

Programme of the course

Monday, October 12 (day 1)

- 08:45 - 09:00 Registration [U1.032]
09:00 - 09:15 Welcome address & Introduction
09:15 - 10:00 **Lecture 1:** Overview of sample preparation workflows for ultrastructural analysis (David Liebl) [U1.032]
10:00 - 10:45 **Lecture 2:** Conventional sample preparation of biological and bio-composite samples for TEM & SEM (Daniela Popelková)
10:45 - 11:00 Coffee break
11:00 - 11:45 **Lecture 3:** Ultramicrotomy (Eva Ďurinová) [U1.032]

12:00 - 13:00 Lunch break [BIOCEV canteen]

13:00-13:45 Participants introduction (flash talks) [U1.032]
13:45 - 14:30 **Lecture 4:** Sample preparation of particulate material (Jiří Mikšátko) [U1.032]
14:30 - 14:45 Coffee break
14:45 - 15:30 **Lecture 5:** Fine structure Immuno-gold labelling (David Liebl) [U1.032]
15:30 -16:00 EM lab safety briefing and lab tour [U1.032]
16:00 Welcome Pizza [M1.004]

Tuesday, October 13 (day 2)

- 09:00-12:00 **GR1:** Sample processing for TEM (Eva Ďurinová; Vera Zakamennaia) [M 1.024]
GR2: Sample processing for SEM (Daniela Popelková; David Liebl) [M 1.011]

12:00- 13:00 Lunch break [BIOCEV canteen]

13:00-16:00 **GR1:** Chem processing for SEM (Daniela Popelková; David Liebl) [M 1.011]
GR2: Chem processing for TEM (Eva Ďurinová; Vera Zakamennaia) [M 1.024]
16:15-17:00 Optional: Tools & preparation for TEM

Wednesday, October 14 (day 3)

- 09:00-12:00 **GR1:** Negative staining, DIEM and Plunge freezing (Jiří Mikšátko; David Liebl) [M 1.024]
GR2: Ultramicrotomy (Eva Ďurinová; Daniela Popelková; Vera Zakamennaia) [M1.015]

12:00- 13:00 Lunch break [BIOCEV canteen]

13:00-16:00 **GR1:** Ultramicrotomy (Eva Ďurinová; Daniela Popelková; Vera Zakamennaia) [M1.015]
GR2: Negative staining, Plunge freezing and DIEM (Jiří Mikšátko; David Liebl) [M 1.024]
16:15-17:00 Optional: Tools and preparation for SEM

Thursday, October 15 (day 4)

- 09:00-12:00 **GR1:** TEM (Jiří Mikšátko, David Liebl) [M1.019]
GR2: SEM (Daniela Popelková, Eva Ďurinová) [M1.013]

12:00- 13:00 Lunch break [BIOCEV canteen]

13:00-16:00 **GR1:** SEM (Daniela Popelková, Eva Ďurinová) [M1.013]
GR2: TEM (Jiří Mikšátko, David Liebl) [M1.019]
16:00 Summary discussion, troubleshooting and the END [M1.004]