



Visiting Professor Program Academic Year 2024/2025

TEACHING COMMITMENT: 12 hours

COURSE TITLE

Cellular and Molecular Neuroendocrinology

TEACHING PERIOD

1st term

SCIENTIFIC AREA

Biological Sciences

LANGUAGE USED TO TEACH

English

COURSE SUMMARY

The lessons will focus on cellular/molecular approaches applied to neuroendocrinology. First, specific molecular tools and experimental models (possibly including the zebrafish as an animal model) 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 results obtained in different animal models, including 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

1) Learn the state of the art in selected fields of neuroendocrinology research and related pathological aspects; 2) be aware of the most important and innovative methodologies and

approaches in molecular endocrinology; 3) in the end, be able to critically read and discuss manuscripts in the field.

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, using established animal (preferentially zebrafish) and cellular models. 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 REFERENT

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