

Publications of the Week

Inhibition of Th1 Activation and Differentiation by Dietary Guar Gum Ameliorates Experimental Autoimmune Encephalomyelitis

First Author: Naomi Fettiq (pictured) | Senior Author: Lisa Osborne
Cell Reports | Life Sciences Institute and UBC



Dietary fibers are potent modulators of immune responses that can restrain inflammation in multiple disease contexts. However, it remains unknown how individual fiber sources influence immunity. In a direct comparison of four different high-fiber diets, the authors demonstrate a potent ability of guar gum to delay disease and neuroinflammation in experimental autoimmune encephalomyelitis, a T cell-mediated mouse model of multiple sclerosis. **Abstract**

A Century Long Journey from the Discovery of Insulin to the Implantation of Stem Cell Derived Islets

First Author: Adam Ramzy (pictured) | Senior Author: Timothy Kieffer
Endocrine Reviews | Life Sciences Institute, BC Children's Hospital Research Institute, and UBC



For the past century, insulin injections have saved millions of lives, but glycemic instability is still a persistent challenge for people with diabetes, leading to tremendous morbidity and premature mortality. Research in the field of islet transplantation has demonstrated that replacing insulin-producing β-cells can restore euglycemia comparable to individuals without diabetes. **Abstract**

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Awards

SBME Professors Awarded Provincial Funding for Research to Improve British Columbians' Lives

UBC School of Biomedical Engineering (SBME)



The BC Knowledge Development Fund (BCKDF) has awarded over \$20 million for 78 research projects being led by researchers at UBC. The BCKDF supports the development of research infrastructure, like labs and equipment. Dr. Ali Bashashat's (pictured) project will involve an artificial intelligence-drive platform for translating precision medicine discoveries in women's cancers. **Read More**

Advancing BC's World-Class Research Talent: Health Research BC Funds 71 Scholars and Research Trainees

Michael Smith Health Research BC



Health Research BC's funding for 71 researchers through the 2022 Scholar and Research Trainee competitions will help develop, attract and retain BC's best and brightest health researchers and support the advancement of world-class health research in BC. One of the 2022 Scholar awardees, Dr. Stephanie Sellers (pictured), is interested in determining the mechanisms of heart valve disease and artificial heart valve dysfunction as well as advancing imaging techniques for cardiovascular disease. **Read More**

Congratulations Michael Smith Health Research Award Recipients

BC Children's Hospital Research Institute



Congratulations to the BC Children's Hospital Research Institute investigators who have been given Michael Smith Health Research BC 2022 Scholar and Research Trainee awards! Drs. Jessica Dennis, Ramon Klein Geltink (pictured), and Marianne Vidler have each received a Scholar award. Drs. Anne-Sophie Archambault, Michael Asamoah-Boaheng, Alberto Delaidelli, Olivia De-Jongh González, Raghu Sundaresan Nagalingam, and Yashodani Pillay have received Research Trainee awards. **Read More**

Michael Smith Health Research BC Research Trainee Awarded to Dr. Kotaro Suzuki

Vancouver Prostate Centre



Dr. Kotaro Suzuki (pictured) joins over 1,400 Research Trainee award holders from Michael Smith Health Research BC who reflect the best and brightest of BC's health research talent. With the Health Research BC Research Trainee award, Dr. Suzuki will evaluate the role of asparagine endopeptidase (AEP) in the treatment responses and resistance development in prostate cancer (PCa) and explore the therapeutic value of AEP in PCa. **Read More**

FHS Researchers Recognized as Michael Smith Health Research BC 2022 Award Winners

SFU Faculty of Health Sciences (FHS)



Drs. Julia Smith (pictured, left) and Muhammad Zohaib Anwar (right) were recently awarded Michael Smith Health Research BC awards. Dr. Smith's research will focus on the secondary effects of COVID-10 on women and healthcare providers, and Dr. Anwar's research will improve genomic epidemiology methodologies and practice through interdisciplinary data integration and analysis. **Read More**

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Local News

Novateur Venture's Founder and Managing Director, Ali Ardakani, Elected Chair of Life Sciences British Columbia

BioSpace



Life Sciences British Columbia (LSBC) has announced that Ali Ardakani (pictured) was elected Chair of the Board of Directors. Ardakani succeeds Scott Phillips, Founder and CEO of StarFish Medical, who served as Chair of the LSBC Board for the past three years. "I feel privileged to take on this role at such a pivotal time for the BC life sciences sector," says Ardakani. **Read More**

AI Cell Analytics App Could Supercharge Biotechnology Research

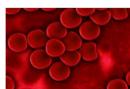
Vancouver Coastal Health Research Institute



Transformative technology developed by Vancouver Coastal Health Research Institute researcher Dr. Mads Daugaard (pictured) at the Vancouver Prostate Centre is putting cell analytics into the hands of scientists around the globe. The artificial intelligence (AI)-driven smartphone app SnapCyte produces data used in cell growth medical research at a fraction of the cost and in a more timely manner than current technology. **Read More**

"Squeeze-ability" of a Red Blood Cell: The Deformability of Red Blood Cells Is a Useful Biomarker for Storage Quality

The Centre for Blood Research



Red blood cell transfusions are crucial in healthcare, and can offer life-saving treatments for patients living with anemia, sickle cell disease, and other conditions. Since donated blood bags have a shelf-life of only six weeks, it's important that doctors can efficiently check the quality of these bags before they are transfused into patients. **Read More**

Dr. Alexander Wyatt Is Promoted to Associate Professor

Vancouver Prostate Centre



Congratulations to Dr. Alexander Wyatt (pictured) on his promotion to Associate Professor in the Department of Urologic Sciences at UBC. Recently, Dr. Wyatt, together with senior medical oncologists and urologists at the Vancouver Prostate Centre and UBC, demonstrated that plasma circulating tumour DNA is highly representative of metastatic lesions in prostate and bladder cancer. **Read More**

AbCellera Breaks Ground on Phase 2 of Global HQ in Vancouver

AbCellera via Life Sciences BC



Vancouver biotech anchor AbCellera has broken ground at the Mount Pleasant address that will soon be home to Phase 2 of the Vancouver-grown company's 380,000-square-foot global headquarters. AbCellera's leadership team were joined by members of the local biotech ecosystem to celebrate the future, world-class biotech campus that will employ hundreds of highly skilled technical personnel. **Read More**

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Upcoming Events in Vancouver

- October 6 4:30 PM **From R&D to Commercialization: IP Essentials for Life Sciences Companies Presented by Gowling WLG**
Rosewood Georgia Hotel
- October 6 6:00 PM **UBC-BCIT Biotechnology Program Alumni Reunion**
Life Sciences Institute
- October 11 7:30 PM **Science Slam YVR**
Fox Cabaret
- October 25 4:00 PM **The Future of Regenerative Medicine**
Pan Pacific Hotel
- November 2-3 9:00 AM **Invest in BC Presented by Lumira Ventures**
Online

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STEMCELL Jobs in Vancouver

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- Scientific Support Specialist, Immunology**
STEMCELL Technologies
- Process Development Associate, Nanoparticles**
STEMCELL Technologies
- Scientific Marketing Manager, China and Asia Pacific**
STEMCELL Technologies
- Senior Regulatory Affairs Specialist**
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Other Science Jobs in Vancouver

- Laboratory Operations Coordinator, Central Services**
AbCellera
- Research Projects Coordinator**
Canada's Michael Smith Genome Sciences Centre
- Senior Associate, R&D Lab Operations**
Amigen
- Senior Product Manager, Biopharma Services**
Pall
- Research Technician**
UBC

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