

Publications of the Week

Spatial Compartmentalization of Signaling Imparts Source-Specific Functions on Secreted Factors

First Author: Elena Groppa | Senior Author: Fabio Rossi *(pictured)*
Cell Reports | UBC



Efficient regeneration requires multiple cell types acting in coordination. To better understand the intercellular networks involved and how they change when regeneration fails, the authors profile the transcriptome of hematopoietic, stromal, myogenic, and endothelial cells over 14 days following acute muscle damage. They generate a time-resolved computational model of interactions and identify VEGFA-driven endothelial engagement as a key differentiating feature in models of successful and failed regeneration. [Abstract](#)

Predicting Severity in COVID-19 Disease Using Sepsis Blood Gene Expression Signatures

First Author: Arjun Baghela | Senior Author: Robert Hancock *(pictured)*
Scientific Reports | UBC, SFU, and Asep Medical



Severely-afflicted COVID-19 patients can exhibit disease manifestations representative of sepsis, including acute respiratory distress syndrome and multiple organ failure. The authors hypothesized that diagnostic tools used in managing all-cause sepsis, such as clinical criteria, biomarkers, and gene expression signatures, should extend to COVID-19 patients. [Abstract](#)

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Awards

Congratulations CIHR Fall 2022 Project Grant Recipients

BC Children's Hospital



Congratulations to the BC Children's Hospital Research Institute and Women's Health Research Institute investigators and their teams who were awarded \$8 million in funding through the Canadian Institutes of Health Research (CIHR) Fall 2022 Project Grant competition. Recipients include Dr. Stefan Taubert *(pictured)* for his project titled "Genetic mapping of a stress response and pro-longevity network in *C. elegans* and human cancer cells". [Read More](#)

Announcing the Winners of the Research 180 Video Competition

Canadian Blood Services



This year, Canadian Blood Services offered the Research 180 Video Competition in partnership with the Centre for Blood Research at UBC. The video "From research to policy...and back", produced by Elyn Rowe *(pictured)*, a PhD student with Dr. Dana Devine at the Centre for Blood Research, was awarded the first-place prize of \$500. [Read More](#)

DMCBH Members Awarded Fall 2022 CIHR Project Grants to Support Health Research

Djavad Mowafaghian Centre for Brain Health (DMCBH)



The Canadian Institutes of Health Research (CIHR) has announced the results of its Fall 2022 project grant competition. Congratulations to all the Djavad Mowafaghian Centre for Brain Health members who were awarded project grants, including Dr. Peter Crompton *(pictured)*, who received funding for his project "Neck muscle and head-neck dynamics in rollover crashes". [Read More](#)

UBC Faculty of Medicine Researchers Receive More than \$5M as Part of Canada's Largest Investment in Clinical Trials

UBC Faculty of Medicine



UBC Faculty of Medicine researchers, including Dr. Kevin Hay *(pictured)*, have been awarded federal funding as part of Canada's largest-ever investment in clinical trials. The Canadian Institutes of Health Research Clinical Trials Fund dedicated \$250 million across three funding streams to grow and strengthen Canada's clinical trials infrastructure, training, and research through 2025. [Read More](#)

Six LSI Researchers Awarded Funding Through Fall 2022 CIHR Project Grant Competition

Life Sciences Institute (LSI)



Congratulations to the successful applicants in the Canadian Institutes of Health Research Fall 2022 Project Grant competition! Recipients at the UBC LSI include Dr. Carolyn Brown *(pictured)* for her project "Role of XIST in human X-chromosome inactivation and health", and Dr. Pieter Cullis for his project "Newly optimized lipid nanoparticle systems for genetic drugs and gene therapy in neurological diseases." [Read More](#)

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Local News

DMCBH Trainee Spotlight: Judy Cheng

Djavad Mowafaghian Centre for Brain Health (DMCBH)



The human brain has fascinated Judy Cheng *(pictured)* for as long as she can remember. Cheng's research focuses on synaptic plasticity in Huntington disease and how impaired signaling of different neurotransmitters, such as dopamine and endocannabinoids, can lead to the motor and cognitive deficits of this movement disorder. [Read More](#)

Rwanda FDA Approves Platform Life Sciences and GreenLight Biosciences to Launch a Phase I Clinical Trial in Rwanda for mRNA COVID-19 Vaccine

Platform Life Sciences



Platform Life Sciences, a high impact clinical research organization with the mission to modernize clinical trials on a global scale, has signed a key agreement with GreenLight Biosciences to support their Phase I clinical trial, GLB-003, for a novel mRNA vaccine against COVID-19 in Rwanda — that has been approved by the Rwanda Food and Drug Administration. [Read More](#)

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Interesting Articles

The Valley of Never-Having-Lived: Canada's Innovation Talent Problem

The Hill Times



As Canadian policy and investment encourages more innovative startups, we constantly hear about the "valley of death": the point where a startup has some momentum but struggles for market traction. We hang lofty hopes on research-based startups getting past this to solve global challenges and grow into scalable companies. However, focusing on the valley of death will keep us ignoring a valley in even greater need of bridges: The Valley of Never-Having-Lived. [Read More](#)

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 **Upcoming Events in Vancouver**

- February 21 5:00 pm **Watermelon Snow: Science, Art, and a Lone Polar Bear**
Online
- February 21 5:00 pm **Cellular and Physiological Sciences Careers Fair 2023**
Life Sciences Institute
- February 23 8:00 am **Access to Innovation**
Vancouver Convention Centre West
- February 24 4:00 pm **D.R.I.N.K.S. Vancouver**
Mahony and Sons
- February 28 3:00 pm **In Good Company: The Human Trial**
Gordon and Leslie Diamond Health Care Centre

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 **STEMCELL Jobs in Vancouver**


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STEMCELL Technologies
- Manufacturing Technologist, Clean Room**
STEMCELL Technologies
- Lung Biology Research Fellowship**
STEMCELL Technologies
- Senior Lab Manager**
STEMCELL Technologies
- Scientific Marketing Associate**
STEMCELL Technologies

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 **Other Science Jobs in Vancouver**

- Systems Specialist**
Canada's Michael Smith Genome Sciences Centre
- Computational Biologist**
Imagia Canexia Health
- Quality Assurance Associate**
bioLytical Laboratories
- Scientific Writer**
AbCellera
- Research Technician**
UBC

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 **Webinar: SARS-CoV-2 Viral Load, Disease Severity, and Transmission** 

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