



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Neurobiology

2021-5-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 year and over and students of the Course in Medical Biotechnologies at 2nd year

**Teaching form**

Theoric and practical course, with frontal lectures and experimental activities in the Lab of Neurobiology

**Textbook and teaching resource**

Scientific articles

**Semester****Assessment method**

Oral discussion

**Office hours**

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