

Module Details			
Module Title	Neuroendocrine Basis of Regulation and Metabolism		
Module Code	BIS7021-B		
Academic Year	2023/4		
Credits	20		
School	School of Chemistry and Biosciences		
FHEQ Level	FHEQ Level 7		

Contact Hours				
Туре	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					
Туре	Method	Description	Weighting		
Summative	Coursework - Written	MIni 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		
Formative	Coursework - Written	Mini Paper on Specific subject	N/A		

Reading List

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

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.

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