Module Definition Form (MDF)

Module code: MOD002889	**Version:** 11 **Date Amended:** 10/Jul/2024

1. Module Title
Current Advances in Biomedical Science (BMS)

2a. Module Leader
Hussein Al-Ali

2b. School
School of Life Sciences

2c. Faculty
Faculty of Science and Engineering

3a. Level
6

3b. Module Type
Standard (fine graded)

4a. Credits
15

4b. Study Hours
150

5. Restrictions

Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:	Biomedical Science, Bioscience, Bioinformatics degree courses, Life Sciences framework		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

As the culmination of your degree, we will be looking at the cutting edge research and technology in the biomedical and biomolecular fields, and will also foster your future employability by exposing you to the wide variety of options available in the field. You will be given talks by internal and external experts in the field. Sessions will focus on the latest areas of research, with discussion of the implications for medical therapies and their impact on society, as well as highlighting different post-graduate research opportunities. You will develop a detailed knowledge and critical understanding of topics at the forefront of biomedical and biomolecular science.. You will be invited to participate in discussions of the ethical, economic and societal impacts of the research you learn about, and in the journal club where an exciting research article would be presented and critically analysed. Coursework for the module focuses on student-centred learning, helping you to expand upon and improve your capacity for scientific thought and independent work. In the coursework assignments, you will be given the freedom to pursue those subjects in the biomedical science field which excite you the most. Your understanding of the strengths and weaknesses of the latest research techniques will be further developed by critically evaluating cutting edge research presented by eminent guest researchers from UK and abroad.

6b. Outline Content

Topics will be chosen close to the start of each delivery of the module by the module delivery team, based upon relevant current research topics and subject to availability of eminent guest speakers. The following list of topics is intended to be suggestive rather than exhaustive: academic and applied scientific research; clinical and biomedical science and career pathways; the biotechnology industry; alternative career pathways.

6c. Key Texts/Literature

The reading list to support this module is available at: https://readinglists.aru.ac.uk/

6d. Specialist Learning Resources

Online resources on Canvas

7. Learning Outcomes (threshold standards)

No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Critically evaluate the scientific evidence supporting our current understanding of a variety of major diseases, including Alzheimer's disease, obesity and cancer, among others.
2	Knowledge and Understanding	Assess the relative merits of different employability skills.
3	Intellectual, practical, affective and transferrable skills	Evaluate the advantages and limitations of the latest laboratory techniques and research studies.
4	Intellectual, practical, affective and transferrable skills	Critically analyse and communicate biomedical experimental research at both specialist and non-specialist levels.

8a. Module Occurrence to which this MDF Refers				
Year	**Occurrence**	**Period**	**Location**	**Mode of Delivery**
2026/7	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	**Hours**	**Learning Outcomes**	**Details of Duration, frequency and other comments**
Lectures	22	1-3	11 x 2hr lectures/active learning
Other teacher managed learning	14	1-4	11 x 1 hour tutorials + 3 hrs revision
Student managed learning	114	1-4	Engagement with online resources, preparation for assignments and additional reading
TOTAL:	150		

9. Assessment for the above Module Occurrence

The assessment for some modules includes a presentation (see below for details on how this particular module is assessed). We recognise that presenting, especially to a large group, can cause significant anxiety or distress for some students. If this may affect you, please contact your Module Leader or the Disability and Neurodiversity Service as early as possible. We will work with you to consider appropriate reasonable adjustments. Depending on your individual needs, these might include, for example, presenting to a smaller group or presenting only to a member of academic staff.

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Coursework	1-4	60 (%)	Fine Grade	40 (%)
Graphical Abstract 1000 words equivalent (40% Qualifying Mark as stipulated by the IBMS)					
Assessment No.	**Assessment Method**	**Learning Outcomes**	**Weighting (%)**	**Fine Grade or Pass/Fail**	**Qualifying Mark (%)**
011	Examination Cambridge	1-4	40 (%)	Fine Grade	40 (%)
Examination 1 hour (40% Qualifying Mark as stipulated by the IBMS)					

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:
(a) achieve the qualifying mark for each element of fine graded assessment as specified above
(b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]