

Ph.D course in Neurobiology

Head of the Ph.D course:

Prof. Laura BALLERINI

Web site:

[Neurobiology](#)

Research lines:

- Peripheral Nervous System
- Pain, touch and itch
- Synaptic Neurophysiology and Neuronal Networks
- Optogenetic and electrophysiological approaches to Neuronal Networks
- Neurotoxicity and calcium signalling
- Spatiotemporal dynamics of calcium signalling in neuroglia
- Neurophysiology of Motor control
- Spinal networks patho-physiology and locomotion
- Respiratory physiology
- Neurophysiology and neuropharmacology of spinal motoneurons
- Visual systems and feature detection
- Simultaneous acquisition of neural activity and behavior
- Innate behaviors and their underlying circuits
- Functional imaging approaches to neural circuits
- Neuroecology
- Auditory system and multisensory integration
- Computational neuroscience and modelling
- Brain states and neuromodulation
- Sensory information processing abnormalities in psychiatric disorders

Fellowships available: ~~2 funded by SISSA~~
3 1 funded by FSE +

Admission: Academic and scientific qualifications + oral exam (remotely/presence)

Beginning of the Courses: 4 November, 2026

Evaluation of academic and scientific qualifications: 30 points

Access to interview Exam: minimum mark of 21/30 on academic and scientific qualifications

Evaluation of Oral Exam: 70 points

To be considered eligible, candidates must pass both phases (academic qualifications and interview) with a minimum mark of 7/10 or equivalent

Deadline for online submission of applications: 25th March, 2026

Oral Exam: 22nd – 23rd April, 2026

Second Session

Deadline for online submission of applications: 18th August, 2026

Oral Exam: 17th - 18th September, 2026

Admission to the oral exam and results of all evaluations will be notified by email.