

### Summary Information

Module Code	6104BMBMOL
Formal Module Title	Cancer
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

### Learning Methods

Learning Method Type	Hours
Lecture	47
Off Site	2
Seminar	2
Tutorial	1
Workshop	2

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

### Aims and Outcomes

Aims	To provide a bench to bedside approach to cancer underpinning the key molecular and cellular events during initiation and progression of cancer, and an appreciation of diagnostic techniques and therapies available.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Critically discuss the hallmarks of cancer.
MLO2	2	Evaluate current scientific literature, in order to prepare and present a scientific poster.
MLO3	3	Evaluate the key principles of cancer diagnosis and therapy.

### Module Content

Outline Syllabus	The students' understanding of the cell cycle will be extended. The genetic basis of Cancer will be covered - changes in oncogenes, tumour suppressor genes, chromosomal alterations and DNA repair. Understanding of processes in carcinogenesis – chemical carcinogens and mutagens, genotoxicity tests, risk factors including effect of diet and nutrition - will be developed. The module will cover key features of specific types of cancers including tumour progression, benign and malignant, invasion and metastasis, immunology and cancer, aspects of diagnostics – histological and molecular techniques involved in identifying disease. Students will be introduced to therapeutics – classical and novel therapies, adverse effects - to modulating cellular defence mechanisms and to genetic counselling
Module Overview	The aim of this module is to provide a bench to bedside approach to cancer, underpinning the key molecular and cellular events during the initiation and progression of cancer and providing an appreciation of diagnostic techniques and therapies available. The module aims to consolidate your prior learning in genetics, histology, cell biology, molecular biology, chemistry, biochemistry within a disease model.
Additional Information	This course is designed to provide students with a holistic, bench to bedside overview to cancer biology, diagnostics and therapy. This module aims to consolidate students prior learning in genetics, histology, cell biology, molecular biology, chemistry, biochemistry within a disease model. The course is based around the hallmarks of cancer and enabling characteristics and novel therapies.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Exam	50	2	MLO1, MLO3
Presentation	Prepare a scientific poster	50	0	MLO2

### Module Contacts

#### Module Leader

Contact Name	Applies to all offerings	Offerings
Laura Randle	Yes	N/A

**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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