

102-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	動物細胞培養與實驗	Serial No. / ID	2235 / 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)567 / J519	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 preparation2. Contamination preventing3. Differentiation4. Subculture: detach the 293T cells by trypsin5. Tumorigenesis assay by soft agar6. Mycoplasma dentification7. Determiration of cell cytotoxicity by MTT test8. Cell freezing and cell thawing9. Middle-term examination10. Genomic DNA isolation11. RNA isolation12. Maxi plasmid preparation13. Introduce Plasmid DNA into mammalian cells: Ca phosphate precipitation14. Introduce Plasmid DNA into mammalian cells: PEI trasfection15. Heterologus gene expression: SDS-PAGE16. Heterologus gene expression: Western blotting17. Heterologus gene expression: reporter gene assay18. Final examination

Prerequisite
Biology