

Instruct-ERIC Course on Calorimetric and Spectroscopic Characterization of Biomolecules

PRELIMINARY PROGRAMME:

DAY 1:

12:30 – 13:00	<i>Registration</i>
13:00 – 13:10	Welcome
13:10 – 14:40	Lecture: Biomolecules and their interactions (Josef Houser)
14:40 – 15:00	<i>Coffee break</i>
15:00 – 16:00	Lecture: Sample quality assessment (Josef Houser)
16:00 – 17:00	Initial discussion of participants' scientific background and projects

DAY 2:

09:00 – 10:30	Lecture: Biomolecular calorimetry – Introduction ITC (Raul Pacheco Gomez)
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	Lecture: Biomolecular calorimetry – Introduction DSC (Raul Pacheco Gomez)
12:30 – 12:35	Group photo
12:35 – 13:30	<i>Lunch break</i>
13:30 – 15:00	Hands-on: Isothermal titration calorimetry/Differential scanning calorimetry (Raul Pacheco Gomez/Jitka Holková)
15:00 – 15:30	<i>Coffee break</i>
15:30 – 17:00	Hands-on: Isothermal titration calorimetry/Differential scanning calorimetry (Raul Pacheco Gomez/Jitka Holková)
17:00 – 18:00	Hands-on: Calorimetrical measurement of attendees' samples (optional)

DAY 3:

09:00 – 10:30	Lecture: Biomolecular calorimetry – Applications ITC (Raul Pacheco Gomez)
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	Lecture: Biomolecular calorimetry – Applications DSC (Raul Pacheco Gomez)
12:30 – 13:30	<i>Lunch break</i>
13:30 – 15:30	Hands-on: Calorimetry data evaluation (Raul Pacheco Gomez)
15:30 – 16:00	<i>Coffee break</i>
16:00 – 17:30	Hands-on: Complex data analysis using SEDPHAT (Peter Schuck, Grzegorz Piszczek, Huaying Zhao)
17:30 – 18:30	Tour of CEITEC MU Core Facilities (optional)
18:30 – 21:00	Social event (optional)

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DAY 4:

09:00 – 10:30	Lecture: Biomolecular fluorescence spectroscopy (Hssan Torres)
10:30 – 11:00	Case study: Novel approach to FRET measurement set-up and analysis (Tomáš Brom)
11:00 – 11:15	<i>Coffee break</i>
11:15 – 12:45	Lecture: Circular dichroism spectroscopy (Martin Textor)
12:45 – 13:45	Lunch break
13:45 – 14:45	Lecture: Circular dichroism spectroscopy – applications (Martin Textor)
14:45 – 15:00	<i>Coffee break + move to C04</i>
15:00 – 16:30	Hands-on: Circular dichroism (Martin Textor)/ Fluorescence spectroscopy Duetta (Hssan Torres)
16:30 – 18:00	Fluorescence spectroscopy Duetta (Hssan Torres)/ Fluorolog QM ((Jitka Holkova)

DAY 5:

09:00 – 10:30	Hands-on: Circular dichroism (Martin Textor)/ Fluorolog QM ((Jitka Holkova)
10:30 – 10:45	<i>Coffee break</i>
10:45 – 12:00	Hands-on: CD spectroscopy data evaluation (Martin Textor)
12:00 – 12:30	Final discussion and course wrap-up
12:30 – 13:30	<i>Lunch break</i>
13:30 – 15:30	Hands-on: Spectroscopic measurement of attendees' samples (optional)