

### Summary Information

|                            |                                       |
|----------------------------|---------------------------------------|
| <b>Module Code</b>         | 7106BSBMOL                            |
| <b>Formal Module Title</b> | Current Issues in Biomedical Sciences |
| <b>Owning School</b>       | Pharmacy & Biomolecular Sciences      |
| <b>Career</b>              | Postgraduate Taught                   |
| <b>Credits</b>             | 20                                    |
| <b>Academic level</b>      | FHEQ Level 7                          |
| <b>Grading Schema</b>      | 50                                    |

### Module Contacts

#### Module Leader

| Contact Name | Applies to all offerings | Offerings |
|--------------|--------------------------|-----------|
| Iain Dykes   | Yes                      | N/A       |

#### Module Team Member

| Contact Name   | Applies to all offerings | Offerings |
|----------------|--------------------------|-----------|
| Giles Watts    | Yes                      | N/A       |
| Baoxiu Qi      | Yes                      | N/A       |
| Sidgi Hasson   | Yes                      | N/A       |
| Gordon Lowe    | Yes                      | N/A       |
| Darren Sexton  | Yes                      | N/A       |
| Kate Evans     | Yes                      | N/A       |
| Adrian O'Hara  | Yes                      | N/A       |
| Joanne Foulkes | Yes                      | N/A       |

#### Partner Module Team

|              |                          |           |
|--------------|--------------------------|-----------|
| Contact Name | Applies to all offerings | Offerings |
|--------------|--------------------------|-----------|

## Teaching Responsibility

|  |
|--|
| <b>LJMU Schools involved in Delivery</b> |
| Pharmacy & Biomolecular Sciences         |

## Learning Methods

| Learning Method Type | Hours |
|----------------------|-------|
| Lecture              | 22    |
| Seminar              | 8     |
| Tutorial             | 5     |
| Workshop             | 10    |

## Module Offering(s)

| Offering Code | Location | Start Month | Duration |
|---------------|----------|-------------|----------|
| JAN-CTY       | CTY      | January     | 12 Weeks |

## Aims and Outcomes

|             |  |
|-------------|--|
| <b>Aims</b> | To provide students with an appreciation of current research, controversies, state of the art and newsworthy breakthroughs that are addressed by biomedical scientists |
|-------------|--|

## Learning Outcomes

After completing the module the student should be able to:

| Code | Description   |
|------|---|
| MLO1 | Formulate ideas and develop the skills to communicate these ideas to a scientific audience.                           |
| MLO2 | Critically evaluate the literature relating to a current research area.   |
| MLO3 | Demonstrate the application of knowledge gained throughout the programme to current advances in biosciences research. |

## Module Content

### Outline Syllabus

The aim is to deliver topical content related to current developments, advances reported in the scientific literature and staff expertise. Each lecture will be delivered on a different current topic by an expert in the field. The following are examples of topics that may be covered in this module:

- Infectious disease: Improving clinical diagnosis of resistant bacterial strains through development of phenotypic tests
- Pandemic viruses
- Stem cell technology: Prospects for regenerating the heart in myocardial infarction patients
- Molecular medicine: Correction of genetic disease using in vivo CRISPR gene editing.
- Neurodegenerative disease: Treating dementia.

Workshops: Workshops will be linked to the topics of lectures in order to allow students to explore subjects in more depth in an interactive environment.

Seminars: As part of their assessment, students will present a seminar to the class in which they propose a research project linked to one of the topics presented in lectures.

Tutorials: Students will receive tutorials to guide them through the process of writing a research proposal.

### Module Overview

This module aims to provide you with an appreciation of current developments, controversies and newsworthy items in the biomedical sciences. Industry guest speakers will deliver case studies of products from inception, through Research and Development to final commercial product.

### Additional Information

This module aims to present an overview of current hot topics within the biomedical sciences in order to stimulate student interest and provide ideas for potential career paths. Material covered will relate both to research interests of teaching staff and external speakers from the commercial sector. Students will explore topics in more detail through linked workshops and assessments.

## Assessments

| Assignment Category | Assessment Name               | Weight | Exam/Test Length (hours) | Learning Outcome Mapping |
|---------------------|-------------------------------|--------|--------------------------|--------------------------|
| Report              | Critical literature review    | 50     | 0                        | MLO1, MLO2               |
| Presentation        | Research project presentation | 50     | 0                        | MLO3, MLO1, MLO2         |