UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Biochemistry

2425-1-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 and/or Journal club 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. blood glucose concentration 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

In presence laboratory experience
12 hr (3 practical lab experience of 4 hr). Students will be divided in groups of 7/8 people to optimize learning objectives

Online group activity
3 hr (one class)

Textbook and teaching resource

Slides, laboratory protocols and experimental procedures.
Book:
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 acquired during the Biochemisry Clerkship will be further assessed during the “Biochemistry I” examination, with the modalities there described.

Office hours

on appointment. email: claudia.corbo@unimib.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING