



UNIVERSITÀ DEGLI STUDI DI TORINO

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## **Visiting Professor Program Academic year 2020/2021**

**DEPARTMENT OF LIFE SCIENCES AND SYSTEMS BIOLOGY**

**TEACHING COMMITMENT: 12 hours**

**COURSE TITLE**

**Cellular and Molecular Neuroendocrinology**

**TEACHING PERIOD**

1st term

**SCIENTIFIC AREA**

Biological Sciences

**LANGUAGE USED TO TEACH**

English

The Degree Course is entirely taught in English

**COURSE SUMMARY**

The lessons will focus on cellular/molecular approaches applied to neuroendocrinology. First, specific molecular tools and the zebrafish as an animal model in biological research will be presented. Next, selected topics in neuroendocrinology will be covered, starting with general concepts such as the steps involved in the discovery process and pathological aspects, followed by the present state of the art in mammalian research and comparative aspects with special emphasis on experimental results obtained in

zebrafish. Topics should include one or more of the following: 1) The circadian clock system in vertebrates; 2) Neuroendocrine regulation of food consumption; 3) Neuroendocrine regulation of reproduction.

### **LEARNING OBJECTIVES**

To be informed of the state of art in selected fields of neuroendocrinology research and related pathological aspects; to be aware of the methodologies and approaches; to be able to critically read and discuss manuscripts in the field.

### **TUTORSHIP ACTIVITIES (IF APPLICABLE)**

### **LAB ACTIVITIES (IF APPLICABLE)**

2 of the 12 hrs will be dedicated to workgroup activities and discussion with the students.

### **OTHER ACTIVITIES (IF APPLICABLE)**

The Visiting Professor will be invited to give a lecture for the PhD students in Neuroscience and to meet the PhD students interested in discussing their projects.

### **VISITING PROFESSOR PROFILE DESCRIPTION**

The Visiting Professor should be an internationally recognized specialist in the field of neuroendocrinology, preferentially using zebrafish as an animal model. She/he should have a well-documented scientific record in her/his field. She/he should also have a proven experience in teaching at various academic levels, including being a lab and thesis supervisor, and should have been previously involved in the organization of scientific training activities.

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

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