

Study of Disease 3

Module Information

2022.01, Approved

Summary Information

Module Code	6103BMBMOL
Formal Module Title	Study of Disease 3
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	44
Seminar	2
Tutorial	5
Workshop	4

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To provide an integrated knowledge of human pathological processes of the renal and respiratory systems, and the laboratory methods used to study disease, including the genetic basis of disease where appropriate and the use of bioinformatics.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically discuss the scientific basis of pathological processes associated with the renal and respiratory systems.
MLO2	2	Critically discuss the genetic basis of disease of the renal and respiratory systems.
MLO3	3	Justify the choice of investigative procedures used in studying human disease.
MLO4	4	Consider the use of bioinformatics and personalised medicine as they relate to the future of diagnostics and treatment.

Module Content

Outline Syllabus	The syllabus will focus on the pathophysiology and laboratory investigations associated with the following renal and respiratory systems. Renal: Urine composition, classification of renal disease, infections of the urinary tract. Laboratory investigations including urinalysis and proteinuria. Respiratory: Characteristics of acid-base disorders (acidosis and alkalosis), respiratory tract infections. Laboratory investigations (culture, immunofluorescence, and the use of molecular biology). Cystic fibrosis and associated infections. Genetic basis of disease; also personalised medicine and companion diagnostics. Bioinformatics.
Module Overview	This module provides an integrated knowledge of human pathological processes of the renal and respiratory system and the laboratory methods used to study disease, including the genetic basis of disease where appropriate and the use of bioinformatics.
Additional Information	This module, together with the linked modules Study of Disease 1 and Study of Disease 2, will provide students with an understanding of the scientific basis of clinically important diseases and the laboratory methods used to study them at the molecular, cellular, tissue and organ level. No specific benchmarks are available for this module, but the learning outcomes at least meet, if not exceed, those stipulated in the relevant qualification descriptors for a higher education qualification at level 6 as defined by QAA, Sept 2015. The module has also been informed by the benchmark statement for Biomedical Science June 2015. Intake is every September. The criteria for admission to the module require that candidates meet the criteria for admission to the BSc Biomedical Science programme (32805). The final award is Certificate of Professional Development in Study of Disease 3, 20 credits at Level 6. The students have access to a module Canvas site and the University's other range of electronic support such as access to the electronic library facilities. The module content is regularly updated on the Canvas site including contemporary reading lists and links to journal articles. Students have access to the community site for Biomedical Science. All students have access to the module leader through phone contact and email. Module and CPD guides are also provided, which provide a range of information. The programme is assessed and run in line with the Academic Framework http://www.ljmu.ac.uk/eaqs/121984.htm The module is accredited by The Institute for Biomedical Science (Sept 2016- Aug 2021). The module forms part of the BSc Biomedical Science programme (32805) which was reviewed in April 2016. The methods for improving the quality and standards of learning are as follows: <ul style="list-style-type: none"> • Annual monitoring Review; • Liaison and feedback from the students; • Reports from External Examiner; • Programme team ensuring the module reflects the values of the current teaching and learning strategy; • Module leader updating knowledge and skills to ensure these remain current and relevant. The module is included in the programme specification for the BSc Biomedical Science programme (32805). The module is aligned with the same BSc Biomedical Science module for annual monitoring and external examining purposes.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Essay	Three short essays	100	0	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Jo Foulkes	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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