

Biochemical Techniques

Lecture-Nr.: 53813

Type: lecture

Duration: 2 hours per week (winter)

Method of Assessment: written examination (in combination with lab course "Biochemical Methods including Clinical Chemistry" and lectures "Selected Topics in Biochemistry / Introduction to Clinical Chemistry" and "Introduction to Biotechnology")

ECTS Credit Points: 2

Topics:

"Biochemical" buffers, buffer additives, sample preparation, folding, solubility, stability of proteins, isolation and characterization of proteins and nucleic acids, bio-chromatography, absorption spectroscopy (biochemical applications), analysis of amino acids, peptides and proteins, electrophoretic techniques, radiochemistry, ligand binding, immunochemistry

Literature:

1. Pingoud; Urbanke; Hoggett; Jeltsch: Biochemical methods: a concise guide for students and researchers. Wiley-VCH, Weinheim.
2. Lottspeich; Engels: Bioanalytik, Spektrum Akademischer Verlag, Heidelberg.
3. Wilson; Walker: Principles and Techniques of Biochemistry and Molecular Biology. Cambridge University Press, Cambridge.
4. Richter: Praktische Biochemie: Grundlagen und Techniken. Thieme, Stuttgart.

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