

Publications of the Week

**Lipid Nanoparticle-Mediated Hit-and-Run Approaches Yield Efficient and Safe *In Situ* Gene Editing in Human Skin**

First Author: Juliana Bolsoni | Senior Author: Sarah Hedtrich (pictured)  
ACS Publications | UBC and NanoVation Therapeutics



Despite exciting advances in gene editing, the efficient delivery of genetic tools to extrahepatic tissues remains challenging. This holds particularly true for the skin, which poses a highly restrictive delivery barrier. In this study, researchers ran a head-to-head comparison between Cas9 mRNA or ribonucleoprotein-loaded lipid nanoparticles to deliver gene editing tools into epidermal layers of human skin, aiming for *in situ* gene editing. [Profile](#) | [Abstract](#)

**Corticosteroid-Binding Globulin (*SERPINA6*) Consolidates Sexual Dimorphism of Adult Rat Liver**

First Author: Julia Toews | Senior Author: Victor Viau (pictured)  
Endocrinology | UBC



Produced by the liver, corticosteroid-binding globulin (CBG) regulates the plasma distribution and actions of glucocorticoids. Glucocorticoids control hepatic development and metabolic activities, and researchers have therefore examined how disrupting the *SerpinA6* gene encoding CBG influences plasma corticosterone dynamics, as well as liver gene expression in male and female rats before and after puberty. [Abstract](#)

[View All Publications](#)

Awards

**November 2023 Award Winners**

Science in Vancouver



Science in Vancouver presents all award winners in Vancouver for November 2023. Among this past month's awardees is Dr. Kayla King (pictured) from the Departments of Zoology and Microbiology & Immunology at UBC who has been appointed the Canada Excellence Research Chair in Evolutionary Dynamics of Host-Pathogen Interactions. [Read More](#)

**UBC Medical Student Mohit Sodhi Named One of Forbes "30 Under 30" in Healthcare**

UBC Faculty of Medicine



Mohit Sodhi (pictured), a UBC medical student, has been named one of Forbes' top "30 Under 30" in Healthcare. Launched in 2011, the Forbes "30 Under 30" recognizes people under the age of 30 from a wide range of industries who are making a notable impact in their field. For the Healthcare category, the recipients include entrepreneurs and researchers who are taking on some of healthcare's biggest challenges. [Read More](#)

**Dr. Fumio Takei Awarded 2024 Cinader Award for Outstanding Contributions to Immunology**

BC Cancer Research Terry Fox Laboratory



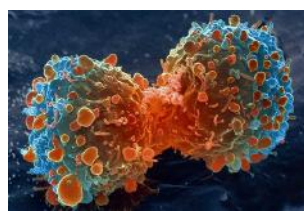
Dr. Fumio Takei (pictured) has been awarded the prestigious 2024 Bernhard Cinader Award, recognizing exceptional leadership and mentorship in the field of Immunology among Canadian researchers. The Canadian Society of Immunology Award Committee unanimously applauded Dr. Takei's outstanding scientific achievements, in line with the award's criteria aimed at celebrating remarkable contributions. [Read More](#)

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Local News

**Vancouver Biotech BriaCell Reports Tumour Shrinkage in Clinical Trials**

Business in Vancouver



BriaCell Therapeutics, a Vancouver-Philadelphia oncology immunotherapeutics company, is reporting what it calls a "remarkable" response to treatment using a new cancer drug candidate in Phase II clinical trials. BriaCell said the latest result was the second time a patient with proptosis responded positively to Bria-IMT combination regimen. [Read More](#)

**Aspect Biosystems Named to Fast Company's 2023 List of the 'Next Big Things in Tech'**

T-Net



Aspect Biosystems, a biotechnology company pioneering the development of bioprinted tissue therapeutics to transform the treatment of disease, has been named to Fast Company's third annual Next Big Things in Tech list. This list honors technological breakthroughs that promise to shape the future of industries from healthcare to data science. [Read More](#)

**UBC and SFU Researchers Develop Novel Algorithm for Understanding and Treating Disease Using AI and Biomedical Computer Vision**

UBC School of Biomedical Engineering



The School of Biomedical Engineering congratulates Dr. Ivan Robert Nabi (pictured), Ben Cardoen, Kurt Vandevoorde, Dr. Guang Gao, Dr. Milene Ortiz Silva, and Dr. Ghassan Hamameh on their recent discovery and paper in the *Journal of Cell Biology*. The interdisciplinary team developed a novel algorithm that quantifies interaction from microscopy images using AI and biomedical computer vision. [Read More](#)

**Applying Mathematics to Lung Cancer Prevention**

BC Cancer Research



Like many of his colleagues in cancer research, Dr. Rafael Meza (pictured) has a personal connection to cancer. His dad died from gastric cancer when Dr. Meza was 15 years old. "That got me interested in how I could dedicate my career to cancer while my interests were in mathematics and statistics," he said. "Eventually, I figured out that I could do research in cancer using my math skills." [Read More](#)

**Future-Proofing Health in a Changing Climate**

UBC Faculty of Medicine



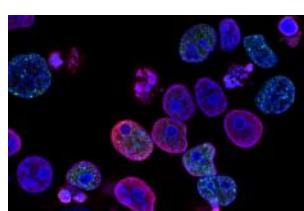
On November 22<sup>nd</sup>, experts tackled urgent questions regarding the impact of climate change on health at a special UBC event. The goal of the evening was to generate novel ideas, ways of thinking, and perhaps even some of the answers — and spark new research collaborations on climate change and health at UBC and beyond. Event speakers and panelists included Drs. Andrea MacNeill (pictured, left) and Brittany Bingham (right). [Read More](#)

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Interesting Articles

**NSERC Research Image Contest Now Open**

Natural Sciences and Engineering Research Council of Canada (NSERC)



Science Exposed is a contest organized by NSERC and devoted exclusively to images of scientific research, in all fields of study. The goal of the contest is to showcase images of Canadian research, foster interest in science and scientific curiosity in all audiences, build a database of scientific images of Canadian research, and more. Submissions are now being accepted. [Read More](#)

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 **Upcoming Events in Vancouver**

- December 14 8:00 AM **UBC Post-Doctoral Association Research Day**  
Life Sciences Centre
- December 14 5:00 PM **Life Sciences BC's Holiday Party**  
Vancouver Marriott Pinnacle Downtown Hotel
- December 30-31 9:00 AM **International Conference on Science, Engineering & Technology 2023**  
Shangri-La Hotel
- December 31 10:00 AM **Create & Connect: New Year at Noon**  
MONOVA
- December 31 9:00 PM **NYE 2023 at Science World**  
Science World

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 **STEMCELL Jobs in Vancouver**

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[STEMCELL Technologies](#)
- Manager, Quality Control, Cell Core**  
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- Senior Research Associate, Organoids**  
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- Scientific Support Representative**  
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- Manager, Lab Operations, R&D**  
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 **Other Science Jobs in Vancouver**

- Computational Biologist, Software Development**  
BC Cancer
- Biomedical Engineering Technologist**  
Providence Healthcare
- Senior Scientist, Multi-Specific Drug Discovery and Characterization**  
Amgen
- Medical Science Liaison**  
AstraZeneca
- Biodiversity Informatics and Data Science Postdoctoral Fellowship**  
UBC

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**How to Communicate Your Science to the Public**

Webinar by Dr. Kristina McBurney & Leanna Bedell



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