

Publications of the Week

Structural Insight into the *Staphylococcus aureus* ATP-Driven Exporter of Virulent Peptide Toxins

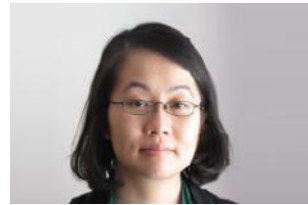
First Author: Natalie Zeytuni (pictured, front, third from right) | Senior Author: Natalie Strynadka (front, left)
Science Advances | The Centre for Blood Research and UBC



Staphylococcus aureus is a major human pathogen that has acquired alarming broad-spectrum antibiotic resistance. One group of secreted toxins with key roles during infection is the phenol-soluble modulins (PSMs). The authors demonstrate that the minimal PSM transport (Pmt) unit necessary for PSM export is PmtCD, and provide its first atomic characterization by single-particle cryo-EM and x-ray crystallography. [Profile](#) | [Abstract](#)

Accelerated Epigenetic Aging and Methylation Disruptions Occur in Human Immunodeficiency Virus Infection Prior to Antiretroviral Therapy

First Author: Chen Xi Yang | Senior Author: Janice Leung (pictured)
The Journal of Infectious Diseases | Centre for Heart Lung Innovation and UBC



Whether accelerated aging develops over the course of chronic HIV infection or can be observed prior to significant immunosuppression is unknown. The authors studied DNA methylation in blood to estimate cellular aging in persons living with HIV (PLWH) prior to the initiation of antiretroviral therapy. PLWH had significantly higher methylation age compared to HIV-negative controls. [Abstract](#)

[View All Publications](#) 

Awards

Awards Announced for DMCBH Students and Post Docs

Djavad Mowafaghian Centre for Brain Health



Many awards have been handed out to Djavad Mowafaghian Centre for Brain Health (DMCBH) students and postdoctoral fellows. Among the recipients is Alireza Kamyabi (pictured), a MSc student under the supervision of Dr. Brian MacVicar, who is investigating the interplay between astrocyte and neuronal signals, providing valuable information about the relative significance of glial networks as an additional module for information processing in the brain. [Read More](#)

[View All Featured Awards](#)  | [View Monthly Awards Summaries](#) 

Local News

Can We Modify Epigenetics to Provide Relief for Allergy Sufferers?

Genome BC



Drs. Chris Carlsten and Michael Kobor from UBC have partnered with Johnson & Johnson in a new project that will harness the power of epigenetic analysis to determine whether the epigenetic landscape in patients suffering from allergies can be modified by the administration of budesonide (Rhinocort[®]), a corticosteroid nasal spray commonly used to treat allergy symptoms. [Read More](#)

Drawing Closer to COVID-19 Treatment Breakthrough

UBC Medicine



A new clinical trial may uncover a treatment method for COVID-19 that could save countless lives worldwide. In this interview with the UBC Faculty of Medicine, the study's lead investigator, Dr. Josef Penninger (pictured), Professor of Medical Genetics at UBC, answers some key questions about the potential breakthrough research. [Read More](#)

[View All Local News](#)  | [Submit an Article](#) 

Interesting Articles

As COVID-19 Brings Unprecedented Challenges, Special Funding Drives R&D

Mitacs



Mitacs has announced several initiatives to help small- and medium-sized enterprises by securing government funding, accessing resources for research and development (R&D), and hiring post-secondary interns to help businesses pivot and address COVID-19 issues. By partnering with Mitacs, small businesses across Canada reduce the risk associated with R&D and are able to hire precisely the right research expertise. [Read More](#)

[View All Interesting Articles](#)  | [Submit an Article](#) 

Upcoming Events in Vancouver

- October 20 4:00 PM **Life After Graduate School**
Online
- October 24 10:00 AM **SCWIST x Science World STEM Quiz: Halloween Edition**
Online
- October 26 2:00 PM **Virtual: 2020 Vancouver Gairdner National Symposium**
Online
- October 26-28 8:00 AM **2020 Till & McCulloch Virtual Meeting**
Online
- October 28 5:00 PM **Battle Lines: Fighting COVID-19 at the Intersection of Policy, Treatment and Prevention**
Online

[View All Events](#)  | [Submit an Event](#) 

STEMCELL Jobs in Vancouver

- Scientific Recruiter**
[STEMCELL Technologies](#)
- Senior Scientific Support Representative**
[STEMCELL Technologies](#)
- Quality Control Specialist, Raw Materials**
[STEMCELL Technologies](#)
- Sales Development Representative**
[STEMCELL Technologies](#)
- Quality Control Analyst**
[STEMCELL Technologies](#)

[View 27 Other STEMCELL Jobs](#) 

Other Science Jobs in Vancouver

- Scientist / Sr. Scientist, *In Vivo* Pharmacology**
Chinook Therapeutics
- Laboratory Automation Technician**
AbCellera
- Tier 2 Canada Research Chair in Clinical Cancer Genetics and Genomics**
UBC Department of Medical Genetics
- Research Assistant/Technician 4**
Michael Smith Labs
- Stem Cell Biologist**
Aspect Biosystems

[View 56 Other Science Jobs](#)  | [Submit a Job](#) 



Five Tips for Returning to the Lab After Time Off


[READ NOW >](#)

Submit your articles and events by reaching out to us at info@scienceinvancouver.com.

BROUGHT TO YOU BY



STEMCELL Technologies
Products | Services

STEMCELL Science News
Free Weekly Updates on Your Field

The Stem Cell Podcast
Interviews and Updates on Stem Cell Science

