



THE UNIVERSITY  
OF BRITISH COLUMBIA



# 2020 UBC Chemistry Graduate

## Research Symposium

Thursday October 1st

10:00 AM – 4:30 PM



CHEMISTRY  
GRADUATE  
STUDENT  
SOCIETY



### PLENARY LECTURE

### Addressing Big Data Challenges in Mass Spectrometry-Based Global Metabolomics

Global metabolomics is an emerging field in postgenomic biology that correlates the comprehensive analysis of small molecules in biological systems with phenotypes and biological processes. Over the past decades, there have been many innovative developments in analytical strategies and informatics, making it possible to integrate metabolomic analysis with orthogonal omics (i.e. genomics, transcriptomics, proteomics) to garner systems-level information on the biological function of metabolites. This seminar will focus on Huan lab's current progresses in analytical technologies and bioinformatics that address the big data challenges in global metabolomics, including metabolomic data processing, statistical analysis and metabolite identification. To illustrate the importance of method developments, specific case studies in child leukemia and cirrhosis will be discussed.

DR. TAO HUAN, UBC DEPARTMENT OF CHEMISTRY

### Virtual Symposium Info and Links

- This year, the UBC Chemistry Graduate Research Symposium will be conducted entirely online, as COVID-19 restrictions preclude the possibility of large in-person gatherings.
- Instead, posters sessions will be conducted through Collaborate Ultra and an external website: [VirtualPosterSession.org](http://VirtualPosterSession.org). The plenary lecture, CGSS General meeting, and Closing Remarks will all be held virtually via Zoom.

[Link to the virtual poster sessions](#)

[Zoom link for all other events](#)

### Schedule of Events

10:00 - 11:00	Plenary Lecture by Dr. Tao Huan
11:00 - 11:30	CGSS General Meeting
11:30 - 1:00	Poster Session #1
1:00 - 2:30	Break
2:30 - 4:00	Poster Session #2
4:00 - 4:30	Closing Remarks & Prizes