

朝陽科技大學 093學年度第1學期教學大綱
Special Topics of Biopesticides 生物農藥特論

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| 當期課號 | 7684 | Course Number | 7684 |
| 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 | <p>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為多。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為生物殺蟲劑(bioinsecticides)，生物殺菌劑(biofungicides)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。</p> | Objectives | <p>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.</p> <p>Biopesticides include the following: microbial pesticides, biochemical pesticides and plant produced pesticides. 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.</p> |
| 教材 | | Teaching Materials | |
| 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 | <p>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為多。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為生物殺蟲劑(bioinsecticides)，生物殺菌劑(biofungicides)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。</p> | Syllabus | <p>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.</p> <p>Biopesticides include the following: microbial pesticides, biochemical pesticides and plant produced pesticides. 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.</p> |

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