



THIS WEEK:

Last week, we moved into learning about movement! Dr. Soma introduced us to a variety of circuits, experiments, and 30 pages of reading for the world of movement. Below, I've recapped the topics we covered and also provided links to labs at UBC that are exploring these research methods. Some of these labs are even looking to hire undergraduate students, so take some time to review the labs I've listed.

NEWS LETTER TOPICS



WEEKLY RECAP

movement, basal ganglia/Parkinson's disease



UNDERGRADUATE LAB HIRING

We have provided links to UBC labs exploring the research methods we discussed in class. Some of these labs are even looking to **hire undergraduate students**.

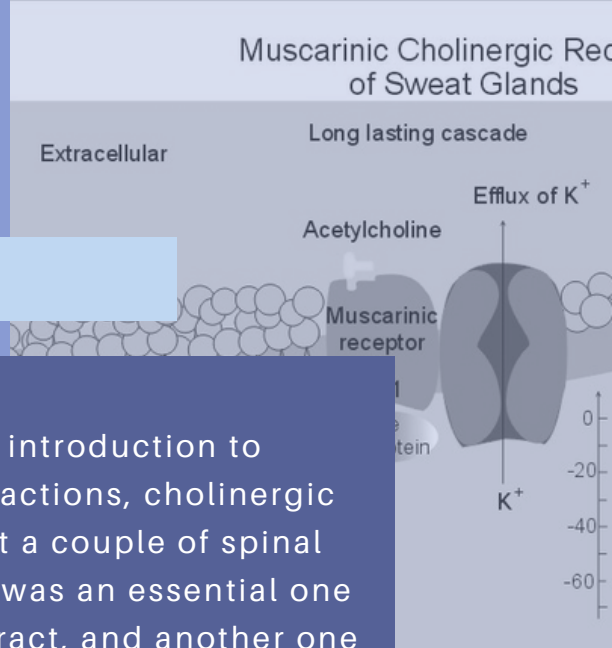


UPCOMING EVENTS

There are a lot of events coming up soon, so stay tuned!

MOVEMENT

Last Tuesday, Dr. Soma gave us a basic introduction to movement. We covered muscle fibers, contractions, cholinergic receptors, and more. We also learned about a couple of spinal cord circuits. The circuit that we focused on was an essential one that causes the muscles in your body to contract, and another one that prevents excessive contraction. If you found this experiment interesting, then you might find the work of Dr. Tania Lam interesting. She is a UBC professor and director of the Human Locomotion Research Lab, which looks at mechanisms and therapies of spinal cord injury. She has indicated that he is interested in hiring undergraduate students for her lab.



HUMAN LOCOMOTION RESEARCH LAB, PI: Dr. Tania Lam

(INTERESTED IN HIRING UNDERGRADUATES)

Sensorimotor physiology; Kinesiology; Physical therapy; Neurological disorders (except neuromuscular diseases); gait rehabilitation; exercise; neurorecovery; urogenital function; urologic rehabilitation

<https://blogs.ubc.ca/lamlab/people/>

BASAL GANGLIA/PARKINSONS' DISEASE

Dr. Cresswell then spent the second half of the lecture going over her work with PD. She gave a wonderful talk where she went over her clinical trials and experience with patients who had PD, and she was even nice enough to show us videos from her trials! If you're interested in getting more involved with PD research, the movement disorders clinic at UBC takes undergraduate volunteers for research projects! I've linked them below.



MOVEMENT DISORDER LAB

(INTERESTED IN HIRING UNDERGRADUATES FOR VOLUNTEER ROLES)

Neurology; novel treatments for Parkinson's; Video Monitoring Parkinson's; Brain Stimulation; Biomedical Engineering; Machine Learning; fMRI; EEG

<https://www.parkinsons.ubc.ca/join-our-team>

Upcoming Events



Jan 29 - NURC Abstract Submissions

Description: If you would like to have the amazing opportunity of presenting your research at the UBC Neuroscience Undergraduate Research Conference, then please submit your abstract to the link below by January 29! More info can be found through the link.

TIME: END OF DAY

SUBMISSION FORM:

[HTTPS://DOCS.GOOGLE.COM/FORMS/D/E/1FAIPQLSEFRS3LTxK6XKE6607Q-9WHBOYYFSOMOLUQ-V95T1BPWR5ICG/VIEWFORM](https://docs.google.com/forms/d/e/1FAIpQLSEFRS3LTxK6XKE6607Q-9WHBOYYFSOMOLUQ-V95T1BPWR5ICG/viewform)

Jan 31: Psychostimulants with the Director

Time: 2:30-3:30

Sign up on Canvas:

https://canvas.ubc.ca/appointment_groups/14499



Upcoming Events

Jan 31 - CV Workshop

Description: Are you polishing your CV in anticipation for applications for this summer? On Tuesday, January 31st, Steven Barnes will be holding a workshop with advice and strategies for an effective CV. The session will be at 3:30 pm in the DMCBH Rudy North Lecture Hall (LL 101). Bring your CV!

TIME: 3:30 PM

Upcoming Events



**FEBRUARY 3 -
colloquium hosted
by Dr. Shernaz
Bamji with
speaker Dr.
Anastassia
Voronova of the
University of
Alberta.**

TITLE:

**(Re)generating
oligodendrocytes in the
developing and
degenerating brain: a
neural stem cell
perspective**

TIME:

11:00 am - 12:00 pm

OBJECTIVE:

**1) Neural stem cells
build and regenerate
the brain in part by
forming
oligodendrocytes, the
myelinating cells of the
central nervous system**

**2) Endogenous neural
stem cells can be
engaged in mouse
models of
neurodegenerative
disorders for brain
remyelination**

**3) Neurodegenerative
disorders may have a
neurodevelopmental
origin, and
neurodevelopmental
disorders may have a
neurodegenerative
component.**

Upcoming Events



**Feb 8 -
Success in
Neuroscience
Online Expo -
Campus Alberta
Neuroscience**

**TIME:
10:00AM - 4:00PM**

**LOCATION:
ONLINE**

Description: Are you interested in attending research conferences but don't know where to start? Campus Alberta Neuroscience is offering our 3 annual Successes in Neuroscience Virtual Expo. This event highlights the top research in various fields of neuroscience but vows to make it accessible to all audiences. This is a great opportunity to get a feel for research conferences, build your network, and find areas that may be of interest for a thesis or graduate work. You can find out more information and register at:

[HTTPS://WWW.ALBERTANEURO.CA/2023-SUCCESSES-IN-NEUROSCIENCE-SYMPOSIUM/](https://www.albertaneuro.ca/2023-successes-in-neuroscience-symposium/)

NEUROSCIENCE PROGRAM RESOURCES

OFFICE HOURS: STEVEN AND RYAN

You can sign up for appointment times with either Steven or Ryan via the Neuroscience Student Guide canvas calendar. Email them if you'd rather meet in-person. You can sign up for appointment times with either Steven or Ryan via the Neuroscience Student Guide canvas calendar. Additional appointment times are always being added, so if you don't see any open slots, check back again later and more will be available. If you've enabled notifications for the Neuroscience Student Guide, you'll be sent a message when additional Office Hours have been added.

WELLNESS RESOURCES:

UBC Psychology has an excellent list of diverse wellness resources. We've linked them below.

[WELLNESS
RESOURCES](#)

WRITTEN AND DESIGNED BY ADI SWARO AND SHARON SHRESTHA

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QUESTIONS/CONCERNS/INQUIRIES:

ADISWARO@GMAIL.COM