

| Module Details |   |
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| Module Title   | Case Studies in Drug Discovery          |
| Module Code    | INC7011-B                               |
| Academic Year  | 2024/5                                  |
| Credits        | 20                                      |
| School         | School of Pharmacy and Medical Sciences |
| FHEQ Level     | FHEQ Level 7                            |

| Contact Hours  |       |
|----------------|-------|
| Type           | Hours |
| Tutorials      | 7     |
| Lectures       | 23    |
| Directed Study | 168   |

| Availability |                                     |
|--------------|-------------------------------------|
| Occurrence   | Location / Period                   |
| BDA          | University of Bradford / Semester 2 |

| Module Aims  |
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| 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   |
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| 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 (small molecule and antibody-based therapy), exploitation of tumour vulnerabilities for the therapeutic intervention, patent applications, cancer disease backgrounds, drug target validation, assay development, cancer stem cells and generation of toxic metabolites and knowledge of side effects associated with treatment modalities. |

| Learning Outcomes |   |
|-------------------|---|
| Outcome Number    | Description   |
| 01                | Evaluate the current state-of-play and future directions in selected areas of medicinal chemistry and drug discovery.   |
| 02                | 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. |
| 03                | Develop a strategy to present and discuss a piece of research in the format of a poster.  |
| 04                | Develop an IT strategy to organise their literature research.   |
| 05                | Demonstrate time management.  |
| 06                | Work with a supervisor to plan, agree objectives, responsibilities and working arrangements.  |
| 07                | Review work and identify ways of improving future work.   |
| 08                | Explore problems and compare and select options to overcome them.   |

| Learning, Teaching and Assessment Strategy   |
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| <p>1 - Evaluate the current state-of-play and future directions in selected areas of medicinal chemistry and drug discovery.</p> <p>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.</p> <p>3 - Develop a strategy to present and discuss a piece of research in the format of a poster.</p> <p>4 - Develop an IT strategy to organise their literature research.</p> <p>5 - Demonstrate time management.</p> <p>6 - Work with a supervisor to plan, agree objectives, responsibilities and working arrangements.</p> <p>7 - Review work and identify ways of improving future work.</p> <p>8 - Explore problems and compare and select options to overcome them.</p> |

| Mode of Assessment |                           |  |           |
|--------------------|---------------------------|--|-----------|
| Type               | Method                    | Description  | Weighting |
| Summative          | Examination - Closed Book | Students are required to answer 3 out of 5 questions related to drug discovery cases in a 2 hour closed book exam.     | 60%       |
| Summative          | Presentation              | Create a poster concerning a specific drug case which should inc. most aspects dealing with its drug discovery process | 40%       |

| Reading List   |
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| To access the reading list for this module, please visit <a href="https://bradford.rl.talis.com/index.html">https://bradford.rl.talis.com/index.html</a> |

Please note:

*This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.*

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