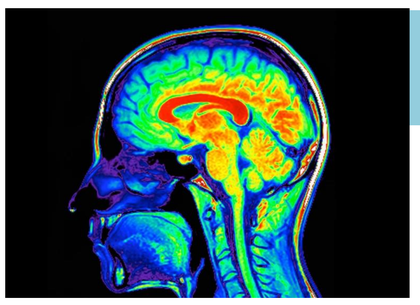
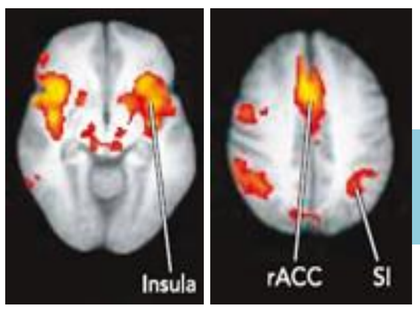
Faculté des **sciences de la vie**
Université de Strasbourg

# Master Sciences du vivant
# **Parcours Interdisciplinary Training in Neuroscience & Pain**

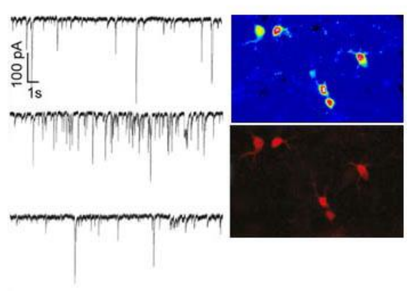


## *Objectives*

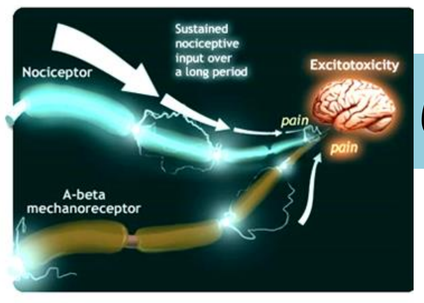
The aim of the **interdisciplinary** Training in NEUROscience & PAIN (IT-NeuroPain) master is to train the future leaders in the field, from the molecular level to the most integrated aspects. This course specifically address study methods and the major current issues relating to mechanisms, therapeutic strategies, societal and ethical issues, etc. Throughout the course, the emphasis is on an interdisciplinary scientific approach.



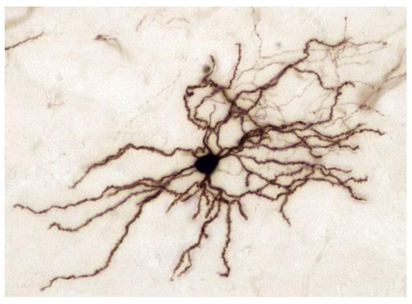

## *Target skills*



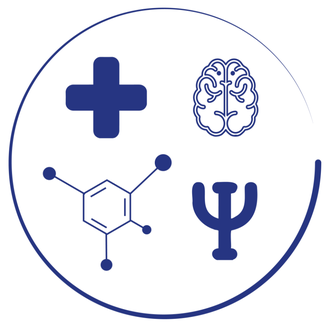

- Use the methods, tools and concepts of the **various scientific disciplines** covered
- Design and draw up experimental protocols in the field of neuroscience and pain covering **different levels of approach** (molecular, cellular, system, organism)
- Analyse and critique experimental results and/or experimental protocols
- Interpret results and place them in a **physiological or pathological context**
- **Communicate scientific data** in a variety of formats to different audiences

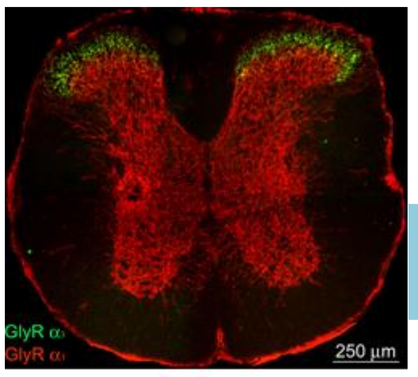



## *Organisation of training*



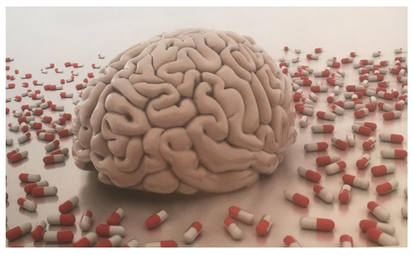
- Training entirely in **English**
- 2 **laboratory internships** (2 months in M1 and 6 months in M2)
- Interdisciplinary theoretical and practical training
  - *Fundamendals, Tutoring and Technical training in neuroscience*
  - *Chemistry of pain; drug discovery and development*
  - *Pain in the arts; Neurosciences and society*
  - *Psychosocial dimension of pain*
  - *Pain at the clinic; Regulation law and bioethic*






- Scientific approach and **tutored projects** in neuroscience and pain (*Designing a research project*)
- Scientific communication
- Training in **pre-clinical and clinical research**

## *Further studies and career opportunities*



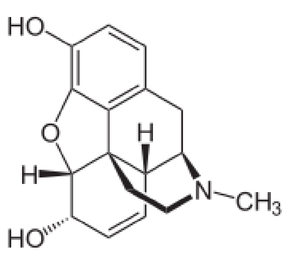
➢ **Further study**: PhD or Master's degree (or M2) with dual skills

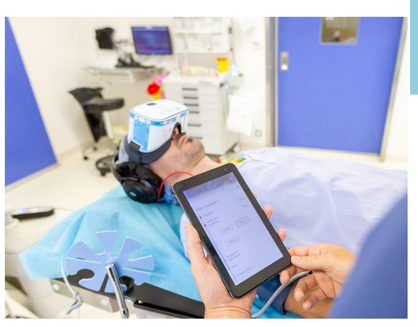
➢ **Target jobs :**

**After a Master's degree** (possibly with additional training) or a doctorate :

- Design or research engineer or research assistant
- Technician/research assistant/associate manager of preclinical or clinical studies,
- Project Manager
- Scientific coordinator, scientific outreach officer
- Account manager, technical sales engineer.

**After a doctorate**: Researcher in academy or private compagny.

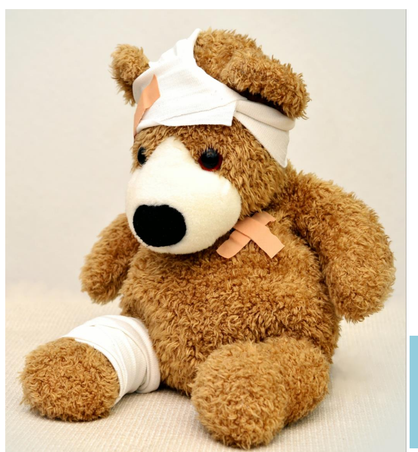


## *Admissions*

➢ **Prerequisites**

- Bachelor's degree or equivalent in Biology, Chemistry, Psychology, Sports Science, Sociology, etc...
- Fluency in both spoken and written English (B2 level)



➢ **Recruitment criteria:**

- The selection and ranking of applications is based on an examination of the student's academic results throughout the bachelor's degree, providing evidence of a sufficient level to pursue a master's degree in the field of neuroscience, personal experience, career plans and motivation for the specific subject of pain.
- 2nd year direct entry possible for students with an M1 in Neuroscience from another university or

*Coordinator:* Perrine Inquimbert, contact: inquimbert@unistra.fr