



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 Biochemistry Clerkship will be further assessed during the "Biochemistry I" examination, with the modalities there described.

## **Office hours**

on appointment. email: [claudia.corbo@unimib.it](mailto:claudia.corbo@unimib.it)

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

