

Module Specification

BS2013 Physiology and Pharmacology

Academic Year: 2021/2 Student Workload (hours)

Module Level: Year 2 Synchronous Lectures

Scheme: UG Synchronous Small Group Teaching 5

Department: Biological Sciences Synchronous Practical Classes/

15 Workshops/Professional Placements

Synchronous Other 8

Asynchronous Lectures/Presentations 20

Asynchronous Other 2

Guided Independent Study 113

Total Module Hours 150

Period: Semester 1

Occurence: E

Credits:

Coordinator: Martyn Mahaut-Smith

Mark Scheme: UG Module Mark Scheme

No.	Assessment Description	Weight %	Qual Mark	Exam Hours	Ass't Group	Alt Reass't
001	Lab practical reports	40				
002	End of Module Assessment	60		3		

Intended Learning Outcomes

On successful completion of the module, students should be able to:

- Describe the basic structure of the various classes of cell surface receptors, explain the intracellular signalling pathways regulated by such receptors, provide examples of receptors that possess multiple subtypes for a given hormone or neurotransmitter (agonist).
- Undertake a quantitative analysis of drug-receptor interactions and interpret the Information; describe how drugs can modify agonist-receptor interactions and be able to quantify these effects.
- Discuss the mechanisms by which drugs can modify the function of the cardiovascular system to treat disease states such as hypertension.
- Plan experiemnts and generate data via a computer-based simulation package in orer to address the sites and mechanisms of drug addition
- Handle, graph, manipulate, tabulate and analyse pharmacological data derived from experiments.
- Demonstrate a range of transferable skills including written communication, information technology, numeracy, team working, problem solving, examination technique, information handling.

Teaching and Learning Methods

Asynchronous: understanding concepts and analytical/presentation skills Synchronous: theory and concepts, analysis and presentation of data Directed reading

Assessment Methods

Practical assignments
End of module assessment

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Reviewing material reviewed in asychronous sessions, undertaking guided activites in preparation for synchronous sessions. Preparation and generation of material for practical assignments. Reading literature relevant to these topics to gain further insight into the module content.

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