

朝陽科技大學 099學年度第2學期教學大綱
Immunology 免疫學

當期課號	7246	Course Number	7246
授課教師	廖雅芳	Instructor	LIAO, YA FAN
中文課名	免疫學	Course Name	Immunology
開課單位	生化科技研究所碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	免疫學基本概念之介紹及探討免疫學技術在生物技術產業之應用。	Objectives	To introduce the basic concept of immunology and to study the application of immunological techniques in biotechnology.
教材	Immunobiology. 7th ed. Janeway, Charles A.; Travers, Paul; Walport, Mark; Shlomchik, Mark. Garland Publishing; 2008.	Teaching Materials	Immunobiology. 7th ed. Janeway, Charles A.; Travers, Paul; Walport, Mark; Shlomchik, Mark. Garland Publishing; 2008.
成績評量方式	上課參與率20% 作業20% 期中考30% 期末考30%	Grading	Class Participation 20% of grade Homework 20% of grade Mid-term exam 30% of grade Final exam 30% of grade
教師網頁	-		
教學內容	<ol style="list-style-type: none"> 1. 免疫系統的基本介紹 <ol style="list-style-type: none"> A. 先天性免疫與應變性免疫 B. 參與免疫反應的細胞 C. 淋巴系統 2. 參與辨識抗原的分子 <ol style="list-style-type: none"> A. 抗體 B. 主要組織相容性複合體系統 C. T細胞接受器 D. 淋巴球的活化 3. 免疫反應的調節分子 <ol style="list-style-type: none"> A. 補體 B. 細胞激素 4. 免疫系統相關的疾病 5. 免疫學的應用 <ol style="list-style-type: none"> A. 單株抗體的產生 B. 免疫分析法 C. 細胞分離 D. 疫苗 	Syllabus	<ol style="list-style-type: none"> 1. Basic concepts in immune system <ol style="list-style-type: none"> A. Innate immunity and adaptive immunity B. Cells of the immune system C. Lymphatic system 2. Molecules for antigen recognition <ol style="list-style-type: none"> A. Antibody B. Major histocompatibility complex (MHC) system C. T cell receptor (TCR) D. Lymphocyte activation 3. Regulatory molecules of immune response <ol style="list-style-type: none"> A. Complement B. Cytokines 4. Relative diseases of immune system 5. Application of immunology <ol style="list-style-type: none"> A. Monoclonal antibody production B. Immunoassay C. Cell isolation D. Vaccine

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