



## EM - Sample Preparation Series IMCF – BIOCEV

21. Nov 2022 (day 1)

- 09:00 - 09:15 **Get together at IMCF daily room**
- 09:15 - 09:30 **Opening of the course** (David Liebl)
- 09:30 – 10:30 **Introduction to sample preparation for TEM** (Lenka Koptasikova)
- 10:30 - 10:45 **Introduction to sample preparation for SEM** (Marketa Dalecka)
- 10:45 - 11:00 Break
- 11:00 - 12:30 **Practical demonstration** (harvesting, fixation, contrasting, dehydration)
- 12:30 – 13:30 Lunch
- 13:30 – 15:00 **Practical demonstration** (resin embedding, block processing)
- 15:00 - 15:15 Break
- 15:15 – 16:45 **Practical demonstration** (drying, mounting and coating for SEM)
- 16:45 – 17:00 Debriefing

22. Nov 2022 (day 2)

- 09:00 - 09:15 **Get together at IMCF daily room**
- 09:15 - 10:00 **Introduction to ultramicrotomy** (Lenka Koptasikova)
- 10:00 - 11:00 **Practical demonstration** (grids preparation and coating, glass knives making)
- 11:00 - 11:15 Break
- 11:15 - 12:30 **Practical demonstration** (ultramicrotome – functions and operation)
- 12:30 – 13:30 Lunch
- 13:30 - 15:00 **Practical demonstration** (block-trimming and semi-thin section staining)
- 15:00 - 15:15 Break
- 15:15 – 16:45 **Practical demonstration** (ultra-thin sectioning and section contrasting)
- 16:45 – 17:00 Debriefing



23. Nov 2022 (day 3)

- 09:00 - 09:15 **Get together at IMCF daily room**
- 9:15 - 10:45 **Practical hands-on training** (Chemical processing and ultramicrotomy) session 1
- 10:45 - 11:00 Break
- 11:00 - 12:30 **Practical hands-on training** (Chemical processing and ultramicrotomy) session 2
- 12:30 – 13:30 Lunch
- 13:30 - 15:00 **Practical hands-on training** (Chemical processing and ultramicrotomy) session 3
- 15:00 - 15:15 Break
- 15:15 – 16:45 **Sample screening by TEM/SEM**
- 16:45 – 17:00 Debriefing

24. Nov 2022 (day 4)

- 09:00 - 09:15 **Get together at IMCF daily room**
- 9:15 - 10:45 **Practical hands-on training** (Chemical processing and ultramicrotomy) session 4
- 10:45 - 11:00 Break
- 11:00 - 12:30 **Practical hands-on training** (Chemical processing and ultramicrotomy) session 5
- 12:30 – 13:30 Lunch
- 13:30 - 15:00 **Practical hands-on training** (Chemical processing and ultramicrotomy) session 6
- 15:00 - 15:15 Break
- 15:15 – 16:45 **Sample screening by TEM/SEM**
- 16:45 – 17:00 Debriefing and end

LOCATIONS (all at BIOCEV building)

Lectures: U1.032

Sample processing: M 1.011

Ultramicrotomy: M1.020 and M1.015

TEM screening: M1.019

SEM screening: M1.013

Lunch: BIOCEV canteen

Breaks: M1.004