Integrated Approaches to Therapeutics

Module Information

2022.01, Approved

Summary Information

Module Code	5006PHASCI
Formal Module Title	Integrated Approaches to Therapeutics
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	28
Tutorial	5
Workshop	27

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To understand how the underpinning pharmaceutical science disciplines can be applied in an integrated way to develop good therapeutic strategies for treating diseases.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Apply the concepts and principles of chemistry, pharmaceutics and pharmacology to propose solutions to problems in other therapeutic topic areas
MLO2	2	Critically evaluate different methods and techniques for optimising therapeutic approaches in a given example scenario or scenarios
MLO3	3	Communicate an informed opinion/argument in support of a chosen strategy to improve or solve a therapeutic problem

Module Content

Outline Syllabus	The outline syllabus of content will include:• Integration of medicinal and pharmacological aspects of drug: receptor binding• Consideration of the problems associated with desirable pharmacological properties vs. difficult patient administration or bioavailability • The introduction of disease states, as examples of therapeutic problems• Exploring how experimental ideas might be translated to practice in order to improve therapeutic strategies
Module Overview	
Additional Information	Students will integrate knowledge learned in pre-requisite level 4 and level 5 (Semester 1) modules, and co-requisite level 5 semester 2 modules in the context of therapeutic topics not yet covered in the programme, in order to critically evaluate the appropriateness of therapeutic strategies in given scenarios or identified in the published literature. Students will also use their knowledge and skills to develop strategies to solve therapeutic problems, and form an argument to make the case for their chosen strategies drawing on known principles, published literature and available evidence to demonstrate their reasoning.Therapeutic topics areas (disease states) which have not yet been explored during the taught programme will be used to allow students to apply their knowledge, giving them the opportunity to show important skills that would be directly applicable and transferable to the workplace. In order to support students in preparing for summative assessment 1 (CW essay), students will work in small groups in the early stages of inquiry building up to the preparation of a formative poster assessment summarising their ideas and decisions. Following this (and feedback) groups will disband and each student will write an individual essay as their summative assignment, to further refine their work and demonstrate individual ability in meeting the learning outcomes.Workshops will be used to allow and support students to apply knowledge to therapeutic problems in given scenarios, promoting the development of team-working skills to design strategies for problem solving and critique of alternative approaches.Students will communicate their opinions, arguments and rationale in small groups and as individuals, both verbally and in writing, to demonstrate their ability to inform others of their ideas, decision-making and problem-solving skills.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Exam	60	2	MLO1
Artefacts	Critical evaluation essay	40	0	MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings

| Amos Fatokun | Yes | N/A |

Partner Module Team

Contact Name	Applies to all offerings	Offerings