

Publications of the Week

Single-Cell Profiling Reveals a Memory B Cell-Like Subtype of Follicular Lymphoma with Increased Transformation Risk

First Authors: Xuehai Wang (pictured, second from right) and Michael Nissen | Senior Author: Andrew Weng (right) | Nature Communications | Terry Fox Laboratory, BC Cancer, Canada's Michael Smith Genome Sciences Centre, and SFU



Follicular lymphoma (FL) is an indolent cancer of mature B cells but with ongoing risk of transformation to more aggressive histology over time. Recurrent mutations associated with transformation have been identified; however, prognostic features that can be discerned at diagnosis could be clinically useful. The authors comprehensive profiling of both tumour and immune compartments in 155 diagnostic FL biopsies at single-cell resolution by mass cytometry. [Profile](#) | [Abstract](#)

Patelet Factor 4 (CXCL4/PF4) Upregulates Matrix Metalloproteinase-2 (MMP-2) in Gingival Fibroblasts

First Author: Hoa Le | Senior Author: Hugh Kim (pictured) | Scientific Reports | Centre for Blood Research, Life Sciences Institute, and UBC



Periodontitis is a chronic inflammatory disease characterized by the release of matrix MMPs from resident connective tissue cells in tooth-supporting tissues (periodontium). The authors report that recombinant PF4 is internalized by cultured human gingival fibroblasts, resulting in significant upregulation in both the production and release of MMP-2 (gelatinase A). [Abstract](#)

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Awards

Doctoral Students Awarded Canada Graduate Scholarships for 2022

Djavad Mowafaghian Centre for Brain Health



Congratulations to the current Graduate Program in Neuroscience students who have received awards through the Canada Graduate Scholarships – Doctoral program from the Canadian Institutes of Health Research and the Natural Sciences and Engineering Research Council. Adrienne Kinman's (pictured) research uses calcium imaging in freely moving mice to investigate cell-type specific roles in different forms of memory. [Read More](#)

Dr. Xin Li Nominated as Tier 1 Canada Research Chair in Plant Immunity

Michael Smith Laboratories



Dr. Xin Li (pictured), a long-standing member of the Michael Smith Laboratories, has been nominated as a Tier 1 Canada Research Chair in Plant Immunity. The Canada Research Chairs Program invests approximately \$311 million per year to attract and retain top researchers across Canada in post-secondary institutions. Dr. Li is a world-renowned expert in plant immunity. [Read More](#)

Faculty of Medicine Learners Awarded Killam Doctoral Scholarships

UBC Faculty of Medicine



Faculty of Medicine learners are among the twenty-six UBC doctoral candidates who received a Killam Doctoral Scholarship for the 2022-2023 academic year. The Killam Doctoral Scholarships, available to students in all disciplines, are provided each year from the Izaak Walton Killam Memorial Fund for Advanced Studies and are awarded to the top doctoral candidates in the annual Tri-Agency/Affiliated Fellowships competition. Recipients include Maram Alkawaja Livermore, Katherine Baillie, Omar Bashth (pictured), Bryan Fraser, and Alexandra Lukey. [Read More](#)

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Local News

Strengthening Pathogen Research in British Columbia

UBC Medicine



UBC researchers working at the British Columbia Centre for Disease Control's Public Health Laboratory will benefit from state-of-the-art research infrastructure thanks to a \$4 million investment from the Canada Foundation for Innovation. The investment will ensure the facility continues to play a leading role in addressing current and future pandemic threats in BC and Canada. [Read More](#)

Applying Real-World Evidence from Everyday Patient Care to Improve Health Outcomes and Drive Discovery

BC Cancer



BC Cancer researchers are developing a framework to help decision-makers better understand which cancer treatments should be offered to patients, especially in cases of rare cancers. Using an approach that is based on data collected in every day patient care, researchers are hoping to create better evidence and remove any uncertainty around drug efficacy to expedite access to new therapies. "Our goal is to achieve timely patient access to precision oncology that improves population health and our understanding of value," says Dr. Dean Regier (pictured). [Read More](#)

New Project Hopes to Uncover the Origins of Type 1 Diabetes

BC Children's Hospital Research Institute



Dr. Bruce Verchere (pictured), a researcher in the Childhood Diabetes Laboratories and Director of the Centre for Molecular Medicine and Therapeutics at BC Children's Hospital, along with fellow researchers Drs. Megan Levings and Ramon Klein Gellink, are leading a \$2 million study funded by the Canadian Institutes of Health Research. The team is doing a deep dive into why the immune system attacks islet cells. [Read More](#)

Pediatric Epigenetic Clock Can Be a Useful Tool in Assessing Neurodevelopment in Very Preterm Babies

BC Children's Hospital Research Institute



Very preterm babies have an increased risk of ongoing medical complications and neurodevelopmental issues throughout their lifespan. New research suggests that a specially designed epigenetic "clock" can indicate abnormally accelerated molecular aging, which may be associated with these long-term impacts and warrants further study. [Read More](#)

Seeing the Impacts of Cleft Palate on Children and Families Leads Dentist to Pursue Orofacial Research

Life Sciences Institute



During her general practice residency at Khartoum Dental Teaching Hospital, Isra Ibrahim (pictured), a doctoral student from Sudan, saw the negative effects of poorly managed orofacial clefts on children and their families. Now at UBC, she is pursuing a doctoral degree with Dr. Joy Richman. Her thesis project aims to better understand lip development and the molecular mechanisms underlying the factors that increase the risk of orofacial clefting. [Read More](#)

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Interesting Articles

Government of Canada Announces Major Investments to Support Scientists, Researchers and Students

Innovation, Science and Economic Development Canada



The Honourable François-Philippe Champagne, Minister of Innovation, Science and Industry, has announced more than \$1 billion in funding to support scientists, researchers, and students. This investment, made through a number of funding programs, will support researchers across Canada in different fields, disciplines, and stages of their careers. [Read More](#)

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Upcoming Events in Vancouver

- November 29 4:00 PM **Careers in Science Communication** Online
- November 30 2:00 PM **Discovery to Commercialization: Education and Networking Social** St. Regis Hotel
- November 30 4:30 PM **McCarthy Spotlight Speaking Series & LSBC Holiday Party** McCarthy, Tetraull LLP
- December 6 8:00 AM **Translation in Action: from Neuropsychiatry Research to Health Solutions** Online
- December 6 2:30 PM **Success Stories in Science: Life after Graduation | Dialogue with Lorena Braid** SFU Burnaby

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- Senior Program Associate, Marketing Change Control** [STEMCELL Technologies](#)
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- Research Assistant, Process Development** Acuitas Therapeutics
- Genome Sciences Technologist, Biospecimen Core** Canada's Michael Smith Genome Sciences Centre
- Biostatistician** UBC
- Technology Licensing Associate, Biologics** AbCellera

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