

97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	動物細胞培養與實驗	Serial No. / ID	0518 / MBI3010
Dept.	分子生物科技學系	School System / Class	大學日間部3年1班
Lecturer	李泰林	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(一)2 / J505 (一)34 / J505	Language	Chinese

Introduction
The animal cell culture is to teach student to handle a cell line and introduce recombinat genes into cell. As a result, student can establish technic ability in their career and further study.

Outline
<ol style="list-style-type: none"> 1. Introduce the animal cell culture facilities and medium preparation 2. Contamination preventing 3. Differentiation 4. Subculture: detach the 293T cells by trypsin 5. Tumorigenesis assay by soft agar 6. Mycoplasma dentification 7. Determiration of cell cytotoxicity by MTT test 8. Cell freezing and cell thawing 9. Middle-term examination 10. Genomic DNA isolation 11. RNA isolation 12. Maxi plasmid preparation 13. Introduce Plasmid DNA into mammalian cells: Ca phosphate precipitation 14. Introduce Plasmid DNA into mammalian cells: PEI trasfection 15. Heterologus gene expression: SDS-PAGE 16. Heterologus gene expression: Western blotting 17. Heterologus gene expression: reporter gene assay 18. Final examination

Prerequisite
Biology