Ph.D course in Neurobiology

Head of the Ph.D course: **Prof. Paul Alexander Heppenstall**

Web site: **Neurobiology**

Research lines:

- Peripheral Nervous System
- Pain, touch and itch
- Olfactory Systems and Ion Channels
- Synaptic Neurophysiology and Neuronal Networks
- Cell excitability and cortical information processing
- Optogenetic and electrophysiological approaches to Neuronal Networks
- Computational Neuroscience and Modelling
- Bionanotechnology
- Neurotoxicity and calcium signaling
- New Materials and Neurons
- Neurophysiology of Motor control
- Spinal networks patho-physiology and locomotion
- Interfaces to simultaneously stimulate and record signals from the spinal cord
- Respiratory physiology
- Neurophysiology and neuropharmacology of spinal motoneurons
- Olfactory and taste dysfunctions in COVID-19
- Visual systems and feature detection
- Simultaneous acquisition of neural activity and behavior
- Innate behaviors and their underlying circuits
- Functional imaging approaches to neural circuits

Fellowships available: ~~5~~ 1 left

Admission: **Academic and scientific qualifications + oral exam**

Beginning of the Courses: 6 November, 2023

Evaluation of academic and scientific qualifications: 30 points
Besides the documents mentioned in the general part of the announcement, all applicants must provide a written essay in English, describing their previous academic background and scientific motivations to pursue a SISSA PhD and including a short list of theses projects among those listed above).
The essay (about 3 pages long – 800 words) will be used for an initial screening of suitable candidates to be invited to the oral exam.

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

~~**First Session**~~

~~**Deadline for online submission of applications: 24 March, 2023**~~

~~**Interviews: 19 – 20 April, 2023**~~

Second Session (only if there should still be places available after the first one)

Deadline for online submission of applications: 22 August, 2023

Interviews: 27 - 28 September, 2023

Results of all evaluations and the final ranking will be notified by email.