

## Liverpool John Moores University

Title: INTRODUCTION TO CELL BIOLOGY  
Status: Definitive  
Code: **4114BCBMOL** (126732)  
Version Start Date: 01-08-2021

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

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**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 53

**Total Learning Hours:** 200      **Private Study:** 147

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	30
Practical	6
Seminar	5
Workshop	10

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	The format of the exam will be given in the module handbook	60	2
Presentation	Poster	Poster presentation	40	

### Aims

*To provide an introduction to the field of cell biology (the study of the structure and function of cells).*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Describe the relationships between structure, function and communication in cells and tissues.
- 2 Demonstrate a knowledge and understanding of basic cell signalling and receptors
- 3 Use experimental methods to explain key molecules and cellular processes
- 4 Communicate cellular scientific information

## **Learning Outcomes of Assessments**

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

Exam	1	2	3
Poster Presentation	4		

## **Outline Syllabus**

*Cell structure/function: general differences between prokaryotes and eukaryotes (including animal and plant cells), cytoskeleton, lysosomes/peroxisomes/vacuoles, endoplasmic reticulum/Golgi apparatus, mitochondria, cell adhesions/extracellular matrix.*

*Cell cycle*

*Membrane structure/function*

*Basic tissues/histology*

*Basic cell signalling and receptors including receptor tyrosine kinase and MAP kinase, JAK/STAT pathways*

## **Learning Activities**

Lectures

Practicals

Workshops

Seminars

## **Notes**

This module will enable students to demonstrate basic understanding of cell structure/function and how cells give rise to functions within tissues. Students will encounter experimental methods to investigate the relevant areas of cell biology.