

Publications of the Week

PTEN Is Required for Human Treg Suppression of Costimulation *In Vitro*

First Author: Avery Lam (*pictured*) | Senior Author: Megan Levings
European Journal of Immunology | BC Children's Hospital Research Institute, BC Cancer Research, and UBC



Regulatory T cell (Treg) therapy is under clinical investigation for the treatment of transplant rejection, autoimmune disease, and graft-versus-host disease. Using CRISPR-based genome editing in human Tregs, the authors show that PTEN ablation does not cause a global defect in Treg function and stability; rather, it selectively blocks their ability to suppress antigen-presenting cells. [Abstract](#)

The Different Prognostic Significance of Polysialic Acid and CD56 Expression in Tumour Cells and Lymphocytes Identified in Breast Cancer

First Author: Sepideh Soukhtehzari | Senior Author: Karla Williams (*pictured*)
npj Breast Cancer | UBC



Protein glycosylation, the attachment of carbohydrates onto proteins, is a fundamental process that alters the biological activity of proteins. Through immunohistological analysis of breast cancer patient tumours, the authors discovered the expression of an atypical glycan — polysialic acid — in breast cancer. [Abstract](#)

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Awards

SBME Student Loay Al-Salehi Continues Legacy with the 2022 Killam Graduate Teaching Assistant Award

UBC School of Biomedical Engineering (SBME)



SBME PhD candidate Loay Al-Salehi (*pictured*) has been awarded a 2022 Killam Graduate Teaching Assistant Award. Loay is a PhD candidate in his 5th year in the Biomedical stream of the Mechanical Engineering program. Loay knows that the research he does is a small, incremental step towards preventing catastrophic spine and spinal cord injuries, but he understands that taking that step at all can help improve the lives of people living with these injuries. [Read More](#)

Seven Pacific Entrepreneurs Receive Top EY Award

Ernst & Young (EY)



Seven Pacific business leaders have been recognized as EY Entrepreneur Of The Year[®] 2022 Pacific winners. Winners include Dr. Thomas Madden (*pictured*) of Acuitas Therapeutics and Drs. Euan Ramsay and James Taylor of Precision NanoSystems. "Coming from a variety of industries, this year's winners represent the full breadth and depth of Pacific innovation," says Anita Chang, Entrepreneur Of The Year Pacific Program Co-Director. [Read More](#)

Life Sciences BC Announces 24th Annual Award Winners

Life Sciences BC



Life Sciences BC has announced the recipients of the 24th Annual Life Sciences BC Awards, presented by Farris. These awards recognize the achievements of individuals, companies, and organizations that have had success in advancing successful health innovations and contribute to BC's life sciences ecosystem. Dr. Simon Pimstone (*pictured*) received the Don Rix Award for Lifetime Achievement in Life Sciences. [Read More](#)

Mopelola Akinlaja Wins Second Place in the UBC 3MT Competition, Encourages Grad Students to Challenge Themselves

UBC Centre for Blood Research



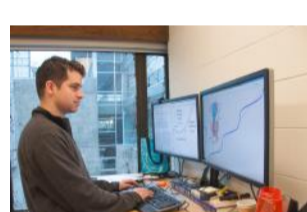
Mopelola (Lola) Akinlaja (*pictured*) faces a common dilemma: she loves sharing her science, but hates public speaking. This year, she challenged herself to take part in UBC Three Minute Thesis (3MT), where graduate students explain their thesis topic using one slide, in three minutes or less. She placed second in the competition, which featured over 28 UBC graduate students. [Read More](#)

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Local News

Whence Your Microbiome

SFU Research



How do people acquire their personalized gut microbiome? And how can people change their gut microbiome to become healthier? Researchers at SFU set out to answer these questions. Physics Professor and Canada Research Chair Dr. David Sivak's (*pictured*) research intersects with molecular biology and biochemistry, chemistry, and mathematics and uses an interdisciplinary approach to study the physical limitations of complex biological systems. [Read More](#)

SFU Researchers Develop New Chemical Biological Tools to Monitor Parkinson's Disease

SFU News



New research spearheaded by SFU researchers Matthew Deen and Yanping Zhu outlines new technology and methods to measure the activity of lysosomal glucocerebrosidase, an enzyme that is commonly linked to Parkinson's disease. "This is the first approach that has been shown to reliably and accurately report on the activity of this enzyme directly within lysosomes of living cells," says Chemistry and Molecular Biology and Biochemistry Professor Dr. David Vocadlo (*pictured*), one of the study's co-authors. [Read More](#)

Making Organ Transplants Safer

Pathways



It's often said about organ transplants that by fixing one problem you are creating another. That's because transplant recipients must take powerful immunosuppressive drugs for the rest of their lives to ensure their bodies do not reject the new organ. Dr. Megan Levings (*pictured*), a Professor in UBC's Department of Surgery and School of Biomedical Engineering, is leading groundbreaking work to demonstrate that the immune system can be trained to ignore specific triggers. [Read More](#)

GlycoNet Startup, ABOzymes, Completes Seed Financing Round to Fund Development of Technology to Enable Universal Organ Transplants and Blood Transfusions

GlycoNet



GlycoNet, one of the world's leaders in glycomics — the study of carbohydrates in all living organisms — has announced that ABOzymes Biomedical, a GlycoNet startup company, received substantial seed financing to further develop its groundbreaking proprietary technology platform that enables blood transfusions and life-saving organ transplants, regardless of patients' blood type. [Read More](#)

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Upcoming Events in Vancouver

July 20 12:00 PM	BC Brain Wellness Program Presents World Brain Day: Brain Health for All Online
July 29 10:00 AM	Development & Utilization of <i>In Vivo</i> Systems to Optimize Lipid Nanoparticles for Therapeutic Genome Editing Online
August 16 9:00 AM	SBME Synergy Research Day Life Sciences Centre
August 16 12:00 PM	CBR Research Day 2022 Life Sciences Centre
September 15–18 8:30 AM	ISCOs Annual Scientific Meeting Vancouver Convention Centre

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- Senior Process Development Scientist, Chemistry**
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- Associate Director, R&D Business Planning and Operations**
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- Scientist, Contract Assay Services**
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- Senior Lab Associate**
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Other Science Jobs in Vancouver

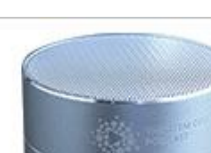
- Research Assistant / Technician III**
UBC
- Postdoctoral Fellow**
adMare BioInnovations
- Principal Investigator**
AbCellera
- Senior Scientist, Product Development**
bioLytical Laboratories
- Scientist, Protein Biochemistry**
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