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!
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/](https://blogs.ubc.ca/lamlab/people/)
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/1FAIPQL5EFS3LTXK6XE6607Q-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
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

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.albertaneurom.ca/2023-successes-in-neuroscience-symposium/
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.

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01/09/2023

QUESTIONS/CONCERNS/INQUIRIES:
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