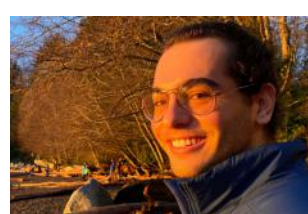


Publications of the Week

Cell Trajectory Modelling Identifies a Primitive Trophoblast State Defined by Basal Cell Adhesion Molecule Enrichment

First Author: Matthew Shannon (pictured) | Senior Author: Alexander Berstain
Development | BC Children's Hospital and UBC



In early placental development, progenitor cytotrophoblasts differentiate along one of two cellular trajectories: the villous or extravillous pathways. The authors established a single cell RNA sequencing dataset from first trimester placentas to identify cell states important in trophoblast progenitor establishment, renewal, and differentiation. [Profile](#) | [Abstract](#)

Transiently Hypoxic Tumour Cell Turnover and Radiation Sensitivity in Human Tumour Xenografts

First Author: Brennan Wadsworth | Senior Author: Kevin Bennewith (pictured)
British Journal of Cancer | BC Cancer and UBC



The authors investigated the *in vivo* lifetime of transiently hypoxic tumour cells and chronically hypoxic tumour cells during tumour growth and following irradiation. Transiently hypoxic tumour cells survived up to 72 hours in WDr tumours and were radiation-resistant, although transiently hypoxic cells were sensitive to vascular dysfunction induced by high doses of ionising radiation. [Abstract](#)

[View All Publications](#)

Awards

BCCHR Researchers Awarded CIHR Funding to Mitigate COVID-19 Pandemic Impacts on Children, Youth, and Families

BC Children's Hospital Research Institute



Congratulations to the BC Children's Hospital Research Institute (BCCHR) investigators and their teams who were awarded funding through the Canadian Institutes of Health Research (CIHR) Operating Grant: Understanding and mitigating the impacts of the COVID-19 pandemic on children, youth, and families in Canada. Dr. Sarah Merrill (pictured) is investigating the epigenetic impacts of COVID-19 pandemic chronic stress on youth. [Read More](#)

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Local News

HIV Cure Research Advanced with Deeper Knowledge of Viremic Controllers

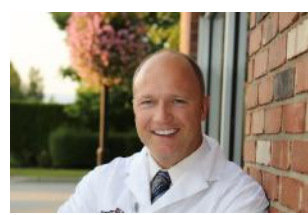
BC Centre for Excellence in HIV/AIDS (BCCIE)



Hanwei Sudderuddin (pictured, left) and F. Harrison Omondi (right) at BCCIE have published new research that characterizes in detail the HIV sequences that persist in the bodies of viremic controllers. Viremic controllers are a rare group of people whose immune systems naturally control HIV replication to low levels, but who nevertheless still benefit from antiretroviral therapy. [Read More](#)

Vancouver Coastal Health Research Institute Recognized as One of Canada's Top Hospital-Based Research Institutes

Vancouver Coastal Health Research Institute



Research Infosource, a Canadian consulting firm, has released its annual ranking of Canada's top 40 research hospitals. The Vancouver Coastal Health Research Institute (VCHRI), combined with Providence Research, is ranked fifth, with \$164.7 million in research funding for 2021. "The research culture at Vancouver Coastal Health is grounded in knowledge exchange, collaboration, and innovation," says Dr. David Granville (pictured), VCHRI Executive Director. [Read More](#)

The True Joy of Intellectual Freedom

Research2Reality



Dr. Dena Shahriari (pictured) is an Assistant Professor at the School of Biomedical Engineering at UBC. Her research involves both engineering and medicine in pursuit of tackling major disabilities. Research2Reality asked her about everything from her admiration for the poet Ferdowsi Tusi, to her mother being the inspiration for her career direction, in hopes of gaining a better understanding of what goes on outside the lab for one of the best minds in Canadian research. [Read More](#)

Xenon Pharmaceuticals Announces Collaboration with Neurocrine Biosciences Achieves \$15 Million Regulatory Milestone

Xenon Pharmaceuticals



Xenon Pharmaceuticals has announced that its collaboration to develop treatments for epilepsy with Neurocrine Biosciences achieved a regulatory milestone, which has triggered an aggregate payment of \$15 million to Xenon. The US Food and Drug Administration accepted Neurocrine's protocol amendment that expands the study population in the ongoing Phase 2 randomized, double-blind, placebo-controlled study to evaluate NBI-921352 in pediatric patients with SCN8A developmental and epileptic encephalopathy. [Read More](#)

Remdesivir for COVID-19 Found to Reduce Need for Mechanical Ventilation

UBC Faculty of Medicine



The Canadian arm of the world's largest randomized control trial on COVID-19 therapeutics has shown that the antiviral medicine remdesivir reduces the need for mechanical ventilation in hospitalized COVID-19 patients. The study is part of the World Health Organization's global Solidarity trial which is examining the effects of various treatments for COVID-19. The Canadian wing of the trial is led by Dr. Srinivas Murthy (pictured). [Read More](#)

Prominent Neuroscientist to Advance Brain Research Through New SFU Institute

SFU News



Taking brain research in promising new directions is at the heart of a new SFU research institute, to be led by renowned neuroscientist Dr. Randy McIntosh (pictured). The SFU Institute for Neuroscience and Neurotechnology, based at the Burnaby campus, will serve as a hub for research, training and engagement, bringing together researchers from across SFU and supporting interdisciplinary research and collaborations across the university and beyond. [Read More](#)

US Pharmaceutical Giants Cozy Up to BC Biotechs

Business in Vancouver



A COVID-19 treatment developed in partnership between Vancouver biotech AbCellera and US pharmaceutical giant Eli Lilly thrust BC's life science sector into the spotlight much of the past year. AbCellera went public in December 2020 — reaching unicorn status after its blockbuster IPO raised US\$555 million — and soon after unveiled plans to build specialized offices throughout Vancouver as it sought to hire 1,000 workers over the next seven years. [Read More](#)

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Upcoming Events in Vancouver

- January 25 6:30 PM **COVID-19 Update: Expert Q&A with Public Health, Primary Care, Vaccine, Epidemiology, and Lab Specialists** Online
- January 26 3:00 PM **Discovery to Commercialization** Online
- January 27 3:00 PM **McCarthy Spotlight Speaking Series: Oncology** Online
- February 10 7:00 PM **Women in Science** Online
- February 11 9:00 AM **SciCATS Workshop Series Part 2: Communicating Your Science through Podcasting Interviews** Online

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STEMCELL Technologies
- Quality Assurance Specialist**
STEMCELL Technologies
- Research Associate**
STEMCELL Technologies
- Research Technologist, Tissue and Cell Biology**
STEMCELL Technologies
- Quality Assurance Associate, Product Release**
STEMCELL Technologies

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Other Science Jobs in Vancouver

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BC Cancer
- Part-Time Lab Technician**
GenXys
- Project Manager, POG**
Canada's Michael Smith Genome Sciences Centre
- Senior Scientist, Biology**
Chinook Therapeutics
- Scientist, Biologics Discovery, Experimental Immunology Research**
Amgen

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