

# Student Research News e-bulletin

January 15, 2021

<http://www.med.ubc.ca/srn>

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## Funding Opportunities & Awards

### Funding Opportunities:

#### Charles Hollenberg Summer Studentship Program

**Deadline: 21-Jan-21**

Amount: \$5,985

Summer studentships to **undergraduate and medical students** to carry out summer research in diabetes. A stipend of \$5,985 will be offered to successful applicants. Note that the Banting and Best Diabetes Centre will provide \$2,992.50 and a minimum of \$2,992.50 must be provided by the supervisor. Students are required to work full-time for a minimum of 12 weeks between May 1 and August 31.

#### Canadian Foundation for Infectious Diseases AMMI Canada- CFID Medical Student Research Award

**Deadline: 22-Jan-21**

Amount: \$5,000

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Provides support for **medical students** who are interested in research in infectious diseases and microbiology. Successful applicants will receive an award of \$5,000 for an 8-10-week research term that is performed consecutively over the summer, or intermittently over the course of one academic year.

## Canadian Foundation for Infectious Diseases CFID Undergraduate Summer Research Grant

**Deadline: 22-Jan-21**

Amount: \$5,000

Provides support for **undergraduate students in their 2nd year or higher** with a minimum GPA of B+ (3.33 or 76%) conducting research relevant to the diagnosis, treatment, or prevention of infectious diseases. Successful applicants will receive an award of \$5,000 for an 12-13-week research term that is performed either as a summer research project, an elective research term, or a co-op work term.

## Society of Hospital Medicine: Student Hospitalist Scholar Grant

**Deadline: 31-Jan-21**

Amount: \$5,000 student stipend and up to \$1,500 travel expenses

This award is for **medical students**. Awardees will receive \$5,000 for an 8- to 10-week summer research project. Additionally, up to \$1,500 will be reimbursed to the student for travel-related expenses to attend the annual SHM Hospital Medicine conference.

## Canadian Association of Gastroenterology Summer Studentship Awards

**Deadline: 31-Jan-21**

Amount: \$6,000

This award is open to **first-time undergraduate students**. Successful applicants will be awarded a stipend of \$6,000 for full time work on a research project for 4 months (May to August). An additional \$1,000 will be awarded to the top ranked applicant for the Ivan Beck Memorial Summer Studentship.

## CurePSP Urso Summer Student Fellowships (for Research on Progressive Supranuclear Palsy)

**Deadline: 31-Jan-21**

Amount: \$3,000

This award is open to **MD and non-MD undergraduate students**. Projects may be in basic, translational, clinical or epidemiological aspects of PSP, and must be supervised by a faculty mentor with expertise in the field. A maximum stipend of \$3,000 will be awarded.

## American Physiological Society (APS) Undergraduate Summer Research Fellowships

**Deadline: 1-Feb-21**

Amount: \$4,000 student stipend and up to \$1,300 in travel

Provides support for **first – third year non-MD undergraduate students** with little or no laboratory research experience to work for 10 weeks during the summer. Applicants must have an overall GPA of 3.0 or higher. Successful applicants will receive a \$4,000 student stipend, be eligible for up to \$1,300 in travel expenses, and receive a one-year complimentary APS membership.

## American Society for Pharmacology and Experimental Therapeutics Summer Undergraduate Research Fellow

**Deadline: 1-Feb-21**

Amount: \$2,800

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Open to **undergraduate students** interested in pharmacology research. Successful applicants will receive a stipend of \$2,800 for a minimum of 10 weeks participation in the program.

## ASH Physician-Scientist Career Development Award

**Deadline: 1-Feb-21**

Amount: \$42,000

Award for **first- to third-year medical students** to gain experience in hematology research. The award amount total is \$42,000 which includes a stipend, allowance for supplies, insurance/educational expenses and meeting attendance. The award is for a one-year period, generally July 1, 2021 through June 30, 2022.

## Neurosurgery Research and Education Foundation Medical Student Summer Research Fellowship

**Deadline: 1-Feb-21**

Amount: \$2,500

Provides fellowships of \$2,500 to **medical students**. Students must have completed at least one year of medical school.

## Society for Vascular Surgery (SVS) Student Research Fellowship

**Deadline: 1-Feb-21**

Amount: \$3,000 USD

**MD and non-MD undergraduate students** are eligible to apply. Minimum commitment of 2 months and a maximum of 12 months. Each award consists of a \$3,000 USD student stipend and a two-year complimentary subscription to the *Journal of Vascular Surgery*.

## Radiological Society of North America (RSNA) Medical Student Grant

**Deadline: 3-Feb-21**

Amount: \$6,000

Open to **medical students** interested in radiologic sciences. Applicants are expected to undertake a full-time research project of at least 10 weeks long. A stipend of \$3,000 is to be matched by the sponsoring department (\$6,000 in total) and may not be used for non-personnel research expenses.

## Alberta Innovates – Health Solutions Summer Studentships

**University of Alberta- deadline: 3-Feb-21; Amount: \$3,000 - \$6,000**

**University of Calgary- deadline: 5-Feb-21; Amount: \$3,000 - \$6,000**

**University of Lethbridge- deadline: 1-Feb-21; Amount: \$8,730**

Alberta Innovates - Health Solutions (AIHS) Summer Studentships offer students an opportunity to participate in medical or health research in Alberta during the summer months. Eligibility includes **both MD and non-MD undergraduates** who wish to research during the summer at an Alberta University. Studentships are offered at the University of Alberta, University of Calgary, and University of Lethbridge, but applicants can be enrolled in institutions outside of Alberta. Successful applicants will receive a stipend ranging from \$3,000 to \$8,730 and must participate for a minimum of 8-weeks. **Note that applications are made by faculty members at their home institution and students must apply through the faculty member's institution, not directly to AIHS.** Please consult the pages of the respective universities for more information on application and eligibility.

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## Funding Reminders:

Deadline	Award
15-Jan-21	Canadian Cancer Society Travel Awards
15-Jan-21	Society of Interventional Radiology Dr. and Mrs. W.C. Culp Student Research Grant

## Events

### Upcoming Events:

#### **18-Jan-21 2:30pm (Virtual)**

[Biochemistry and Molecular Biology Seminars](#)

[Dr. Khanh Dao Duc, Department of Mathematics, UBC](#)

[Unraveling translation dynamics and ribosome structural heterogeneity across scales and species](#)

The translation of mRNA into protein is a fundamental biological process, regulated by the flow of ribosomes and many biophysical mechanisms that can locally modulate its dynamics. In the first part of this talk, I will present how we studied the determinants of translation dynamics and inferred position- and gene-specific translation rates, by combining deep sequencing experiments (Ribo-Seq) with biophysical modelling of the ribosome traffic. In particular, our study reveals the role played by a sub-compartment of the ribosome called the ribosome exit tunnel, which we confirmed by analyzing the ribosome atomic structure. We further considered evolutionary aspects of the exit tunnel, and studied the geometry, structure and sequence variation of the tunnel across species. In the second part, I will detail the extent of the tunnel variation across domains of life, which also explains certain differences between eukaryotes and prokaryotes in their translation mechanisms. With the recent surge of cryo-EM ribosome structures, I will finally mention our current effort to generalize this approach, and provide more integrative and computational tools to comprehensively analyze the structural heterogeneity of the ribosome, and investigate its biological implications.

#### **18-Jan-21 9:30am-6:00pm (Virtual)**

[Postdoctoral Fellows Research Day 2021](#)

Postdoc Research Day gives postdocs from across UBC the opportunity to showcase their research in presentations designed for a non-expert audience. This year's event will include 15 min full talks and 5 min lightning talks by postdocs affiliated with both UBC campuses (Vancouver and Okanagan) on a wide array of topics. Highlights include a keynote presentation by **Dr. Connie Eaves** and **Dr. Allen Eaves** about their experience both in academia and industry career paths.

#### **20-Jan-21 @ 7pm**

[UBC Palliative Care Interest Group Interactive Workshop](#)

Join us for the first inaugural event of the newly formed UBC Palliative Care Interest Group on January 20th. We will be hosting an interactive workshop led by Dr. Pippa Hawley where you can learn and practice your skills on advanced care planning.

We will be joined by her colleagues, Dr. Fowler, Dr. Courteau & Dr. Rubensohn who will help to facilitate small group sessions. who will help to facilitate small group sessions. Space is limited. So please reserve your spot by signing up:

[https://docs.google.com/forms/d/e/1FAIpQLSen8K5SY72oi\\_kLXc39nwsMD09IsCML2Ju37EH\\_3md9e4vjnw/viewform](https://docs.google.com/forms/d/e/1FAIpQLSen8K5SY72oi_kLXc39nwsMD09IsCML2Ju37EH_3md9e4vjnw/viewform)

#### **21-Jan-21 12:00pm-1:00pm (Virtual)**

[How to get away with inequities in outbreaks & epidemics: a SARS-CoV-2 transmission modeling story](#)

Some communities are disproportionately affected by epidemics – and the resulting inequities can sometimes be amplified depending on type of and access to interventions meant to halt epidemics. Dr. Sharmistha Mishra will talk about how to tailor public health interventions through data-drive transmission modeling studies centered around heterogeneity in risks, based on her collaborative work on the COVID-19 pandemic. She will discuss what the data and modeling studies suggest about heterogeneity in the conditions that lead to disproportionate risks of transmission and prevention gaps in Ontario, and the potential impact of tailored strategies. Dr. Sharmistha Mishra is an infectious disease epidemiologist and infectious disease physician, and a Tier 2 Canada Research Chair in Mathematical Modeling and Program Science based out of University of Toronto.

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## **22-Jan-21 8:45am-12:45pm (Virtual)**

### [BCCHR 5th Annual Brain, Behaviour & Development Research Day](#)

Presented by the BB&D Advisory Group and Administration, the Brain, Behaviour & Development (BB&D) Annual Research Day is held annually in the Fall. The annual event highlights accomplishments and advances from BB&D researchers and provides a forum to learn about various ongoing or developing projects and collaborations. The event also includes a keynote presentation given by an internationally renowned guest speaker. <https://www.bcchr.ca/BBD-research-day>

## **22-Jan-21 9:00am-10:00am (Virtual)**

### [Hot Topics in Research: Advancing Psychiatric Care through Clinical Neuroscience: Lessons from Research on Anxiety](#)

Dr. Daniel Pine is Chief, Emotion and Development Branch in the National Institute of Mental Health Intramural Research Program. Dr. Pine moved to this position in 2000, after 10 years of training, teaching, and research at Columbia University. Since graduating from medical school at the University of Chicago, Dr. Pine has been engaged continuously in research on pediatric mental disorders, as reflected in more than 600 peer-reviewed papers. Currently, his group examines the degree to which pediatric mood and anxiety disorders are associated with perturbed neural circuitry function. Dr. Pine served as the Chair of the Psychopharmacologic Drug Advisory Committee for the Food and Drug Administration, Chair of the Child and Adolescent Disorders Work Group for the DSM-5 Task Force, and President of the Society of Biological Psychiatry. He is a member of the National Academy of Medicine, a Distinguished Investigator indicating stature as among the 1-2% most impactful National Institute of Health intramural scientists, and has received many other awards.

## **22-Jan-21 8:30am-5:00pm (Virtual)**

### [Second Annual LifeSciences BC Career Connect Day](#)

LifeSciences BC is pleased to announce our second annual Career Connect Day presented by Biotalent Canada. This even will help connect life sciences companies and organizations from across the sector with university/college students and job seekers. To maximize the networking opportunities, attendees will be able to connect virtually to arrange meetings through the even platform. Key features include: virtual job fair and exhibitor booths, presentations focusing on career development and achieving success in the remote world, one-one-one networking sessions pairing employers with potential employees.

## **25-Jan-21 9:00am-10:00am (Virtual- \$10 for students)**

### [Workshop: Mind over matter- fact or fiction: Understanding women's brain-mind-body connections for health and wellness](#)

This symposium is part of our Women's Brain Health Virtual Conference Series, which brings attention to the brain health issues women face and encourages the medical, scientific and commercial communities to address them. In this session, we will hear from two incredible speakers who will debunk myths about the mind-body connection and how it relates to women's health.

## **25-Jan-21 12:00pm-1:00pm (Virtual)**

### [Women's Health Seminar Series: Partnering with Policy Makers to Make an Impact in Women's Health Research](#)

The Women's Health Seminar Series will feature multidisciplinary research on women's health. The goal of the series is to provide multidisciplinary training and mentorship for trainees, across a broad range of women's health research topics. Speakers will present their research regarding the biological, psychological, behavioural, economic and social factors in women's health and their effects on women's health outcomes. Each seminar will feature 45 minutes talks followed by an interactive question and answer period.

## **Jan 26, 2021 - Jan 28, 2021 8:30am-4:00pm daily (Virtual)**

### [The Modernization of Clinical Trials 2021 Conference](#)

The Modernization of Clinical Trials 2021 Conference, hosted by Clinical Trials BC, will showcase regulatory renewal, new innovations in trial approaches and design, diversity of populations and teams, current topics, and leadership. This three-day event offers keynote lectures, exhibition hall and forums designed to stimulate engagement and planning through moderated panel discussions.

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## 30-Jan-21 9:30am-12:30pm (Virtual)

### Health in harmony: The therapeutic benefits of music in aging and dementia

Zoom conference. Register at [card.clinic@ubc.ca](mailto:card.clinic@ubc.ca). Presentations include: Using music therapy to support those with moderate Alzheimer disease: Outcomes of a clinical trial of group/caregiver and individual sessions in an outpatient setting (Dr. Kevin Kirkland, Dr. Susan Summers, Alex Hauka), Music therapy in Alzheimer disease: A randomized controlled trial (Dr. Robin Hsuing), Comparing the effectiveness in reducing agitated behaviours of persons with dementia using passive music listening versus music therapy interventions (Camilla Schroeder), Singing for change: The impact of dementia choir on inclusion, well-being, and quality of life (Dr. Debra Sheets), and Investing the effects of music, music therapy, and literature on mood and mental health in older adults experiencing mild cognitive decline: A summary of our research methodology (Dr. Theresa Comazzi).

### Ongoing Events:

Date	Time	Where	Affiliation
<b>Mondays</b>	12:00pm-1:00pm	Virtual	Comparative Physiology Invited Speaker Seminar Department of Zoology
<b>Wednesdays</b>	4:00pm-5:00pm	Virtual	Evening Comparative Physiology Seminar Department of Zoology
<b>Wednesdays</b>	12:00pm-1:00pm	Virtual	Biodiversity Research Seminar Series Department of Zoology
<b>Wednesdays</b>	11:00am-12:00pm	Virtual	Centre for Blood Research Virtual Seminar Series Centre for Blood Research
<b>Wednesdays</b>	8:00am-10:00am	Virtual	Neuroscience Grand Rounds Schedule Department of Neurology
<b>Thursdays</b>	12:45pm-1:45pm	Virtual	Cellular & Physiological Sciences Departmental Seminars Cellular & Physiological Sciences Departmental Seminars
<b>Fridays</b>	3:30pm-5:00pm	Virtual	Research Seminars and Colloquia Department of Language Sciences
<b>Fridays</b>	11:00am-12:00pm	Virtual	Neuroscience Research Colloquium Djavad Mowafaghian Centre for Brain Health
<b>Fridays</b>	4:00pm-5:00pm	Virtual	BLISS: Biodiversity Legendary Internal Seminar Series Department of Zoology

## Other Research Opportunities

### UBC Medical Journal Fall 2021 issue call for submissions

**Submission deadline: March 1, 2021**

The UBC Medical Journal is excited to announce that our Fall 2021 issue will be themed Medicine of the Future. Our call for submissions is now open!

While our “Medicine in Times of Crises” issue featured many “calls-to-action”, this issue will look ahead at solution-oriented strategies that address existing gaps in medicine. We invite authors to explore cutting edge developments in science and medicine that may revolutionize the field and even help side-step future health crises.

To submit a manuscript, visit <https://ubcmj.med.ubc.ca/>

### UBC Medical Journal Blog call for submissions

The UBCMJ blog is a space for students to share their research interests, travel experiences, and opinions on medicine and medical education. Interested in writing a post? Email [external.editor@ubcmj.com](mailto:external.editor@ubcmj.com) with submissions or questions!

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## UBC's Multidisciplinary Undergraduate 3-minute thesis competition deadline to register: Jan 15, 2021

This event challenges you to do something you may do already – explain your thesis to people who have no background in what you do. But now, you can get feedback from professors and the chance to compete in the **live competition** on **February 27, 2021**. If you make it there, you get the chance to win **cash prizes!**