

The McGill *Centre de Recherche en Biologie Structurale* (CRBS) is pleased to announce another round of Structural Biology Boot Camps for the Summer of 2023.

These short, intensive courses are free of charge, and will familiarize attendees with the cutting-edge biophysical tools and computational approaches being conducted by researchers at the CRBS to investigate the frontiers of structural biology. Courses will be led by CRBS researchers and members, who will cover both theoretical and practical aspects of biophysical and computational approaches to problems in structural biology. The 2023 courses will be in-person events, but recordings of some modules will also be made available.

Registration for the Boot Camps is **free** at the following link: <https://forms.gle/ZcVGgWxyyKZx6aT39>

Prior to your course, you will be e-mailed a Zoom invitation to the course, as well as access to any materials you may need to get the most out of your Boot Camp.

We look forward to seeing you at the Boot Camps and please don't hesitate to contact us at csb.med@mcgill.ca if you have any questions.

The 2023 Boot Camps are:

Fundamentals of Isothermal Titration Calorimetry

Instructor: Kim Munro

Date: Thursdays in July 2023 (July 13, 20, 27)

Time: 10:30 AM – 2:00 PM

Bellini room 441

Registration for the ITC boot camp is on a **first-come, first-serve basis**. Only three CRBS trainees can be accommodated per session (a total of 9 spots available). We will do our best to schedule you in your preferred time slot.

Mass Spectrometry for Structural Analysis of Proteins and Protein Post-Translational Modifications

Instructors: Chris Thibodeaux, Jean-François Trempe, Mark Hancock, Kim Munro

Dates and Times:

Introductory Lecture. (Thibodeaux & Trempe).

- Tuesday, Aug. 8, 10:00 AM – 12:00 PM ; room OM10 (Otto Maass building)

There will be 3 different demos, each of which will be provided in three separate time slots.

- Tuesday, Aug. 8, 2:00 PM – 4:00 PM
- Wednesday, Aug. 9, 10:00 AM – 12:00 PM
- Wednesday, Aug. 9, 2:00 PM – 4:00 PM

Demo 1 (Bellini Building, Room 448):

Fast and flexible LC-MS analyses with benchtop Bruker AmaZon (Ion Trap) and high-resolution intact protein mass determinations with Bruker Impact II (ESI-qTOF).

Demo 2 (Bellini Building, Room 447):

Fast and flexible MALDI analyses with benchtop Bruker microflex (MALDI-TOF) and rapid top-down sequencing with Bruker UltrafleXtreme (MALDI-TOF/TOF).

Demo 3 (Pulp & Paper Building, Room 314):

Hydrogen-Deuterium Exchange Mass Spectrometry: Sample Prep, Data Acquisition, and Data Analysis

The introductory lecture is open to all who care to attend, but the live MS demos have limited capacity and are on a **first-come, first-serve basis**. There are 15 total slots available for the live demos (three rotating groups, with 5 students per group). When registering, please indicate whether you would like to attend the demos. Portions of each demo may be recorded for those who are unable to attend. If you cannot attend all three demos in your cohort, please notify us so that we can accommodate other interested students.

Exploring Structural Biology with Molecular Forecaster

Instructor: Dr. Joshua Pottel, Molecular Forecaster, Inc.

Date and location: TBA (late August, early September). This will be an in person event.

Best Wishes,

Christopher Thibodeaux & Natalie Zeytuni
Co-chairs, CRBS Training and Awards Committee