

Publications of the Week

Lipid Nanoparticle-Mediated Silencing of Osteogenic Suppressor *GNAS* Leads to Osteogenic Differentiation of Mesenchymal Stem Cells *In Vivo*

First Author: Genc Basha (pictured) | Senior Author: Pieter Cullis
Molecular Therapy | Life Sciences Institute, SFU, and UBC



Approved drugs for the treatment of osteoporosis can prevent further bone loss but do not stimulate bone formation. Therapies that take advantage of the ability of mesenchymal stem cells (MSCs) to differentiate into various osteogenic lineages to treat bone disorders are of particular interest. The authors examine the ability of small interfering RNA to enhance osteoblast differentiation and bone formation by silencing the negative suppressor gene *GNAS* in bone MSCs. [Abstract](#)

A Molecular Mechanism for High Salt Taste in *Drosophila*

First Author: Sasha McDowell | Senior Author: Michael Gordon (pictured)
Current Biology | Life Sciences Institute and UBC



Dietary salt detection and consumption are crucial to maintaining fluid and ionic homeostasis. To optimize salt intake, animals employ salt-dependent activation of multiple taste pathways. The authors show that in flies, ionotropic receptor (IR) 7c is expressed in glutamatergic high salt neurons, where it functions with co-receptors IR76b and IR25a to detect high salt and is essential for monovalent salt taste. [Abstract](#) | [Press Release](#)

[View All Publications](#)

Awards

Top Graduating Doctoral Student Award and Rising Star Award 2022 Recipients

Vancouver Coastal Health Research Institute (VCHRI)



The VCHRI Top Graduating Doctoral Student Awards and the Rising Star Awards recognize outstanding efforts by VCHRI trainees for research excellence, service as role models, and other contributions that each has made to benefit the Vancouver Coastal Health research community. Dr. Jesse Charlton's (pictured) research is making meaningful contributions to our understanding of human movement and the treatment of knee osteoarthritis. [Read More](#)

Professor Madanlal T. Wasan Memorial Prize Awarded to Dr. Gillian Vandekerkhove

Vancouver Prostate Centre



The second annual Professor Madanlal T. Wasan Memorial Prize in Urologic Sciences Award has been awarded to Dr. Gillian Vandekerkhove (pictured). Utilizing circulating cell-free tumour DNA and tumour tissue, her research aims to explore the molecular landscape of genitourinary cancers and develop minimally-invasive biomarkers for guiding therapy selection. [Read More](#)

2022 Faculty of Medicine Distinguished Achievement Award Recipients

UBC Faculty of Medicine



Each year, the Faculty of Medicine recognizes faculty members who exemplify exceptional contributions in the areas of education, research, and/or service, and who are dedicated to advancing both the Faculty's values and vision of transforming health for everyone. Drs. Zachary Laksman (pictured) and Jayachandran Kizhakkedathu were recognized for their outstanding basic science research. [Read More](#)

2022 Trainee Endowment Award Winners Announced

Djavad Mowafaghian Centre for Brain Health



Congratulations to the winners of the 2022 Djavad Mowafaghian Centre for Brain Health Trainee Endowment Awards! Dr. Mehwish Anwer (pictured) received the Dr. Jock & Irene Graham Brain Research Endowment for her research investigating the processes that occur in the brain after traumatic injury and how these changes increase the risk for dementia and post-traumatic stress disorder. [Read More](#)

\$13 Million in Support Bolsters Computational, Physical Science Research at UBC

UBC Science



Sixty-one UBC Science faculty members have received a total of \$13.6 million in Natural Sciences and Engineering Research Council of Canada Discovery Grants. The funding is part of 137 new projects led by UBC researchers receiving a total of \$28 million in funding. Dr. Pauline Johnson (pictured) received funding for her research on the molecular analysis of hyaluronan and CD44. [Read More](#)

More Than \$3.9M Awarded to Faculty of Medicine Researchers Through 2022 NSERC Programs

UBC Faculty of Medicine



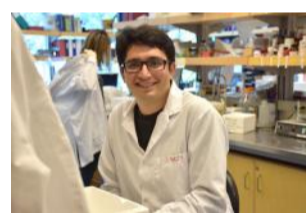
Faculty of Medicine researchers were awarded more than \$3.9 million in funding from the Natural Sciences and Engineering Research Council of Canada (NSERC) as part of the 2022 Discovery research programs. The Discovery Grants program supports ongoing programs of research with long-term goals rather than a single short-term project or collection of projects. Dr. David Fedida (pictured) received funding for his work on the structures of ion channel complexes. [Read More](#)

[View All Featured Awards](#) | [View Monthly Award Summaries](#)

Local News

Cancer Drug Shows Potential as Treatment for Muscular Dystrophy

UBC News



Researchers led by Dr. Farshad Babaeijandaghi (pictured) at UBC's School of Biomedical Engineering have discovered that an existing cancer drug could have potential as a treatment for muscular dystrophy. The researchers found that the drug — known as a colony-stimulating factor 1 receptor inhibitor — helped slow the progress of Duchenne muscular dystrophy in mice by increasing the resiliency of muscle fibres. [Read More](#)

Announcing the SCI Accelerate 2022 Cohort

Praxis Spinal Cord Institute (SCI)



Praxis SCI Accelerate is a 12 week in residence accelerator program focused on advancing the commercialization of technology to transform the lives of people with spinal cord injury (SCI). The companies in the 2022 cohort have been carefully selected by a panel of SCI consumers, researchers, and commercial leaders in healthcare — as addressing key gaps in care for people with SCI, but also with a potential to transform healthcare outcomes for the broader community. [Read More](#)

STEMCELL Technologies Receives ISO 14001 Certification of Environmental Management System

STEMCELL Technologies



STEMCELL Technologies, Canada's largest biotechnology company, announced that it has received ISO 14001:2015 certification of its Environmental Management System at its Canadian operations in Vancouver. STEMCELL's now-certified Environmental Management System will enable the company to monitor, measure, analyze, and evaluate its environmental performance. [Read More](#)

[View All Local News](#)

Interesting Articles

Government of Canada Strengthens Canada's Clinical Trials Environment

Canadian Institutes of Health Research (CIHR)



The Honourable Jean-Yves Duclos, Minister of Health, officially launched the Clinical Trials Fund (CTF), supported by a Budget 2021 investment of \$250 million over three years for the CIHR. As an integral component of Canada's Biomanufacturing and Life Sciences Strategy, the CTF will strengthen the clinical trials infrastructure in Canada and support the training of new clinical researchers. [Read More](#)

[View All Interesting Articles](#) | [Submit an Article](#)

Upcoming Events in Vancouver

- July 6-9 4:00 PM **14th International Development Coordination Disorder Conference**
Sheraton Vancouver Wall Centre
- July 7 7:00 PM **The Story Collider Vancouver – Gut Feeling**
Container Brewing Ltd.
- July 8 4:00 PM **D,R,I,N,K,S. Vancouver**
Mahoney and Sons
- August 16 9:00 AM **SBME Synergy Research Day**
Life Sciences Centre
- August 16 12:00 PM **CBR Research Day 2022**
Life Sciences Centre

[View All Events](#) | [Submit an Event](#)

STEMCELL Jobs in Vancouver

- Scientific Communications Associate**
STEMCELL Technologies
- Senior Program Associate, Business Operations Products**
STEMCELL Technologies
- Manager, Business Development Operations**
STEMCELL Technologies
- Research Associate**
STEMCELL Technologies
- Project Manager, Research & Development**
STEMCELL Technologies

[View 95 Other STEMCELL Jobs](#)

Other Science Jobs in Vancouver

- Microbiology Laboratory Technician**
CORCYM
- Research Projects Coordinator**
BC Cancer
- Associate Scientist, Computational Protein Engineering**
Amgen
- Postdoctoral Research Fellow, Endometriosis**
UBC
- Laboratory Equipment Assistant**
AbCellera

[View 41 Other Science Jobs](#) | [Submit a Job](#)



Submit your articles and events by reaching out to us at info@scienceinvancover.com.

BROUGHT TO YOU BY



- STEMCELL Technologies**
Products | Services
- STEMCELL Science News**
Free Weekly Updates on Your Field
- The Stem Cell Podcast**
Interviews and Updates on Stem Cell Science