

National Chiayi University Syllabus
Graduate Institute of Agriculture, Spring Semester,
Academic Year 2010

Course: Special Topics on Plant Molecular Breeding	Credit: 2	Hours: 2
Class: ph.D Program	<input type="checkbox"/> Required, <input checked="" type="checkbox"/> Elective	
Instructor: Wen-Lii Huang	E-mail: wlhuang@mail.ncyu.edu.tw	
Office: A04A-404	Office Hours: W1,7-8;W5,5-6	

I. Course Description:

Plant molecular breeding is one of the most important issues in plant biology. It including transgenic plant, marker-assisted selection, and molecular design breeding. This class will introduce the basic knowledge and application of plant molecular breeding. Especially focusing on newly tendency and topics reading and discussion for crop breeding.

II. Teaching Objectives:

This class will provide the basic knowledge and application of plant molecular breeding to students by teaching and paper reading. Besides, we focus on the training of discussion and oral presentation.

III. Class Schedule(Wednesday, 10:00-12:00 AM)

Week	Date	Topic/Activity	Reading/Assignment
1		Introduction	
2		Definition of Plant Molecular Breeding	
3		Plant Transformation	
4		Classes and Application of Molecular Markers I	
5		Classes and Application of Molecular Markers I	
6		Molecular Markers-assisted Selection for Breeding I	
7		Molecular Markers-assisted Selection for Breeding II	
8		Molecular Design Breeding	
9		Exam. 1	
10		Paper Reading I	
11		Paper Reading II	
12		Paper Reading III	
13		Paper Reading IV	

14	Paper Reading V
15	Final Presentation
16	Final Presentation
17	Final Presentation
18	Final Presentation

IV. Evaluation :

Paper Reading 50%

Final Presentation 50%

V. References :

The Journal related to plant molecular biology and biotechnology.

Single space 、 Times New Roman 、 12 pt.