

Publications of the Week

Divergent Delivery and Expression Kinetics of Lipid and Polymeric Nanoparticles Across mRNA Modalities

First Author: Irafasha Casmil (*pictured*) | Senior Author: Anna Blakney
Advanced Science | UBC



Messenger ribonucleic acid (mRNA)-based therapies, including conventional linear mRNA (linRNA), circular RNA (circRNA), and self-amplifying RNA (saRNA), are being developed not only for vaccination but also for protein replacement, gene editing, and regenerative medicine. Here, the *in vivo* expression kinetics of linRNA, circRNA, and saRNA delivered via lipid nanoparticles or bioreducible polymer are systematically evaluated. [Profile](#) | [Abstract](#)

CAR T_{reg} Cells Mediate Linked Suppression and Infectious Tolerance in Islet Transplantation in Mice

First Author: Christine Wardell | Senior Author: Megan Levings (*pictured*)
Science Translational Medicine | BC Children's Hospital Research Institute and UBC



Regulatory T cells (T_{reg} cells) have potential as a cell-based therapy to prevent or treat transplant rejection and autoimmunity. Using a model of HLA-A2* islet transplantation into immunodeficient nonobese diabetic mice, researchers investigated whether A2-CAR T_{reg} cells could control hyperglycemia induced by diabetogenic BDC2.5 effector T cells. [Abstract](#)

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Awards

UBC Medicine Researchers Awarded More Than \$1.3 Million From CFI for Innovative Research Infrastructure

UBC Faculty of Medicine



The Government of Canada announced a total of nearly \$134 million through the Canada Foundation for Innovation (CFI) to support projects at 63 postsecondary institutions across the country. UBC Faculty of Medicine researchers, including Dr. Yuan Yao (*pictured*), were awarded more than \$1.3 million in federal funding to support innovative research infrastructure projects. [Read More](#)

Three FHS Postdoctoral Fellows Receive Research Trainee Awards

SFU Faculty of Health Sciences (FHS)



Three researchers from SFU's Faculty of Health Sciences have each successfully secured a prestigious Research Trainee Award from Michael Smith Health Research BC: Aniqah Shahid (*pictured*), Anh Khoa Vo, and Ramona Weber. The Research Trainee awards support emerging researchers by offering vital funding needed to focus on high-quality research that is carried out in B.C. [Read More](#)

UBC ICORD's seed2STEM Program Honoured With City of Vancouver Leadership in Reconciliation Award

Djavad Mowafaghian Centre for Brain Health



UBC International Collaboration on Repair Discoveries' (ICORD) seed2STEM summer research program for Indigenous youth has been awarded the City of Vancouver's Leadership in Reconciliation Award for 2025. seed2STEM transforms reconciliation principles into action by creating culturally safe pathways for Indigenous high school students to participate in STEM research. [Read More](#)

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Local News

Sonus Microsystems and Kinetix Medicine Announce Partnership for Clinical Evaluation of Sonus' Wearable Ultrasound Technology

T-Net



Sonus Microsystems, developers of an AI-powered ultrasound wearable for autonomous on-demand ultrasound, announced the company has entered a Collaboration Agreement with fellow Vancouver company Kinetix Medicine. The purpose of the partnership is to evaluate the clinical application of the Sonus Path, a wearable ultrasound patch representing a transformation advancement in medical diagnostic technology. [Read More](#)

Ask an Expert: How Do I Prevent Ovarian Cancer?

Vancouver Coastal Health Research Institute



New research is driving progress in prevention, detection, and treatment of ovarian research. Vancouver Coastal Health Research Institute researchers Drs. Aline Talhouk (*pictured*) and Lesa Dawson share what you need to know about ovarian cancer, including its warning signs and risk factors, and how innovative strategies are bringing science closer to earlier detection. [Read More](#)

How to Hack Your Microbiome for Lifelong Health

UBC Michael Smith Laboratories (MSL)



A leading expert in how microbes affect health for better and for worse, Dr. Brett Finlay (*pictured*) from UBC MSL teamed up with his daughter, Dr. Jessica Finlay, to publish their new book *The Microbiome Master Key*. The duo explores the unexpected ways in which microbes influence areas ranging from cognition and mood to immunity and susceptibility to disease. In this Q&A, Dr. Finlay discusses how to leverage the microorganisms in your body. [Read More](#)

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Interesting Articles

Registration and Abstract Submission are Open for ISSCR 2026 in Montréal 8-11 July

The International Society for Stem Cell Research (ISSCR)



ISSCR has opened registration and abstract submission for the ISSCR 2026 Annual Meeting, taking place 8-11 July 2026 in Montréal, Canada. The Global Stem Cell Event will bring together academic and industry leaders driving progress in stem cell science and regenerative medicine. STEMCELL Technologies will co-sponsor the event, continuing a collaboration that underscores the importance of partnership between science and industry in advancing the field. [Read More](#)

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📅 Upcoming Events in Vancouver

October 28 - 29 6:30 AM	LSBC's 10th Annual Invest in BC Presented by Lumira Ventures Vancouver Convention Centre West
October 30 6:00 PM	After Dark: Bloody Science — Halloween Edition Science World
October 30 7:30 AM	UBC Innovation & SBME Industry Breakfast Gordan B. Shrum Building
November 6 7:30 AM	19th Annual Earl W. Davie Symposium UBC Robson Square
November 6 9:00 AM	Research Day on Aging SFU

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📁 Science Jobs in Vancouver

Computational Biologist, Database Development Canada's Michael Smith Genome Sciences Centre
Research Project Coordinator UBC
Clinical Research Associate Acuitas
Quality Control Associate Xenon Pharmaceuticals
Associate Scientist, Clinical Bioanalysis Zymeworks

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Planner, GMP STEMCELL Technologies
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