

Module Title:	Immunology
Academic year:	2009 2010
Credit Value:	5
Pre- requisites:	Protein Biology, Nutritional Biology, The Living Cell
Assessment:	Term Exams (50%) Laboratory Reports and Exam (35%) Mid-Term Continuous Assessment tests (CAs) (15%).
Aims	<p>This module aims to provide the student with :</p> <ul style="list-style-type: none"> ▪ A knowledge of immunology including immune responses, T - and B-cells, antibody structure and the role of the immune system in disease. ▪ A knowledge of the use of antibodies as analytical tools. ▪ The principles of cell culture methods including cell viability assays, bioassays and hybridoma technology. ▪ Culture cells practical skills to use cells for bioassays and toxicity testing, purify antibody preparations; carryout a simple ELISA
Module Content	<p>Basic Immunology Cell Culture and Antibody Production Immunochemistry Bioassays</p>

<p>Intended Learning Outcomes: (September 2007)</p>	<p>At the end of this module the student will be able to:</p> <ul style="list-style-type: none">▪ Demonstrate a basic knowledge of the immune system▪ Immunochemical methods, cell culture methods and bioassays.▪ Culture mammalian cells <i>in vitro</i>, carry out bioassays▪ Perform ELISAs▪ Explain the rationale for and be able to purify antibody preparations. <p>A practical course will be designed and developed to support and reflect the aims and learning outcomes of this module.</p>
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