UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Neurobiology

2122-5-H4101D159

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 corse, 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