

國立清華大學 97 學年第 2 學期課程大綱

科號	General&Applied Biology	組別	一般及應 用生物組	學分	2	人數限制	10
修課年級	<input type="checkbox"/> 大學部 年級以上 <input checked="" type="checkbox"/> 碩士班一年級以上(含博士班) <input type="checkbox"/> 碩士班二年級以上(含博士班)						
課程內容	<input checked="" type="checkbox"/> 普通生物 <input checked="" type="checkbox"/> 細胞生物 <input type="checkbox"/> 生物化學 <input type="checkbox"/> 分子生物 <input type="checkbox"/> 物理生化 <input type="checkbox"/> 結構生物 <input checked="" type="checkbox"/> 醫學相關						
上課時間	W3&W4			教室			
科目中文名稱	09720LSSN524200神經傳導物與行為分析特論						
科目英文名稱	Neurotransmitters and physiology of behaviors						
任課教師	張慧雲						
擋修科目				擋修分數			

※下列各欄由任課教師提供※

一、課程說明	This course aims to assist students to understand the neurochemistry of animal brains and the diversity of animal behaviors.
二、指定用書	The instructor will prepare handouts for students. There is no assigned textbook. However, we encourage students to familiar with the following books to apply their knowledge into research
三、參考書籍	Short Protocols in Neuroscience: Systems and behavioral Methods 2007 by Crawley Neuroanatomy and related Neuroscience 4/e by FitzGerald et al., 2007 圖解臨床神經解剖及神經科學 簡基憲等 Neuroscience (4/e) by Purves D. et al., 2008 The biochemical Basis of Neuropharmacology (7/e) by Cooper J et al., 2003 神經生物 by 壽天德 & 郭重雄 2003 Journals of nature, nature clones, neuron &
四、教學方式	Lectures + discussion + lab demonstration
五、教學進度	Week 1: Introduction Week 2: Analysis of Animal behaviors (I) Week 3: Analysis of Animal behaviors (II) Week 4: Early brain development (I) Week 5: Early brain development (II) Week 6: Neurotransmitters, transporters and their receptors (I) Week 7: Neurotransmitters, transporters and their receptors (II)

	Week 8: Short protocols in neuroscience Week 9: Construction of neural circuits (I) Week 10: Construction of neuronal circuits (II) Week 11: Analysis of Emotion (I) Week 12: Analysis of Emotion (II) Week 13: From Genes to social behavior (I) Week 14: From Genes to social behavior (II) Week 15: Cognition (I) Week 16: Cognition (II) Week 17: Discussion and closing plus final examination
六、成績考核	40% examinations + 30 % written reports + 20 % oral reports + 10% experimental studies
七、講義位址 http://	Construction