Module Specification

Module Title	Advanced Immunology	Module Code	BMD351

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

Pre-requisite modules	Co-requisite modules	Overlapping modules
BMD269 OR BMD251		none

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 will build on the second year immunology teaching, to provide in-depth knowledge of fundamental immune processes, of the ways in which these interact as a complex system that provides protection against infection disease but can also cause disease when dysregulated and of the importance of immunology in modern medicine. There will be emphasis on molecular immunology and the key signalling pathways that underpin immunological mechanisms. Lectures in specialised areas of the subject will be given by experts in their field, providing a sense of the frontiers of their subject. In addition to formal lectures, the course will provide tutorials with opportunities to critically-examine research papers. We also hope to offer laboratory practical sessions in which students will be able their own classic immunology experiments.

2) Module Aims

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

To provide an understanding of the fundamental processes of the immune system and the mechanisms that underpin it.

To explore the concept that the immune system can both protect against and cause disease.

To explore the role of the immune system in modern medicine.

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:	
A1	To understand fundamental immunological process and the mechanisms responsible

A2	To appreciate the complexity of the interacting pathways that comprise the immune system
A3	To understand the importance of the immune system as both a protector against and contributor to disease.
Disciplinary Skills - able to:	
B1	Critically evaluate published research studies
B2	Conceptualise the function of a complex system
B3	
Attributes:	
C1	To appreciate how emerging data modifies concepts and changes of understanding
C2	To access and interrogate existing data

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.

Most recent editions of immunogy text books: e.g. Janeway's Immunobiology

Casenotes in Immunology for more clinical aspects

A reading list of appropriate review articles will be provided

Teaching and Learning Profile

Provide details of the method of delivery (lectures, seminars, fieldwork, lab work, 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.

1. Student / lecturer interaction Specify details of the method of delivery e.g. lectures, seminars, fieldwork, lab work etc. used to enable the achievement of the learning outcomes and an indicative number of hours for each activity.	22 h lectures + 8 h tutorials
2. Student independent learning time Specify an indicative number of independent hours of study a student undertaking this module would be expected to undertake.	To include directed reading of recent journal articles (related to research topics and research methods discussed in lectures) 120 h

1. + 2. Total module notional study hours Specify the total module notional study hours. This should be a total of the hours given in 1. and 2. The notional study hours for each academic credit point is 10. A 15 credit point module therefore represents 150 notional study hours.	150 h

Assessment Profile

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

Brief Description of Assessment	Assessment Type	Duration / Length of Examination / Coursework	Percentage Weighting	Final element of assessment?	Qualifying Mark for Individual Assessment
Examination	Examination	3 h	80%	Yes	N/A
Short written work	Coursework	250 words	10%	No	N/A
Poster	Coursework		10%		

Reassessment

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

○ Standard Reassessment ◉ Synoptic Reassessment

Resit Examination	Examination	3 h

Section 3 - Alternative Assessment Arrangements for Associate Students

This section must only be completed if the module will be made available to associate students in Semester A and where the credit value of the "associate" version is the same as for the main version, and the main version is assessed by exam in May which is not available to the associate students. All other aspects of the module specification remain the same as indicated in Section 2 above. To add alternative assessment arrangements

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

please click 'Add Alternative Assessment'.

Section 4a - Half Module for Associate Students (for a half module to be taught in Semester A)

This section must be completed if the proposed module will take place over 2 semesters but will be made available to single-semester associate students in a half-credit format in Semester A. Modules worth less than 30

credits taken over 2 semesters may not be made available in a half-credit format. To add details for the half module please click 'Add Half Module (Semester A)'.

Section 4b - Half Module for Associate Students (for a half module to be taught in Semester B)

This section must be completed if the proposed module will take place over 2 semesters but will be made available to single-semester associate students in a half-credit format in Semester B. Modules worth less than 30 credits taken over 2 semesters may not be made available in a half-credit format. To add details for the half module please click 'Add Half Module (Semester B)'.