

Publications of the Week

Lipid Nanoparticle-Based Non-Viral *In Situ* Gene Editing of Congenital Ichthyosis-Causing Mutations in Human Skin Models

First Authors: Dilem Ceren Apaydin and Gaurav Sadhnani | Senior Author: Sarah Hedtrich (*pictured*)
Cell Stem Cell | NanoVation Therapeutics



Autosomal recessive congenital ichthyosis (ARCI) refers to a group of rare, highly debilitating skin disorders that significantly impair patients' quality of life and lack any effective treatment options. Here, researchers report clinically relevant *in Situ* correction of the most common ARCI-causing mutation, a splice-site aberration, in human disease models. [Abstract](#) | [Press Release](#)

A *Bacteroides* Synthetic Biology Toolkit to Build an *In Vivo* Malabsorption Biosensor

First Authors: Giselle McCallum (*pictured, left*) and Juan Burckhardt (*right*) | Senior Author: Carolina Tropini
Cell | UBC



Genetically tractable commensals, including *Bacteroides thetaiotaomicron*, offer promising chassis for engineering biosensors. Here, researchers developed genetic tools for *B. thetaiotaomicron*, including a repressible promoters for tunable fluorescent protein expression, a DNA-based system to modulate repressor activity, a modular, fluorescence-based transcriptional reporter circuit, and an alternative plasmid integration mode. [Abstract](#) | [Press Release](#)

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Awards

LSI Researchers Awarded Funding in Fall 2025 CIHR Project Grant Competition

UBC Life Sciences Institute (LSI)



LSI congratulates their researchers who received funding through the Fall 2025 Canadian Institutes of Health Research (CIHR) Project Grant competition. In total, these grants were awarded \$5.3 million from this competition. The awardees include Drs. Sarah Hedtrich, Eric Jan, Hilla Weidberg, Mark Cembrowski, Scott Tebbutt, and Kenji Sugioka (*pictured*). [Read More](#)

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Local News

Discovery Reveals Timing Differences in Brain Versus Bodily Functions During Death

Vancouver Coastal Health Research Institute (VCHRI)



Despite being a natural part of the lifecycle, much is still unknown about the process of dying. In their groundbreaking study, VCHRI researcher Dr. Mypinder Sekhon (*pictured*) and PhD candidate Jordan Bird reframe the moments before death as a biological transition, rather than a single moment, filling in missing pieces of the puzzle to understanding the final stages of life. [Read More](#)

Dr. Yejin Kang Explores the Link Between Cholesterol and Muscular Dystrophy

Centre for Heart Lung Innovation (HLI)



During the HLI's ongoing Seminar Series, Dr. Yejin Kang (*pictured*), a Postdoctoral Fellow at Bernatchez Lab, shared her exciting research on how cholesterol affects muscle health, particularly in the context of muscular dystrophy. Dr. Kang's talk explored how changes in cholesterol levels can worsen the effects of this disease and even hinder the body's ability to repair muscles. [Read More](#)

Canadian Surgical Innovation Cuts Ovarian Cancer Risk by Nearly 80%

UBC Faculty of Medicine



A prevention strategy developed by B.C. researchers reduces the risk of the most common and deadly form of ovarian cancer by nearly 80%, according to a new UBC study published in *JAMA Network Open*. "This study clearly demonstrates that removing the fallopian tubes as an add-on during routine surgery can help prevent the most lethal type of ovarian cancer," said co-senior author Dr. Gillian Hanley (*pictured*). [Read More](#)

Collaboration Led by BCCHR Researchers Awarded European Funding to Improve Community-Based Care in Uganda and Kenya

BC Children's Research Institute



Dr. Matthew Wiens (*pictured*) and colleagues at the Institute for Global Health at BC Children's Hospital and BC Women's Hospital + Health Centre, BC Children's Research Institute, and UBC are the first Canadian Team to lead a Horizon Europe Pillar 2 project. The consortium was recently awarded €5 million under the Global Health EDCTP3 Joint Undertaking for a project that aims to reduce childhood deaths from sepsis after hospital discharge. [Read More](#)

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Interesting Articles

Undergraduate Summer Research Program

Centre for Blood Research



Are you an undergraduate or medical student looking for summer research experience? The Centre for Blood Research Summer Studentship Program provides students with an opportunity to get hands-on research experience during the summer months and to present their research at Research Day. Applications are currently open. [Read More](#)

2026 ACPBC Scholarships Available for Chemistry Undergraduate and Graduate Students

Association of the Chemical Profession of British Columbia (ACPBC)



The Association of the Chemical Profession of British Columbia (ACPBC) has announced that their application season for its two scholarships, in the amount of \$1000 each, is now open. Applications will be accepted until end of day March 6, 2026. The two scholarships available are the ACPBC Undergraduate Student Member Scholarship and the ACPBC Inclusive Student Member Scholarship. [Read More](#)

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📅 Upcoming Events in Vancouver

February 10
5:30 PM

Black Excellence in STEM: Swimming to UBC Like a Fish by Dr. Rashid Sumaila
CEME 2202

February 13
12:00 PM

Peter W. Hochachka Memorial Lecture with Dr. Charles Darveau
Michael Smith Laboratories

February 25
8:00 AM

11th Annual Access to Innovation
Vancouver Convention Centre West

February 26
4:00 PM

BioConnect BC (D.R.I.N.K.S. Vancouver)
BAESIDE @ Mahonys False Creek

March 6
9:00 AM

The Virtual Brain Node: Personalized Simulations for Cognitive Neuroscience
JW Marriott Parq Hotel

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📁 Science Jobs in Vancouver

Assistant Professor or Associate Professor
UBC

Research Assistant, Genome Sciences Centre
BC Cancer

Research Analyst
Canadian Cancer Society

Research Scientist, Glomerular Diseases
Providence Health Care

Laboratory Assistant
ALS

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📁 STEMCELL Jobs in Vancouver

Manufacturing Technologist, Clean Room (18 month Fixed Term)
[STEMCELL Technologies](#)

Manufacturing Technologist
[STEMCELL Technologies](#)

Quality Engineer, Instrumentation
[STEMCELL Technologies](#)

Data Management Analyst II, Pricing Data and Operations
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