

Publications of the Week

Single-Cell Transcriptomics Reveals Early Emergence of Liver Parenchymal and Non-Parenchymal Cell Lineages

First Author: Jeremy Loto (pictured, third from right) | Senior Author: Pamela Hoodless (pictured, right) | BC Cancer and UBC



The cellular complexity and scale of the early liver have constrained analyses examining its emergence during organogenesis. To circumvent these issues, the authors analyzed 45,334 single-cell transcriptomes from embryonic day (E)7.5, when endoderm progenitors are specified, to E10.5 liver, when liver parenchymal and non-parenchymal cell lineages emerge. [Profile](#) | [Abstract](#)

Abortive γ TCR Rearrangements Suggest ILC2s Are Derived from T-Cell Precursors

First Author: Samuel Shin (pictured) | Senior Author: Kelly McNagny | Blood Advances | UBC and BC Cancer



Despite their similarities, the absence of a surface T-cell receptor (TCR) and presence of innate lymphoid cells (ILCs) and precursors in adult bone marrow has led to speculation that ILCs and T cells develop separately from lineages that branch at the point of precursors within the bone marrow. Here, the authors demonstrate that a high proportion of peripheral tissue ILC2s have TCR γ chain gene rearrangements and TCR δ locus deletions. [Abstract](#)

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Awards

Scientists in Faculty of Medicine Receive \$2.7M for COVID-19 Research Projects

UBC Medicine



Scientists in UBC's Faculty of Medicine are receiving \$2.7 million to support COVID-19 research projects through the Canada Foundation for Innovation. The funding covers the urgent need for equipment for ongoing research related to COVID-19. Dr. Natalie Strynadka (pictured) is leading a project to expand COVID-19 structure-based therapeutic development through enhanced CryoEM and CryoET data acquisition. [Read More](#)

B.C. Technology Impact Awards Honour Medtech, Biotech Firms Amid Pandemic

Business in Vancouver



The West Coast innovation section got the chance to really prove its tech cred by going virtual for the annual Technology Impact Awards. Top honours went to tech companies specializing in everything from antibody therapeutics to reimagining the way labour markets are researched to the way agricultural economics work in the near future. [Read More](#)

Michael Hayden Receives Soroka Humanitarian Award

UBC Medicine



Dr. Michael Hayden (pictured), a Killam Professor in the Department of Medical Genetics at UBC and researcher at the Centre for Molecular Medicine and Therapeutics, is this year's recipient of the David Dubinsky Humanitarian Award. Dr. Hayden is recognized for pioneering discoveries in research on neurodegeneration and their translation into diagnostics and new therapeutic developments. [Read More](#)

Mark Cembrowski Named a 2019 Azrieli Foundation Future Leader in Canadian Brain Research

UBC Life Sciences Institute



Dr. Mark Cembrowski (pictured) is among 20 neuroscientists in Canada awarded \$100,000 each in research funding, as part of Brain Canada's Future Leaders in Canadian Brain Research Program. Anchored by a \$5M gift from the Azrieli Foundation, this novel funding model is intended to enable paradigm-changing brain research with the aim of improving the lives of all Canadians. [Read More](#)

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Local News

AbCellera-Discovered Antibody Receives U.S. FDA Emergency Use Authorization as a Monotherapy for the Treatment of COVID-19

AbCellera



AbCellera has announced that bamlanivimab (LY-CoV555) 700 mg, a human antibody developed through AbCellera's collaboration with Eli Lilly and Company, has received emergency use authorization (EUA) from the U.S. Food and Drug Administration (FDA). The EUA is based on data from BLAZE-1, a randomized, double-blind placebo-controlled Phase 2 study in patients with recently diagnosed mild to moderate COVID-19 in the outpatient setting. [Read More](#)

Re-Writing the Code of Life

Genome BC



The latest episode of Genome BC's podcast, *The Code of Life*, features two Canadian scientists, Dr. Beth Simpson (pictured, left) at the Centre for Molecular Medicine at UBC and Dr. Sheila Singh (right) at McMaster University, who are working to crack the code on two incurable diseases — a type of congenital blindness in children, and a deadly form of brain tumours. [Read More](#)

The Genome Sciences Centre Welcomes Dr. Alexander Wyatt

Canada's Michael Smith Genome Sciences Centre at BC Cancer (GSC)



Dr. Alexander Wyatt (pictured), Assistant Professor in the Department of Urological Sciences at UBC and Senior Research Scientist at the Vancouver Prostate Centre, has recently joined the GSC as a Scientist. Dr. Wyatt received his PhD in human genetics from the University of Oxford and conducted his postdoctoral research at the Vancouver Prostate Centre. In 2015, he began his independent research program with a focus on metastatic prostate and bladder cancers. [Read More](#)

Nanomedicines Innovation Network Research on Entrapment of siRNA within Lipid Nanoparticles

Nanomedicines Innovation Network (NMiN)



A new article by Dr. Jayesh Kulkarni (pictured) and colleagues at the NMiN sheds light on a potential mechanism by which lipid nanoparticle formulations of nucleic acid encapsulate short interfering RNA (siRNA). The article provides evidence using cryogenic-transmission electron microscopy and dynamic light scattering to show that siRNA entrapment occurs even without ethanol, the presence of which was previously considered necessary. [Read More](#)

Vancouver-Based Biotech Company Central in Development of Pfizer COVID-19 Vaccine

Global News



A Vancouver company is central to the news that Pfizer is close to developing an effective vaccine against the coronavirus. Pfizer said that an early peek at the data on its coronavirus vaccine suggests the shots may be a surprisingly robust 90 per cent effective at preventing COVID-19. Vancouver-based Acuitas Therapeutics is playing a key role through a technology known as lipid nanoparticles, which deliver messenger RNA into cells. [Read More](#)

BioVaxys Announces 96.4 Percent Positive Antibody Immune Response Results from an *In Vivo* Murine Model Study of Its SARS-CoV-2 Vaccine

Newsfile Corp.



BioVaxys Technology Corp. has announced that results from its preclinical animal study of BVX-0320, its COVID-19 vaccine candidate, show that the vaccine elicits a positive immune response against the SARS-CoV-2 s-spike protein. Previous interim data from the study showed it possessed an excellent emerging tolerability profile with no noteworthy clinical observations or observed toxicities in mice. [Read More](#)

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Upcoming Events in Vancouver

- November 17 8:00 AM **Virtual Earl W. Davie Symposium 2020** Online
- November 18 12:00 PM **Job Hunting Strategies for Students Pursuing Jobs Away from the Lab Bench** Online
- November 18 1:00 PM **Clee Symposium** Online
- November 19 9:30 AM **Image Guided Therapeutics: From Conception to Commercialization** Online
- November 20 4:00 PM **Science Grand Slam 2020** Online

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STEMCELL Jobs in Vancouver

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- Quality Control Specialist, Raw Materials**
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Other Science Jobs in Vancouver

- Tenure-Track Assistant Professor/Tier 2 Canada Research Chair Position, Molecular and Systems Pharmacology, and Nanomedicines and Chemical Biology**
UBC Faculty of Pharmaceutical Sciences
- Senior Scientist, Protein Technologies Team Lead**
Amgen
- Biostatistician**
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- Senior Process Engineer**
Precision NanoSystems Inc.

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