

Publications of the Week

Resistance to BET Inhibitors in Lung Adenocarcinoma Is Mediated by Casein Kinase Phosphorylation of BRD4

First Author: Jack Calder | Senior Author: William Lockwood (pictured)
Oncogenesis | BC Cancer and UBC



Targeting the epigenome to modulate gene expression programs driving cancer development has emerged as an exciting avenue for therapeutic intervention. Pharmacological inhibition of the bromodomain and extraterminal (BET) family of chromatin adapter proteins has proven effective in this regard, suppressing growth of diverse cancer types mainly through downregulation of the c-MYC oncogene, and its downstream transcriptional program. [Abstract](#)

Microchip RT-PCR Detection of Nasopharyngeal SARS-CoV-2 Samples

First Author: Razvan Cojocaru | Senior Author: Maxim Slyadnev (pictured)
Journal of Molecular Diagnostics | SFU, UBC, and Lumex Instruments



Fast, accurate, and reliable diagnostic tests are critical for controlling the spread of COVID-19. The current gold standard for testing is real-time (RT) PCR; however, during the current pandemic, supplies of testing kits and reagents have been limited. Researchers report the validation of a rapid (30 minutes), user-friendly, and accurate microchip RT-PCR assay for detection of SARS-CoV-2 from nasopharyngeal swab RNA extracts. [Abstract](#)

Regulated Cell Death Pathways in Doxorubicin-Induced Cardiotoxicity

First Author: Effimia Christidi | Senior Author: Liam Brunham (pictured)
Cell Death and Disease | UBC



Doxorubicin is a chemotherapeutic drug used for the treatment of various malignancies; however, patients can experience cardiotoxic effects. The mechanisms by which doxorubicin kills cardiomyocytes have been elusive and despite extensive research, the exact mechanisms remain unknown. This review focuses on recent advances in the understanding of doxorubicin-induced regulated cardiomyocyte death pathways. [Abstract](#)

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Local News

Hallam Lab Fellow Moritz Koch Provokes Cyanobacteria to Produce Large Amounts of Natural, Biodegradable Plastic

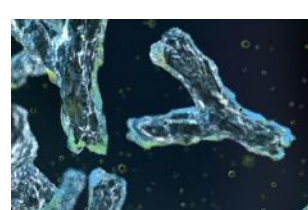
UBC Life Sciences Institute



As UBC begins consultation on its 2030 Climate Action Plan, Dr. Moritz Koch (pictured, right), a new postdoctoral fellow in Dr. Steven Hallam's (pictured, left) lab at the Life Sciences Institute, is working to propel a bacteria-based biodegradable alternative to petroleum-based plastics to market. During his PhD at Tübingen University in Germany, Dr. Koch developed a "living plastic ball" out of cyanobacteria, also known as blue-green algae. [Read More](#)

AbCellera and Gilead Sciences Announce New Multi-Year, Multi-Target Antibody Discovery Collaboration

AbCellera



AbCellera has announced agreements to expand its collaboration with Gilead Sciences, Inc., including a multi-year, multi-target antibody discovery collaboration and access to AbCellera's humanized mouse technology, the Trianni Mouse®. Building on the successful completion of the first collaboration together, under the new agreement, AbCellera will generate panels of antibodies for up to eight new targets across multiple indications, selected by Gilead. [Read More](#)

Meet the Researcher: Dr. Peter Schubert

UBC Centre for Blood Research



Dr. Peter Schubert is a Principal Investigator with the UBC Centre for Blood Research and a Clinical Associate Professor at the Department of Pathology and Laboratory Medicine. As the principal manager of the Blood4Research Facility, a part of the Centre for Innovation of the Canadian Blood Services, he is also responsible for facilitating the provision of blood to researchers in order to advance the fields of transfusion and transplantation medicine. [Read More](#)

A Healthier Economy: BC's Opportunity to Grow a Domestic COVID-19 Vaccine Supply

The Globe and Mail



Vancouver's adMare BioInnovations specializes in turning Canada's world-leading research in life sciences – the technology that is driving the medical response to the pandemic – into commercial opportunities. BC Finance Minister Selina Robinson plans to introduce a budget that will help shape the economy that emerges from the pandemic. This is an opportunity to help expand the province's biotech and health sciences sector. [Read More](#)

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Interesting Articles

Canada's Bioinnovation Pipeline: Growing the Bioeconomy with Early-Stage R&D

TheFutureEconomy.ca



Dr. Lakshmi Krishnan (pictured), the VP of Life Sciences at the National Research Council, explains how increased investment will greatly benefit Canada's prospects for a future bioeconomy, allowing for the development of more early-stage innovations but more importantly, giving those companies a pathway to scaling up. A thriving bioeconomy will help Canada tackle key health issues from cancer to future pandemics. [Read More](#)

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Upcoming Events in Vancouver

- April 13 1:00 PM **Diabetes Research: From Hormones to Social Influences – Meet the Researchers #3** Online
- April 14 10:00 AM **Parkinson's Disease Awareness Day 2021** Online
- April 14 3:00 PM **Humanizing Drug Development: From Organoids to Organs-on-Chips** Online
- April 14 2:00 PM **Science Made Casual with Dr. Florian Kuchenbauer** Online
- April 15 9:00 AM **Centre for Blood Research Symposium in Honour of Dr. Ed Conway** Online

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STEMCELL Jobs in Vancouver

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UBC

Head of Laboratory Automation

AbCellera

Associate Scientist, Analytical Development

Precision Nanosystems Inc.

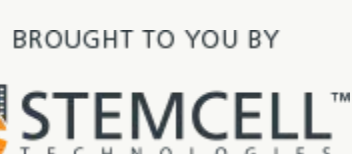
Knowledge Translation Coordinator

Canada's Michael Smith Genome Sciences Centre

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