

Liverpool John Moores University

Title: STUDY OF DISEASE 3
Status: Definitive
Code: **6103BMBMOL** (122473)
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
Jo Foulkes	Y
Giles Watts	
Darren Sexton	
Kenneth Ritchie	
Gordon Lowe	
Janice Harland	

Academic Level: FHEQ6 **Credit Value:** 20 **Total Delivered Hours:** 55

Total Learning Hours: 200 **Private Study:** 145

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	44
Seminar	2
Tutorial	5
Workshop	4

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	Coursework	A final piece of coursework consisting of three short essays, based on the course materials.	100	

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.

Learning Outcomes

After completing the module the student should be able to:

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

Learning Outcomes of Assessments

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

Three short essays	1	2	3	4
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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.

Learning Activities

Material will be delivered through a combination of lectures, tutorials, seminars and

workshops. Assessment will be via a final piece of coursework consisting of three short essays.

Notes

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 Blackboard 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 Blackboard 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:

- 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.