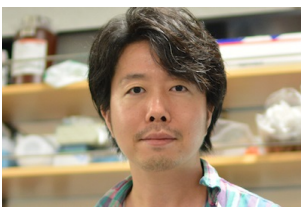


Publications of the Week

A Multi-Kingdom Genetic Barcoding System for Precise Clone Isolation

First Authors: Soh Ishiguro, Kana Ishida, and Rina Sakata | Senior Author: Nozomu Yachie (*pictured*)
Nature Biotechnology | BC Children's Hospital Research Institute and UBC



Cell-tagging strategies with DNA barcodes have enabled the analysis of clone size dynamics and clone-restricted transcriptomic landscapes in heterogeneous populations. Here, researchers present a multi-kingdom genetic barcoding system, CloneSelect, which enables a target cell clone to be triggered to express a reporter gene for isolation through barcode-specific CRISPR base editing. [Abstract](#)

Bat Organoids Reveal Antiviral Responses at Epithelial Surfaces

First Author: Max Kellner | Senior Author: Josef Penninger (*pictured*)
Nature Immunology | UBC



Bats can host viruses of pandemic concern without developing disease. The mechanisms underlying their exceptional resilience to viral infections are largely unresolved. Here, researchers developed respiratory and intestinal organoids that recapitulated the cellular diversity of the *in vivo* epithelium present in *Rousettus aegyptiacus*, the natural reservoir for the highly pathogenic Marburg virus.

[Abstract](#)

[View All Publications](#)

Awards

VCHRI SPARKS 2025 Recipients

Vancouver Coastal Health Research Institute (VCHRI)



VCHRI is committed to fostering a culture of mentorship and supporting the next generation of health researchers through the Summer Program Advancing Research Knowledge and Skills (SPARKS). This program offers a unique opportunity for undergraduate and medical students to explore their interest in health research and gain hands-on experience. The 2025 VCHRI SPARKS recipients include Gina Zhang (*pictured, left*) and Jennifer Lim (*right*). [Read More](#)

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Local News

Acuitas Therapeutics Showcases Collaboration with Children's Hospital of Philadelphia for Personalized CRISPR Therapy and New LNP Research

Life Sciences BC



Acuitas Therapeutics, a global leader in lipid nanoparticle (LNP) delivery systems, recently showcased its latest development work in next-generation LNP delivery vehicles. In a landmark clinical trial, the Children's Hospital of Philadelphia and the University of Pennsylvania, with innovations from Acuitas, successfully delivered the world's first personalized LNP-delivered CRISPR gene- editing therapy to treat an infant with urea cycle disorder. [Read More](#)

ME Therapeutics Receives Support to Advance mRNA Therapeutic Candidates for Cancer and Inflammatory Disease

ME Therapeutics



ME Therapeutics Holdings Inc., a publicly listed preclinical biotechnology company working on novel cancer fighting drugs, announced that its subsidiary, ME Therapeutics Inc., is receiving advisory services and up to \$140,000 in funding from the National Research Council of Canada Industrial Research Assistance Program. The project will support the research targeting myeloid cell biology for the treatment of cancer and inflammatory disease. [Read More](#)

From Cancer Therapies to a New Generation of Vaccines—How UBC Professor Pieter Cullis Transformed Drug Delivery

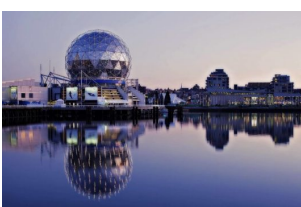
UBC Faculty of Medicine



Groundbreaking treatments like targeted cancer therapies and mRNA-based vaccines would not have been possible without almost five decades of fundamental research led by Dr. Pieter Cullis (*pictured*), a Professor of Biochemistry and Molecular Biology at the UBC Faculty of Medicine. It all started with scientific curiosity and tiny bubbles of fat. [Read More](#)

New Ventures BC Announces 12 Companies for “The \$10K Pitch: BC’s Startup All-Stars”

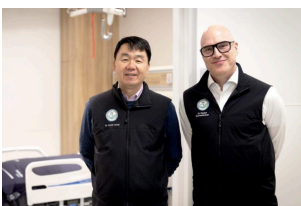
T-Net



New Ventures BC announced that twelve alumni from its annual New Ventures BC Competition are pitching at Web Summit Vancouver. They competed for a \$10,000 prize, provided by Innovate BC. Among the twelve companies are several human health and genetic-based biotech, including CereCura Nanotherapeutics, Insporos, Total Flow Medical, Tydra Labs, and VoxCell. [Read More](#)

New Inpatient Clinical Trials Unit Launches at Vancouver General Hospital, Advancing Blood Cancer Treatment Across BC

Vancouver Coastal Health Research Institute



Vancouver Coastal Health has launched BC’s first dedicated inpatient clinical trials unit for early-phase therapies in blood cancers. Led by Drs. Kevin Song (*pictured, left*) and Florian Kuchenbauer (*right*), the new Hematology Research Unit will deliver revolutionary therapies—including first-in-human treatments such as advanced immunotherapies like CAR T-cell therapy—to patients with relapsed or treatment-resistant hematological diseases. [Read More](#)

Next Steps in Driving Forward the Field of Nanomedicine: A Catch-Up With the Leslie Lab

UBC Michael Smith Laboratories



The lab of Dr. Sabrina Leslie (*pictured*) brings together researchers and approaches from physics and biology to drive forward the field of nanomedicine. Their work involves the use of their high-resolution convex lens-induced confinement imaging technology to look closely at lipid nanoparticles, which can act as delivery vehicles in therapeutics like the COVID-19 mRNA vaccines. [Read More](#)

Rapid Bedside Test Predicts Sepsis With Over 90% Accuracy

UBC Science



Canadian scientists have developed a blood test and portable device that can determine the onset of sepsis faster and more accurately than existing methods. Published in *Nature Communications*, the test is more than 90% accurate at identifying those at high risk of developing sepsis and represents a major milestone in the way doctors will evaluate and treat sepsis. [Read More](#)

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Upcoming Events in Vancouver

- | | |
|--------------------|---|
| June 5
8:30 AM | 2025 UBC Psychiatry Research Day
Life Sciences Centre |
| June 6
11:00 AM | Dr. Charan Ranganath: The Boundaries of Memory
Djavad Mowafaghian Centre for Brain Health |
| June 6
12:00 PM | BC-CfE Update Spring 2025 on Syndemic Conditions
Sheraton Vancouver Wall Centre |
| June 19
7:00 PM | Science, Stand-Up, & Song
Fox Cabaret |
| June 25
5:00 PM | LSBC Summer Social
Zymeworks |

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Science Jobs in Vancouver

- Animal Veterinary Research Technician**
UBC
- Research Assistant**
BC Children's Hospital
- Student Research Assistant, Biology**
Douglas College
- Research Projects Assistant**
BC Women's Hospital & Health Centre
- Computational Biologist**
Genome Sciences Centre, BC Cancer

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