

Liverpool John Moores University

Title: Neuroendocrinology
Status: Definitive
Code: **7104BRAIN** (126659)
Version Start Date: 01-08-2021

Owning School/Faculty: Psychology
Teaching School/Faculty: Psychology

Team	Leader
Chrysanthi Fergani	Y
Tara Kidd	
Alun Hughes	
Andrias O'Reilly	
Paula Trotter	
Fatima Perez de Heredia	

Academic Level: FHEQ7 **Credit Value:** 20 **Total Delivered Hours:** 42

Total Learning Hours: 200 **Private Study:** 158

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	8
Practical	9
Seminar	18
Workshop	5

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	PORTFOLIO	Critical evaluation of scientific papers (in 2-4 seminar presentations each 10-20 minutes long) and communications to the general public (via 3-5min podcast/video)	60	

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	EXAM	Exam	40	2

Aims

To provide an understanding of advanced and cutting edge topics in neuroendocrinology within the context of health and disease of animals and humans.

Learning Outcomes

After completing the module the student should be able to:

- 1 Scrutinise historic and recent literature focussed on relevant topics.
- 2 Critically evaluate current research methods in neuroendocrine sciences.
- 3 Understand and critically assess how the different regulatory systems contribute to the organisms' health status and risk of disease
- 4 Synthesize and communicate scientific information to the general public in a creative manner, with the use of internet-based communication channels

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Portfolio	1	2	3	4
exam	1	2	3	

Outline Syllabus

This module focuses on cutting-edge and advanced neuroendocrinology topics, including the endocrine control of physiology, neuroendocrinology of reproduction, prenatal programming of health and disease, puberty and pubertal disorders, endocrine disrupting compounds and the developing brain, sexual differentiation, behavioural neuro-endocrinology, neuroendocrinology of metabolism and energy balance, stress, and hormones and affective disorders.

Learning Activities

The module will be delivered primarily using a problem-based learning approach, supported by lectures & seminars. The students will work in groups to research a series of case studies guiding them through relevant advanced course material. Practical classes will provide opportunities to develop wet lab experience and relevant practical skills in the study of neuroendocrine modulation of behaviour. Seminars will offer opportunities for critical evaluation of cutting edge research.

Notes

This module will present cutting-edge research relevant to neuroscience and endocrinology, and as such the specific contents will reflect the current trends in the field.

Examples of relevant topics are: Neuroendocrine effects of psychoactive substances, Neuroendocrine modulation of social behaviour. Psycho-neuro immunology, Stress, Affective disorders, Circadian Rhythms.

This second semester module will mirror the comparative approach taken by the Somatosensory Systems Module delivered in semester 1 - emphasising comparative methods and systems based research.