

Publications of the Week

### Divergent Biological Response to Neoadjuvant Chemotherapy in Muscle-Invasive Bladder Cancer

First Author: Roland Seiler | Senior Author: Peter Black *(pictured)*  
Clinical Cancer Research | Vancouver Prostate Centre and GenomeDx Biosciences



After cisplatin-based neoadjuvant chemotherapy, 60% of patients with muscle-invasive bladder cancer still have residual invasive disease at radical cystectomy. The authors explore this issue by suggesting molecular subtypes to understand the biology of these tumours. Although these molecular subtypes imply consequences for adjuvant treatments, this ultimately needs to be tested in clinical trials. [Profile](#) | [Abstract](#)

### Recent Advances in Applying Nanotechnologies for Cancer Immunotherapy

First Author: Reza Mahjub | Senior Author: Shyh-Dar Li *(pictured)*  
The Journal of Controlled Release | UBC



The authors focus on recent advances made within the last 5 years in nanoparticle-based cancer immunotherapy, including peptide- and nucleic acid-based nanovaccines, nanomedicines containing an immunoadjuvant to activate anti-tumour immunity, nanoparticle delivery of immune checkpoint inhibitors, and the combination of the above approaches. [Abstract](#)

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Awards

### September 2018 Award Winners



Dr. Dermot Kelleher *(pictured)*, Dean of the UBC Faculty of Medicine, has been inducted into the Canadian Academy of Health Sciences along with five other UBC Faculty of Medicine researchers. Discover which other Vancouver researchers won grants, awards, fellowships, or scholarships in our September award summary! [Read More](#)

### Professor Larry Lynd Inducted into the Canadian Academy of Health Sciences

UBC Pharmaceutical Sciences



Dr. Larry Lynd *(pictured)*, Professor and Director of the Collaboration for Outcomes Research and Evaluation at UBC, has been named a Fellow of the Canadian Academy of Health Sciences (CAHS). CAHS Fellows serve as unpaid volunteers, evaluating and recommending solutions for Canada's most complex health challenges based on their respective areas of healthcare and research expertise. [Read More](#)

### CDRD to Be Presented with the BIOTECANADA Gold Leaf Ecosystem Builder Award in Canada's Capital

The Centre for Drug Research and Development



The Centre for Drug Research and Development (CDRD) has been honoured with the 2018 BIOTECANADA Gold Leaf Ecosystem Builder Award. The award recognizes CDRD's contributions and impact as Canada's national life sciences venture, bringing together national and international partners to be a catalyst for Canadian life sciences leading the world. [Read More](#)

### Cited's Sam Finn and Gordon Katic Win 2018 President's Staff Awards for Creativity & Innovation

Michael Smith Laboratories



Together, Sam Finn *(right)* and Gordon Katic *(left)* co-host and produce *Cited*, an award-winning, syndicated, long-form radio podcast series. Telling compelling stories about academic research, the podcast makes research accessible to large and diverse audiences. They have been awarded a 2018 UBC President's Staff Award for demonstrating outstanding achievement and excellence within the community. [Read More](#)

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Local News

### Legacy of UBC's Nobel Laureate, Dr. Michael Smith, Lives On

Michael Smith Laboratories



This month, organizations from across BC's scientific research community are celebrating the powerful legacy of Dr. Michael Smith, the province's first Nobel Laureate, as we mark the 25<sup>th</sup> anniversary of his Nobel Prize. Smith's impact and foundational work in genomics inspired many and helped propel our province to international prominence as a world leader in genomics research. [Read More](#)

### TRIUMF and CNL to Form Strategic Partnership to Enable Ground-Breaking Cancer Treatment

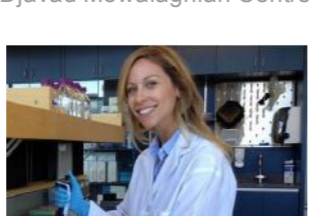
TRIUMF



TRIUMF, Canada's particle accelerator centre, and Canadian Nuclear Laboratories (CNL), Canada's premier nuclear science and technology organization, announced that they have agreed to pursue a strategic partnership around the commercial production of Actinium-225, a rare medical isotope that has the potential to serve as the basis of new ground-breaking cancer treatments. [Read More](#)

### UBC Postdoc Takes Harvard Medical School Appointment to Study Sleep and Alzheimer's Disease

Djavad Mowafaghian Centre for Brain Health



Dr. Brianne Kent *(pictured)* has been conducting her postdoctoral research in Dr. Haakon Nygaard's lab since 2015, studying sleep and the role of circadian rhythms, and how those patterns change in Alzheimer's disease. In early 2019, with generous career transition support from the National Institutes of Health, Dr. Kent will be taking on a new role with the Division of Sleep and Circadian Disorders at Brigham and Women's Hospital and Harvard Medical School. [Read More](#)

### AbCellera Raises \$10M for Machine-Learning Fueled Antibody Discovery Platform

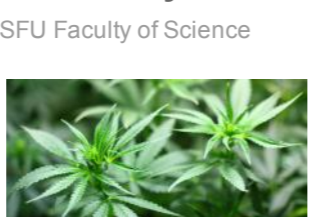
GeekWire



AbCellera has announced that it has raised a \$10 million series A round to expand its antibody therapy discovery program. The company had raised less than \$1 million prior to the new round, making this the first significant funding raised by the company. The round was led by Silicon Valley fund DCVC Bio and one of the fund's managing partners, John Hamer, will join AbCellera's Board of Directors. [Read More](#)

### New Study on Effects of Cannabis of Pain and Seizure Control

SFU Faculty of Science



SFU researchers, in collaboration with Xenon Pharmaceuticals and Agrima Botanicals, have recently discovered one mechanism by which cannabis is thought to alleviate pain and seizures. The team found that proteins which control electrical activity are affected by cannabinoids – the chemicals found in cannabis – including delta-9-tetrahydrocannabinol and cannabidiol. [Read More](#)

### Paradigm Shifts in Cell Wall Biogenesis Understanding

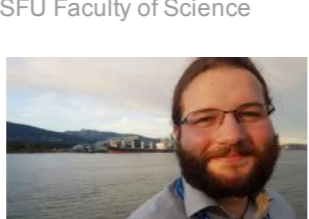
The Centre for Blood Research



A recent study by Sean Workman *(pictured)* has led to the structural characterization of a novel protein involved in bacterial cell wall biosynthesis. Undecaprenyl Pyrophosphate Phosphatase is responsible for removing phosphate from both *de novo* synthesized carrier lipids and recycled lipids that have already contributed to cell wall formation. [Read More](#)

### Building Molecular Motors – One Step at a Time

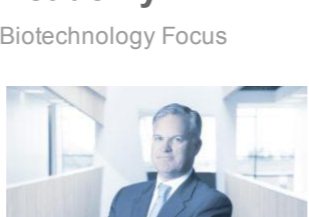
SFU Faculty of Science



Chapin Korosec *(pictured)* studies a class of nanomotors that are critical for plasmid separation in bacteria and collagen processing in humans. These nanomotors operate by destroying track binding sites as they move forward, thereby preventing backwards motion. He hopes that a better understanding of nanomotors may help guide treatment for diseases like osteoarthritis, rheumatoid arthritis, and osteoporosis. [Read More](#)

### Taking It up Another Notch: CDRD Discusses the Newest Addition to Their Academy

Biotechnology Focus



Biotechnology Focus had the pleasure of speaking with the president and Chief Executive Officer of the Centre for Drug Research and Development (CDRD), Gordon McCauley *(pictured)*, who discusses the recent addition of the Executive Institute to CDRD's Academy. Gordon McCauley was appointed President and CEO of CDRD in 2017 after serving on the Board for four years. [Listen Now](#)

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Interesting Articles

### Unlicensed Clinics Charging Canadians Thousands for Unproven Stem Cell Therapies: Study

Montreal Gazette



Dozens of unlicensed clinics offering stem cell treatments for a wide variety of medical conditions have sprung up in Canada, marketing their services through direct-to-consumer online advertising, a study has found. Dr. Leigh Turner, an Associate Professor at the University of Minnesota's Center for Bioethics, identified 30 businesses marketing stem cell therapies at 43 clinics across the country. [Read More](#)

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### Upcoming Events in Vancouver

- October 9 - 10 12:30 PM **Cascadia Innovation Corridor Conference**  
Hyatt Regency Vancouver
- October 10 7:00 PM **All Candidates Meeting on Science and Policy Integration**  
180Switchmen
- October 11 4:00 PM **Life After Graduate School: Science Communication Edition**  
Djavad Mowafaghian Centre for Brain Health
- October 19 4:00 PM **D.R.I.N.K.S. (Discussions Relevant to Inspiring New Knowledge and Science)**  
Mahony and Sons, Stamps Landing
- October 22 3:30 PM **2018 International Gairdner Symposium**  
Life Sciences Institute

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### STEMCELL Jobs in Vancouver

- Senior Manager, Research & Development Operations**  
STEMCELL Technologies
- Associate Product Manager, Pluripotent Stem Cell Biology**  
STEMCELL Technologies
- Scientific Marketing Specialist, Pulmonary**  
STEMCELL Technologies
- Research Associate, Bioinformatics**  
STEMCELL Technologies
- Quality Engineer, Quality Assurance, Instrumentation**  
STEMCELL Technologies

[View 69 Other STEMCELL Jobs](#)

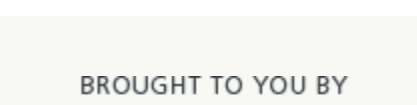
### Other Science Jobs in Vancouver

- Executive Director, Corporate Development**  
Genome BC
- Scientist, Cell Culture and Screening**  
AbCellera
- Postdoctoral Research Fellow**  
UBC Department of Pathology
- Senior Research Associate, Protein Engineering**  
Zymeworks
- Lab Technician**  
NovoBind Livestock Therapeutics

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