

# UE Molecular bases of the normal and pathological memory

 ECTS  
6 credits

 Component  
UFR Chimie-  
Biologie

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** YAMB8U20

## Presentation

### Description

The goal of this course is to apprehend the latest findings about the cellular and molecular mechanisms of synaptic plasticity and the causes of their impairment in neurodegenerative diseases with a special emphasis on Alzheimer's disease.

- What makes the electric signal? The chemical synapse.
- The glutaminergic synaps: plasticity and memory. Regulation of neurotransmitter disease, of post-synaptic currents, modulation of the expression of pre-and post-synaptic receptors.
- Traffic and diffusion of synaptic receptors
- Genetic and molecular causes of Alzheimer's disease: presinilins, APP, ApoE. Fronto-temporal dementia.

### Course parts

UE Molecular bases of the normal and pathological memory - TD	Tutorials (TD)	12h
UE Molecular bases of the normal and pathological memory - CM	Lectures (CM)	36h

**Period :** Semester 8

# Useful info

---

## Contacts

Program director

**Remy Sadoul**

✉ [Remy.sadoul@univ-grenoble-alpes.fr](mailto:Remy.sadoul@univ-grenoble-alpes.fr)

---

## Place

› [Grenoble](#)

---

## Campus

› [Grenoble - University campus](#)