



Publications of the Week

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Volume 6.13: April 11, 2022

Stability of the Gut Microbiota in Persons with Pediatric-Onset Multiple

Sclerosis and Related Demyelinating Diseases First Author: Geoffrey Liang | Senior Author: Helen Tramlett (pictured)

Multiple Sclerosis Journal | Djavad Mowafaghian Centre for Brain Health and UBC



The authors examined if the gut microbiota composition changes across repeated samples in pediatric-onset multiple sclerosis (MS) or monophasic-acquired demyelinating syndromes (monoADS). Stool sample-derived DNA was sequenced. The gut microbiota composition in pediatric-onset MS and monoADS exhibited stability, suggesting that single stool sample procurement is a reasonable first approach. Abstract

Carbohydrate-Active Enzymes in the Gut Microbiome

First Authors: Jacob Wardman and Rajneesh Bains | Senior Author: Stephen Withers (pictured) Nature Reviews Microbiology | Michael Smith Laboratories and UBC



The 10^{13} – 10^{14} microorganisms present in the human gut dedicate substantial percentages of their genomes to the degradation and uptake of carbohydrates, indicating the importance of this class of molecules. The authors focus on the diversity of carbohydrate-active enzymes (CAZymes), how gut microorganisms use them for carbohydrate degradation, the different chemical mechanisms of these CAZymes, and the roles that these microorganisms and their CAZymes have in

Awards

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UBC Biochemist Wins Gairdner Award for Role in COVID-19 Vaccines

human health and disease. Abstract



When he established his lab at UBC in the 1980s, Dr. Pieter Cullis (pictured) says he never could have fathomed that his "curiosity-based" research would eventually play a critical role in the development of vaccines that have benefited hundreds of millions of people across the globe. The Vancouver Biochemistry Professor was named among the winners of the prestigious Canada Gairdner Awards for his contributions to the development of mRNA COVID-19 vaccines. Read More

UBC Medicine Researchers Awarded Nearly \$1 Million from New Frontiers in Research Fund



Four researchers in UBC's Faculty of Medicine are leading projects that received nearly \$1 million from the Government of Canada's New Frontiers in Research Fund. Dr. Joanne Matsubara's (pictured) project is titled: "In Vivo Imaging for Investigating Neurodegenerative Diseases of the Brain and Eye Cell simulator: a computer-driven approach to genetically programming cells." Read More

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Local News

Applications Open: 2022 Convening & Collaborating and Reach Competitions

Michael Smith Health Research BC



Competitions for the Michael Smith Health Research BC 2022 Convening & Collaborating and Reach Programs have opened. These awards fund research teams whose activities support knowledge translation (KT). Known by many names (e.g. knowledge mobilization, research to action, knowledge exchange) in health research, KT is ultimately about using health research to improve health. **Read More**

Study Shows Strong Link Between Erectile Dysfunction Medications and **Vision Problems**

UBC Faculty of Medicine



The risk of developing one of three serious eye conditions increases by 85 per cent for regular users of common erectile dysfunction medications such as Viagra, Cialis, Levitra, and Stendra, new UBC research has found. "These are rare conditions, and the risk of developing one remains very low for any individual user. However, the sheer number of prescriptions dispensed each month in the US about 20 million — means that a significant number of people could be impacted," said Dr. Mahyar Etminan (pictured). Read More

Autophagy Machinery Contributes to Stress-Induced Secretion of Proteins and Extracellular Vesicle Populations

Canada's Michael Smith Genome Sciences Centre



The role of autophagy in recycling debris and supporting cell survival is well known and implicated in cancer development. Other functions of autophagy, including cellular secretion, are less explored. In their most recent study, Dr. Sharon Gorski's (pictured) lab sought to assess the impact of lysosomal and, by extension, autophagy inhibition on secretion, and identified new secretory functions of the autophagy machinery. Read More

Aspect Biosystems Announces Partnership with JDRF to Advance Development of a Bioengineered Tissue Therapeutic to Treat Type 1 Diabetes

Aspect Biosystems



Aspect Biosystems has announced a partnership with JDRF, the leading global type 1 diabetes research and advocacy organization. The JDRF-Aspect partnership supports Aspect's focus on developing a bioengineered tissue therapeutic for type 1 diabetes that will provide insulin independence and control of blood sugar without the need for chronic immune suppression. Read More

A Novel Antibiotic-Host Defense Peptide Conjugate with Multiple Talents



Current therapeutic approaches based on antibiotics are under severe threat due to the increasing prevalence of antibiotic resistant bacteria, rendering existing therapies ineffective. In a recent study by Dr. Bob Hancock's (pictured) lab, Dr. Hashem Etayash and colleagues identified a novel vancomycin-innate defence regulator conjugate (V-IDR1018) as a promising candidate for the treatment of bacterial infections. Read More

How Does Translational Control Impact Neurodevelopment and Reproductive Potential?

Life Sciences Institute



Dr. Ethan Greenblatt (pictured) became an autism researcher via an interest in aging and fertility. His postdoctoral work, published in 2018 in Science and recognized with an innovation and excellence award from Carnegie University, focused on translation, the last step in gene expression in which RNA molecules gets translated into proteins. Read More

BC Cancer's Jiang Lab Renamed Following \$1 Million Donation



The BC Cancer Foundation has announced the renaming of Dr. Xiaoyan Jiang's (pictured) lab as the Collings Stevens Chronic Leukemia Research Laboratory in recognition of Allan Collings' and Hilary Stevens' significant contributions to BC Cancer. This is the largest healthcare gift to date for the Collings Stevens Family Foundation, and represents their deep belief that research is crucial to creating better cancer outcomes. Read More

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Upcoming Events in Vancouver

Discovery to Commercialization | Precision Drug Design: Unlocking April 13 a New Era in Therapeutics Discovery 3:00 PM

April 14 SFU Molecular Biology and Biochemistry Colloquium 2022 9:00 AM Burnaby Mountain Clubhouse

Exploring Careers in Industry April 22 1:00 PM Paetzold Auditorium

How to Effectively Communicate Your Science to the General Public April 27 12:00 PM

April 30 **Soapbox Science Vancouver** 10:00 AM Riley's Park Farmer's Market

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STEMCELL Jobs in Vancouver

Scientist, Primary Cell Biology STEMCELL Technologies

Quality Control Scientist, Cell Line Development STEMCELL Technologies

Program Coordinator, Business Operations Products STEMCELL Technologies **Sales Development Representative**

STEMCELL Technologies **Product Manager, Primary and Cultured Cell Products** STEMCELL Technologies

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(iii) Other Science Jobs in Vancouver

Scientist, Pharmaceutical Sciences (18 Month Contract) Genevant Sciences

Research Technician, Biology Xenon Pharmaceuticals

Research Associate

Research Assistant 2, Research Experimental Therapeutics BC Cancer

Senior Research Scientist, Biotherapeutic Purification/Downstream Processing AbCellera

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