PHRM30009 Drugs in Biomedical Experiments

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: one x 3 hour practicals per week plus two x 1 hour workshops per week (total contact hours: 60) Total Time Commitment: 120 hours
Prerequisites:	BSc students: **Subject** / **Study Period Commencement:** / **Credit Points:** PHRM20001 Pharmacology: How Drugs Work / Semester 2 / 12.50 OR a second year subject in one of the following disciplines: Anatomy and Cell Biology; Biochemistry and Molecular Biology; Microbiology and Immunology; Neuroscience; Pathology; Physiology; or Zoology. BBiomed students: **Subject** / **Study Period Commencement:** / **Credit Points:** BIOM20002 Integrated Human Structure and Function / Semester 2 / 25 Students wishing to undertake this subject as breadth will need the approval of the subject co-ordinator.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Coordinator:	Dr Jane Bourke, Dr Michael Lew
Contact:	Dr Jane Bourke: **jane.bourke@unimelb.edu.au (mailto:jane.bourke@unimelb.edu.au)** Dr Michael Lew: **michaell@unimelb.edu.au (mailto:michaell@unimelb.edu.au)** Administrative Coordinator: Ms Hong Nguyen
Subject Overview:	This subject is appropriate for all students interested in biomedical research. Students will learn how to design and perform experiments to investigate biological systems. Students will gain experience in a wide range of molecular and cellular approaches and in analytical techniques used in drug discovery.

Objectives:	# Students will be exposed to the experimental basis of scientific enquiry and will develop practical skills relevant to contemporary biomedical research. # Emphasis will be placed on the role of quantitative pharmacological analysis in the characterisation of biological systems, and on the design and implementation experiments.
Assessment:	Continuing assessment of practicals during the semester (40%); Mid-semester assessment (20%); A 2-hour written examination in the examination period (40%).
Prescribed Texts:	Course Manual (Provided)
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2010/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2010/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2010/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/B-MUS)** You should visit **learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html)** and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	By the end of this subject students should have developed skills in: # data analysis and interpretation; # critical thinking and problem solving; # Scientific communication; # small group work. and should have gained an appreciation of: # ethical considerations in biomedical research; # hypothesis formulation and testing.
Notes:	This subject is available to students enrolled in pre 2008 BSc, New Generation BSc, Biomedicine degree. Required equipment – lab coat Experiments involving the use of animals and animal tissues are an essential part of this subject; exemption is not possible.
Related Course(s):	Bachelor of Science Master of Science (Biotechnology)
Related Majors/Minors/ Specialisations:	Biomedical Biotechnology Biotechnology Medicinal Chemistry Pharmacology Pharmacology Pharmacology