Visiting Professor Program
Academic Year 2023/2024

TEACHING COMMITMENT: 12 hours

COURSE TITLE
Cellular and Molecular Mechanisms in Neurodevelopmental Disorders

TEACHING PERIOD
2nd term

SCIENTIFIC AREA
Comparative Anatomy and Cytology

LANGUAGE USED TO TEACH
English

COURSE SUMMARY
The course focuses on understanding the principles of early brain development in the context of neurodevelopmental disorders. The aim is to enable insight into the neural and molecular mechanisms of specific examples of neurodevelopmental disorders by coupling data from preclinical animal models to the clinical phenotype. A focus will be on methodological approaches currently used in the field. Furthermore, students will learn how to write a small grant proposal and present their ideas to their fellow students.

LEARNING OBJECTIVES
Students will acquire a good level of analysis, criticism and discussion skills on developmental neurobiology issues related to research on neurodevelopmental disorders
**TUTORSHIP ACTIVITIES**
The students will be guided in activities such as:

- Critical reading of research articles that will be presented by students to be discussed with other students and teachers.
- Promote their communication skills to present scientific projects and results.

**LAB ACTIVITIES**
N/A

**OTHER ACTIVITIES BESIDES THE COURSE**
One seminar addressed to PhD students and research fellow

---

**VISITING PROFESSOR PROFILE**
The Visiting Professor must have expertise in the field of neurodevelopmental disorders, with a strong background in cellular and molecular neurobiology and documented experience in conducting research and preclinical studies on in vivo and in vitro models.

---

**CONTACT REFERENT**
Silvia De Marchis
silvia.demarchis@unito.it