

朝陽科技大學 099學年度第1學期教學大綱
Bioindustry 生物技術產業

當期課號	7277	Course Number	7277
授課教師	張清安	Instructor	CHANG,CHIN AN
中文課名	生物技術產業	Course Name	Bioindustry
開課單位	生化科技研究所碩士班一A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	無特定病原種苗在現代農業上之重要性與應用實例介紹；水稻特殊突變庫之建立及其在後基因體時代之應用潛力；台灣農業生物技術之發展與應用；癌症與基因治療；真菌類免疫調節蛋白；基轉植物之安全性評估；微生物農藥概論生技產品效能及安全評估技術概論；免疫學在生物技術產業。	Objectives	The importance and application of specific pathogen free seedling propagation to modern agriculture. The development of a novel mutation pool of rice TNG67 variety and its application in the post-genomic-era. The Development and application of agricultural biotechnology.
教材	教師自編教材	Teaching Materials	The teachers own material
成績評量方式	期中考 40% 期末考 40% 出席 20%	Grading	midterm: 40% final exam: 40% and class attendance: 20%
教師網頁	-		
教學內容	無特定病原種苗在現代農業上之重要性與應用 微生物農藥概論 免疫學在生物技術產業之應用 基因重組技術在醫藥生物技術產業之應用 費洛蒙之研發及其在植物保護之應用 (3hr), 抗癌藥物與基因治療之研發 生物資訊學在生物技術產業之應用及發展 抗除草劑基改作物之特性及檢測 生技產品效能及安全評估技術概論 醫學檢驗的未來發展趨勢	Syllabus	Importance and application of SPF pathogenic Application of recombinant DNA techniques in pharmaceutical and biotech industry Development of gene therapy and anti-cancer drugs Application and development of bioinformatics in biotech industry Study and diagnosis of transgenic crops functional genomic study of agricultural crops mid term application of immunology in biotechnology industry development and application in plant protection of pheromone safety evaluation of transgenic plants introduction to efficacy of biotechnology product and safety evaluation techniques Trends of medical diagnostics Introduction to microbiological insecticides Research and application of plant viral vectors Application of bioprocess engineering in biotech industry Final term

尊重智慧財產權，請勿非法影印。