

<p><b>尊重智慧財產權，請使用正版教科書，不得非法影印。</b></p> <p>使用逾期或，未取得合法授權之教材或將試用版教材以公開傳輸利用者，皆屬侵害他人著作權，將處刑責、拘役及罰金，請勿以身試法。</p>	
學期	1121
開課單位	生命科學系
流水號	24046
課號	LS6117-*
授課教師	黃佳瑜
課程名稱(中文)	專題研究: 社會行為之神經生物學
課程名稱(英文)	Special Topics: Neurobiology of social behavior
課程學制	碩博同修
學分	3
課程目標	<p>This course, a 3 credits course, aims to discuss the neurobiology of social behavior. To better understanding the newest and advanced theory and neural circuit of various aspects of social behaviors, this course will be set as seminar through highly active discussion on high-impact publication. Student will be required to present three times throughout the course. The presentation is also a good training for student in public speaking. A good presentation does not only rely on scientific knowledge, also an excellent presentation skill. How to convey an informative but simplest science idea and/or result to both lay people and professional experts is challenge. Each presentation, student will get feedback on their science as well as overall presentation including presentation skills, power point organization. At the end of the semester, student will have deep understanding on neuropathology of neuropsychiatric disorder, also be confident to speak their research in public.</p>

授課內容	<p>Week Topic</p> <p>1 Introduction of social behavior</p> <p>2 Social hierarchy</p> <p>3 Social tube test</p> <p>4 Empathy behavior</p> <p>5 Social transfer of fear/pain</p> <p>6 Social interaction</p> <p>7 Three chamber social interaction</p> <p>8 Direct social interaction</p> <p>9 Mid-term exam (no class)</p> <p>10 Application of optogenetic on social behavior</p> <p>11 The effect of chronic unpredictable stress on social behavior</p> <p>12 The effect of early life stress on social behavior</p> <p>13 Neural circuit of social behavior: Prefrontal cortex</p> <p>14 Neural circuit of social behavior: Amygdala</p> <p>15 Neural circuit of social behavior: Anterior cingulate cortex</p> <p>16 Social behavior and Borderline personality disorder</p> <p>17 Social behavior and Autism</p> <p>18 Discussion</p>
教科書/參考書	<p>1. Journal: Nature, Science, Nature Neuroscience, Nature Communication, Neuron, Cell, PNAS, Biological Psychiatry, Neuropsychopharmacology</p> <p>2. Principles of Neural Science by Eric Kandel</p> <p>3. Fundamental Neuroscience by Larry Squire</p>
自編教材比例	100
授課方式	研討
評量配分比重	Presentation I 40% Presentation II 40% Discussion 20% Participation 20% Total 100%
辦公時間	Wednesday 14:00-15:00
授課週數	18
彈性教學說明	
課程領域	進階學科 、 神經生物

系所核心能力	強度指數	評量方式
高等生物專業知識	(5) 非常高	口頭報告/口試，出席/課堂表現
創新及整合研究	(5) 非常高	口頭報告/口試，出席/課堂表現
專業寫作與表達	(5) 非常高	口頭報告/口試，出席/課堂表現
國際觀	(5) 非常高	口頭報告/口試