

Module Details	
Module Title	Neuroendocrine Basis of Regulation and Metabolism
Module Code	BIS7021-B
Academic Year	2022/3
Credits	20
School	School of Chemistry and Biosciences
FHEQ Level	FHEQ Level 7

Contact Hours	
Type	Hours
Lectures	18
Practical Classes or Workshops	10
Directed Study	172

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims
To understand the: - Functional anatomy of the neuroendocrine system - Mechanisms regulating to hormone secretion and their sites of action in the central nervous system - Molecular mechanisms underlying biological timekeeping and their role in the regulation of the neuroendocrine axis e.g. appetite and body weight regulation - Role of hormones in reproduction, growth and development - Energy homeostasis and hormonal dysregulation in metabolism - Metabolic mechanisms that underlie age-related cognitive decline and dementia

Outline Syllabus

To study the theoretical knowledge relating to neuroendocrine regulation of hormone synthesis and release, including positive and negative feedback mechanisms that maintain homeostasis, particularly in relation to biological timekeeping, energy metabolism, fluid homeostasis, reproduction, growth and development and cognitive function.

Learning Outcomes

Outcome Number	Description
01	1 Demonstrate a comprehensive understanding of the mechanisms involved in appetite regulation
02	2 Discuss the physiological mechanisms responsible for biological rhythms
03	3 Demonstrate advanced understanding of the hormones involved in controlling reproduction, growth and development
04	4 Demonstrate critical awareness of hormonal contribution to disordered metabolism
05	5 Evaluate risk factors associated with neurological disease

Learning, Teaching and Assessment Strategy

The module will be taught by a combination of lectures and workshops to facilitate an in-depth understanding of the core topics related to neuroendocrinology, obesity and neurodiseases. Summative assessment will be based on coursework elements in the form of workshops on selected core topics covered during the module.

Mode of Assessment

Type	Method	Description	Weighting
Summative	Coursework - Written	Mlni Paper on Specific subject (2000 words)	60%
Summative	Short-Time Limited Online Examination	Data interpretation exercise (2 Hrs)	40%
Formative	Short-Time Limited Online Examination	Data interpretation exercise (formaitve)	N/A

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.

