

Publications of the Week

DLL4 and VCAM1 Enhance the Emergence of T Cell-Competent Hematopoietic Progenitors From Human Pluripotent Stem Cells

First Authors: Yale Michaels (*pictured, back row, second from left*) and John Edgar | Senior Author: Peter Zandstra
Science Advances | Michael Smith Laboratories and UBC



T cells show tremendous efficacy as cellular therapeutics. However, obtaining primary T cells from human donors is expensive and variable. Pluripotent stem cells (PSCs) have the potential to provide a renewable source of T cells, but differentiating PSCs into hematopoietic progenitors with T cell potential remains an important challenge. The authors report an efficient serum- and feeder-free system for differentiating human PSCs into hematopoietic progenitors and T cells. [Profile](#) | [Abstract](#)

Cellular Taxonomy of Hic1⁺ Mesenchymal Progenitor Derivatives in the Limb: From Embryo to Adult

First Author: Martin Arostegui | Senior Author: Michael Underhill
Nature Communications | Biomedical Research Centre and UBC



Tissue development and regeneration rely on the cooperation of multiple mesenchymal progenitor (MP) subpopulations. The authors recently identified *Hic1* as a marker of quiescent MPs in multiple adult tissues. They describe the embryonic origin of appendicular *Hic1*⁺ MPs and demonstrate that they arise in the hypaxial somite, and migrate into the developing limb at embryonic day 11.5, well after limb bud initiation. [Abstract](#)

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Awards

August 2022 Award Winners

Science in Vancouver



Dr. Phil Hieter (*pictured*), a Professor in the Department of Medical Genetics at UBC, received a Canadian Institutes of Health Research grant to expand the impact and reach of the Canadian 'Rare Diseases: Models and Mechanisms' Network. Learn which other researchers in Vancouver won awards, grants, fellowships, or scholarships in August's award summary! [Read More](#)

UBC Medical Student Mohit Sodhi Receives 2022 Canadian Medical Hall of Fame Award

UBC Faculty of Medicine



UBC Faculty of Medicine student Mohit Sodhi (*pictured*) has been awarded a Canadian Medical Hall of Fame Award. The award recognizes medical students with an established track record of community leadership, superior communication skills, and demonstrated interest in advancing knowledge. As a graduate from UBC's Experimental Medicine Program, Sodhi's research examines rare adverse events of some of the most commonly prescribed medications. [Read More](#)

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Local News

Mobilizing Vaccine Research in a Pandemic

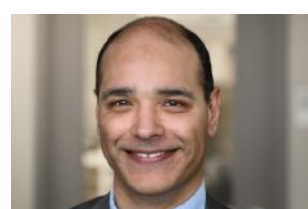
UBC Faculty of Medicine



When Canada began rolling out COVID-19 vaccines, the Vaccine Evaluation Center (VEC) supported by UBC and the BC Children's Hospital Research Institute mobilized rapidly to monitor the safety and side effects of the vaccines with the launch of the CANVAS-COVID study. For Kim Marty, Senior Data Manager at the VEC, one of the biggest challenges was ensuring the success of the study in the face of unprecedented enrolment. [Read More](#)

Meet the Scuba-Diving Cyclist Who Works on the Frontlines of Vaccine Research

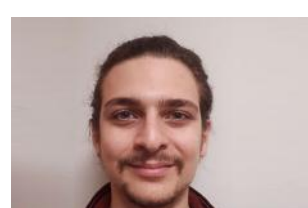
BC Children's Hospital Research Institute



As a clinician, investigator, and Director of the Vaccine Evaluation Center at BC Children's Hospital, Sauder Family Chair in Pediatric Infectious Diseases, and Associate Professor at UBC, Dr. Manish Sadarangani (*pictured*) has become even busier since the start of the COVID-19 pandemic. To help recognize National Immunization Awareness Month, he answered some questions about his life and work. [Read More](#)

UBC 3MT Finalist Calls for More Science Communication

The Centre for Blood Research



Congratulations to Nicolas Pereyra (*pictured*) for placing in the top three of this year's UBC Three Minute Thesis (3MT) competition! He was inspired to participate in the UBC 3MT due to his love for public speaking, and to share his work and dedication to science. "You have a responsibility, at the end of the day, to communicate about the important and cool work that you do, to a world that doesn't know what you're doing." [Read More](#)

UBC Team Developing Oral Insulin Tablet Sees Breakthrough Results

UBC News



A team of UBC researchers working on developing oral insulin tablets as a replacement for daily insulin injections have made a game-changing discovery. They've discovered that insulin from the latest version of their oral tablets is absorbed by rats in the same way that injected insulin is. "These exciting results show that we are on the right track in developing an insulin formulation that will no longer need to be injected before every meal", says Dr. Anubhav Pratap-Singh. [Read More](#)

Sanotize Announces \$24 Million in Series B Funding to Advance Its Nitric Oxide-Based Therapeutics, Including Nasal Spray for the Treatment and Prevention of COVID-19

SaNOtize via Business Wire



SaNOtize Research & Development, a Canadian anti-infective-focused therapeutics company, has announced an oversubscribed \$24 million Series B funding to advance its nitric oxide-based therapeutics pipeline. The lead treatment in the pipeline is the company's nitric oxide nasal spray, shown in clinical studies to treat and prevent COVID-19 infection. [Read More](#)

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Upcoming Events in Vancouver

- September 7 - 8 **Dynamic Neuroscience Workshop**
9:00 am SFU Harbour Centre & Online
- September 7 **WHRI's World Sexual Health Day 2022**
12:00 pm Online
- September 9 **Metabolic MRI at Ultra-High Fields — From Systems Architecture to Application**
11:00 am Djavad Mowafaghian Centre for Brain Health & Online
- September 15 **Life Sciences BC Annual General Meeting 2022**
8:00 am Fasken Vancouver Office & Online
- September 15 - 18 **ISCoS Annual Scientific Meeting**
8:30 am Vancouver Convention Centre

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Amgen
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Qu Biologics
- Research Assistant**
SFU
- Senior Director, Early Development Oncology**
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Free Wallchart: Small Molecules in Cancer Research

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