

Publications of the Week
Tandem Bioorthogonal Labeling Uncovers Endogenous Cotranslationally O-GlcNAc Modified Nascent Proteins

 First Author: Yanping Zhu | Senior Author: David Vocadlo *(pictured)*
 Journal of the American Chemical Society | SFU


The authors detail strategies to enable isolation and identification of extremely low abundance endogenous analytes present within complex protein mixtures. Their work opens the way to studies directed at understanding the roles of O-GlcNAc and other cotranslational protein modifications and should stimulate an improved understanding of the role of O-GlcNAc in cytoplasmic protein quality control and proteostasis. [Profile](#) | [Abstract](#)

Dietary Intervention Reverses Fatty Liver and Altered Gut Microbiota during Early-Life Undernutrition

 First Author: Klynda Bauer *(pictured)* | Senior Author: Brett Finlay
 mSystems | Michael Smith Laboratories and UBC


The authors utilized an established murine model that combines a protein/fat-deficient diet and iterative exposure to specific, fecal microbes. Fecal-oral contamination exacerbated triglyceride accumulation in undernourished mice. Importantly, they demonstrated that dietary intervention largely mitigated aberrant metabolomic and microbiome features in the mice. [Abstract](#)

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Awards
Canadian GlycoNet Awards \$3.9M to 11 Collaborative Research Projects

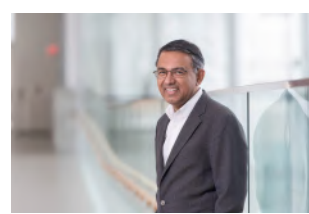
Trial Site News



The Canadian Glycomics Network (GlycoNet) has awarded \$3.9 million in grant funding to 11 collaborative research projects, including one led by UBC's Dr. Harry Brumer *(pictured)*. The fund will support a wide range of multidisciplinary research teams across 17 Canadian research institutions and their industry partners to address unmet medical needs in cancer, gastrointestinal inflammations, cystic fibrosis, Sanfilippo syndrome, Parkinson's, and autoimmune diseases. [Read More](#)

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Local News
Powerful, Double-Decker Bus-Sized Microscopes Help Scientists Uncover Possible COVID-19 Treatment

UBC News



Researchers at UBC's Faculty of Medicine are working with microscopes — some up to 13 feet tall — to help prevent and treat COVID-19. The research team, led by Dr. Sriram Subramaniam *(pictured)*, a Professor in UBC's Department of Biochemistry and Molecular Biology, is using a powerful imaging technique known as cryo-electron microscopy to take pictures at near-atomic resolution to see how various antibody treatments bind to the virus. [Read More](#)

Scientists Uncover Essential Role of One Gene in Antibody Production

UBC Medicine



Scientists led by Dr. Josef Penninger *(pictured)* at UBC's Faculty of Medicine and the Institute of Molecular Biology of the Austrian Academy of Sciences have discovered that the *JAGN1* gene plays an important role in antibody production and the body's ability to mount a defense against pathogens, including viruses. [Read More](#)

A Week in the Life of a Geneticist

Health Science Inquiry



Nikita Telkar *(pictured)* is a first-year Medical Genetics PhD student at UBC. In this photo essay in the Canada-wide graduate student run journal *Health Science Inquiry*, she gives us a glimpse into a week in her life as a medical genetics student, including going to class, doing experiments in the lab, attending a symposium, and even taking coffee breaks. [Read More](#)

Meet the Researcher: Dr. Heather Leitch

Centre for Blood Research



Dr. Heather Leitch *(pictured)* is a Principal Investigator at the Centre for Blood Research, a hematologist at St. Paul's Hospital, a Clinical Professor at UBC, and the Hematology Research Director for Providence Health Care. In this Q&A, she discusses her research and professional background, challenges of being a clinician-researcher, and what her typical day looks like. [Read More](#)

Global Pandemic Drives Unprecedented Need to Grow Canada's Life Science Leadership

adMare BioInnovations



adMare BioInnovations has announced the successful applicants for its 2020-2021 Executive Institute cohort, a 10-month, highly-focused executive development program designed to grow the management talent needed for Canadian life sciences to lead the world. Among the applicants are Erik Hadley *(pictured)*, Senior Director, Technical Operations at STEMCELL Technologies, and Tim Leaver, Senior Director of Commercial Operations at Precision Nanosystems. [Read More](#)

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Upcoming Events in Vancouver

- September 22 9:00 AM **Genomics on a Mission: Probing COVID's Secrets with CanCOGeN** Online
- September 23 12:00 PM **Self-Assembly – A Tale of Molecular Love** Online
- September 24 12:00 PM **National Postdoc Appreciation Week: The Academic Job Search – A Panel featuring UBC Postdoc Alumni** Online
- September 24 3:00 PM **Discovery to Commercialization Series - Building Bridges: How Researchers Came Together during COVID-19** Online
- September 25 6:00 PM **SFU + UBC Postdoctoral Association Trivia Night** Online

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