Module Proforma

Approved, 2022.03

Summary Information

Module Code	6101BCBMOL
Formal Module Title	Advanced Structural and Functional Biochemistry
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Andrew Powell	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Francesca Giuntini	Yes	N/A
Kehinde Ross	Yes	N/A
Iain Hargreaves	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	38
Practical	6
Workshop	8

Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	To develop an advanced understanding of structural and functional aspects ofmacromolecules, particularly proteins, in biology.

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Evaluate experimental data and techniques used to investigate important aspects of the structure and function of macromolecules
MLO2	Critically appraise information regarding important aspects of the structure and function of macromolecules

Module Content

Outline Syllabus
Techniques to investigate macromolecular interactions Macromolecule bioconjugation chemistry Mechanisms in cell signalling Structure-function relationships of macromolecular interactions

Module Overview
The aim of this module is to develop an advanced understanding of structural and functional aspects of macromolecules, particularly proteins, in biology. The module provides an advanced view of aspects of the structure and function of macromolecules and relationships between the two.

Additional Information
The module provides an advanced view of aspects of the structure and function of macromolecules and relationships between the two. Mathematical procedures and chemical formulae are used but not extensively. Students will gain skills in analysing experimental data.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Data/literature analysis	40	0	MLO1
Centralised Exam	Exam	60	3	MLO2