

## Liverpool John Moores University

Title: MOLECULAR CELL BIOLOGY  
Status: Definitive  
Code: **5106BCBMOL** (122492)  
Version Start Date: 01-08-2021

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

Team	Leader
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**Academic Level:** FHEQ5      **Credit Value:** 20      **Total Delivered Hours:** 55

**Total Learning Hours:** 200      **Private Study:** 145

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	36
Practical	12
Tutorial	5

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Exam	50	2
Report	Report	Report	50	

### Aims

*The module will introduce students to a range of important cellular processes and*

*some of the main molecular mechanisms associated with the regulation of these processes.*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Appraise the mechanisms of selected cellular processes
- 2 Study cellular processes experimentally

## **Learning Outcomes of Assessments**

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

Exam	1
Report	2

## **Outline Syllabus**

*Translation and post-translational modifications*

*Receptors and Signalling pathways*

*Exocytosis/endocytosis*

*Tissue homeostasis*

*Molecular mechanisms of mitosis*

*Immunology*

## **Learning Activities**

Lectures

Practicals

## **Notes**

This module will empower students to demonstrate a critical understanding of signal transduction, cell proliferation and mechanisms of cell death. Transport of molecules in and out of cells will be explained and molecular cell immunology will be introduced. Students will encounter experimental methods for the investigation of relevant areas of biochemistry and molecular biology.