



UNIVERSITÀ DEGLI STUDI DI TORINO

ID

TIC44_DIP_BIOS

Visiting Professor Program Academic year 2019/2020

DEPARTMENT OF LIFE SCIENCES AND SYSTEMS BIOLOGY

TEACHING COMMITMENT: 12 hours

COURSE TITLE

Cellular and molecular neuroendocrinology

TEACHING PERIOD

1st term

SCIENTIFIC AREA

Anatomy and cytology

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.

LAB ACTIVITIES

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

OTHER ACTIVITIES BESIDES THE COURSE

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

The visiting professor should be an internationally recognized specialist in the field of neuroendocrinology, preferentially using zebrafish as an animal model. He/she should have a well-documented scientific record in his field. He/she 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

Patrizia Bovolin
patrizia.bovolin@unito.it