NeuroStra | The nervous system *from adaptation to pathologies*

The **Interdisciplinary thematic** institutes
of the **University** of Strasbourg & cnrs & Inserm
funded under the **Excellence Initiative** program

An *interdisciplinary thematic institute*
of **neuroscience**
in **Strasbourg**, France

10 Laboratories
of research in neuroscience

Université de Strasbourg | cnrs | Inserm

400 Researchers
Engineers
Technicians
PhD students
Master students

24 teams

10 technical platforms

3 Graduate programs
training in neuroscience
from Master to PhD

NeuroPain
Nociception and Pain

Euridol
Graduate School of Pain

NeuroTime
Time processing in the nervous system

Neuro3P
Physiological, Psychological and Pathological neurosciences

NeuroDegen
Neurodegenerative and neurogenetic diseases

3 Doctoral Schools
Life & Health | Chemistry | Humanities

5 faculties
Life Sciences | Psychology | Medicine
Pharmacy | Economics

Web: neurostra.unistra.fr

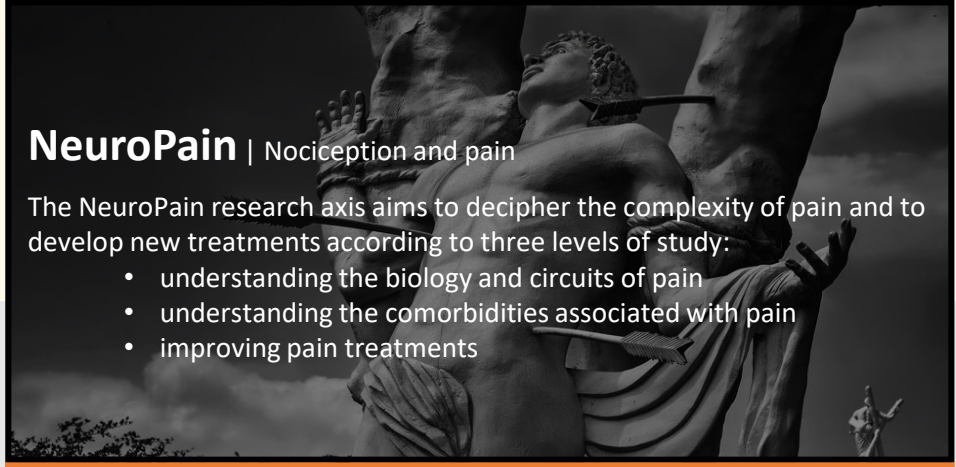
RESEARCH

The neuroscientific research led in NeuroStra focuses on three main areas of expertise:

- **pain and nociception** (NeuroPain)
- **neurodegenerative and neurogenetic diseases** (NeuroDegen)
- **time in perception and action** (NeuroTime)

The three themes are investigated within the 10 laboratories of the institute:

- Institute of Cellular and Integrative Neuroscience (INCI | UPR 3212)
- Laboratory of Cognitive and Adaptive Neuroscience (LNCA | UMR 7364)
- Integrative Multimodal Imaging in Health (IMIS | ICube UMR 7357)
- Myelin biopathology, neuroprotection and therapeutic strategies (U1119 Inserm)
- Central and peripheral mechanisms of neurodegeneration (U1118 Inserm)
- Cognitive neuropsychology and pathophysiology of schizophrenia (U1114 Inserm)
- Laboratory of Medical Genetics (LGM | U1112 Inserm)
- Chemistry and Molecular Neurobiology (CAMB | UMR 7199)
- Laboratory of Neurocardiovascular Pharmacology and Toxicology (LPTNC | UR 7296)
- Bureau for Economic Theory and Applications (BETA | UMR 7522)



NeuroPain | Nociception and pain

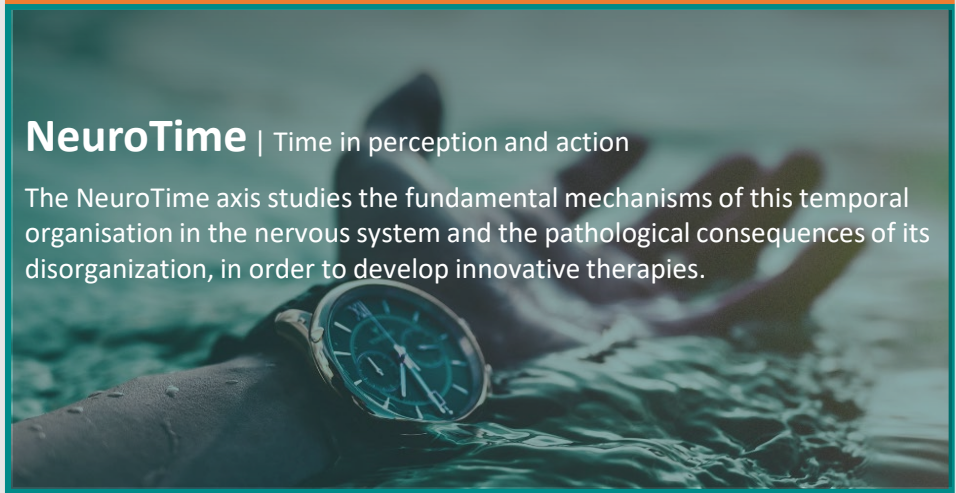
The NeuroPain research axis aims to decipher the complexity of pain and to develop new treatments according to three levels of study:

- understanding the biology and circuits of pain
- understanding the comorbidities associated with pain
- improving pain treatments



NeuroDegen | Neurodegenerative and Neurogenetic Diseases

NeuroDegen laboratories have a long-standing expertise in a number of neurodegenerative diseases, as well as in rare genetic diseases. Understanding the contribution of risk factors such as ageing, genetic variants and environmental conditions is a hallmark of the research made in our laboratories.



NeuroTime | Time in perception and action

The NeuroTime axis studies the fundamental mechanisms of this temporal organisation in the nervous system and the pathological consequences of its disorganization, in order to develop innovative therapies.

T R A I N I N G

Graduate programs NeuroStra

3 Master-PhD programs of specialization in PAIN/DEGEN/TIME

MASTER

In-depth training in 1 of NeuroStra's themes…

NeuroPain: EURIDOL
Decipher the complexity of pain and develop new treatments according to three levels of study: mechanisms, comorbidities, treatment

NeuroTime
Understand and handle the many concepts of time in neuroscience, from physiological rhythms to prediction and memories

NeuroDegen
In-depth study of neurodegenerative and neurogenetic diseases, from neurology to pathophysiology and cellular/molecular aspects

… for students enrolled in 1 of Unistra's following Master tracks of neuroscience

NCI | Neurosciences Cellulaires et Intégrées
Integrated and Cellular Neuroscience

NCO| Neurosciences COgnitives
Cognitive Neuroscience

JMN| Joint Master in Neuroscience

PhD

NeuroStra's network of laboratories and platforms constitute a dedicated environment to specialise early career researchers in fundamental and applied research in PAIN, DEGEN and TIME.



