

101-2 Preliminary Syllabus, Da-Yeh Univ

| Information | | | |
|-------------------|----------------|-----------------------|----------------|
| Title | 藥用植物組織培養與實習 | Serial No. / ID | 0512 / MHI3017 |
| Dept. | 藥用植物與保健學系 | School System / Class | 大學日間部3年1班 |
| Lecturer | 何偉真 | Full or Part-time | 專任 |
| Required / Credit | Optinal / 3 | Graduate Class | No |
| Time / Place | (一)5678 / N218 | Language | Chinese |

| Introduction |
|--|
| <p>Plant tissue culture is a widely applied collection of techniques which have been used in plant propagation, breeding, healthy plantlet production, and plant physiological, pathological as well as genetical researches, etc..</p> <p>This course is designed to let students learn fundamental theories and applications of plant tissue cultures techniques including plant organ, tissue and protoplast culture technique, organogenesis/embryogenesis in culture systems. The applications in plant propagation, virus-free plant production, monoploid breeding, mutation breeding, somatic hybridization, production of secondary metabolites and genetic engineering are also mentioned.</p> |

| Outline |
|---|
| <p>W1 Introduction of plant tissue culture(PTC) and lab safty</p> <p>W2 PTC culture room design</p> <p>W3 PTC materials and lab procedures</p> <p>W4 PTC media preparation</p> <p>W5 Aseptic culture technique</p> <p>W6 Callus induction</p> <p>W7 Shoot tip culture</p> <p>W8 Vegetative propagation (1)</p> <p>W9 Vegetative propagation (2)</p> <p>W10 Cell suspension culture</p> <p>W11 Plant hardening for in vitro plants</p> <p>W12 Leaf culture</p> <p>W13 Embryo culture</p> <p>W14 Visiting</p> <p>W15 Student report</p> <p>W16 Student report</p> <p>W17 Home work turn in</p> <p>W18 Final examination</p> |

| Prerequisite |
|--------------|
|--------------|

