiking, biking, or backpacking. [Read More](#)

Bacteria Could Transform Paper Industry Waste into Useful Products

Canadian Light Source



Dr. Lindsay Ellis (pictured), a Professor in the Department of Microbiology and Immunology at UBC, and his team, are studying how bacteria transform wood-derived compounds into useful chemicals. Harnessing this process could lead to new, eco-friendly biotechnologies. The researchers used the Canadian Light Source at the University of Saskatchewan to study an enzyme that breaks down the ring structures found in lignin, a major component of the woody biomass that is burned by the pulp and paper industry. [Read More](#)

Genomic Analysis of Adrenocortical Cancer Identifies Treatment Targets

Canada's Michael Smith Genome Sciences Centre



A recent publication from BC Cancer's Personalized OncoGenomics program describes the genomic profiles of seven advanced adrenocortical cancer tumours. "Our work highlights several therapeutic avenues for a rare, aggressive malignancy with no established therapy for patients who relapse or stop responding to initial treatments," says Dr. Veronika Cizmok (pictured), co-first author of the publication. [Read More](#)

People in Profile: Ali Madhi

Vancouver Coastal Health Research Institute (VCHRI)



Ali Madhi (pictured) works in the VCHRI Clinical Research Unit as a research technician. He performs phlebotomy on research participants and manages all the laboratory's processing and maintenance. He is also involved in the ethical and regulatory aspects of studies. He grew up in Tehran, Iran, and obtained his Bachelor of Science in Cellular and Molecular Science at Azad University and his Master of Science in Microbiology at Shahid Beheshti University. [Read More](#)

Two Pathogens Linked to Salmon Health and Survival in BC

UBC News



Many wild salmon populations in BC have experienced substantial declines over the last three decades. New UBC research can help chart a course towards better protection of wild salmon. The study, led by UBC Faculty of Forestry member Dr. Arthur Bass, and using data generated by the Strategic Salmon Health Initiative, assessed dozens of pathogens in thousands of Chinook and Coho salmon sampled over a decade along the BC coast. [Read More](#)

UBC Recruits New Faculty Member Dr. Govind Kaigala

UBC School of Biomedical Engineering



The UBC School of Biomedical Engineering (SBME) and the UBC Life Sciences Institute (LSI) are excited to announce the recruitment of Dr. Govind Kaigala (pictured). As a faculty member in both SBME and LSI, Dr. Kaigala will lead and encourage cross-disciplinary collaboration between scientists and research initiatives housed in these two integral pillars of the BC life sciences community. [Read More](#)

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

Interesting Articles

Pan-Canadian Genomics Strategy Consultation Launched

Genome Canada



The Government of Canada has launched a public consultation to inform a new Pan-Canadian Genomics Strategy (PCGS), announced on May 24, 2022 by Innovation, Science, and Economic Development Canada. Recognizing the strengths and importance of Canada's genomics ecosystem for the health and prosperity of Canadians, Budget 2021 announced \$400 million over six years to support the new PCGS — kick-started by a \$136.7 million investment in Genome Canada's challenge-driven programming. [Read More](#)

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

Upcoming Events in Vancouver

May 31 9:00 AM	What Has Gone Wrong with Publication Practices? Online
June 1 12:00 PM	BC-CFE Celebrates 30 Years of Excellence Online
June 7 9:00 AM	SBME Annual Symposium Life Sciences Centre and Online
June 7 4:00 PM	What's New in Spinal Cord Repair? Online
June 8 9:00 AM	SBME Research Day Life Sciences Centre and Online

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

STEMCELL Jobs in Vancouver

Associate Director / Director, Product Management Instrumentation
STEMCELL Technologies

Senior Program Manager, Quality Assurance, Human Biological Material
STEMCELL Technologies

Senior Quality Assurance Specialist
STEMCELL Technologies

Project Manager, Business Operations
STEMCELL Technologies

Process Development Associate
STEMCELL Technologies

[View 86 Other STEMCELL Jobs](#)

Other Science Jobs in Vancouver

Bioinformatician
AbCellera

Research Technician, Preclinical & Translational Research
Qu Biologics

Postdoctoral Research Fellow, Endometriosis
UBC

Director of Research and Development, Nucleic Acid Therapeutics
Cytiva

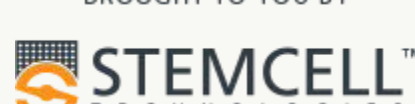
Associate Scientist, Discovery Protein Science
Amgen

[View 47 Other Science Jobs](#) | [Submit a Job](#)

Win a Bluetooth Speaker!
Subscribe to our newsletter for a chance to win.

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