朝陽科技大學 096學年度第1學期教學大綱
Special Topics of Biopesticides 生物農藥特論

當期課號	7703	Course Number	7703
授課教師	高穗生	Instructor	SUEY,SHENG KAO
中文課名	生物農藥特論	Course Name	Special Topics of Biopesticides
開課單位	應用化學系碩士在職專班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	生物農藥與傳統化學藥劑有明顯的不同。因生物農藥具有無毒性的作用機制，標的的特異性，和在環境中能被生物所生產。因此，生物農藥對環境衝擊低，抗藥性產生的風險少，開發費用低且容易註冊，故其優點較化學農藥爲多。包括了：一、微生物農藥(microbial pesticide) 。二、生化農藥(biochemical pesticide)。三、植物生產之農藥(plant-produced pesticide)。又，依防治目標亦可將之區分爲生物殺蟲劑(bioinsecticides)，生物殺菌劑(biofunficides)和生物殺草劑(bioherbicides)。本課程將深入討論生物農藥之研發和應用。	Objectives	Biopesticides are distinguished from conventional chemical pesticides by their nontoxic mode of action, target specificity, and the fact that they either can be or are produced by living organisms in the environment. Therefore, biopesticides have advantages over chemical pesticides including:low environmental impact, reduced risk of resistance, low development costs and ease of registration. Biopesticides include the following: microbial pesticides, biochemical pesticides and plant produced posticides. They can also be categorized into: bioinsecticides biofungicides and bioherbicides. In this course, I'd like to discuss with you about the research, development and application of biopesticides in details.
教材	投影片、幻燈片、光碟及錄影帶教學	Teaching Materials	Viedo-tape, overhead, slide and disk show
成績評量方式	口頭心得報告及繳交期末報告	Grading	Oral presentation and term paper
教師網頁	_		
教學內容	生物農藥與傳統化學藥劑有明顯的不同。因生物農藥具有無毒性的作用機制，標的的特異性，和在環境中能被生物所生產。因此，生物農藥對環境衝擊低，抗藥性產生的風險少，開發費用低且容易註冊，故其優點較化學農藥爲多。包括了：一、微生物農藥(microbial pesticide) 。二、生化農藥(biochemical pesticide)。三、植物生產之農藥(plant-produced pesticide)。又，依防治目標亦可將之區分爲生物殺蟲劑(bioinsecticides)，生物殺菌劑(biofunficides)和生物殺草劑(bioherbicides)。本課程將深入討論生物農藥之研發和應用。	Syllabus	Biopesticides are distinguished from conventional chemical pesticides by their nontoxic mode of action, target specificity, and the fact that they either can be or are produced by living organisms in the environment. Therefore, biopesticides have advantages over chemical pesticides including:low environmental impact, reduced risk of resistance, low development costs and ease of registration. Biopesticides include the following: microbial pesticides, biochemical pesticides and plant produced posticides. They can also be categorized into: bioinsecticides biofungicides and bioherbicides. In this course, I'd like to discuss with you about the research, development and application of biopesticides in details.

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