UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Biochemistry

2324-1-H4102D088-H4102D023M

Aims

Students will be able to understand the basic biochemical techniques, to prepare a biochemistry assay of protein, lipid or sugar, under the supervision of qualified laboratory staff and by using an "on-field" approach. A journal club activity on recent scientific literature will be proposed. The last lesson will consist of the discussion of clinical cases based on the biochemical knowledge learned during the course "Biochemistry I".

Contents

The students are introduced to the main biochemical techniques and to the instruments, reagents, and materials needed for biochemistry assays (e.g. protein analysis).

Detailed program

Measurement of glucose serum concentration

Protein assay

Electrophoresis and western blotting

Journal club

Clinical cases

Prerequisites

College-level scientific knowledge

Teaching form

theoretical introduction of the technique's principle by frontal lecture followed by laboratory experience and/or classroom group activities

Textbook and teaching resource

Textbook of biochemistry with clinical correlations, TM Devlin

Semester

1st year, 2nd semester

Assessment method

Assessment of the suitability on the basis of attendance/participation in the laboratory activities. Knowledge and skills will be further assessed during the “Biochemistry I” examination, with the modalities there described.

Office hours

on appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING