

Publications of the Week

## Moving towards Precision Urologic Oncology: Targeting Enzalutamide-Resistant Prostate Cancer and Mutated Forms of the Androgen Receptor Using the Novel Inhibitor Darolutamide

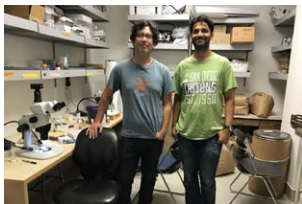
First Author: Hendrik Borgmann | Senior Author: Martin Gleave (*pictured*)  
European Urology | Vancouver Prostate Centre and UBC



Darolutamide is a novel androgen receptor (AR) antagonist with a chemical structure distinctly different from currently approved AR antagonists that targets both wild-type and mutated ligand binding domain variants to inhibit AR nuclear translocation. The authors evaluated the activity of darolutamide in enzalutamide-resistant castration resistant prostate cancer as well as in AR mutants detected in patients after treatment with enzalutamide, abiraterone, or bicalutamide. [Profile](#) | [Abstract](#)

## Modulation of Occluding Junctions Alters the Hematopoietic Niche to Trigger Immune Activation

First Author: Rohan Khadilkar (*right*) | Senior Author: Guy Tanentzapf (*left*)  
eLife | UBC



The authors showed that bacterial infection induces the cellular immune response by modulating occluding-junctions at the hematopoietic niche. Occluding-junctions form a permeability barrier that regulates the accessibility of prohemocytes to niche derived signals. The immune response triggered by infection causes barrier breakdown, altering the prohemocyte microenvironment to induce immune cell production. [Profile](#) | [Abstract](#)

## Cell-Type and Tissue Specific Transcriptomes of the White Spruce (*Picea Glauca*) Bark Unmask Fine-Scale Spatial Patterns of Constitutive and Induced Conifer Defense

First Author: Jose Celedon | Senior Author: Joerg Bohlmann (*pictured*)  
The Plant Journal | Michael Smith Laboratories and UBC

Plant defenses often involve specialized cells and tissues. In conifers, specialized cells of the bark are important for defense against insects and pathogens. Using laser microdissection, the authors characterized the transcriptomes of cortical resin duct cells, phenolic cells, and phloem of white spruce bark under constitutive and



methyl jasmonate-induced conditions, and compared these transcriptomes with the transcriptome of the bark tissue-complex. [Abstract](#)

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#### Awards

## Dr. Aly Karsan Wins Terry Fox New Frontiers Program Project Grant for Cutting-Edge Project in Leukemia

The Terry Fox Research Institute



The Terry Fox Research Institute has invested nearly \$21.5 million to renew three 2017 Terry Fox New Frontiers Program Project Grants (PPGs), including one from Dr. Aly Karsan at the BC Cancer Agency. PPG awards are designed to bring together leading researchers with complementary skills to investigate different aspects of a given area of cancer research. [Read More](#)

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#### Local News

## CBR Researchers Develop a Novel Blood Binding Bandage to Help Control Traumatic Hemorrhage

The Centre for Blood Research



In emergency medicine, there is a constant need for simple, robust methods to control traumatic hemorrhage. This form of trauma is made especially challenging when hemorrhages occur in remote locations lacking well-equipped medical facilities. To address this issue, a team of chemists from the Centre for Blood Research at UBC have developed a low-tech wound dressing engineered to locally enhance the clotting process at the hemorrhage site. [Read More](#)

## Dr. Julie Robillard Appointed Associate Director, National Core for Neuroethics

Djavad Mowafaghian Centre for Brain Health



Dr. Julie Robillard has been appointed Associate Director of the National Core for Neuroethics. The National Core for Neuroethics is an interdisciplinary research group with a mission to protect and ensure public good by aligning innovations in the brain sciences with human values. In her new role as Associate Director, she will continue to conduct high impact research at the intersection of brain and mental health, ethics and technology. [Read More](#)

## Building Capacity for Improved Public Health Delivery



Genome BC has invested approximately \$850,000 towards two projects that successfully illustrate the application of precision health in our Province's public healthcare system. The first project uses genomics to better prevent the spread of "superbugs" in hospitals and care facilities. The second project builds on existing capacity at the BC Cancer Agency's Centre for Clinical Genomics. [Read More](#)

## biOasis Announces Formation of Scientific Advisory Board to Advance the Science for the Company's Blood-Brain Barrier Drug Delivery Platform

biOasis Technologies



biOasis Technologies Inc., a biopharmaceutical company focused on overcoming the limitations of therapeutic drug delivery across the blood-brain barrier and into the central nervous system for the treatment of neurological diseases and disorders, has announced the appointments of John H. Krystal, Jeffrey L. Cummings, and John P. Wikswo, Jr. to its newly established Scientific Advisory Board. [Read More](#)

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### Interesting Articles

## Harjit Sajjan Announces \$42M in Federal Spending on Science and Engineering at UBC

Global News



The federal government is spending over \$42 million on science and engineering at UBC. Harjit Sajjan, speaking on behalf of Minister of Science Kirsty Duncan, said the money is going towards "fundamental" research. The money will be distributed through the Natural Sciences and Engineering Research Council of Canada's 2017 competition for the Discovery Grants Program, scholarships and fellowships.

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### Upcoming Events in Vancouver

- |                          |  |
|--------------------------|--|
| September 18<br>10:00 AM | <b>SFU Big Fair 2017</b><br>Simon Fraser University                                    |
| September 20<br>7:00 PM  | <b>Et Al Too: The Return of the Ultimate Bar Science Night</b><br>Fox Cabaret          |
| September 21<br>5:00 PM  | <b>Beaty Nocturnal: Life In Colour Opening</b><br>Beaty Biodiversity Museum            |
| September 22<br>7:00 PM  | <b>UBC Postdoctoral Association Postdoc Appreciation Dinner</b><br>Royal Seoul House   |
| September 23<br>8:30 AM  | <b>17th Annual Pacific Northwest Prostate Cancer Conference</b><br>Paetzold Auditorium |

## **Science Jobs in Vancouver**

### **Product Marketing Manager, Neural**

STEMCELL Technologies

### **Research Technologist**

STEMCELL Technologies

### **Research Coordinator**

SFU's Faculty of Health Sciences and the First Nations Health Authority

### **Computational Biologist**


Department of Microbiology and Immunology, UBC

### **Biostatistician**

Xenon Pharmaceuticals

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