

# CEDB30002 Concepts in Cell & Developmental Biology

<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: 3 x one hour lectures per week (total contact hours: 36) Total Time Commitment: 120																		
<b>Prerequisites:</b>	<p>BSc: Any two of the following 200 level subjects:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>CEDB20003 Fundamentals of Cell Biology</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>GENE20001 Principles of Genetics</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BCMB20002 Biochemistry and Molecular Biology</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p>BBiomed:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOM20001 Molecular and Cellular Biomedicine</td> <td>Semester 1</td> <td>25</td> </tr> </tbody> </table> <p>Pre-2008 degrees: • Consult coordinator</p>	Subject	Study Period Commencement:	Credit Points:	CEDB20003 Fundamentals of Cell Biology	Semester 1	12.50	GENE20001 Principles of Genetics	Semester 1	12.50	BCMB20002 Biochemistry and Molecular Biology	Semester 1	12.50	Subject	Study Period Commencement:	Credit Points:	BIOM20001 Molecular and Cellular Biomedicine	Semester 1	25
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<b>Corequisites:</b>	None																		
<b>Recommended Background Knowledge:</b>	None																		
<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>	Dr Robb De longh																		
<b>Contact:</b>	<p><a href="mailto:r.deiongh@unimelb.edu.au">r.deiongh@unimelb.edu.au</a> (<a href="mailto:r.deiongh@unimelb.edu.au">mailto:r.deiongh@unimelb.edu.au</a>) 8344 5788 Administrator Coordinator: Ms Kim Williams <a href="mailto:anatomy-student@unimelb.edu.au">anatomy-student@unimelb.edu.au</a> 8344 5791</p>																		
<b>Subject Overview:</b>	The subject develops a student's knowledge of cell and developmental biology, introduced in second year subjects. The subject is arranged for students to gain an understanding of the approaches used to study cell biology and developmental biology and an appreciation of the major concepts involved in the development of a range of organisms – including microbes, invertebrates, vertebrates and plants. A particular focus is the range of approaches (genetic, cellular, anatomical and physiological) that are used to investigate biological systems and																		

	address current biological problems. This multi-disciplinary subject is co-taught by staff in the departments of Anatomy & Cell Biology, Botany, Genetics, and Zoology. A feature of this course is the application of this knowledge in pure and applied research and thus will provide a platform for students in many Life Science majors, including Biotechnology and Cell & Developmental Biology majors.
<b>Objectives:</b>	In completing this subject, students should: <ul style="list-style-type: none"> <li># Gain knowledge and understanding of current concepts in cell and developmental biology.</li> <li># Familiarity with the genetic, molecular and cellular techniques used to investigate developmental and cell biology processes in various organisms.</li> <li># Gain an appreciation of how research in cell and developmental biology impacts on society.</li> </ul>
<b>Assessment:</b>	Three 40 minute multiple choice tests (10% each) in early, mid and late semester; One written report (1200 words; 10%) due towards the end of semester; Final 2 hour written examination (60%) in end of semester exam period.
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	<ul style="list-style-type: none"> <li>• B Alberts, A Johnson, J Lewis, M Raff, K Roberts &amp; P Walter, Molecular Biology of the Cell, Latest edition, Garland Science.</li> <li>• Wolpert L. Principles of Development, Latest edition, Oxford University Press.</li> </ul>
<b>Breadth Options:</b>	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Arts</b> (<a href="https://handbook.unimelb.edu.au/view/2010/B-ARTS">https://handbook.unimelb.edu.au/view/2010/B-ARTS</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2010/B-COM">https://handbook.unimelb.edu.au/view/2010/B-COM</a>)</li> <li># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2010/B-ENVS">https://handbook.unimelb.edu.au/view/2010/B-ENVS</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2010/B-MUS">https://handbook.unimelb.edu.au/view/2010/B-MUS</a>)</li> </ul> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
<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>	In completing this subject, students should have: <ul style="list-style-type: none"> <li># Ability to interpret scientific literature.</li> <li># Capacity to integrate knowledge across several disciplines.</li> <li># Appreciated the usefulness of basic research for understanding and solving current biological problems.</li> <li># Ability to critically analyse scientific data.</li> </ul>
<b>Notes:</b>	This subject is available to students enrolled in the New Generation B.Sc, B.Biomedicine; pre-2008 BSc, BASc, BBioMed Sc.
<b>Related Course(s):</b>	Bachelor of Biomedical Science Bachelor of Science
<b>Related Majors/Minors/Specialisations:</b>	Animal Cell Biology Biotechnology Biotechnology Botany Cell Biology Cell and Developmental Biology Genetics Genetics Genetics Molecular Biotechnology Plant Cell Biology and Development Reproduction and Development Reproduction and Development