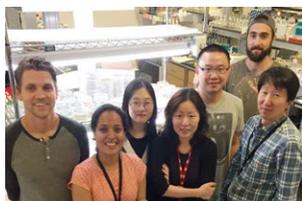


## Publications of the Week

## Gene Regulatory Networks for the Haploid-to-Diploid Transition of *Chlamydomonas reinhardtii*

First Author: Sunjoo Joo (*fourth from left*) | Senior Author: Jae-Hyeok Lee (*far right*)  
Plant Physiology | UBC



The sexual cycle of the unicellular *Chlamydomonas reinhardtii* culminates in the formation of diploid zygotes which differentiate into dormant spores that eventually undergo meiosis. To investigate the genetic underpinnings of the zygote developmental pathway, the authors performed comparative transcriptome analysis of both pre- and post-fertilization samples. [Profile](#) | [Abstract](#)

## HIT'nDRIVE: Patient-Specific Multi-Driver Gene Prioritization for Precision Oncology

First Author: Raunak Shrestha | Senior Author: Cenk Sahinalp (*pictured*)  
Genome Research | Vancouver Prostate Centre and SFU



Prioritizing molecular alterations that act as drivers of cancer remains a crucial bottleneck in therapeutic development. The authors introduced HIT'nDRIVE, a computational method that integrates genomic and transcriptomic data to identify a set of patient-specific, sequence-altered genes, with sufficient collective influence over dysregulated transcripts. [Abstract](#)

## Repeated Exposure to Sucrose for Procedural Pain in Mouse Pups Leads to Long-Term Widespread Brain Alterations

First Author: Sophie Tremblay | Senior Author: Ruth Grunau (*pictured*)  
Pain | UBC



Oral sucrose is administered routinely to reduce pain of minor procedures in premature infants and is recommended as standard care in international guidelines. No human or animal studies on effects of early repeated sucrose exposure on long-term brain development have been done in the context of pain. The authors evaluated the effects of repeated neonatal sucrose treatment before an intervention on long-term brain structure in mouse pups. [Abstract](#)

## REVIEW: Targeting Fyn Kinase in Alzheimer's Disease

Author: Haakon Nygaard (*pictured*)  
Biological Psychiatry | UBC



The past decade has brought tremendous progress in unraveling the pathophysiology of Alzheimer's disease (AD). While increasingly sophisticated immunotherapy targeting soluble and aggregated brain amyloid-beta (A $\beta$ ) continues to dominate clinical research in AD, a deeper understanding of A $\beta$  physiology has led to the recognition of distinct neuronal signaling pathways linking A $\beta$  to synaptotoxicity and neurodegeneration and to new targets for therapeutic intervention. [Abstract](#)

[View All Publications](#)

## Awards

### July 2017 Award Recipient Summary



Learn about the Vancouver researchers who received grants, awards, fellowships, and scholarships this past month! Winners include Dr. Carles Vilarino-Guell (*pictured*), a principal investigator at the Centre for Brain Health at the University of British Columbia, who is one of twenty researchers from Vancouver to receive a Michael Smith Foundation for Health Research Scholar Award. [Read More](#)

### Dr. Amina Zoubeydi Awarded PCC-Movember Translation Acceleration Grant

Vancouver Prostate Centre



Continuing their longstanding tradition of partnering to fund high quality Canadian prostate cancer research, Prostate Cancer Canada (PCC) and The Movember Foundation have awarded Dr. Amina Zoubeydi a translation acceleration grant. The project aims to develop blockers of BRN2, a gene linked to the growth of aggressive neuroendocrine prostate cancer. [Read More](#)

### Dr. Mark Harrison Receives Scholar Award from MSFHR

Centre for Health Evaluation and Outcome Sciences



Centre for Health Evaluation and Outcome Sciences scientist Dr. Mark Harrison was among the 20 B.C.-based health researchers that received 2017 Scholar Awards from the Michael Smith Foundation for Health Research (MSFHR). The MSFHR Scholar Program supports the development of B.C.'s research talent by providing salary support to scientists who are building strong research programs and training new scientists. [Read More](#)

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## Local News

### New Genomics Project Aims to Prevent Adverse Drug Reactions in Children



Many medications can cause unintended side effects, also known as adverse drug reactions (ADRs). In an effort to reduce severe ADRs in Canada, researchers at UBC and the BC Children's Hospital Research Institute have partnered with Dynacare, a health and wellness solutions company, which offers the largest and most advanced menu of diagnostic and screening tests in Canada. [Read More](#)

## Getting Dirty Can Act as a Natural Antidepressant

Reader's Digest



A growing body of research suggests that dirt, and the bacteria within it, may help stave off the blues in some people. Dr. Brett Finlay, a professor of microbiology at the University of British Columbia and author of *Let Them Eat Dirt*, discusses the evidence linking microbes to depression, and what might lie in the future of this research field. [Read More](#)

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### Upcoming Events in Vancouver

- |                          |   |
|--------------------------|---|
| August 9 - 11<br>8:00 AM | <b>Precision Medicine &amp; Ion Channel Retreat</b><br>Coast Coal Harbour Hotel                       |
| August 11<br>9:00 AM     | <b>Proteomics and Membrane Proteomics Workshop</b><br>Shrum Science Centre                            |
| August 12<br>3:00 PM     | <b>UBC PDA Kayaking</b><br>Deep Cove Kayak  |
| August 17<br>12:00 PM    | <b>CBR Research Day</b><br>Life Sciences Centre   |
| August 17<br>4:00 PM     | <b>Discussions Relevant to Inspiring New Knowledge and Science</b><br>Mahony and Sons, Stamps Landing |

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### Science Jobs in Vancouver

#### **Manufacturing Technologist, Labs**

STEMCELL Technologies

#### **Research Technologist**

STEMCELL Technologies

#### **Director, Biostatistics**

Aquinox Pharmaceuticals

#### **Senior Lab Technician**

Precision NanoSystems

LIVE WEBINAR: DR. RU GUNAWARDANE (ALLEN INSTITUTE)

**Using CRISPR/Cas9 to Model Stem Cell Organization & Dynamics**



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