



Publications of the Week

Single-Cell Genomic Variation Induced by Mutational Processes in Cancer



By applying scaled single-cell whole-genome sequencing to wild-type, TP53-deficient and TP53-deficient,BRCA1-deficient or TP53-deficient,BRCA2-deficient mammary epithelial cells (13,818 genomes), and to primary triple-negative breast cancer and high-grade serous ovarian cancer cells (22,057 genomes), the authors identify three distinct foreground mutational patterns that are defined by cell-to-cell structural variation. Abstract

Allosteric Potentiation of GABAA Receptor Single-Channel Conductance by Netrin-1 during Neuronal-Excitation-Induced Inhibitory Synaptic Homeostasis



The authors report the identification of netrin-1 as an endogenous allosteric modulator of A-type gamma-aminobutyric acid receptors (GABA_RRs). Following increased neutronal excitability, netrin-1 is secreted and binds to the outracellular domains of GABA_RR subunits, thereby inducing homeostatic upscaling of GABA_RR mediated synaptic efficacy and currents. Abstract

Awards

Annika Schulz Wins Award in Bioimaging North America's 2022 Contest



A fast learner with a flair for telling detail, Annika Schulz (pictured) took third place in the highly composition. **Biotecnation Notice | Annika Schulz (pictured) took third place Attack and which compelling Biolinaging North America Imaging Contest. The affirmation is a welcome one for Schulz, who states that capturing intricate details of biological processes in a predominantly non-invasive manner will certainly e to be central to my work as a future clinician and scientist." Read More

Killam Doctoral Scholarship Recipients Announced



wenty-six UBC doctoral candidates have received Killam Doctoral Scholarships for the 2022-2023 academic year. The Killam Doctoral Scholarships are provided each year from the Izaak Walton Killam Memorial Fund for Advanced Studies and are awarded to the top doctoral candidates in the annual Tri-Agency/Affiliated Fellowships competition. One recipient, Katherine Baillie (pictured), is using protein trapping to target the replication stress response in cancer. Read Mc

Outstanding Achievement Award by a Postdoctoral Student: Dr. Sarai Racey



Dr. Sarai Racey (pictured) has always been fascinated by the world of viruses and bacteria, their evolution, and how much infectious diseases have shaped human history and the world. She is thrilled to be the recipient of the Outstanding Achievement Award by a Postdoctoral Student in recognition of her exceptional

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Local News

\$2 Million Gift Helps Seed New Ideas at SFU Science



An exceptional \$2 million gift from SFU Professors Emeriti Drs. Claire and William Cupples will help empower researchers in the Faculty of Science at SFU. The Cupples' generous commitment will support the creation of the Life Science Innovation Fund, which will provide an annual award to help researchers initiate proof-of-concept research projects. They will donate \$500,000 over the next five years, and leave the balance in their wills. Read More

The Invisible Lightness of Healing



Benefits of exposing skin to ultraviolet light for people with atopic eczema far outweighs the risk, according to a study that will leave clinicians to rest easy. knowing that prescribed phototherapy does more good than harm. The study, published in the Journal of the American Academy of Dermatology, was authored by Dr. Tashmeeta Ahad (pictured), a clinician-scientist within the Skin Research Program at Vancouver Coastal Health Research Institute, Read More

How Biobanks Can Advance Atherosclerosis Research



The best way to fully understand how atherosclerosis develops and progresses is by studying plaques from human tissues. In a review published in Frontiers in Cardiovascular Medicine, Dr. Ying Wang (pictured), a Principal Investigator at HLI and Director of the Bruce McManus Cardiovascular Biobank, discussed how to leverage biobank resources for translational research. Read More

2023 Scholar and Research Trainee Competitions: Applications Now Open



Michael Smith Health Research BC's Scholar and Research Trainee awards Michael Smith Research StC's Scholar and Research Trames awards provide funding to support DC's now generation of health researchers in advancing science and Improving the health of British Columbians. Applications are now open for their 2022 competitions. The Scholar awards help BC researchers build leading-edge health research programs, train the next generation of schartists, and make significant contributions to their field Read More

HUSHing Repetitive-Like Elements Contributes to Normal Brain Development and Function



The human silencing hub (HUSH) complex might be involved in complex disorders affecting the brain and neurons. However, its mechanism of action remains unclear Researchers from Dr. Josef Penninger's (pictured) lab at the Institute of Molecular Biotechnology of the Austrian Academy of Sciences have uncovered the in vivo targets and physiological functions of a component of the HUSH gene-silencing complex and one of its associated proteins. Read More

