

Liverpool John Moores University

Title: LABORATORY INVESTIGATION OF DISEASE B
Status: Definitive
Code: **6001BMBMOL** (101483)
Version Start Date: 01-08-2018

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

Team	Leader
Janice Harland	Y
Nick Bryan	
Darren Sexton	
Jo Foulkes	
Kenneth Ritchie	
Mark Murphy	
Helen Smalley	
Gordon Lowe	
Khalid Rahman	
Steven Crosby	

Academic Level: FHEQ6 **Credit Value:** 24 **Total Delivered Hours:** 50
Total Learning Hours: 240 **Private Study:** 190

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	32
Seminar	6
Tutorial	5
Workshop	5

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	3 essay style questions from a choice of 6	40	2

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS2	case study linked to 2 tutorials (group work)	30	
Report	AS3	assignment linked to lecture material.	30	

Aims

To provide an integrated knowledge of human pathological processes and the laboratory methods used to study disease.

Learning Outcomes

After completing the module the student should be able to:

- 1 discuss the scientific basis of pathological processes associated with the gastrointestinal, hepatic and endocrine systems.
- 2 justify the choice of investigative procedures used in studying human disease.
- 3 discuss the function and structure of the classical laboratory disciplines used in clinical pathology.
- 4 demonstrate the ability to apply critical thinking when presented with a case scenario.

Learning Outcomes of Assessments

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

EXAM	1	2	3
case study	2	3	4
assignment	1	3	

Outline Syllabus

The syllabus will focus on the pathophysiology and laboratory investigation of disorders associated with the liver, gastrointestinal tract and endocrine system.

Liver: Normal and abnormal hepatobiliary function; major liver function tests. Infectious diseases associated with jaundice.

Gastrointestinal tract: Microbiology of the gastrointestinal tract to include normal commensal flora and pathogens; histology; laboratory investigations.

Endocrine systems: Disorders of the hypothalamus, anterior pituitary gland, thyroid gland and adrenal gland. laboratory investigations including dynamic function tests.

Learning Activities

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

Notes

This module, together with the linked module Laboratory Investigation of Disease A, will provide students with an integrated 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.