Vu Son Luong

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Experience

Research Assistant, *Martin Lab, uWaterloo* Jan 2020 - Current
- Producing, improving, visualizing nano-particles in cell culture and mice.
- Delivering antisense oligonucleotide through mice blood-brain barrier using produced nano-particles.
- Analyzing primary, secondary and tertiary structures of palmitoylated proteins using Python
- Performing a high-throughput drug screening for Huntington's disease using 1200 autophagy-related drugs.

R&D Assistant, *Labstat International Inc.* Sep 2019 - Dec 2019
- Prepared and generated samples for analysis of tobacco, e-liquid, and marijuana.
- Helped to design and examine the marijuana testing pipelines.

Research Assistance, *Hong Kong Polytechnic University* Jun 2019 - Aug 2019
- Induced autophagy by targetting CC domain of Beclin 1 as potential novel strategy for cancer therapy.
- Cultured HEK293t and used western blotting to examine the changeof LC3 I/II and p62 protein.

Research Assistant, *Spafford Lab, uWaterloo* Jan 2018 - Apr 2019
- Cloned C-terminus of human Cav 1.2 to Cav1 calcium channel of *Salpingoeca rosetta*.
- Used Co-IP and Western Blot, proved interactions of two associated proteins of *Lymnaea stagnalis*.
- Created antibodies of Nav2 sodium channel of *Salpingoeca rosetta*.
- Trained new volunteers in laboratory, oriented and demonstrated pertinent laboratory skills.

Research/Presentation

Single cell eukaryote *Salpingoeca rosetta* communicate using neuron-like action potential spikes within rosette colonies involving Nav2 sodium and Cav1 calcium channers
- Authors: Jack Moffat, Prashanth Velayudhan, Amrit Mehta, **Vu Son Luong**, Noor Helwa, Reza Ramezan, Paul Marriott, J. David Spafford
- Conference: 13th Annual Canadian Neuroscience Meeting, Toronto, Canada
- Date: May 24, 2019.

Action of Cannabidiol (CBD) and Tetrahydrocannabinol(THC) on Coloretal Cancer Cells via TRPV2 Channels
- Authors: Jeremy Wang, **Vu Son Luong**, Alyssa Huang
- Conference: Undergraduate Science Case Competition, University of Ottawa, ON, Canada.
- Date: Mar 23, 2019

Education

Bachelor of Science *University of Waterloo* 2022
- Structural Bioinfomatics
- Computational Modelling of Cellular System
- Genomic Bioinfomatics

Skills

Bioinformatics: Linux Command-Line, Genomic Annotation Pipeline, Python, Image Deconvolutions.
Animal experiments: Mouse handling, mating and dissecting.
Microscopy: Immunofluorescence Stainning, Confocal Microscopy, Negative Staining Electron Microscopy.
Cell Biology: Mammalian Cell Culturing, Mammalian Cell Transfection .
Molecular Biology: DNA Cloning, SDS-PAGE, Western Blotting, Native PAGE, DC Assay, Recombinant Protein Productions and Purifications.
Analytical Chemistry: HPLC-MS, GC-MS.