

國立清華大學 103 學年第 1 學期課程大綱

科號	10310LSSN5 90100	組別		學分	1	人數限制	12
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)						
上課時間	T5			教室	生二 119		
科目中文名稱	書報討論						
科目英文名稱	Seminar						
任課教師	張慧雲 (Hui-Yun Chang, Ph.D.)						
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	<p>This course aims to assist graduate students to understand and acquire the speaking and presenting skills and logic of papers, and learn about the diversity of topics in neuroscience, build up the presentation confidence and several others.</p>
二、指定用書	<p>The instructor will prepare handouts for students. There is no assigned textbook. However, we encourage graduate students to become familiar not only with the topic of the presented paper but also building up the long-term potentiation on how to apply the knowledge for graduate research, studies and others.</p>
三、參考書籍	<ol style="list-style-type: none"> 1. Advice to a young scientist by P.B. Medawar, 1979. 2. Invitation to public speaking by Griffin C.L., 2004. 3. Neuroscience (4th edition) by Dale Purves, George J. Augustine, David Fitzpatrick, William C. Hall, Anthony-Samuel LaMantia, James O. McNamara, and Leonard E. White, 2008 4. 如何撰寫及發表科學論文: Robert A. Day 原著. 丘志威·吳定峰·楊鈞雍·陳炳輝 編譯. 5. Online Journals of: cell; neuron; nature; science; nature neuroscience ; Journal of neuroscience ; brain research ; behavioural brain research, frontiers of neuroscience and many others

四、教學方式	Paper Presentation
五、教學進度	<p>Week 1 (9/16): <i>Introduction</i> 張慧雲: Introduction of graduate students, assigned papers, guidance of paper presentation and report writing, grading, and many others.</p> <p>(I) Week 2 & 3 (9/23; 9/30): Nerve cells, brain function and animal behavior. 黃伊駿: The familial parkinsonism gene LRRK2 regulates neurite process morphology. Macleod D. et al., 2006. Neuron 22: 587-593. 魏郁珊: Optogenetic Interrogation of Dopaminergic Modulation of the Multiple Phases of Reward-Seeking Behavior. Adamantidis AR et a., 2011. Journal of Neuroscience 31: 10829-10835.</p> <p>(II) Week 4 & 5 (10/7, 10/14): Neuronal circuits and analysis of neuronal circuits 李崇豪: Corticospinal motor neurons and related subcerebral projection neurons undergo early and specific neurodegeneration in hSOD1^{G93A} transgenic ALS mice. Ozdinler PH et al., 2011. Journal of Neuroscience 31: 4166-4177. 楊雅琳: Twin-spot MARCM to reveal the developmental origin and identity of neurons. Yu, H.-H. et. al., 2009. Nature neuroscience. 12: 947-953.</p> <p>(III) Week 6 & 7 (10/21, 10/28): Sensory and perception 董周強: A novel multigene family may encode odorant receptors: a molecular basis for odor recognition. Buck L and Axel R. 1991. Cell 65: 175-187. 楊明鎧: Face perception: domain specific, not process. Yovel G and Kanwisher N, 2004. Neuron 44: 889-898. 薛雅文: Autism and brain development. Walsh CA et al., 2008. Cell 135:396-400.</p> <p>(IV) Week 8 & 9 (11/4, 11/11): Understanding of Cognition 王立旻: A polygenic burden of rare disruptive mutations in schizophrenia. 2014. Nature 506:185-190. 吳志龍: The intersection of amyloid beta and tau at synapses in Alzheimer's disease. Spires-Jones T. and Hyman B.T. 2014. Neuron 82: 756-771.</p> <p>Week 10 & 11 (11/18, 11/25): Systems of neuroscience and education 林冠宇: Purging of memories from conscious awareness tracked in the human brain. Levy BJ and Anderson MC. 2012. 32:16785-16794.</p>

	<p>洪莉鈞: Comparison of the effects of unilateral and bilateral eye closure on cortical unit responses in kittens. Torsten and Hubel 1965 J. Neurophysiol. 28: 1029-40.</p> <p>郭桓誠: Functional specializations for music processing in the human brain. 2010. PNAS 107: 4758-4763.</p>
六、成績考核	60% presentation (oral and/or written presentation) + 40 % participation and discussion
七、講義位址 http://	