

Teaching Activity

Description

The teaching activity adopts a multi-disciplinary approach to offer PhD students the knowledge and competence in the various fields of neuroscience.

The program is composed of Basic courses and Advanced courses.

The Basic courses will be mandatory (minimum: 70% of attendance). The students have to choose among the advanced courses (minimum number of hours for advanced courses: 16).

The teaching program is articulated around different curricula, that emphasize each of the sub-fields in neuroscience.

BASIC COURSES:

- 1) From anatomy and physiology of the nervous system to cognition
- 2) Experimental tools in neuroscience
- 3) Statistical and mathematical Tools
- 4) Soft skills and research training

ADVANCED COURSES

- 1) Programming and Computational Neuroscience
- 2) Cognitive and Behavioral Neuroscience
- 3) Cellular and Molecular Neuroscience
- 4) Translational and Clinical Neuroscience

The Teaching Program is meant to accomplish the following goals:

- Providing the preliminary knowledge and competence required to carry out a research in neuroscience
- Providing advanced skills and knowledge (such as use of an analysis software, a neuroimaging technique etc...)
- Creating a common background and common language
- Stimulating critical thinking
- Offering proper instruments for the research career (e.g., how to write a paper, a project, how to present data).

ADDITIONAL ACTIVITIES

- JOURNAL CLUBS

A journal club for all students and faculties will be organized by students themselves (on a volunteering basis) once/twice per month. Each student will have to present and critically comment at least one study each year.

- PNC SEMINARS

The students are asked to attend the seminars organized in the center. These seminars represent great opportunity to learn from national and international experts in the various fields of neuroscience.

- **INTERIM EVALUATIONS**

In May-June, the journal clubs will be substituted by progress reports in which each student will have to present her/his project to the other PhD students and to the faculty, and will be evaluated by three professors in order to pass to next year or present again her/his work in September-October of the same year (for first year students, the detailed PhD project is expected to be ready and some preliminary data to demonstrate feasibility will be appreciated).

The students will also be required to present their project outcomes to the faculty of the Program before the end of each year.

- **OTHER COROLLARY ACTIVITIES**

The students are highly recommended to attend initiatives organized both within the University of Padua (e.g., PhD Education Week on Transferable Skills) or in other Universities (e.g., Summer/winter schools, Workshops).