

Liverpool John Moores University

Title: ADVANCED STRUCTURAL AND FUNCTIONAL
BIOCHEMISTRY
Status: Definitive
Code: **6101BCBMOL** (122493)
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
Andrew Powell	Y
Darren Sexton	
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Academic Level: FHEQ6 **Credit Value:** 20 **Total Delivered Hours:** 55
Total Learning Hours: 200 **Private Study:** 145

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	42
Practical	6
Workshop	4

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Data/literature analysis	40	
Exam	AS2	Exam	60	3

Aims

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

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate experimental data and techniques used to investigate important aspects of the structure and function of macromolecules
- 2 Critically appraise information regarding important aspects of the structure and function of macromolecules

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Data/literature analysis	1
Exam	2

Outline Syllabus

Techniques to investigate macromolecular interactions
Macromolecule bioconjugation chemistry
Mechanisms in innate and adaptive immunology
Mechanisms in cell signalling
Structure-function relationships of macromolecular interactions

Learning Activities

Lectures, practicals, workshops

Notes

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 by not extensively. Students will gain skills in analysing experimental data.