

Liverpool John Moores University

Title: LABORATORY INVESTIGATION OF DISEASE B
Status: Definitive
Code: **6201BMBMOL** (119463)
Version Start Date: 01-08-2011

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

Team	Leader
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Academic Level: FHEQ6 **Credit Value:** 24.00 **Total Delivered Hours:** 32.00

Total Learning Hours: 240 **Private Study:** 208

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	22.000
Seminar	4.000
Tutorial	2.000
Workshop	2.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	3 essay style questions from a choice of 6	60.0	2.00
Report	AS3	assignment linked to lecture material.	10.0	
Report	AS2	case study linked to 2 tutorials (group work)	30.0	

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
literature Review	1		
case study	2	3	4

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.

References

Course Material	Book
Author	Underwood, J.C.E.
Publishing Year	2004
Title	General and Systematic Pathology.
Subtitle	
Edition	4th ed
Publisher	Churchill Livingstone.
ISBN	0-443073341.

Course Material	Book
Author	Emery, A.E., Mueller, R.F., Young, I.D.
Publishing Year	2001
Title	Emery's Elements of Medical Genetics.
Subtitle	
Edition	11th ed.
Publisher	Churchill Livingstone.
ISBN	0-44307-125.

Course Material	Book
Author	Roitt, I.M., Brostoff, J., Male, D.K.
Publishing Year	2001
Title	Immunology
Subtitle	
Edition	6th ed.
Publisher	Mosby.
ISBN	0-7324-31892

Course Material	Book
Author	Marshall, W.J and bangert S K.
Publishing Year	2006
Title	Clinical Chemistry.
Subtitle	
Edition	5th ed
Publisher	Elsevier
ISBN	0683076051

Course Material	Book
Author	Lewis S M, Bain B J, and Bates I
Publishing Year	2006
Title	Dacie and Lewis's Practical Haematology
Subtitle	
Edition	10th ed
Publisher	Elsevier
ISBN	0443066604

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.