



Western Blot Workshop

This workshop contains theoretical and practical parts. The principles and basics of protein extraction, methods for assessing protein quantity and quality, principles and basics of PAGE-SDS, applications in protein measurement, transfer methods, imaging, basic of quantification, normalization, and troubleshooting will be thought theoretically.

The practical part will include:

- Protein extraction by rapid lysis method
- Protein concentration determination by two methods (bradford and BCA-assay)
- SDS-PAGE and gel staining
- Scanning of stained gel and analysis
- Western blot with two transfer methods (dry semi and wet)
- Blot staining, blocking, and antibody incubation
- Blot development and imaging by gel documentation system
- Quantification using ImageJ software

This workshop is suitable for graduates and students of all academic levels in biology, paramedical, and medical fields. It is necessary for the participants to have previous knowledge about DNA, RNA, and protein structure.