The Hebrew University of Jerusalem

Syllabus

FIELD WORK: PSYCHONEUROIMMUNOLOGY - 51703

Last update 03-07-2016

HU Credits: 4

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: psychology

Academic year: 0

Semester: Yearly

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Prof. Raz Yirmiya

Coordinator Email: razyirmiya@mail.huji.ac.il

Coordinator Office Hours: Sunday 15:30-16:30

Teaching Staff:

Prof Raz Yirmiya

Course/Module description:

In this course the students will work for a whole academic year in the PsychoNeuroImmunology Laboratory at the Department of Psychology in Mount Scopus. The students will learn methods and approaches to research in this field and will perform by themselves behavioral, biochemical, microscopic and molecular measurements, using animal models of cognitive and emotional processes in normal and pathological conditions.

Course/Module aims:

This course is intended to introduce the students to the nature, rational and approaches to experimental laboratory work. This should lead to practical and theoretical knowledge on the nature of science, in general, and PsychoNeuroImmunology, in particular.

Learning outcomes - On successful completion of this module, students should be able to:

Upon completion of the course, the students will be able to:

• Describe and understand the process of scientific investigation, and the way that theoretical research questions are translated into specific research designs.

• To described and portray the interactions between the brain, behavior and the immune system, and particularly the role of brain microglia in these interactions.

• To perform various experimental procedures in the field of Psychoneuroimmunology' including behavioral tests for learning, memory, emotional (hedonic) processes and social behavior.

• To successfully and independently use a fluorescent microscope and to analyze various cellular parameters, such as numbers of cells and morphological aspects of the cells.

Attendance requirements(%):

The students will work minimum of 4-5 hours in the lab and in addition will participate in the weekly lab meeting (1-1.5 hours). The students are required to complete the course "Ethics in work with experimental animals", given by the Authority for Biomedical Models.

Teaching arrangement and method of instruction: Guided experimental work, supervised by the lecturer and the laboratory staff (post-docs and doctoral students)

Course/Module Content:

- *Practical work in the laboratory*

Required Reading:

The students will read one to two paper every week or two on topics related to the experiments that will be conducted in the lab at that period.

Additional Reading Material:

None

Course/Module evaluation:

End of year written/oral examination 0 %
Presentation 0 %
Participation in Tutorials 100 %
Project work 0 %
Assignments 0 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information:

Course evaluation: Participation and contribution to the experimental work in the lab and to the discussions in the lab meetings