

526-324 Immunological Techniques

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: April, - Taught on campus.
Time Commitment:	Contact Hours: 54 hours of practical work and 12 hours of lectures in the last six weeks of semester only Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	526-304 Principles of Immunology
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. This subject requires all students to actively and safely participate in laboratory activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit.
Coordinator:	Assoc Prof Andrew Geoffrey Brooks, Assoc Prof Stephen John Turner
Subject Overview:	<p>The subject provides an overview of immunological methods, including preparation, characterisation, separation and assay of lymphocyte populations; characterisation, separation and assay of antigens and immunoglobulins; assay of the immune response to infection; and detection of normal and abnormal antigens in tissues.</p> <p>By the end of the subject students should have developed:</p> <ul style="list-style-type: none"> # skills in the in-vitro manipulation and quantification of cells belonging to the immune system; # skills in the measurement of cell function; # skills in separation, detection and quantification of immuno-globulins and antigens; and # an understanding of the basis of the serological diagnosis of disease. <p>Students should have an enhanced understanding of the experimental basis of our knowledge of the immune response. They should understand the role of controls in interpretation of experiments. They should appreciate the necessity to keep clear laboratory notes as experiments progress.</p>
Assessment:	Attendance at practical classes is compulsory. Students must attend at least 80% of the laboratory-based component to be considered for assessment. Weekly written reports of completed laboratory work totalling up to 3000 words (50%); a 2-hour practical examination during the semester (50%). Satisfactory completion of the laboratory work, written reports and the practical examination is necessary to pass the subject.
Prescribed Texts:	None
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Students should be able to work together as a group, develop the ability to design a simple experimental protocol, to keep a clear record of results generated and to report the outcome

	of their experiments clearly and concisely. Students should be able to critically interpret and evaluate experimental data, and apply their knowledge to other problems.
Notes:	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject. This subject is likely to be quota-restricted this year.
Related Course(s):	Bachelor of Biomedical Science Graduate Diploma in Biotechnology
Related Majors/Minors/ Specialisations:	Biotechnology Immunology