國立清華大學_99_學年第_1_學期課程大綱

科號	09920LSSN510900	組別	一般及應用生物組	學分	2	人數限制	8
修課年級	□大學部　　年級以上 ■ 碩士班一年級以上(含博士班) □ 碩士班二年級以上(含博士班)						
課程內容	■普通生物 ■細胞生物 □生物化學 □分子生物 □物理生化 □結構生物 ■醫學相關						
上課時間	F5&F6			教室	生二 107		
科目中文名稱	09920LSSN510900; 神經傳導與精神分析特論						
科目英文名稱	Neurotransmitters and physiology of behaviors						
任課教師	張慧雲						
擋修科目	N/A			擋修分數	N/A		

※下列各欄由任課教師提供※

一、課程說明	This course aims to assist graduate 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 Physiology of Behavior by Neil R. Carlson, 2007. Neuroanatomy and related Neuroscience 4/e by FitzGerald et al., 2007 圖解臨床神經解及神經科學 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 Principles of Neural Science by Eric Kandal, James H. Schwartz Thomas M. Jessell 神經生物 by 壽天德 & 郭重雄 2003 Journals of nature, nature clones, neuron & many others
四、教學方式	Lectures + discussion + lab demonstration
五、教學進度	Week 2: Introduction Week 3:Nerve cells and animal behaviors (I) Week 4: Nerve cells and animal behaviors (II) Week 5: Motor systems of the brain (I)

	Week 6:Motor systems of the brain (II) Week 7: Sensory systems of the brains (I) Week 8: Sensory systems of the brains (II) Week 9: Short protocols in neuroscience Week 10: Short protocols in visualization of neural activities Week 11: Synaptic transmission Week 12: Receptors and transporters Week 13: Normal and Abnormal of aging brain (I) Week 14: Normal and Abnormal of aging brain (II) Week 15: Cognition (I): Disorders of thought Week 16: Cognition (II): Disorders of mood
六、成績考核	40% examinations + 30 % written reports＋20 % oral reports＋ 10% experimental studies
七、講義位址 http://	Construction