

## BIOM30002 Biomedicine: Molecule to Malady

<b>Credit Points:</b>	12.50		
<b>Level:</b>	3 (Undergraduate)		
<b>Dates &amp; Locations:</b>	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.		
<b>Time Commitment:</b>	Contact Hours: Three x 1 hour lectures per week plus six x 1 hour tutorial per fortnight Total Time Commitment: 120 hours		
<b>Prerequisites:</b>	Prerequisites are:		
	<b>Subject</b>	<b>Study Period Commencement:</b>	<b>Credit Points:</b>
	BIOM20001 Molecular and Cellular Biomedicine	Semester 1	25
	and		
	<b>Subject</b>	<b>Study Period Commencement:</b>	<b>Credit Points:</b>
	BIOM20002 Integrated Human Structure and Function	Semester 2	25
<b>Corequisites:</b>	None		
<b>Recommended Background Knowledge:</b>	Completion of 2nd year of Bachelor of Biomedicine		
<b>Non Allowed Subjects:</b>	None		
<b>Core Participation Requirements:</b>	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: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>		
<b>Coordinator:</b>	Assoc Prof Steven Collins, Mrs Helen Cain, Prof Dick Strugnell		
<b>Contact:</b>	Prof Dick Strugnell: <a href="mailto:rastru@unimelb.edu.au">rastru@unimelb.edu.au</a> ( <a href="mailto:rastru@unimelb.edu.au">mailto:rastru@unimelb.edu.au</a> )		
<b>Subject Overview:</b>	<p>This subject provides students with an insight into how medical problems are approached in the 21st century. Students spend 5-6 hours addressing each of six "maladies", selected to demonstrate the holistic nature of medical practice and the integration of biomedical research into the development of novel diagnostics and evidence-based therapies.</p> <p>Each module includes elements of normal anatomy and physiology, the epidemiology of disease and the pathology, including any genetic, microbiological, immunological, and inflammatory processes that underpin the pathology. Finally, the public health implications of the malady are considered wherever possible.</p>		
<b>Objectives:</b>	<p>Upon completion of this unit, students should:</p> <ul style="list-style-type: none"> <li># understand that the treatment of complex diseases requires a multidisciplinary and holistic approach;</li> <li># appreciate that for many diseases, an understanding of the biological bases of the disease leads to precise diagnostic and therapeutic opportunities;</li> <li># understand the molecular, cellular and physiological bases of selected diseases;</li> <li># acquire a theoretical framework for the systematic study of complex diseases.</li> </ul>		

<b>Assessment:</b>	Intra-semester tests (60%) and 2 hr written examination in the final examination period (40%).
<b>Prescribed Texts:</b>	None. It is anticipated that students will access standard reference texts on anatomy, physiology, pathology, biochemistry & molecular biology, microbiology & immunology, pharmacology and clinical medicine. Key references and review articles will be provided via the LMS.
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	On completion of this subject, students should have developed the following generic skills: <ul style="list-style-type: none"> <li># the ability to interpret scientific literature and interpret data from electronic databases;</li> <li># the capacity to integrate knowledge across disciplines;</li> <li># the ability to comprehend a question, evaluate the relevant information and communicate an answer;</li> <li># an appreciation of the ability to communicate scientific knowledge to an informed lay audience.</li> </ul>
<b>Notes:</b>	This subject is only available to students enrolled in the Bachelor of Biomedicine.
<b>Related Course(s):</b>	Bachelor of Biomedicine