

Publications of the Week

### Somatostatin Maintains Permeability and Integrity of Blood-Brain Barrier in $\beta$ -Amyloid Induced Toxicity

First Author: Seungil Paik | Senior Author: Ujendra Kumar *(pictured)*  
Molecular Neurobiology | UBC



In Alzheimer's disease, the impaired clearance of  $\beta$ -amyloid peptide (A $\beta$ ) due to disrupted tight junction and transporter proteins is the prominent cause of disease progression. Using human CMEC/D3 cells, the authors demonstrate that somatostatin prevents A $\beta$ -induced blood-brain barrier permeability by regulating LRP1 and RAGE expression and improving the disrupted tight junction proteins.

[Profile](#) | [Abstract](#)

### Listeria Membrane Protrusion Collapse: Requirement of Cyclophilin A for Listeria Cell-to-Cell Spreading

First Author: Aaron Dhanda | Senior Author: Julian Guttman *(pictured)*  
The Journal of Infectious Diseases | UBC and SFU



*Listeria* generate actin-rich tubular protrusions at the plasma membrane that propel the bacteria into neighbouring cells. The precise molecular mechanisms governing the formation of these protrusions remain poorly defined. The authors demonstrate that the PPIase Cyclophilin A (CypA) is hijacked by *Listeria* at membrane protrusions used for cell-to-cell spreading, demonstrating a crucial role for CypA during *Listeria* infections. [Abstract](#)

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Awards

### Ryan Brinkman Wins 2018 Distinguished Service Award from the International Society for Advancement of Cytometry

Terry Fox Laboratories



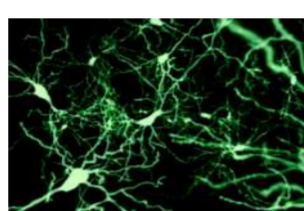
Congratulations to Dr. Ryan Brinkman *(pictured)* who has been awarded the 2018 Distinguished Service Award from the International Society for Advancement of Cytometry. The award was established to honour those individuals who served the society in a major role, provided major support to the society and its members, or made a significant contribution to the success of the society. [Read More](#)

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Local News

### Cooperation between Brain Cells Regenerates Cerebral Blood Flow after Stroke

Djavad Mowafaghian Centre for Brain Health



During an ischemic stroke, a blockage in an artery prevents blood flow through the affected area of the brain, resulting in oxygen deprivation and cell death. Ischemic stroke, caused by blood clots, is the most common type of stroke. Dr. Brian MacVicar and Dr. Louis-Philippe Bernier recently uncovered how two types of cells, astrocytes and pericytes, work together to regenerate blood flow in the areas affected by ischemic stroke. [Read More](#)

### 1 in 7 Canadian Men Get Prostate Cancer

The Vancouver Sun



"Men tend to move through the first half of their life with minimal need for interaction, with oftentimes a sense that nothing can break down," said Dr. Martin Gleave *(pictured)*, executive director of the Vancouver Prostate Centre. "For some, the first brush of the fear of a lethal diagnosis is with an elevated prostate-specific antigen, which places them in a higher-risk group of having prostate cancer." [Read More](#)

### "Worker" and "Slacker" Rats Show Differences in Decision-Making Processes

Djavad Mowafaghian Centre for Brain Health



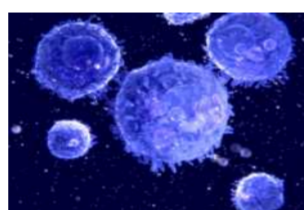
A team of researchers led by Dr. Catharine Winstanley at UBC has identified differences in the brains of rats engaged in decision-making processes, revealing individual variability in cognitive effort and motivation and confirming that there is no one central decision-making region in the brain. Understanding the mechanisms underlying the decision-making process is a promising step toward identification of new targets of intervention in psychiatric disorders. [Read More](#)

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Interesting Articles

### Navigating Immunotherapies to Canada

Biotechnology Focus



Several acquisitions over the past year have got the ball rolling with hopes to advance immunotherapies. Despite the curative potential, these therapies come with a hefty price tag and complex challenges. With the first immunotherapies to win regulatory approval in the United States, the Centre for Commercialization of Regenerative Medicine hosted a panel to discuss how we can bring these therapies to Canada. [Read More](#)

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### Upcoming Events in Vancouver

May 29 7:30 PM	<b>Cafe Scientifique: Insects in the City</b> Yagger's Downtown
May 31 7:30 PM	<b>Universe of the Brain</b> H.R. MacMillan Space Centre
June 6 9:30 AM	<b>Providence Health Care Research Institute Research Day</b> Sutton Place Hotel
June 7 - 8 8:00 AM	<b>Knowledge Translation Canada Scientific Meeting</b> Coast Coal Harbour Hotel
June 11 - 15 9:00 AM	<b>Molecular Biology Workshop for Professionals</b> AMBL Lab at Michael Smith Building

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### STEMCELL Jobs in Vancouver

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[STEMCELL Technologies](#)
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- Scientific Sales Representative, Cell Culture Products**  
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### Other Science Jobs in Vancouver

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Precision NanoSystems
- Senior Scientist, Assay Development**  
Contextual Genomics
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- Manager, Clinical Quality Assurance**  
Xenon Pharmaceuticals
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