

STEMCELL" SCIENCE VANCOUVER

Publications of the Week

## Interleukin-37 Regulates Innate Immune Signalling in Human and Mouse

**Colonic Organoids** First Author: Joannie Allaire *(pictured)* | Senior Author: Bruce Vallance Scientific Reports | UBC, BC Children's Hospital, and STEMCELL Technologies

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Intestinal epithelial cells reside in close proximity to the gut microbiota and are hypo-responsive to bacterial products, likely to prevent maladaptive inflammatory responses. This is in part due to their strong expression of single immunoglobulin interleukin (IL)-1 related receptor, a negative regulator of IL-1 and toll-like receptor signalling. The authors characterized innate immune responses of human and

murine colonoids to bacteria and host products. Profile | Abstract

Contact Us

Volume 5.17: May 10, 2021

Small Molecule Y-320 Stimulates Ribosome Biogenesis, Protein Synthesis, and Aminoglycoside-Induced Premature Termination Codon Readthrough First Author: Sara Hosseini-Farahabadi | Senior Author: Michel Roberge (pictured)



Some aminoglycosides that bind to the ribosome decoding center can induce premature termination codon (PTC) readthrough and restore low levels of fulllength functional proteins. However, concomitant inhibition of protein synthesis limits the extent of PTC readthrough that can be achieved by aminoglycosides like G418. The authors identified a small molecule, the phenylpyrazoleanilide Y-320, that potently enhances *TP53*, *DMD*, and *COL17A1* PTC readthrough by G418.

**ILC-You in the Thymus: A Fresh Look at Innate Lymphoid Cell Development** First Author: Samuel Shin (pictured) | Senior Author: Kelly McNagny Frontiers in Immunology | ÜBC

The presence and maintenance of innate lymphoid cells (ILCs) are critical for modulating immune homeostasis, responding to injury or infection, and repairing damaged tissues. To date, ILCs have been defined by a set of transcription factors, surface antigens and cytokines, and their functions resemble those of three major

classes of helper T (Th) cell subsets, Th1, Th2 and Th17. Abstract

View All Publications 😜

**April 2021 Award Winners** 



Awards

Dr. Veronica Hirsch-Reinshagen (pictured), Assistant Professor in the Department of Pathology and Laboratory Medicine at UBC and neuropathologist at Vancouver General Hospital, received a Vancouver Coastal Health Research Institute Investigator Award for her work on MRI and histological changes in traumatic spinal cord injuries. Find out which other Vancouver researchers won grants, awards, or scholarships in this month's award summary. Read More

Dr. Connie Eaves Elected to the Royal Society The Royal Society

**Abstract** 



Society as Fellows and Foreign Members. The distinguished group of scientists consists of 52 Fellows, 10 Foreign Members and one Honorary Fellow and were all selected for their exceptional contributions to science. Among this year's Fellows and Foreign Members is Dr. Connie Eaves (pictured), Distinguished Scientist at the Terry Fox Laboratory. Read More **Charu Sankaran Awarded UBC Faculty of Medicine Summer Student** 

Over 60 outstanding scientists from all over the globe have joined the Royal

**Research Program Scholarship BC** Cancer Charu Sankaran (pictured) in Dr. Kevin Hey's lab has been awarded a UBC Faculty



BC Cancer

**BC** Cancer

with an opportunity to explore their interest in health research by undertaking a summer project supervised by a Faculty of Medicine researcher. Read More Lauren Wilkinson Awarded BioCanRx Summer Studentship

> by overcoming cellular senescence". BioCanRx Summer Studentships provide funding for undergraduate and college students to gain work experience in the

Canadian cancer biotherapeutics research sector. Read More

of Medicine Summer Student Research Program scholarship for her research entitled "Improving the persistence of CAR T cells using telomerase". The Faculty of Medicine Summer Student Research Program provides undergraduate students

Lauren Wilkinson (pictured) in Dr. Kevin Hay's lab has been awarded a BioCanRx Summer Studentship for her research entitled "Improving CAR T cell persistence

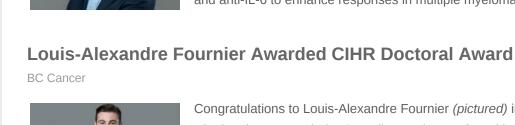


Drs. Florian Kuchenbauer and Kevin Hay Receive Grants from International Myeloma Society and Paula and Rodger Riney Foundation Dr. Florian Kuchenbauer received a grant for his work entitled "Exploring

for his work entitled "Chimeric antigen receptor T cells secreting interleukin (IL)-12

and anti-IL-6 to enhance responses in multiple myeloma." Read More

apolipoprotein B mRNA editing enzyme, catalytic polypeptides as therapeutic vulnerabilities in multiple myeloma" and Dr. Kevin Hay (pictured) received a grant



Congratulations to Louis-Alexandre Fournier (pictured) in Dr. Peter Stirling's lab, who has been awarded a Canadian Institutes of Health Research (CIHR) Doctoral Award (Frederick Banting and Charles Best Canada Graduate Scholarship) for his project entitled "Investigating the role of AT-rich interactive domain-containing protein 1A loss in cancer and its effects on R-loop accumulation and genome

The Centre for Blood Research Congratulations to Dr. Hugh Kim (pictured) for receiving a Network for Canadian Oral Health and Research New Frontier Seed Grant! Dr. Kim brought together a

Dr. Hugh Kim Awarded Network for Canadian Oral Health Research Grant

instability". Read More



Services to collaborate on the project "Deciphering the molecular links between periodontitis and ischemic cardiovascular disease" and obtained a \$40, 000 grant. **Read More Lorenzo Lindo Awarded CIHR – Frederick Banting and Charles Best Canada Graduate Scholarship** 

team of researchers from UBC, the University of Toronto, and the Canadian Blood

BC Cancer Lorenzo Lindo (pictured) in Dr. Kevin Hay's lab has been awarded a Canadian



**Read More** Dr. Florian Kuchenbauer Receives Funding for Multiple Myeloma Clinical **Projects Aiming to Improve Treatment Outcomes** 

Institutes of Health Research (CIHR) - Frederick Banting and Charles Best Canada Graduate Scholarship – Master's for his research entitled "Engineering MicroMod CAR T cells to overcome the immunosuppressive microenvironment in myeloma".

Dr. Florian Kuchenbauer (pictured) received \$50, 000 USD in Proteona's ESCAPE™ multi-omic single cell analysis services. Proteona, a single-cell precision medicine company, announced awards from its Single Cell Multiomics



Grant competition for multiple myeloma. "The simultaneous measurement of protein and RNA using the ESCAPE platform will identify affected cellular pathways at single cell resolution," said Dr. Kuchenbauer. Read More View All Featured Awards 👂 | View Monthly Award Summaries 😜

Local News **UBC Lab-Created Brain Cells Hold New Hope for Understanding Mechanics** 

of Alzheimer's Disease CTV News



Neurology Dr. Haakon Nygaard (pictured) said researchers are taking blood from patients with the disease and using the stem cells to create brain cells in the lab. The result is a unique view of the mechanisms leading to the disease. Read More **UBC Researchers Unveil First Molecular Images of B.1.1.7 COVID-19** 

Brain cells are being grown in a lab to try and better understand the progression of Alzheimer's and hopefully pave the way for new treatments. Assistant Professor in

**UBC** News UBC researchers are the first in the world to publish structural images of the N501Y mutation on the SARS-CoV-2 spike protein — a change believed to be partly



Mutation

B.1.1.7 variant is more infectious. Dr. Sriram Subramaniam (pictured) discusses the implications of his team's research. Read More A Novel Transcriptome-Based Clinical Assay Allows for Improved Risk **Group Stratification of Acute Myeloid Leukemia Patients** Canada's Michael Smith Genome Sciences Centre

responsible for the highly infectious nature and rapid spread of variant B.1.1.7. The

pictures, taken at near-atomic resolution, provide critical insight as to why the

Acute myeloid leukemia (AML) is an aggressive cancer that manifests in the bone marrow and affects the production of blood cells. The rapid progression of the disease, combined with the large degree of heterogeneity between AML patients, complicates individualized treatment planning. In a new study led by Dr. Aly Karsan



Cancer

(pictured), researchers used the power of next generation sequencing technologies to develop a clinical test that improves patient stratification. Read More New Research Paves Way to Better Treatment for Common Childhood Brain BC Children's Hospital Research Institute

> Medulloblastoma (MB) is the most common pediatric brain tumour and usually affects children and infants under 10 years old. A new study led by Dr. James Lim

(pictured) has found that certain immune signals may help MB resist

chemotherapy. Blocking these signals could present a new way to improve treatment for children with this type of tumour and increase childhood survival.

Potential 'Achilles' Heel' of SARS-CoV-2 Virus Captured on Video **UBC** Faculty of Medicine

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Proteins known as lectins can bind to the spike protein on the SARS-CoV-2 virus and prevent it from accessing human cells, an international team of researchers led by the UBC's Dr. Josef Penninger (pictured) has demonstrated. They have captured the action on the pathogen's spike protein via video. The researchers developed the largest lectin library in the world to find two lectins that are

particularly adept at binding to glycans on the SARS-CoV-2 spike protein.

AbCellera AbCellera has announced it has broken ground on an expanded global headquarters in its home city of Vancouver in anticipation of adding hundreds of employees to its current 250-person workforce over the next few years. "We're

**Expects to Hire Hundreds of Scientific and Tech Professionals** 

AbCellera Breaks Ground on Global Headquarters in Vancouver and



**UBC** News

new antibody therapies with biotech and pharma partners from around the world," said CEO and President Dr. Carl Hansen (pictured). Read More A Baby's First Poop Can Help Predict Risk of Developing Allergies A team of UBC researchers has shown that the composition of a baby's first poop

— a thick, dark green substance known as meconium — is associated with

building state-of-the-art facilities in Vancouver to accelerate the development of

whether or not a child will develop allergies within their first year of life. Lead author Dr. Charisse Petersen (pictured) explains, "This work shows that the development of a healthy immune system and microbiota may actually start well before a child is born." Read More



Vancouver-Based Alpha-9 Theranostics Announces \$11 Million Series-A Financing to Advance Portfolio of Radiotherapeutics and Diagnostics Alpha-9 Theranostics has announced an \$11 million Series-A financing to advance

a portfolio of novel radiotherapeutics and diagnostics. Longitude Capital led the financing with participation from Biotechnology Value Fund Partners and insiders. Alpha-9 was founded by researchers from UBC and BC Cancer with the goal of improving the lives of patients affected by metastatic cancers. Read More



May 11 3:00 PM

May 12

May 13 9:00 AM

11:00 AM

Science Made Casual with Dr. Connie Eaves

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**Hemoglobin Bart's Hydrops Fetalis: A Curious Journey from Fetal** Therapy to Adult Care

May 13 **LifeSciences BC Showcase Series: Surrey** 10:00 AM Women's Brain Health Conference – Hot Topics Symposium May 17 9:00 AM

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**Quality Assurance Associate** Canada's Michael Smith Genome Sciences Centre **Research Assistant (Mixed Methods)** 

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