Module Specification

Module Title	Cancer Biology	Module Code	BMD381

Credit Value	15	Level	6	Mode of Delivery	On Campus	Semester B

Pre-requisite modules	Co-requisite modules	Overlapping modules
Module Restricted to B990 and C431 programmes		

1) Content Description

Provide a description of the module, as it will appear in the Module Directory and on the Student Information System (approx. 70-80 words).

This module presents information on general cancer biology (including diagnosis, causative agents, origins, neoplastic transformation, tumour growth, progression, metastasis and angiogenesis), cancer molecular biology and molecular signalling, cell cycle & apoptosis, inflammation and cancer therapy.

2) Module Aims

Specify the aims of the module, i.e. the broad educational purposes for offering this module.

- General cancer cell and tissue biology
- Physiological and molecular mechanisms of tumour development and progression
- Regulatory processes involved in oncogenesis
- Cancer therapy and treatment regimes

3) Learning Outcomes

Identify the learning outcomes for this module, i.e. knowledge, skills and attributes to be developed through completion of this module. Outcomes should be referenced to the relevant QAA benchmark statements and the Framework for Higher Education Qualifications in England, Wales and Northern Ireland (2008). The SEEC Credit Level Descriptors for Further and Higher Education 2003 and Queen Mary Statement of Graduate Attributes should also be used as a guiding framework for curriculum design.

Academic Content:	
A 1	At the end of this module students should be able to explain: biology of normal cell growth, homeostasis and apoptosis relevant to oncogenesis
A 2	Biological processes governing tumorigenesis and metastasis
A 3	Molecular processes influencing tumorigenesis and metastasis
A 4	The basis of cancer treatment (surgery, chemotherapy and radiotherapy) In addition, as part of their coursework the students should be able to synthesise and evaluate biological and clinical information on a specific cancer

Disciplinary skills - able to:	
B1	At the end of the module the student will have enhanced knowledge of cancer biology
B2	The student should be able to obtain, assimilate and reproduce knowledge on a full range of biological and molecular aspects of cancer and the treatment of cancer based diseases

Attributes:	
C1	At the end of the module the student will have improved knowledge of cancer, have knowledge acquisition, oral, written and IT presentation & dissemination skills and enhanced reading, comprehension and writing skills

4) Reading List

Provide an indicative reading list for the module. This should include key texts and/or journals but should not be an exhaustive list of materials.

A basic textbook is recommended to provide background and underpin your lectures given by medical staff experts in research in the field: The Biology of Cancer (Second Edition). Robert A Weinberg. Garland Science. 2014. ISBN: 978-0-8153-4220-5

5) Teaching and Learning Profile

Provide details of the method of delivery (lectures, seminars, fieldwork, practical classes, etc.) used to enable the achievement of learning outcomes and an indicative number of hours for each activity to give an overall picture of the workload a student taking the module would be expected to undertake. This information will form the Key Information Set for each undergraduate programme and will be used to populate the KIS widget found on the QMUL programme information pages. More information can be found online about KIS. You may also wish to refer to the QAA guidance on contact hours when completing this section.

Activity Type	KIS Category	Time Spent (in hours)
Lecture	Scheduled	20
Workshops	Scheduled	5
	Total	25

Specify the total module notional study hours. This should be a total of the hours given for each activity. The notional study hours for each academic credit point is 10. A 15 credit point module therefore represents 150 notional study hours.

Activity Type	Total Time Spent (in hours)	Percentage of Time Spent
Scheduled learning and teaching	25	16.7
Placement	0	0
Independent Study	125	83.3
Total	150	100

Use the information provided in the box above to specify the total time spent and the percentage time spent in each category of teaching and learning activity.

6) Assessment Profile

Provide details of the assessment methods used to assess the achievement of learning outcomes.

Description of Assessment	Assessment Type	KIS Category	Duration/Length	Percentage Weighting	Final element of assessment	Qualifying Mark
Examination	Exam	Coursework	3 Hours	80%	Yes	
Coursework	Written Assessment and presentation	Coursework		20%	No	

Final element of assessment: The assessment that takes place last. There should normally be only one element of assessment marked as final unless two assessment or submission dates occur on the same day.

Qualifying mark: A specified minimum mark that must be obtained in one or more elements of assessment in order to pass a module. This is in addition to, and distinct from, the requirement to achieve a pass in the module mark to pass the module.

Reassessment

Provide details of the reassessment methods used, specifying whether reassessment is either standard reassessment or synoptic reassessment.

○ Standard Reassessment ◉ Synoptic Reassessment

Synoptic reassessment details (if you have indicated synoptic reassessment above, please give details)		
Brief Description of Assessment	Assessment Type	Duration/Length of Examination/ Coursework
Examination	Exam	3 Hours