

Publications of the Week

Untangling the Effects of Cellular Composition on Coexpression Analysis

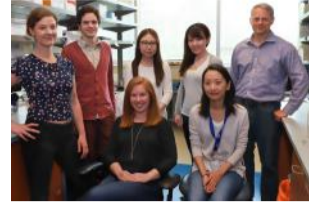
First Author: Marjan Farahbod (pictured) | Senior Author: Paul Pavlidis
bioRxiv | Michael Smith Laboratories



The authors found that for most genes, differences in expression levels across cell types accounted for a large fraction of the variance of their measured RNA levels in the brain. They showed that genes that had similar expression patterns across cell types had correlated RNA levels in bulk tissue, due to the effect of variation in cellular composition. They demonstrated that much of the coexpression in the bulk tissue could be attributed to this effect. [Profile](#) | [Abstract](#)

TrxG Complex Catalytic and Non-Catalytic Activity Play Distinct Roles in Pancreas Progenitor Specification and Differentiation

First Author: Stephanie Campbell (pictured, front row, left) | Senior Author: Brad Hoffman (back row, right)
Cell Reports | BC Children's Hospital Research Institute and UBC



Appropriate regulation of genes that coordinate pancreas progenitor proliferation and differentiation is required for pancreas development. The authors explored the role of H3K4 methylation and the Trithorax group (TrxG) complexes in mediating gene expression during pancreas development. Disruption of TrxG complex assembly, but not catalytic activity, prevented endocrine cell differentiation in pancreas progenitor spheroids. [Profile](#) | [Abstract](#)

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Awards

Dr. Edmond S. Chan Receives 2019 Robyn Allen Leadership Award

UBC Medicine



Dr. Edmond Chan (pictured), a UBC Clinical Associate Professor and Head of the Division of Allergy & Immunology in the Department of Pediatrics at UBC, has won the 2019 Robyn Allen Leadership Award. The award recognizes an individual who has made a unique contribution to the lives of Canadians with food allergy through their efforts in education, advocacy, community building, leadership or fundraising. [Read More](#)

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Local News

Study Finds Lack of Racial Diversity in Cancer Drug Clinical Trials

UBC News



New research led by investigators at UBC has found a lack of racial and ethnic diversity in clinical trials for cancer drugs. The researchers found that fewer than eight per cent of cancer drug trials reported participation from the four major races in the United States between 2008 and 2018. The study raises concerns about the effectiveness of cancer drugs in some patients, especially since genetic differences may affect how well a patient responds to a drug. [Read More](#)

New Research Findings Could Explain Why Prenatal Stress Exposure Increases Vulnerability to Stress Later in Life

SFU



SFU Assistant Professor Nadine Provençal and researchers from the Max Planck Institute of Psychiatry in Germany have identified a "cellular memory" that could help explain how fetal exposure to stress during pregnancy affects how we respond to stress exposure later in life. They observed that developing neurons exposed to stress hormones had epigenetic marks on their genes that remained even after the stress hormones were removed. [Read More](#)

NGen Funding to Transform Manufacturing of Critical Materials in Gene Therapies

STEMCELL Technologies



Next Generation Manufacturing Canada (NGen) has approved Supercluster funding for a transformative \$4.2 million project led by iVexSol Canada to develop an advanced manufacturing process for lentiviral vectors. Using the catalyst of NGen funding, iVexSol intends to form a core team of partners including CCRM Enterprises Inc., GE Healthcare and STEMCELL Technologies. [Read More](#)

UBC Selected to Participate in the Dimensions: Equity, Diversity and Inclusion Pilot

UBC Research + Innovation



UBC has been announced as one of the 17 institutions selected to participate in the Dimensions: Equity, Diversity and Inclusion Canada pilot program. The Dimensions pilot program is designed to foster increased research excellence, innovation and creativity within the post-secondary sector across all disciplines through increased equity, diversity and inclusion. [Read More](#)

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Interesting Articles

'The System Is Swamped.' Canada Can't Keep Up with Requests to Study Cannabis

Science Insider



The Canadian government is scrambling to respond to a glut of license applications for cannabis research prompted by the drug's legalization in October 2018. The queue of applicants—there were 251 in line as of late July—and the attendant monthslong waiting times are frustrating scientists interested in the basic biology and therapeutic possibilities of cannabis. The delays are also prompting criticism of Health Canada. [Read More](#)

Canadian Researchers Are Better Supported and More Diverse than Ever Before

Government of Canada



The Honourable Kirsty Duncan, Minister of Science and Sport, and the Honourable Bill Morneau, Minister of Finance, recently highlighted the Government of Canada's historic \$10 billion investment in science and research over the past four years. In addition, they announced a new equity, diversity and inclusion pilot program. Starting in September, 17 post-secondary institutions will lead the way in increasing diversity at these institutions. [Read More](#)

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Upcoming Events in Vancouver

August 27 7:30 PM	Café Scientifique Vancouver Yagger's Downtown
August 29 11:00 AM	Career Spotlight: Research in Big Pharma Centre for Heart Lung Innovation
August 29 4:00 PM	D.R.I.N.K.S. (Discussions Relevant to Inspiring New Knowledge and Science) Mahony and Sons, Stamps Landing
September 1 1:00 PM	Rainbow Trout are Way Cool because... Beaty Biodiversity Museum
September 11 9:00 AM	WordPress Training Workshop UBC Life Sciences Centre

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STEMCELL Jobs in Vancouver

Associate Product Manager, Pluripotent Stem Cell Biology

STEMCELL Technologies

Scientist, Particle Chemistry

STEMCELL Technologies

Manager, Brand and Corporate Marketing

STEMCELL Technologies

Regional Sales Manager, Northern China

STEMCELL Technologies

Senior Quality Assurance Specialist

STEMCELL Technologies

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Other Science Jobs in Vancouver

Associate Director, BC Children's Hospital Research Institute

BC Children's Hospital Research Institute

Professorship in Clinical and Community Cardiovascular Pharmacy

UBC Faculty of Pharmaceutical Sciences

Senior Research Associate, Oncology

Zymeworks

Bioinformatics Analyst/Programmer

UBC Faculty of Medicine, Department of Psychiatry, Pavlidis Lab

Market Development Manager

Vanrx

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