

MODULE DESCRIPTOR

Module Title

Fundamental Histology and Cytology

Reference	PL2501	Version	1
Created	April 2023	SCQF Level	SCQF 8
Approved	June 2023	SCQF Points	15
Amended	August 2021	ECTS Points	7.5

Aims of Module

To enable students to acquire a knowledge of the fundamentals of human cytology and histology.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Describe the basic principles of histotechnology and perform histotechnological techniques in the laboratory.
- 2 Identify and differentiate between the components of cells and tissues from the major human organ systems and explain their functions.
- 3 Demonstrate a working knowledge of the basic applications of conventional and molecular diagnostic cytology.

Indicative Module Content

Organisation of a histopathology department and its value in the diagnostic process. Fixation, dehydration, impregnation and embedding. Tissue sectioning, basic principles of Haematoxylin and Eosin staining. Structure of an electron microscope and organelle identification in electron micrographs. Principles of immunocytochemistry. Principles of molecular cytological techniques. Recognition of cell types from epithelial, connective, muscle, nerve and blood tissue; recognition of cells and tissues from the cardiovascular, nervous, integumentary, digestive, respiratory, lymphatic, endocrine, reproductive and renal systems.

Module Delivery

This is a blended study module, which consists of student-based e-learning supplemented with lectures, tutorials and practical laboratory sessions.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	40	N/A
Non-Contact Hours	110	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Examination	Weighting:	100%	Outcomes Assessed:	1, 2, 3
Description:	Closed book examination.				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

Component 1 (EX1) comprises 100% of the module grade. A minimum of a Grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
A	A
B	B
C	C
D	D
E	E:
F	F
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	Successful completion of Stage 1 or equivalent.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 BANCROFT, J.D. and GAMBLE, M. *Theory and Practice of Histological Techniques*. 8th Edition, 2018: Churchill Livingstone.
- 2 GARTNEW, L.P. and HIATT, J.L. *Color Atlas and Text of Histology*. 6th Edition, 2014: Lipincott Williams & Wilkins.
- 3 YOUNG, B., et al. *Wheater's Basic Pathology: A Text, Atlas and Review of Histopathology*. 6th Edition, 2019: Churchill Livingstone.
- 4 YOUNG, B., et al. *Wheater's Functional Histology: A Text and Colour Atlas*. 5th Edition, 2006: Churchill Livingstone.
- 5 TALLITSCH, R. and GUASTAFERRI, R. *Histology: An Identification Manual*. 1st Edition, 2008: Mosby.
- 6 KIERNAN, J.A. *Histological and Histochemical methods: Theory and Practice*. 5th Edition, 2015: Scion Publishing Ltd.
- 7 ORCHARD, G. and NATION, B. *Histopathology* 2nd Edition, 2017: Oxford University Press.
- 8 SHAMBAYATI, B. *Cytopathology* 2nd Edition, 2018: Oxford University Press.