

國立中正大學 課程大綱

課程名稱(中文)：	生命科學實驗三
先修科目或 先備能力：	
課程概述：	微生物及細胞相關實驗操作，螢光及共軛焦顯微鏡使用
學習目標：	
教科書：	

教學要點概述：

1. 教材編選：自編教材

2. 教學方法：投影片講述 板書講述

3. 評量方法：上課點名 25%，作業 25%，期中考及期末考 50%

4. 教學資源：

5. 教學相關配合事項：

課程進度：

week 1	Introduction
week 2	Bacteria - culturing and plating
week 3	Transformation - plasmid delivery
week 4	Bacteriophage - plaque assay
week 5	Environmental Microbiology
week 6	Chemical resistance of bacteria
week 7	Food Microbiology
week 8	Yeast two-hybrid screening - transformation
week 9	Midterm exam
week 10	Yeast two-hybrid screening - assay
week 12	Mammalian cell culturing
week 13	Transfection - liposome based DNA delivery
week 14	Immunostaining
week 15	Fluorescent microscopy - observation and imaging
week 16	Confocal microscopy - observation and imaging
week 17	Confocal microscopy - observation and imaging
week 18	Final exam