

### Publications of the Week

#### CryoEM Structure of the Antibacterial Target PBP1b at 3.3 Å Resolution

First Author: Nathanael Cavener (*pictured, back, second from left*) | Senior Author: Natalie Strynadka (*front, left*)  
Nature Communications | UBC and the Centre for Blood Research



The pathway for the biosynthesis of the bacterial cell wall is one of the most prolific antibiotic targets, exemplified by the widespread use of  $\beta$ -lactam antibiotics. The authors determine the near atomic resolution structure of the 83 kDa class A penicillin-binding protein (PBP) from *Escherichia coli*, PBP1b, using cryogenic electron microscopy and a styrene maleic acid anhydride membrane mimetic.

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

#### Transcriptome-Wide Association Study Uncovers the Role of Essential Genes in Anthracycline-Induced Cardiotoxicity

First Author: Erika Scott | Senior Author: Colin Ross (*pictured*)  
npj Genomic Medicine | UBC and BC Children's Hospital



Anthracyclines are highly effective chemotherapeutic agents; however, their clinical utility is limited by severe anthracycline-induced cardiotoxicity (ACT). The authors conducted a transcriptome-wide association study using their previous genome-wide association study summary statistics to identify gene expression-related associations with ACT. [Abstract](#)

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### Awards

#### May 2021 Award Winners

Science in Vancouver

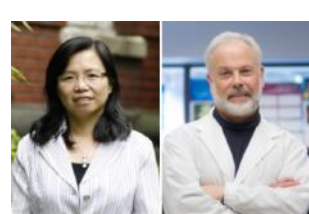


Dr. Florian Kuchenbauer (*pictured*) won Proteona's Single Cell Multimomics Grant for multiple myeloma, which includes \$50,000 USD in Proteona's ESCAPE™ multi-omic single cell analysis services to better understand how and why highly complex tumours respond to new and existing therapies. Find out which other Vancouver researchers won grants, awards, or scholarships in this month's award summary.

[Read More](#)

#### Could Inflammation in This Pathway Provide a New Target for ALS Therapies?

Brain Canada Foundation



Canadian virologist Dr. Honglin Luo (*pictured, left*) and her colleague Dr. Neil Cashman (*right*) recently discovered that an immune pathway known as cyclic GMP-AMP synthase-stimulator of interferon genes (cGAS-STING) is activated by mutations in the *SOD1* gene, which is a causal factor of amyotrophic lateral sclerosis (ALS). Now, with the support of a 2020 Discovery Grant, the UBC-based team will push further in determining the role cGAS-STING plays in ALS.

[Read More](#)

#### UBC Researchers Supported by New Frontiers in Research Fund 2020 Exploration Grants to Pursue Breakthrough Ideas

UBC Research & Innovation



The New Frontiers in Research Fund 2020 Exploration competition has awarded funds to support 117 research projects across Canada that bring diverse disciplines together in pursuit of breakthrough ideas and high-reward outcomes. Dr. Jayachandran Kizhakkedathu's (*pictured*) project explores endothelial glycocalyx repair and rebuild as a novel treatment for inflammatory and immune-mediated diseases. [Read More](#)

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

### Local News

#### Q&A: How SFU's CL3 Lab Is Equipping SFU Researchers in the Global Fight against COVID-19

SFU News



SFU's Containment Level 3 (CL3) lab is one of a few biosecure facilities in Canada that are certified by the Public Health Agency of Canada. *SFU News* recently sat down with Dr. Ralph Pantophlet (*pictured*), the inaugural Scientific Director for SFU's CL3 Lab and Health Sciences Professor, to discuss his new role, how the new lab is helping in the global fight against COVID-19 and the importance of getting fully vaccinated as soon as it is your turn. [Read More](#)

#### Asian Heritage Month: A Profile of Ly Vu

SFU Faculty of Science



Dr. Ly Vu (*pictured*) is an Assistant Professor of the Department of Molecular Biology and Biochemistry at SFU, and a scientist at the BC Cancer Agency's Terry Fox Laboratory. She is from Vietnam, and moved to Vancouver in 2019 to start her independent research group that studies a molecular mechanism underlying blood cancer. "I've always had a curiosity about nature," she says. [Read More](#)

#### Childhood Cancer Discovery May Stop Tumour Spread before It Starts

BC Cancer



Researchers with BC Cancer and UBC led by Dr. Poul Sorenson (*pictured*) have learned that Ewing sarcoma cells, and likely other types of cancer cells, are able to develop their own shielding which protects them from the harsh environment of the bloodstream and other locations as they search for a new place to settle, or metastasize. [Read More](#)

#### Podcast Diabetes: From Beta Cells to Bicycles: Dr. Brian Rodrigues

BC Diabetes Research Network



Dr. Brian Rodrigues (*pictured*) is a Professor in the Faculty of Pharmaceutical Sciences at UBC. During diabetes, the heart switches to using fats exclusively as an energy supply. Dr. Rodrigues is interested in examining the mechanism of how fat fuels are provided to the heart and how excess fats can lead to cardiac disease. [Read More](#)

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### Upcoming Events in Vancouver

June 8 9:00 AM	<b>SBME Annual Symposium 2021</b> Online
June 8 1:00 PM	<b>BCDRN Meet the Researcher Series #5</b> Online
June 9 10:00 AM	<b>BC Showcase for BIO Digital</b> Online
June 10 7:30 AM	<b>UBC Department of Medicine Annual Faculty &amp; Staff Awards Presentation</b> Online
June 17 12:00 PM	<b>CGSHE Speaker Series Presents: Dr. Rod Knight</b> Online

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### STEMCELL Jobs in Vancouver

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[STEMCELL Technologies](#)

**Scientific Marketing Specialist**  
[STEMCELL Technologies](#)

**Scientific Marketing Manager, Asia**  
[STEMCELL Technologies](#)

**Product Manager, Services**  
[STEMCELL Technologies](#)

**Quality Control Specialist, Pluripotent Stem Cells**  
[STEMCELL Technologies](#)

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### Other Science Jobs in Vancouver

**Research Associate, Antibody Characterisation**  
adMare Bioinnovations

**Research Assistant/Technician 3 (Turvey Lab)**  
UBC

**Senior Research Scientist, Genetic Engineering**  
AbCellera

**Provincial Coordinator, BC COVID-19 Immunization in CKD Patients Study**  
Providence Health Care Research Institute

**Cell Culture Technician**  
Applied Biological Materials

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**Webinar: Leukopak Processing**  
Tips & Tricks for Streamlined Cell Isolation



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