

國立清華大學 106 學年第 2 學期新開課程課程大綱

科號	10620LSBS545100	組別		學分	1	人數限制	須與老師討論 後加簽選課
修課年級	大二以上						
上課時間	Ta	教室	生二 207				
科目中文名稱	阿拉伯芥模式生物研究特論						
科目英文名稱	Special Topics on Arabidopsis Research						
任課教師	劉姿吟						
擋修科目				擋修分數			

一、課程說明	<p>1. To help students to understand anatomical structures, cellular activities, and life processes of Arabidopsis based on their complete life cycle from germination to senescence.</p> <p>2. To provide students a framework of molecular plant life to pursue advanced study in Arabidopsis physiology.</p>
二、指定用書	The Arabidopsis Book (2002). e-ISSN:1543-8120 http://www.bioone.org/loi/arbo.j
三、參考書籍	Russell Jones, Helen Ougham, Howard Thomas and Susan Waaland (2012) The Molecular Life of Plants. American Society of Plant Biologists & Wiley-Blackwell
四、教學方式	<p>1.採互動式教學:學生需要課前預習以及在課堂上參與討論</p> <p>2.選出特定主題中最新的研究文獻,分別在期中和期末進行口頭報告</p>
五、教學進度	<ol style="list-style-type: none"> 1. The Arabidopsis Cell Division Cycle (I) 2. The Arabidopsis Cell Division Cycle (II) 3. A Molecular Portrait of Arabidopsis Meiosis (I) 4. A Molecular Portrait of Arabidopsis Meiosis (II) 5. Leaf Development (I) 6. Leaf Development (II) 7. Root Development
	Mid-term oral presentation

	8. Fruit development (I) 9. Fruit development (II) 10. Phosphate Transport and Homeostasis in Arabidopsis (I) 11. Phosphate Transport and Homeostasis in Arabidopsis (II) 12. Genetic and Epigenetic Mechanisms Underlying Vernalization (I) 13. Genetic and Epigenetic Mechanisms Underlying Vernalization (II)
	Final oral presentation
六、成績考核	In-class discussion: 30% Mid-term oral presentation: 35% Final oral presentation: 35%
七、講義位址 http://	