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Volume 1.36: November 20, 2017

Publications of the Week

Structural Insights into Binding of STAC Proteins to Voltage-Gated Calcium Channels

First Author: Siobhan Wong King Yuen (not pictured) | Senior Author: Filip Van Petegem (third from left) PNAS | The Life Sciences Centre and UBC



Excitation-contraction (EC) coupling in skeletal muscle requires functional and mechanical coupling between L-type voltage-gated calcium channels and the ryanodine receptor. Recently, STAC3 was identified as an essential protein for EC coupling and is part of a group of three proteins that can bind and modulate L-type voltage-gated calcium channels. The authors report crystal structures of tandem-SH3 domains of different STAC isoforms up to 1.2-Å resolution. Profile | Abstract

Mass Cytometric Analysis Reveals Viable Activated Caspase-3⁺ Luminal Progenitors in the Normal Adult Human Mammary Gland

First Author: David Knapp | Senior Author: Connie Eaves (pictured)
Cell Reports | The Terry Fox Laboratories and the BC Cancer Agency



The normal adult human female mammary gland is a bilayered structure consisting of an outer basal layer and two readily distinguished subsets of cells within the inner luminal layer. The authors present a validated methodology for undertaking large-scale multi-parameter mass cytometric analyses of these cell types at single-cell resolution. **Profile | Abstract**

Microbiome-Driven Allergic Lung Inflammation Is Ameliorated by Short-Chain Fatty Acids

First Author: Allisa Cait (back row, left) | Senior Author: Bill Mohn (back row, middle)
Mucosal Immunology | The Life Sciences Centre, Biomedical Research Centre, Michael Smith Laboratories, and UBC



Mice treated with vancomycin have an altered microbiome and metabolite profile, exhibit exacerbated T helper type 2 cell responses, and are more susceptible to allergic lung inflammation. The authors showed that dietary supplementation with short-chain fatty acids ameliorates this enhanced asthma susceptibility by modulating the activity of T cells and dendritic cells. **Profile | Abstract**

Immediate Antiretroviral Therapy Decreases Mortality among Patients with High CD4 Counts in China: A Nationwide, Retrospective Cohort Study

First Author: Yan Zhao | Senior Author: Julio Montaner (pictured) Clinical Infectious Diseases | BC Centre for Excellence in HIV/AIDS and UBC



Clinical trials have demonstrated that immediate initiation of antiretroviral therapy (ART) reduces AIDS-related morbidity and mortality. The authors tested the hypothesis that initiating ART ≤30 days after human immunodeficiency virus (HIV) diagnosis would be associated with reduced mortality among people living with HIV with CD4 counts >500 cells/µL, and found a 63% reduction in overall mortality.

Abstract

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Awards

BioLytical Laboratories Named BC Export Award Finalist

BioLytical Laboratories



BioLytical Laboratories has been announced as a finalist of *Business in* Vancouver's 2017 BC Export Awards in the Emerging Exporter category. BioLytical is the developer and manufacturer of INSTI, an HIV test that provides results in one minute. The BC Export Awards are the province's most prestigious awards paying tribute to the success and innovative approaches of B.C. export companies.

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Local News

Can a Simple Smartphone App Stop Pneumonia in Its Tracks?

BC Children's Hospital Research Institute



Despite pneumonia being easy to prevent and treat with antibiotics, oxygen, and fluids, many children in remote areas and developing countries die from lack of treatment. BC Children's Hospital and UBC researchers are working to change that with an easy-to-use, low-cost smartphone tool called *Pocket Doc for Pneumonia*, which will help health care workers in remote areas accurately diagnose pneumonia and provide life-saving treatments. Read More

Peterson's Lab Inc. Entered Strategic Cooperation with Shanghai Corday Biotech Ltd.

Peterson's Lab Inc. via PR Newswire

Peterson's Lab Inc., a developer of bioactive recombinant protein, announced that the company entered into a strategic cooperation with Shanghai Corday Biotech Ltd. under which Shanghai Corday will assume responsibility, on an exclusive basis, for Peterson's Lab's brand promotion and branded prestige skin care



products to consumers in China, Japan and South Korea. Read More

Zymeworks Announces License Agreement with Johnson & Johnson Innovation to Develop and Commercialize Next Generation Bispecific **Antibody Therapeutics**

Zymeworks



Zymeworks Inc., a clinical-stage biopharmaceutical company dedicated to the discovery, development and commercialization of next-generation multifunctional biotherapeutics, has announced that it has executed a licensing agreement with one of the Janssen Pharmaceutical Companies of Johnson & Johnson to research, develop, and commercialize up to six bispecific antibodies directed to Janssen therapeutic targets using Zymeworks' Azymetric™ and EFECT™ platforms.

DelMar Pharmaceuticals Appoints Saiid Zarrabian as Interim Chief **Executive Officer**

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DelMar Pharmaceuticals



DelMar Pharmaceuticals, Inc., a biopharmaceutical company focused on the development of new cancer therapies, has announced the appointment of Mr. Saiid Zarrabian as interim Chief Executive Officer. Jeffrey Bacha, cofounder of DelMar, will continue in his senior management role as President and in the newly created position of Chief Operating Officer. Read More



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Interesting Articles

Connecting Canada's Research and Innovation Agendas

The Vancouver Sun



Dr. Alejandro Adem, the CEO and scientific director of Mitacs, a national, not-for profit organization that funds research and training at universities to foster innovation across all sectors, as well as a Canada Research Chair at UBC, discusses the importance of connecting Canada's research and innovation agendas, and offers advice to the Canadian government, including the new federal science advisor, on how to bridge this gap. Read More

End Canada's Criminal Ban on Contentious CRISPR Gene-Editing Research, Major Science Group Urges



Canada is among the few countries in the world where working with the CRISPR gene-editing system on cells whose DNA can be passed down to future generations is a criminal offence, with penalties of up to ten years in jail. One major science group announced it wants that changed, calling on the federal government to lift the prohibition and allow researchers to alter the genome of inheritable "germ" cells and embryos. Read More

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🖰 Upcoming Events in Vancouver

November 22 **Nerd Nite** 7:00 PM The Fox Cabaret

Collider Cafe: Art. Science. Interwoven. November 22

8:00 PM Cafe Deux Soleils

Genome BC: Does Your DNA Hold the Key to Preventing Adverse November 23

Drug Reactions? UBC Robson Square

November 24 Discussions Relevant to Inspiring New Knowledge and Science

4:00 PM Mahony and Sons

November 25 20 Years of Brain Health: an Anniversary Symposium

Robert H. Lee Alumni Centre 1:00 PM

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6:30 PM

Science Jobs in Vancouver

Senior Manager, Primary Cells

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STEMCELL Technologies

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Zymeworks

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The Centre for Drug Research and Development

Laboratory Coordinator

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