



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Basic Mechanism of Epilepsy

2122-90R-MOD13

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#### Aims

The goal is to equip students with the knowledge they need to understand the fundamental concepts underlying current research in the neurophysiology of central circuits. Lectures will allow students to learn how to identify interesting biological questions and feasible approaches to address the questions.

Suggested for students attending the 1 year of the PhD program

#### Contents

Short description of contents	<ul style="list-style-type: none"><li>• experimental work introduces the student to the main electrophysiological research techniques</li><li>• structure and function of ion channels, generation and propagation of action potential, firing properties and physiology of synaptic transmission</li><li>• the hypersynchronous discharge: persistent neuronal changes and circuitry rearrangement</li></ul>
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#### Detailed program

## **Prerequisites**

## **Teaching form**

Interactive lectures, includes problem sets and reading of original papers

## **Textbook and teaching resource**

Principles of neural science

Edizione Inglese di [Eric R. Kandel](#)

Slides provided by the teacher

## **Semester**

Second semester, to be determined according to the overall teaching plan

## **Assessment method**

Final evaluation by written test (multiple choice)

## **Office hours**

By communication to be sent to [giulio.sancini@unimib.it](mailto:giulio.sancini@unimib.it)

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