

## Case Studies in Drug Discovery

Module Code:	INC7011-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Pharmacy and Medical Sciences
Subject Area:	Cancer Therapeutics
FHEQ Level:	FHEQ Level 7 (Masters)

Pre-requisites:

Co-requisites:

### Contact Hours

Type	Hours
Lectures	24
Tutorials	6
Directed Study	170

### Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 2 (Feb - May)

### Module Aims

To provide a comprehensive understanding of the background and current issues in research into an area of drug discovery. To broaden students' appreciation of the wide range of research in drug discovery.

### Outline Syllabus

An overview of the discovery and development process for specific medicines currently on the market or soon to be introduced. Topics will include new medicines for cancer therapy, patent applications, cancer disease backgrounds, cancer stem cells and generation of toxic metabolites that is related to administration of many therapeutics.

### Module Learning Outcomes

*On successful completion of this module, students will be able to...*

- 1 Evaluate the current state-of-play and future directions in selected areas of medicinal chemistry and drug discovery.
- 2 Identify the logical approaches taken to maximise the potency and efficacy of new drugs (small molecules and biologics) in preclinical setting and the strategies undertaken to identify best clinical candidates based on SAR PKPD profiles.
- 3 Develop a strategy to present and discuss a piece of research in the format of a poster.
- 4 Develop an IT strategy to organise their literature research.
- 5 Demonstrate time management.
- 6 Work with a supervisor to plan, agree objectives, responsibilities and working arrangements.
- 7 Review work and identify ways of improving future work.
- 8 Explore problems and compare and select options to overcome them.

### **Learning, Teaching and Assessment Strategy**

This course will be presented as a series of lectures and small workshops to expand the knowledge of drug discovery. Assessment of students will be through a closed book final examination and defending of a poster crafted by the student, which must involve the discovery and development of a specific drug.

### **Mode of Assessment**

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Examination - closed book	Students are required to answer 4 out of 8 questions related to drug discovery cases in a 2 hour closed book exam	2 hours	60%	Yes
Summative	Coursework	Create a poster concerning a specific drug case which should incl. most aspects dealing with its drug	0 hours	40%	No

discovery  
process.

**Legacy Code (if applicable)**

CR-4013D

**Reading List**

To view Reading List, please go to [rebus:list](#).