CBH Graduate School
Université Grenoble Alpes

HEALTH

GRENOBLE INSTITUTE OF NEUROSCIENCE

UMR 1216 UGA Université Grenoble Alpes Inserm

Cytoskeleton *MRI* *Neurodegenerative diseases* *Psychiatric disorders*
Neurotechnologies *Cellular myology* *Neuronal regeneration* *AI*

KEY FIGURES:

79 **permanent researchers and lecturers**

41 **technical and administrative staff**

61 **PhD students and postdoctoral researchers**

200 **publications per year (on average)**

12 **patents over the last 5 years**

OVERVIEW

The *Grenoble Institute of Neuroscience* (GIN) explores both central and peripheral nervous systems to better understand their functioning and to develop innovative therapies for neurological, neuromuscular, and psychiatric diseases. GIN research teams conduct experiments ranging from molecules and cells to humans, combining fundamental and translational research with the development of unique technological and therapeutic innovations.

RESEARCH TOPICS

- **Fundamental neuroscience:** Cytoskeleton, intracellular trafficking, synaptic plasticity, normal and pathological mechanisms, predictive models of brain diseases.
- **Preclinical and clinical research:** Development and validation of new therapies, functional neurosurgery and deep brain stimulation, fMRI and EEG.
- **Innovative technologies and treatments:** Multidisciplinary approaches including MRI imaging, optogenetics, neural network reconstruction, brain-machine interfaces, and AI.

https://neurosciences.univ-grenoble-alpes.fr/fr