

Publications of the Week

Natural HIV-1 Nef Polymorphisms Impair SERINC5 Downregulation Activity

First Author: Steven Jin | Senior Author: Mark Brockman *(pictured)*
Cell Reports | Simon Fraser University



HIV-1 Nef enhances virion infectivity by counteracting host restriction factor SERINC5; however, the impact of natural Nef polymorphisms on this function is largely unknown. The authors characterized SERINC5 downregulation activity of 91 primary HIV-1 subtype B *nef* alleles, including isolates from 45 elite controllers and 46 chronic progressors. [Abstract](#)

Androgen Receptor Plasticity and Its Implications for Prostate Cancer Therapy

First Author: Oliver Snow | Senior Author: Artem Cherkasov *(pictured)*
Cancer Treatment Reviews | Vancouver Prostate Centre



Acquired resistance to a drug treatment is a common problem across many cancers including prostate cancer (PCa) - one of the major factors for male mortality. The androgen receptor (AR) continues to be the main therapeutic PCa target and despite the success of modern targeted therapies such as enzalutamide, resistance to these drugs eventually develops. [Abstract](#)

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Awards

Faculty of Medicine Scientists Named to International 2019 Highly Cited Researchers List

UBC Faculty of Medicine



Members of the UBC Faculty of Medicine community, including Dr. Inanc Birol *(pictured)*, have been named to the global Highly Cited Researchers 2019 List. Clarivate Analytics compiles the list, based on highly cited research papers, which are defined as those ranking in the top one per cent by citations in that field and year of publication in the Web of Science. [Read More](#)

Sophia Frangou Awarded 2019 Colvin Prize for Bipolar Mood Disorder Research

UBC Faculty of Medicine



Dr. Sophia Frangou *(pictured)*, Professor and UBC President's Excellence Chair in Brain Health, has been awarded the prestigious 2019 Colvin Prize for Outstanding Achievement in Mood Disorders Research. The prize recognizes Dr. Frangou's impactful research, which has greatly advanced the understanding of the pathophysiology of bipolar disorder, particularly in relation to genetic and familial risk. [Read More](#)

Ignite Program Awards \$148,000 to Aspect Biosystems

Innovate BC



Innovate BC, the crown agency that supports the province's thriving innovation sector, has awarded \$148,000 to Dr. Konrad Walus of UBC and industry partner Aspect Biosystems, led by Dr. Tamer Mohamed *(pictured)*. Their project will investigate advanced sensing and control of 3D bioprinting technology enabling automated clinical tissue manufacturing. [Read More](#)

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Local News

Scientific Advance Delves Deeper into Cancer Than Ever Before

BC Cancer



BC Cancer scientists, led by Dr. Samuel Aparicio *(pictured)* in partnership with UBC, Memorial Sloan Kettering Cancer Center and Microsoft, have developed a new method for analyzing cancer tissue, allowing them to learn more about cancer than previously possible. Researchers can now read the genomes of single cells within a tumour, opening up a new wave of understanding of how and why cancer develops and changes over time. [Read More](#)

Bioinformatics Tool Tracks Genomic Variants Found in Individuals with Autism Spectrum Disorder

Michael Smith Laboratories



VariCarta, a new online database created by researchers in the laboratory of Dr. Paul Pavlidis *(pictured)*, collects autism spectrum disorder (ASD) data in a carefully curated and consistent way that is easy-to-use and is accessible to all researchers. VariCarta currently represents the largest collection of systematically curated, harmonized, and annotated literature-derived variants specific to ASD. [Read More](#)

Twenty Incredible Ways the BC Cancer - Genome Sciences Centre Has Made a Global Impact over the Last Twenty Years

BC Cancer



The BC Cancer - Genome Sciences Centre (GSC) is celebrating 20 years, and as researchers look to the future, they've listed twenty incredible ways that the centre has made its mark on the world, not just in the health care industry, which have had lasting impacts locally and globally. The world-renowned team of researchers at the GSC has significantly advanced our modern understanding of cancer and has helped BC to achieve some of the best cancer outcomes in the world. [Read More](#)

Do You Know How Old Your Kids Really Are?

Research2Reality



Researchers at BC Children's Hospital, UBC, and the University of California, Los Angeles have set about developing an epigenetic clock to measure developmental age in children. Using DNA from 1,032 healthy individuals aged 0 to 20, the researchers found 94 genetic sites that can predict age. Dubbed the Pediatric-Buccal-Epigenetic clock, the combination of changes at these sites can pinpoint age to within four months with just a cheek swab. [Read More](#)

High Schoolers Get a Crash Course in Biomedical Research

Providence Health Care News



Twice a year, the UBC Centre for Heart Lung Innovation at St. Paul's organizes High School Student Week, where eight high school students from across the Lower Mainland get to slip on white lab coats and experience what it's like to work as life science researchers. Over the course of the intensive week, students not only learn about basic science and clinical research, they also get hands-on training in molecular biology techniques. [Read More](#)

Taking Complex Prostate Cancer Research to the Next Level

Vancouver Coastal Health Research Institute



One in seven Canadian men will receive a diagnosis of prostate cancer at some point during their lifetimes. A protein bioengineering core of specialists and equipment being established at the Vancouver Prostate Centre by Dr. Nada Lalous *(pictured)* could open the door to new treatment avenues for men with the deadliest forms of the disease. [Read More](#)

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 **Upcoming Events in Vancouver**

- November 25 11:00 AM **SoLit PDA Joint Coffee Social**
Life Sciences Institute
- November 26 7:30 PM **Building a Better World Through Science Communication with Koby Michaels**
Yagger's Downtown
- November 27 9:00 AM **Fraser Health and SFU Research Pitching Day**
SFU Surrey Campus
- November 27 3:00 PM **What's REALLY in Your Natural Health Products?**
BCIT
- November 27 6:30 PM **Canada Gairdner Public Lecture Series: Discovering the Secrets of Cancer**
Science World at Telus World of Science

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 **STEMCELL Jobs in Vancouver**

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STEMCELL Technologies
- Social Media Coordinator**
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 **Other Science Jobs in Vancouver**

- Scientist, Conjugation Chemistry**
Zymeworks
- Canada Research Chair in Stem Cell Biology**
SFU
- Product Manager, Preclinical & Clinical Scale-Up Products**
Precision Nanosystems
- Senior Technician, Molecular Biology**
adMare BiInnovations
- FRONTIER Trial Clinical Research Coordinator**
Providence Health Care Research Institute

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