

UD Electron Microscopy Sample Preparation BIP

The BIP will aim to give an insight and „hands-on“ training in nervous tissue sample handling, and preparation for Transmission Electron Microscopy.

The first part of the course will be online when the theoretical background will be discussed by tutors from UD and other partners from the NeurotechEU.

The second part of the course will be a 5 day long practical course, held in the Electron Microscopy Laboratory of the Department of Anatomy, Histology and Embryology (UD) during the second half of July, 2022 (exact dates to be announced later). During the hands-on training participants will have the chance to learn about chemicals, instruments and techniques used in sample preparation. They will also be able to perform sample embedding, trimming, fabricating glass knives, cutting semithin sections, counterstaining, handling ultrathin sections and mounting them on grids. They will also get an introduction to recognizing basic neuronal and glial structures on EM images.

The „hands-on“ practice will take place in a group rotation basis. All steps will be demonstrated and supervised by expert technicians and researchers.

The „hands-on“ period will also include social activities.

The course is accepting PhD students and technicians. The maximum number of students is 15 due to space limitations of the laboratory.