

102-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	藥用植物組織培養與實習	Serial No. / ID	0589 / 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

