

Biology of Disease

Module Code:	BIS6012-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Chemistry and Biosciences
Subject Area:	Biomedical Science
FHEQ Level:	FHEQ Level 6
Module Leader:	Dr Jennifer Waby

Additional Tutors:

Professor Anne Graham, Dr Sobia Kauser, Dr Kirsten Riches-Suman

Pre-requisites:	Immunology, Haematology and Transfusion Science 2017-
Co-requisites:	

Contact Hours

Type	Hours
Lectures	10
Tutorials	15
Directed Study	175

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims

To further conceptual understanding of: the mechanisms (endogenous and exogenous) associated with the development, progression, manifestation and complications of disease in human beings; which affect particular organs/tissues and the accompanying changes in biochemistry, cell biology and physiology which arise both locally and systematically; the laboratory diagnosis and management of human disease (HCPC standard 13).

To provide an opportunity to further develop discipline specific and personal transferable skills (HCPC standard 14).

Outline Syllabus

Introduction to molecular pathology; molecular mechanisms in disease; biochemical responses to disease states. Each of the team based learning sessions will cover a different disease. The pathobiology, diagnosis and management (therapeutic options) of one important disease such as diabetes or type of cancer will be studied using knowledge and expertise from each specialist option area.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 Discuss in detail the pathology, biochemistry, infection and physiological response in a human disease.
- 2 Describe the diagnosis and management of human diseases.
- 3 Interpret clinical and laboratory data relating to the pathobiological changes in disease states; present scientific information using appropriate scientific language.
- 4 Work successfully individually and in a team to interpret and evaluate data. Work in a team to prepare a poster.
- 5 Demonstrate personal responsibility for self-directed learning and time management.

Learning, Teaching and Assessment Strategy

The knowledge and understanding required for this module is delivered in a series of introductory lectures, followed by interactive workshops on an aspect of disease. The core knowledge for this module is delivered by reference to current published scientific literature which requires extensive further reading and autonomous learning by the students.

Development of knowledge and understanding and other skills is also achieved using workshop sessions. In the workshops you will work in groups to understand case studies and/or published scientific journal articles; this will involve researching information, interpreting data, solving problems and will develop your understanding and the case study information is then summatively assessed. The group poster assessment will require you to work under pressure, meet deadlines and develop communication skills. During directed study hours, students are expected to undertake reading to consolidate and expand on the content of formal taught sessions; research and prepare for assessments; revise material from formal taught sessions; and undertake specific elements of reading as directed. Reassessment of failed elements will be as per the initial method of assessment.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	Production of a group poster (LO 1-5)	0-2000 words	30%	No
Summative	Computer-based assessment	1 individual e-assessment (LO 1-2)	1.5 hours	70%	Yes

Legacy Code (if applicable)

BM-3124D

Reading List

To view Reading List, please go to [rebus:list](#).