



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Molecular Pathways, Biomarker Discovery, And Therapeutic Innovation In Acute And Chronic Neurodegeneration

2627-122R-23

Titolo

Mechanisms, biomarkers and new treatments for acute and chronic neurodegeneration

Docente(i)

Simone Beretta
Carlo Ferrarese

Lingua

Inglese

Breve descrizione

The course will focus on the following conditions:

Cerebral ischemia

Hypoxic-ischemic brain injury after cardiac arrest

Repetitive seizures and status epilepticus

Alzheimer's disease

Parkinson's disease
Amyotrophic lateral sclerosis

Topics will include the molecular mechanisms underlying neuronal injury—including protein misfolding, excitotoxicity, oxidative stress, neuroinflammation, and impaired collateral circulation - as well as established and emerging biomarkers based on blood, cerebrospinal fluid (CSF), neurophysiology, and neuroimaging. The course will also critically discuss recent advances in therapeutic development and ongoing clinical trials, highlighting the translation of experimental findings into clinical practice.

CFU / Ore

1/8

Periodo di erogazione

Secondo semestre

Sustainable Development Goals

SALUTE E BENESSERE
