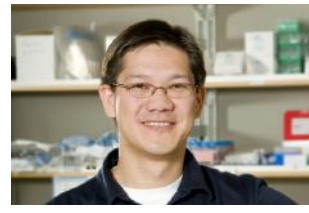


Publications of the Week

Synthetic Modeling Reveals HOXB Genes are Critical for the Initiation and Maintenance of Human Leukemia

First Author: Manabu Kusakabe | Senior Author: Andrew Weng (pictured)
Nature Communications | BC Cancer and Michael Smith Laboratories



The authors report an efficient, reproducible model of T-cell leukemia in which lentiviral transduction of normal human cord blood yields aggressive leukemia that appears indistinguishable from natural disease. They utilized this synthetic model to uncover a role for oncogene-induced HOXB activation which is operative in leukemia cells-of-origin and persists in established tumours. [Profile](#) | [Abstract](#)

A Positive Feedback Loop between Myc and Aerobic Glycolysis Sustains Tumour Growth in a *Drosophila* Tumour Model

First Author: Kenneth Kin Lam Wong | Senior Author: Esther Verheyen (pictured)
eLife | SFU



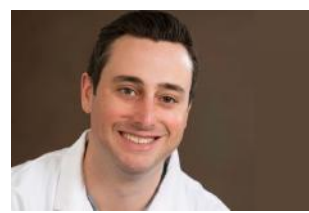
Cancer cells usually exhibit aberrant cell signalling and metabolic reprogramming. The authors showed that in an *in vivo* tumour model expressing oncogenic *Drosophila* homeodomain-interacting protein kinase (Hipk), tumour cells displayed elevated aerobic glycolysis. Mechanistically, elevated Hipk drove transcriptional upregulation of *Drosophila* Myc, likely through convergence of multiple perturbed signalling cascades. [Abstract](#)

[View All Publications](#)

Awards

Caitlin Dunne and Zachary Laksman Named to Canada's Top 40 Under 40

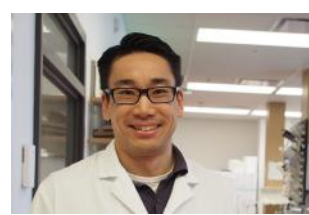
UBC Medicine



Two UBC Faculty of Medicine members have been named to BNN Bloomberg's 2019 Top 40 Under 40 list which recognizes Canada's next leaders. Caitlin Dunne and Zachary Laksman (pictured), both Clinical Assistant Professors, are among 44 recipients chosen from more than 850 nominees by an independent advisory board of business leaders from across Canada. [Read More](#)

Jonathan Choy and Tom Blydt-Hansen Receive Grants from the Transplant Research Foundation of British Columbia

Transplant Research Foundation of British Columbia



Transplant Research Foundation of BC grants provide funding to BC based scientists conducting transplant research in new areas of exploration that will lead to better quality of life and improved outcomes for transplant patients. Jonathan Choy (pictured) will be investigating the role of IL-17 receptor A in transplant rejection. Tom Blydt-Hansen will be investigating serum immunometabolomic profiles associated with kidney transplant alloimmune outcomes. [Read More](#)

AbCellera Wins 2019 Technology Impact Award

AbCellera team



AbCellera has received a Technology Impact Award for Company of the Year - Scale Success. The winners of the 2019 Technology Impact Awards, proudly announced by the BC Tech Association, represent the cream of an impressive crop of innovative ventures fuelling unprecedented growth and global competitiveness across British Columbia. [Read More](#)

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Local News

UBC Scientists Capture Images of Gene-Editing Enzymes in Action

UBC News



For the first time, scientists at UBC have captured high-resolution, 3D images of an enzyme in the process of precisely cutting DNA strands. The images, captured using a technique called cryogenic electron microscopy, reveal new information about how a gene-editing tool called CRISPR-Cas9 works, which may help researchers develop versions of it that operate more efficiently and precisely to alter targeted genes. [Read More](#)

Ballsy Participants Sought for Vancouver Testicle Study

Vancouver Sun



Dr. Ryan Flannigan (pictured), a Vancouver General Hospital urologist who is the Director of the male infertility and sexual medicine research program at UBC, said that he has seen up to 100 men with chronic scrotum pain in the last six months alone. He is leading a study on a new way to treat scrotum pain using an old but reformulated numbing medication with lidocaine. [Read More](#)

UBC Scientists Find High Mutation Rates Generating Genetic Diversity within Huge, Old-Growth Trees

UBC News



UBC researchers scraped bark and collected needles from 20 hundred-year-old Sitka spruce trees last summer, sending the samples to a lab for DNA sequencing. Results showed that a single old-growth tree could have up to 100,000 genetic differences in DNA sequence between the base of the tree, where the bark was collected, and the tip of the crown. [Read More](#)

Careers Column: Dr. Sharmin Esmailzadeh

BC RegMed



The BCREGEMED career column features scientific professionals in British Columbia. For this issue, they interviewed Dr. Sharmin Esmailzadeh (pictured), Account Manager of Cell Culture Products at STEMCELL Technologies, where she talked about the day-to-day aspects of her job and gives advice for trainees who are interested in working in a similar position. [Read More](#)

Illuminating Hereditary Cancers

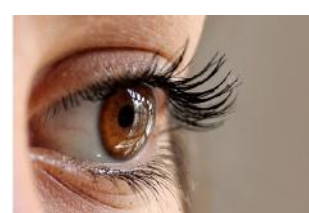
Genome BC



Understanding hereditary cancer is the difference between life and death for Chiquita Hessels, who was diagnosed with breast cancer in 2011. Fortunately, hereditary genetic panel testing is available and enables affected people to learn what cancers they may develop, how often to have medical follow-ups, and what further cancer screening may be required. [Read More](#)

ProtoKinetix Reaches Mid-Point of Third Stage of Retinal Cell Replacement Therapy Testing at UBC

Protokinix Inc.



ProtoKinetix Inc. has reached the mid-point of third stage of testing in retinal cell replacement therapy at UBC. Functionality testing on experimental models three months post-transplant have shown encouraging results. The investigators anticipate results from six-month post-transplant to be available within the next 4-5 weeks. The study is being conducted by the Gregory-Evans Retinal Therapeutic Lab at UBC. [Read More](#)

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Interesting Articles

Marketing Your Published To-Be Paper

Centre for Blood Research



Finally conquered that PhD? Your paper just got accepted? Is your manuscript weeks away from being published? Now what? Fennie Easton van der Graaf, an Undergraduate Student at the Centre for Blood Research, summarizes some tips on marketing your publication to its fullest potential from Postdoctoral researcher and freelance science writer Dr. Anthea Lacchia, and former UBC Medicine Communications Officer Brian Kladko. [Read More](#)

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Upcoming Events in Vancouver

- July 24 - 26
8:00 AM - 17th Annual Precision Medicine and Ion Channel Retreat
Sheraton Vancouver Wall Centre
- August 4
1:00 PM - Squid Ancestors are Way Cool because...
Beaty Biodiversity Museum
- August 13
12 PM - CBR Research Day
UBC Life Sciences Centre
- August 14
6:00 PM - Open Science Network: Open Lab
MakerLabs

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Research Associate, Human Immunology
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PATHOGEN INFECTION STUDIES LACKED AN OPTIMAL CULTURE SYSTEM. THEN SHE USED ORGANOID.
Webinar by Dr. Devanjali Dutta

STEMCELL TECHNOLOGIES

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