

朝陽科技大學 095學年度第2學期教學大綱
Special Topics of Biopesticides 生物農藥特論

當期課號	7230	Course Number	7230
授課教師	袁秋英	Instructor	Yuan, Chiou Ing
中文課名	生物農藥特論	Course Name	Special Topics of Biopesticides
開課單位	生物技術研究所碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標		Objectives	
教材	1.微生物農藥 2.生物防治介紹 3.天然活性化合物 4.生化性生物農藥 5.生物技術期刊	Teaching Materials	1. Opende Koul, G. S Dhaliwal, 2001. Microbial Biopesticides. CRC Press. 2. Ann Hajek 2003. Natural Enemies - An Introduction to Biological Control. Cambridge University Press. 3. Mahendra Rai and Maria Carpinella Elsevier 2006. Naturally Occurring Bioactive Compounds. 4. Opende Koul, G. S Dhaliwal 2000. Phytochemical Biopesticides CRC Press. 5. biotechnology Journal
成績評量方式	短篇:35%, 期中考:30%, 期末考:40%	Grading	Short article:30%, mid-term exam:30%, final exam:40%
教師網頁	-		
教學內容	1.前言 2.作物的有害生物之生物防治及生技防治 3.植物及微生物之間的分子生物學 4.生化農藥 5.植物性農藥 6.細菌性殺蟲劑 7.蘇力菌轉基因作物 8.生物性殺菌劑 9.生物性除草劑 10.生物性農藥之製造及製劑 11.生物性農藥之利益及環境風險	Syllabus	1. Introduction 2. Biological and biotechnological control of crop pests 3. Biology of molecular plant-microbe interactions 4. Biochemical pesticide 5. Biopesticides of plant origin 6. Bacterial insecticides 7. Genetically modified Bt crops 8. Biofungicides 9. Bioherbicides 10. Manual and formulation of biopesticides 11. Benefits and environmental risk of biopesticides

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