



UNIVERSITÀ DEGLI STUDI DI TORINO

ID

TIC42\_DIP\_BIOS

## Visiting Professor Program Academic year 2019/2020

**DEPARTMENT OF LIFE SCIENCES AND SYSTEMS BIOLOGY**

**TEACHING COMMITMENT: 16 hours**

### **COURSE TITLE**

Molecular/cellular mechanisms regulating neural development

### **TEACHING PERIOD**

2nd term

### **SCIENTIFIC AREA**

Anatomy and cytology

### **LANGUAGE USED TO TEACH**

english

The Degree Course is entirely taught in English

### **COURSE SUMMARY**

The teaching will be integrated in the Course “Developmental Neurobiology” and will be focussed on the cellular/molecular mechanisms involved in brain development, in both normal and pathologic conditions.

### **LEARNING OBJECTIVES**

The goal is to teach and train master students in the latest developments in the field of neural circuit development, plasticity and disease through the direct and active interaction with an internationally recognised expert in the field. Through the analysis of the most recent literature and active discussion, the students will develop critical thinking and knowledge on the cellular/molecular mechanisms underlying normal development, function and dysfunction of the nervous system. Students will learn from an experienced researcher how to address problems, formulate research questions and design experiments. They will also acquire in-depth knowledge of the novel, cutting-edge approaches and technologies now available to investigate specific aspects of nervous system development.

### **LAB ACTIVITIES**

Laboratory activities will be focussed on analysis and discussion of scientific papers; writing of small research projects and/or scientific papers. These activities will be designed in order to promote the active participation of each student.

### **OTHER ACTIVITIES BESIDES THE COURSE**

The visiting Professor will be invited to give a Lecture for a wide audience of PhD students and fellows and to meet the PhD students interested in discussing their projects.

### **VISITING PROFESSOR PROFILE**

The Visiting Professor should be an internationally recognized specialist in the field of neural development, with a long lasting and documented track-record in brain development and plasticity and disease. She/he should have experience in teaching, in particular in the relevant area of neural development at the level of advanced master and/or early PhD students. We seek someone with deep experience in the neural development research field and a clear profile in neuroscientific topics relevant for our population of master students.

### **CONTACT PERSON AT THE DEPARTMENT**

Silvia De Marchis  
silvia.demarchis@unito.it