



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Neurobiologia

2223-5-H4101D159

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#### Aims

Recent neurogenetic and neurobiological discoveries have widely changed diagnostic approach and therapy for neurological diseases.

The aim of this course is to provide students a wide view of main research lines and direct experience of lab techniques to investigate bases of CNS disorders

#### Contents

Biological mechanisms of neurological disorders

#### Detailed program

Theoretical part will review biological bases of CNS disorders. Main themes will cover excitotoxic mechanisms, neuronal apoptosis, neuroimmunological diseases, epilepsy, brain ischemia, neurodegenerative disorders.

Lab activities will be devoted to learn main neurobiological techniques: neuronal glial and fibroblast cultures, molecular biology techniques (Western blot-Northern blot-PCR) and biochemical techniques (ELISA-RIA-Binding-Uptake).

#### Prerequisites

Medical students at 5th and 6th year

### **Teaching form**

Theoric and practical course, with frontal lectures and experimental activities in the Lab of Neurobiology. Lessons will be provided in presence, subject to any ministerial changes following the COVID pandemic situation

### **Textbook and teaching resource**

Scientific articles

### **Semester**

Second Semester, May

### **Assessment method**

Oral discussion

### **Office hours**

By appointment

### **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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