# PHRM30009 Drugs in Biomedical Experiments

**Credit Points:** 12.5

**Level:** 3 (Undergraduate)

**Dates & Locations:**

2016, Parkville

This subject commences in the following study period/s:
Semester 1, Parkville - Taught on campus.
Semester 2, Parkville - Taught on campus.
An enrolment quota of 126 students in semester 1 and 63 students in semester 2 applies to this subject. For detailed information on the quota subject application process, refer to the Quota Subject link on the MDHS Student Centre website: http://sc.mdhs.unimelb.edu.au/quota-subjects

**Time Commitment:** Contact Hours: One x 3 hour practical per week plus two x 1 hour workshops per week (total contact hours: 60) Total Time Commitment: 170 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 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:** Not applicable

**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 Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: <a href="http://services.unimelb.edu.au/disability">http://services.unimelb.edu.au/disability</a>

**Coordinator:** Dr Christine Keenan, Dr Michael Lew

**Contact:**

Subject Coordinators

Michael Lew

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| | Christine Keenan<br>**PHRM-30009@unimelb.edu.au (mailto:PHRM-30009@unimelb.edu.au)**<br>Administrative Coordination<br>**BiomedSci-AcademicServices@unimelb.edu.au (mailto:BiomedSci-AcademicServices@unimelb.edu.au)** |
| **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. |
| **Learning Outcomes:** | # Students will be exposed to the experimental basis of scientific enquiry and will develop practical skills relevant to contemporary biomedical research.<br># Emphasis will be placed on the role of quantitative pharmacological analysis in the characterisation of biological systems, and on the design and implementation of experiments. |
| **Assessment:** | Continuing assessment of practicals during the semester (40%); Mid-semester assessment (20%); A 2-hour written examination in the examination period (40%). This is a laboratory-based subject, so attendance and participation in 80% of the practicals is a hurdle requirement. |
| **Prescribed Texts:** | Course Manual (Provided) |
| **Breadth Options:** | This subject potentially can be taken as a breadth subject component for the following courses:<br># **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2016/B-ARTS)**<br># **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2016/B-COM)**<br># **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2016/B-ENVS)**<br># **Bachelor of Music (https://handbook.unimelb.edu.au/view/2016/B-MUS)**<br>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:<br>• data analysis and interpretation;<br>• critical thinking and problem solving;<br>• scientific communication;<br>• small group work.<br>and should have gained an` appreciation of:<br>• ethical considerations in biomedical research;<br>• hypothesis formulation and testing. |
| **Notes:** | This subject is available to students enrolled in pre 2008 BSc, New Generation BSc, Biomedicine degree.<br>Required equipment – lab coat<br>Experiments involving the use of animals and animal tissues are an essential part of this subject; exemption is not possible. |
| **Related Course(s):** | Master of Biotechnology |
| **Related Majors/Minors/ Specialisations:** | Biomedical Biotechnology (specialisation of Biotechnology major)<br>Medicinal Chemistry<br>Medicinal Chemistry<br>Medicinal Chemistry<br>Medicinal Chemistry<br>Medicinal Chemistry (specialisation of Chemistry major) |

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| | Pharmacology<br>Science-credited subjects - new generation B-SCI and B-ENG.<br>Selective subjects for B-BMED |