

Publications of the Week

Nanoscale Surveillance of the Brain by Microglia via cAMP-Regulated Filopodia

First Author: Louis-Philippe Bernier (*pictured*) | Senior Author: Brian MacVicar
Cell Reports | Djavad Mowafaghian Centre for Brain Health

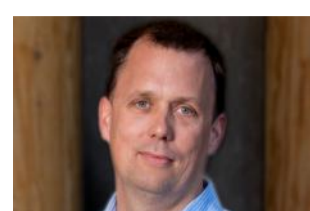


Microglia, the brain's immune cells, maintain homeostasis and sense pathological changes by continuously surveying the parenchyma with highly motile large processes. The authors demonstrate that microglia also use thin actin-dependent filopodia that allow fast nanoscale sensing within discrete regions. Filopodia are distinct from large processes by their size, speed, and regulation mechanism.

[Profile](#) | [Abstract](#)

Polycomb Contraction Differentially Regulates Terminal Human Hematopoietic Differentiation Programs

First Author: Alireza Lorzadeh | Senior Author: Martin Hirst (*pictured*)
bioRxiv | Michael Smith Laboratories, BC Cancer, BC Children's Hospital Research Institute and UBC



Mature blood cells derive from primitive cells through a complex and poorly understood process that involves an interplay of transcription factors and epigenetic modifications. The authors show that multiple human hematopoietic progenitor phenotypes display a common repressive H3K27me3 signature together with their mature lymphoid, but not their differentiated monocyte and erythroid progeny. [Abstract](#)

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Awards

UBC Researchers among New and Renewed Canada Research Chairs

UBC Research + Innovation



The Canada Research Chair program helps attract and retain top researchers across the country. A \$275 million investment for 346 new and renewed Canada Research Chairs will support 15 new chairs at UBC, including Dr. Annie Vogel Ciernia (*pictured*) who holds the Canada Research Chair in Understanding Gene Expression in the Brain. There are also 16 renewed chairs and one Chair advancement. [Read More](#)

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Local News

UBC Study Holds Promise for Novel and Safe Treatment for Type 2 Diabetes

UBC News



Reducing a specific protein in the fat cells of mice not only prevents onset of Type 2 diabetes, but also appears to reverse the disease in the animals, according to researchers at UBC and Sweden's Karolinska Institute. The researchers also found that levels of the protein, called CD248, were higher in the fat cells of people with diabetes, no matter their shape or size. [Read More](#)

New Leader for BC Cancer is a Renowned Oncologist and Researcher

Vancouver Sun



Dr. Kim Nguyen Chi (*pictured*), a respected prostate cancer researcher and oncologist, will take over as head of BC Cancer on July 1. He is the first visible minority leader since the agency was established 45 years ago. Chi, who earned his medical degree at the University of Ottawa, succeeds Dr. Malcolm Moore, who announced four months ago that he would be leaving the post about a year early. [Read More](#)

Master's Research Reveals Important Finding for Creating New HIV Treatment Strategies

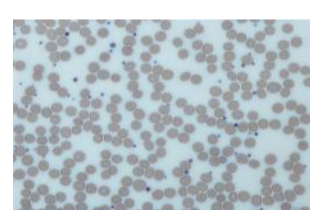
SFU Faculty of Health Sciences



When Fredrick Omondi (*pictured*) graduates in June, he will fulfill his dream of completing a master's degree while also contributing to innovative HIV/AIDS research. Omondi developed an interest in HIV research while honing his technical and analytical research skills under the mentorship of senior supervisor Zabrina Brumme in the Faculty of Health Sciences at SFU. [Read More](#)

Creating Platelets 2.0: Stronger, Faster, and with Twice the Life-Saving Power

Canadian Blood Services



Correcting platelet dysfunction during trauma could be addressed by modifying platelets. Unfortunately, commonly used methods for delivering genetic material to platelets either don't work well or induce unwanted changes to the platelets. To address this problem, the Kastrup Laboratory at UBC is taking a novel approach to directly modifying platelets. [Read More](#)

Partnership Unites High-Profile Scholars at UBC and the Chinese Academy of Sciences

Djavad Mowafaghian Centre for Brain Health



An agreement has been signed which connects members of the Royal Society of Canada, primarily located at the Djavad Mowafaghian Centre for Brain Health, with members of the Chinese Academy of Sciences in Shenzhen. This represents a commitment to scientific diplomacy and an effort to solve some of the biggest challenges in brain research together. [Read More](#)

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Interesting Articles

Government of Canada Announces Historic Investments in Research Collaborations between Colleges and Entrepreneurs

Natural Sciences and Engineering Research Council of Canada



The College and Community Innovation Program and the College-Industry Innovation Fund have received over \$73 million of funding. This investment will help 90 recipients at colleges, cégeps and polytechnics across the country partner directly with local employers to facilitate commercialization and transform the results of research and development into new technologies to help businesses expand and grow. [Read More](#)

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Upcoming Events in Vancouver

- | | |
|-------------------------|---|
| June 25
7:30 PM | Café Scientifique Vancouver
Yaggers' Downtown |
| June 29
12:30 PM | Free National Geographic Documentary Viewing
UBC Earth Science Building |
| July 5
4:30 PM | LGBTSTEM Day Career Networking
Science World at Telus World of Science |
| July 9
6:30 PM | Vancouver STEMminist Book Club
Hycroft Manor |
| July 14 - 17
8:00 AM | STI & HIV 2019 World Congress
Vancouver Convention Centre |

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UBC School of Biomedical Engineering
- Postdoctoral Fellow**
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