

# Cellular pathology

## Module Information

2022.01, Approved

### Summary Information

Module Code	5110BMBMOL
Formal Module Title	Cellular pathology
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

### Learning Methods

Learning Method Type	Hours
Lecture	44
Practical	12

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

### Aims and Outcomes

Aims	This course aims to develop fundamental histological practical skills and a theoretical understanding of how histological changes in normal tissues underpin the pathology of disease.
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**After completing the module the student should be able to:**

**Learning Outcomes**

Code	Number	Description
MLO1	1	Prepare tissues for histological examination and use microscopy to recognise the gross structure and ultrastructure of tissues selected from the major organ systems.
MLO2	2	Demonstrate understanding of how changes to normal histology underpin the pathology of disease.

**Module Content**

Outline Syllabus	<p>Histology: Tissue preparation: fixation, tissue processing, paraffin wax and freezing. Microtomy: for paraffin wax cryostat sectioning. Histological staining: general and specialised stains and the theoretical principles of immunohistochemistry. Functional histology: The fundamental histology of a range of normal tissues including but not limited to the liver, kidney, respiratory system and skin. Cellular Pathology: How changes in normal histology result in the pathological consequences of disease across a broad range of tissues relevant to global health.</p>
Module Overview	
Additional Information	<p>This module will provide students with an understanding of the scientific basis of histology and pathology. The module will provide the students with an understanding of microscopic structures of tissues and organ systems in the context of cellular activity and how changes in this respect result in the pathology of disease. The portfolio within this module will consist of an evaluation of the slides produced in the practical sessions and an assessment of the students' ability to recognise tissue sections using microscopy. This will be worth 40% of the module. The remaining 60% of the module will be in the form of an MCQ exam at the end of the semester. The practicals in this module are based upon the work undertaken by Biomedical Scientists in the NHS. They will give the student the necessary skills and experience to meet the work place needs of the NHS. They have also been developed in consultation with HCPC registered Biomedical Scientists who have confirmed that these practicals are suitable and applicable to the NHS work place</p>

**Assessments**

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Slide Prep and Tissue ID Test	40	3	MLO1
Centralised Exam	MCQ/SAQ Exam	60	2	MLO1, MLO2

**Module Contacts**