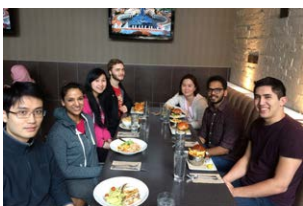


1.32: October 23, 2017

Publications of the Week

Conserved and Unique Features of the Fission Yeast Core Atg1 Complex

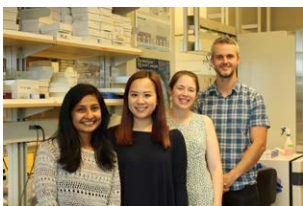
First Author: Tamiza Nanji (*second from left*) | Senior Author: Calvin Yip (*far left*)
Autophagy | UBC



Although the human ULK complex mediates phagophore initiation similar to the budding yeast *Saccharomyces cerevisiae* Atg1 complex, this complex contains ATG101 but not Atg29 and Atg31. The authors analyzed the fission yeast *Schizosaccharomyces pombe* Atg1 complex, which has a subunit composition that resembles the human ULK complex. This work generates new insights into the subunit organization and structural properties of an Atg101-containing Atg1/ULK complex. [Profile](#) | [Abstract](#)

Selective Aggregation of the Splicing Factor Hsh155 Suppresses Splicing upon Genotoxic Stress

First Author: Veena Mathew (*far left*) | Senior Author: Peter Stirling (*far right*)
The Journal of Cell Biology | BC Cancer Agency and UBC



Upon genotoxic stress, dynamic relocalization events control DNA repair as well as alterations of the transcriptome and proteome, enabling stress recovery. How these events may influence one another is only partly known. The authors analyses suggest a model in which some proteins evicted from chromatin and undergoing transcriptional remodeling during stress are targeted to protein quality control sites to influence gene expression changes and facilitate stress recovery. [Profile](#) | [Abstract](#)

Self-Biotinylation of DNA G-Quadruplexes via Intrinsic Peroxidase Activity

First Author: Owen Einarson (*not pictured*) | Senior Author: Dipanker Sen (*left*)
Nucleic Acids Research | SFU



The striking and ubiquitous *in vitro* affinity between hemin and DNA/RNA G-quadruplexes raises the intriguing possibility of its relevance to biology. Complexation by G-quadruplexes leads to activation of the bound hemin toward catalysis of 1- and 2-electron oxidative reactions, with phenolic compounds being particularly outstanding substrates. The authors report a strategy for exploiting that intrinsic peroxidase activity of hemin-G-quadruplex complexes for self-biotinylation

Awards

UBC Faculty of Medicine Receives \$31 Million in Federal Grants for Research Infrastructure

UBC Faculty of Medicine



Production of cancer-killing isotopes and creating more personalized treatments for respiratory diseases are among the eight projects receiving major grants from the Canada Foundation for Innovation (CFI). UBC Faculty of Medicine received a total of \$31.2 million in this latest round of CFI funding, and the eight projects represent the majority of the 15 grants, totaling \$52.2 million, awarded to UBC. [Read More](#)

Five SFU-Led Research Projects Share \$21.7 Million from CFI's Innovation Fund

SFU News



Five SFU research projects—from creating a new centre for wearable biomedical technologies to studies in immersive remote sensing communication— will benefit from \$21.7 million in new infrastructure funding from the Canada Foundation for Innovation (CFI). The federal contribution is expected to more than double over the next five years from partner contributions. [Read More](#)

Dr. Amina Zoubeydi and Dr. Alex Wyatt Receive Prostate Cancer Foundation Challenge Award and Movember Discovery Grant

Vancouver Prostate Centre



Two Vancouver Prostate Centre researchers have been awarded grants to fund research projects aimed at improving the treatment of prostate cancer. Dr. Alex Wyatt and his team, including Drs. Kim Chi and Faraz Hach, were awarded a Movember Discovery Grant, and Dr. Amina Zoubeydi (*pictured*) was awarded a 2017 Prostate Cancer Foundation Challenge Award. [Read More](#)

VIDEO: Aspect Biosystems and Dr. Stephanie Willerth Win Ignite Fall 2017 Award

BC Innovation Council



The BC Innovation Council has awarded Aspect Biosystems (*President and CEO, Dr. Tamer Mohamed, pictured*) and Dr. Stephanie Willerth a Fall 2017 Ignite Award for their project developing functional, 3D bio-printed human nerve tissues that can recreate the pathology of neurodegenerative disorders such as Parkinson's disease and spinal cord injury. [Read More](#)

Your Voice

Children's Heart Centre at BCCH Becomes Research Leader on a Rare Pediatric Arrhythmia

Dr. Karolina Jones



The Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT) Registry and Biobank is an international multi-centre study led by Dr Shubhayan Sanatani at the Children's Heart Centre at BC Children's Hospital (BCCH). CPVT is a rare genetic heart condition characterized by an abnormal heart rhythm triggered by emotional stress or exercise. An infographic with preliminary data obtained from the study is helping to raise awareness of CPVT among researchers and physicians.

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Local News

Research-Treatment Model Puts B.C. Children's Hospital at Forefront of 'Precision Medicine'

The Vancouver Sun



B.C. Children's Hospital, including its research institute, is also home to the new Teck Acute Care Centre. The acute care centre is close enough to the research institute that staff will be able to walk blood samples from patients directly to the research lab where treatments can be honed and personalized. The model of clinical care integrated with research can take breakthroughs in the lab directly to the patient when traditional treatments have failed. [Read More](#)

UBC Researchers Pull Paper Linking Vaccine Component to Autism after Data Alleged to Be Manipulated

CBC News



Researchers from UBC are retracting their scientific paper linking aluminum in vaccines to autism in mice, because one of the co-authors claims figures published in the study were deliberately altered before publication — an issue he says he realized after allegations of data manipulation surfaced online. [Read More](#)

ICORD Student Competes Internationally

International Collaboration on Repair Discoveries

International Collaboration on Repair Discoveries PhD student Seth Tigchelaar (*pictured, left*) is representing UBC in the international 3-Minute Thesis competition. The 3 Minute Thesis challenges graduate students to explain their research to a non-scientific audience in three minutes or less. Seth, who is working on his PhD



with Dr. Brian Kwon, is studying how biomarkers can help predict the severity of spinal cord injury. [Read More](#)

The Centre for Drug Research and Development Announces Appointments to Its Board of Directors

The Centre for Drug Research and Development



The Centre for Drug Research and Development, Canada's national drug development and commercialization centre, is pleased to announce the appointments of Dr. Francois Bénard (*pictured*) and Ms. Nancy Harrison as Directors of the organization. Dr. Bénard is Vice President of Research at the BC Cancer Agency, and Ms. Harrison is a biotechnology venture capitalist, a company founder and leader, and an active board and community member. [Read More](#)

InMed Appoints Dr. Mauro Maccarrone to Its Scientific Advisory Board

InMed Pharmaceuticals



InMed Pharmaceuticals Inc., a Vancouver biopharmaceutical company specializing in the research and development of novel, cannabinoid-based drug therapies, is pleased to announce the addition of Dr. Mauro Maccarrone (*pictured*) to its Scientific Advisory Board. Dr. Mauro Maccarrone is Professor and Chair of Biochemistry and Molecular Biology at Campus Bio-Medico, University of Rome.

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Interesting Articles

German Researchers Resign from Elsevier Journals in Push for Nationwide Open Access

Science



Five leading German scientists have resigned from their editorial positions at journals published by Elsevier, the latest step in a battle over open-access and subscription policies between the Dutch publishing giant and a consortium of German libraries, universities, and research institutes. The researchers want Elsevier to accept a new payment model that would make all papers authored by Germany-based researchers open access. [Read More](#)

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 [Upcoming Events in Vancouver](#)

- October 23
3:30 PM

Gairdner Symposium
Life Sciences Institute, UBC
- October 26
4:00 PM

Discussions Relevant to Inspiring New Knowledge and Science
Mahony and Sons
- October 31
7:30 PM

Cafe Scientifique
Yaggers Downtown
- November 5 - 7
8:00 AM

4th Canadian Cancer Research Conference
Vancouver Convention Centre
- November 24
4:00 PM

Discussions Relevant to Inspiring New Knowledge and Science
Mahony and Sons

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 **Science Jobs in Vancouver**

Quality Control Analyst, Pluripotent Stem Cells
STEMCELL Technologies

Senior Customer Success Specialist
STEMSOFT Software

Cell Biologist
Aspect Biosystems

Research Coordinator, Hematology/Oncology
St. Paul's Hospital

Assistant Professor, Tenure Track
UBC Department of Cellular and Physiological Sciences

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