Visiting Professor Program
Academic year 2020/2021

DEPARTMENT OF LIFE SCIENCES AND SYSTEMS BIOLOGY

TEACHING COMMITMENT: 16 hours

COURSE TITLE
Pheromonal and Acoustic Communication Strategies in Mammals

TEACHING PERIOD
1st term

SCIENTIFIC AREA
Biological Sciences

LANGUAGE USED TO TEACH
English

COURSE SUMMARY
The course will focus on mechanisms underlying sexual imprinting in mammals, particularly on the role played by male pheromonal and acoustic stimuli in promoting mate choice behavior in female mice. The course will cover the genetic basis as well as the environmental role of early experience in forming kin memories important to avoid inbreeding as adults.

LEARNING OBJECTIVES
1- Clarify how genes and environment cooperate to form behaviors critical for survival in vertebrates.

2- Learn which communication strategies/cues have evolved in vertebrates to optimize social interaction.

3- Identify which brain regions and circuits integrate multisensory stimuli important for reproduction.
TUTORSHIP ACTIVITIES (IF APPLICABLE)

LAB ACTIVITIES (IF APPLICABLE)

OTHER ACTIVITIES (IF APPLICABLE)
At least 1 seminar for PhD students in neuroscience and 1 general for citizens (third mission).

VISITING PROFESSOR PROFILE DESCRIPTION
The Visiting professor must have well-recognized competences in complex courtship signals in vertebrates. In particular, she/he must have experience on the role of pheromonal and acoustic cues in sustaining sexual imprinting in mammals.

CONTACT PERSON AT THE DEPARTMENT
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