

Publications of the Week

Can We Predict Protein from mRNA Levels?

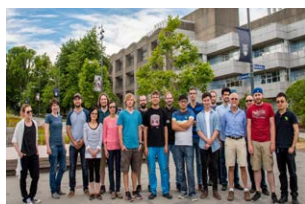
First Author: Nikolaus Fortelny | Senior Author: Gabriela Cohen Freue (*pictured*)
Nature | UBC



Prediction of protein levels from mRNA levels has long been fraught with unreliability and a lack of precision. Others have claimed that using estimated gene-specific translation rates together with mRNA levels accurately predicts protein levels in any given tissue, reporting correlations of approximately 0.9 between predictions and measurements across genes. The authors showed that these correlations greatly overestimate the accuracy of per-gene predictions. [Profile](#) | [Abstract](#)

Glycosyl Cations versus Allylic Cations in Spontaneous and Enzymatic Hydrolysis

First Author: Phillip Danby (*third from right, back*) | Senior Author: Stephen Withers (*third from right, front*)
Journal of the American Chemical Society | UBC



Enzymatic prenyl and glycosyl transfer are seemingly unrelated reactions that yield molecules and protein modifications with disparate biological functions. However, both reactions employ diphosphate-activated donors and each proceed via cationic species. The authors explored the relationship between these processes by preparing valienyl ethers that served as glycoside mimics that were capable of allylic rather than oxocarbenium cation stabilization. [Profile](#) | [Abstract](#)

New Class of Glycoside Hydrolase Mechanism-Based Covalent Inhibitors: Glycosylation Transition State Conformations

First Author: Saeideh Shamsi Kazem Abadi | Senior Author: Andrew Bennet (*pictured*)
Journal of the American Chemical Society | SFU



The design of covalent inhibitors in glycoscience research is important for the development of chemical biology probes. The authors report the synthesis of a new carbocyclic mechanism-based covalent inhibitor of an α -glucosidase. The enzyme efficiently catalyzed its alkylation via either an allylic cation or a cationic transition state. This allylic covalent inhibitor had different catalytic proficiencies for pseudoglycosylation and deglycosylation. [Abstract](#)

Awards

Five Faculty Members Receive Latest Round of CIHR Foundation Grants

UBC Faculty of Medicine



The Canadian Institutes for Health Research (CIHR) announced its latest Foundation Grants and five members of the Faculty of Medicine are among the awardees. A total of nine researchers from UBC attracted a combined 23.4 million dollars of funding. Winners include Drs. Michael Hayden (*pictured*), David Huntsman, Megan Levings, Keith Walley, and Yu Tian Wang. [Read More](#)

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Local News

MSFHR to Provide Match Funds on CIHR Patient-Oriented Research Grants

Michael Smith Foundation for Health Research



In line with their commitment to grow BC's research presence, both in Canada and globally, the Michael Smith Foundation for Health Research (MSFHR) is offering matching funds to support the highest ranked BC applications that secure programmatic grants via the CIHR Strategy for Patient-Oriented Research Network in Primary and Integrated Health Care Innovation. [Read More](#)

BioLytical Laboratories Launches Instant HIV Home Test in the Netherlands

BioLytical Laboratories via PR Newswire



Richmond-based BioLytical Laboratories, a world leader in rapid infectious disease tests, announced the launch of the INSTI® HIV Self Test in pharmacies across the Netherlands. With a single drop of blood, the INSTI HIV Self Test is more than 99% accurate and provides test results in 60 seconds or less, far faster than the 15-20 minutes required for competitors' tests based on lateral flow technology. [Read More](#)

Dr. Manish Sadarangani Named Sauder Chair in Pediatric Infectious Diseases

BC Children's Hospital Research Institute



Congratulations to Dr. Manish Sadarangani on his recent appointment as the Sauder Chair in Pediatric Infectious Diseases at UBC. Funded by a donation from the Sauder Family, the Chair supports research to improve the prevention, diagnosis and treatment of childhood infectious diseases. The Sauder Chair in Pediatric Infectious Diseases was previously held by Dr. David Speert. [Read More](#)

Aequus and Scientus Agree to Terms for a Medical Cannabis Commercial Supply and Product Development Collaboration

Aequus Pharmaceuticals



Aequus Pharmaceuticals Inc. and Scientus Pharma Inc. have announced that they have signed a non-binding term sheet on a collaboration to develop, assess clinical performance, and commercialize a cannabinoid containing transdermal formulation designed and optimized to address both acute and chronic treatment of resistant epilepsy, and certain other neurological disorders. [Read More](#)

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Upcoming Events in Vancouver

- | | |
|-------------------------|---|
| August 16
5:30 PM | Summer Executive Networking Event
Shangri-La Hotel |
| August 17
12:00 PM | Centre for Blood Research Research Day
Life Sciences Centre |
| August 17
4:00 PM | Discussions Relevant to Inspiring New Knowledge and Science
Mahony and Sons, Stamps Landing |
| September 7
3:00 PM | The Beautiful Brain: A Celebration of Art and Neuroscience
Robert H. Lee Alumni Centre |
| September 23
8:30 AM | 17th Annual Pacific Northwest Prostate Cancer Conference
Paetzold Auditorium |

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Science Jobs in Vancouver

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STEMCELL Technologies

Research Technologist

STEMCELL Technologies

Senior Scientist, Assay Development

Zymeworks

Antibody Testing Laboratory Technician

GenomeMe

BC Cancer Agency

Laboratory Coordinator

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