

Publications of the Week

### Enterohemorrhagic *Escherichia coli* Responds to Gut Microbiota Metabolites by Altering Metabolism and Activating Stress Responses

First Author: Stefanie Vogt | Senior Author: Brett Finlay (pictured)  
Gut Microbes | Michael Smith Laboratories and UBC



Enterohemorrhagic *Escherichia coli* (EHEC) is a major cause of severe bloody diarrhea, with potentially lethal complications, such as hemolytic uremic syndrome. In this study, the authors used a combined RNA-Seq and Tn-Seq approach to characterize EHEC's response to metabolites from an *in vitro* culture of 33 human gut microbiota isolates, previously demonstrated to effectively resolve recurrent *Clostridioides difficile* infection in human patients. [Abstract](#)

### Differentiation of Peritubular Myoid-Like Cells from Human Induced Pluripotent Stem Cells

First Author: Meghan Robinson | Senior Author: Ryan Flannigan (pictured)  
Advanced Biology | Vancouver Prostate Centre and UBC



Infertility affects 10–15% of couples, with half attributed to male factors. An improved understanding of the cell-type-specific dysfunction contributing to male infertility is needed to improve available therapies; however, human testicular tissues are difficult to obtain for research purposes. This study set forth to generate a molecular-based differentiation method for deriving peritubular myoid cells from human induced pluripotent stem cells, mirroring *in vivo* patterning factors. [Abstract](#)

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Awards

### March 2023 Award Winners

Science in Vancouver



Dr. Amy Jamieson (pictured) received a Vancouver Coastal Health Research Institute Investigator Award for her work to further refine the classification of p53abn endometrial cancers — which represent only 15 percent of endometrial cancer cases, but result in 50 to 70 percent of deaths — through analysis of molecular differences. See which other Vancouver researchers received awards in March. [Read More](#)

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Local News

### SFU Research Aids Fight Against Treatment-Resistant Superbugs

SFU News



Researchers at SFU are studying the genes of superbugs to aid the development of new and effective treatments for drug-resistant bacterial infections. "Antimicrobial resistance occurs when the disease-causing bacteria has ways to overcome the antibiotics that we use in treatment for infections," says Assistant Professor Dr. Amy Lee (pictured) of SFU's Department of Molecular Biology and Biochemistry. [Read More](#)

### Discovering the Likely Cause of Manic Symptoms in Bipolar Disorders

Vancouver Coastal Health Research Institute



In a breakthrough study, researchers have identified a potential root cause of acute manic symptoms among people with bipolar disorder. The new study, led by Vancouver Coastal Health Research Institute researcher Dr. Lakshmi Yatham (pictured), is the first to discover a relationship between manic symptoms experienced by people with bipolar disorder and a decrease in dopamine transporter density. [Read More](#)

### Using the Body's Smallest Clues to Detect Disease

SFU Research



What if we could test for and treat a disease before noticing symptoms? Researchers in Dr. Michael Adachi's (pictured) lab at SFU are working on ultrasensitive, rapid sensors that can signal disease at an early stage using cytokine biomarkers. Biomarkers are measurable molecular indicators in the body commonly used to detect cancers, determine the severity of heart attacks, and avoid invasive diagnostics. [Read More](#)

### Vaginal Microbiome Does Not Influence Babies' Gut Microbiome

UBC Medicine



It has long been assumed that birth mode and exposure of newborns to their mother's vaginal microbiome during delivery greatly affects the development of a baby's gut microbiome. A new study from Dr. Deborah Money's (pictured) group examined this interplay. The findings show that, contrary to popular belief, a mother's vaginal microbiome composition does not significantly affect their baby's microbiome development. [Read More](#)

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### Upcoming Events in Vancouver

- April 14  
3:00 PM

**2023 Michael Smith Distinguished Lecture – Dr. Karen Miga**  
Life Sciences Institute
- April 20  
4:00 PM

**Celebrate Research Public Lecture**  
St. Paul's Hospital & Online
- April 27  
9:00 AM

**MBB Graduate Colloquium 2023**  
Nikkei National Museum and Cultural Centre
- April 27  
8:00 PM

**Science of Cocktails**  
Science World
- April 28  
9:00 AM

**2023 MBIM Undergraduate Research Symposium**  
Michael Smith Laboratories

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### STEMCELL Jobs in Vancouver

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[STEMCELL Technologies](#)
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- Research Associate, Liver Biology**  
[STEMCELL Technologies](#)
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### Other Science Jobs in Vancouver

- Senior Research Associate, Multispecific Antibody Therapeutics**  
Zymeworks
- Applied Scientist**  
AbCellera
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- Research Associate II, Pharmacology (12 Month Contract)**  
Chinook Therapeutics
- Research Assistant/Technician 3**  
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