

# Pathophysiology Of Neurological and Psychiatric disorders

## 6 ECTS

### Thomas Michelet



[thomas.michelet@u-bordeaux.fr](mailto:thomas.michelet@u-bordeaux.fr)

## 1. Learning objectives

Obviously acquiring knowledge about brain diseases pathophysiology. But also introducing students to the to-and-fro way of thinking about how the brain works : from physiology to pathology but also, and critically, from pathology to physiology. In other words, teaching students to not only consider pathological condition as a consequence of a deviation from a normal condition, but to also use and consider pathological conditions as a window on normal functions.

## 2. Topics

The course will feature approximately 12 to 14 seminars or lectures, regarding a very wide range of brain diseases. To conclude a critical analysis of the way to delineate mental disorders throughout the neuroscience perspective will be discussed by a philosopher and a psychiatrist.

## 3. Teaching

Teachers are for the most part both clinicians (they have direct contact with patients) and researchers. So they have a wide experience of the bedside part of the disease but also of the biological mechanisms.

## 4. Examination

Final exam 100% : A written examination related to one particular topic (e.g : analysis and description of results of an article ), and a MCQ (multi-choice question) examination that could be related to all topics.

## 5. Speakers/topics

- Attention deficit hyperactivity disorder - multiple sclerosis - Traumatic brain injury - Depression
- Early life stress and vulnerability - Autism. - Parkinson's disease - Post-traumatic stress disorder
- Epileptology - Alzheimer's Disease - Executive functions impairment - Pathophysiology of extracellular vesicles