

## 99-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	動物細胞培養與實驗	Serial No. / ID	0844 / 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)234 / 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"> <li>1. Introduce the animal cell culture facilities and medium preparation</li> <li>2. Contamination preventing</li> <li>3. Differentiation</li> <li>4. Subculture: detach the 293T cells by trypsin</li> <li>5. Tumorigenesis assay by soft agar</li> <li>6. Mycoplasma dentification</li> <li>7. Determiration of cell cytotoxicity by MTT test</li> <li>8. Cell freezing and cell thawing</li> <li>9. Middle-term examination</li> <li>10. Genomic DNA isolation</li> <li>11. RNA isolation</li> <li>12. Maxi plasmid preparation</li> <li>13. Introduce Plasmid DNA into mammalian cells: Ca phosphate precipitation</li> <li>14. Introduce Plasmid DNA into mammalian cells: PEI trasfection</li> <li>15. Heterologus gene expression: SDS-PAGE</li> <li>16. Heterologus gene expression: Western blotting</li> <li>17. Heterologus gene expression: reporter gene assay</li> <li>18. Final examination</li> </ol>

Prerequisite
Biology