國立清華大學 108 學年第 2 學期課程大綱

科號		組別		學分	2	人數限制	
修課年級	V 大學部　二　年級以上 V　碩士班一年級以上(含博士班) □　碩士班二年級以上(含博士班)						
上課時間	M5M6			教室			
科目中文名稱	神經分子藥理學						
科目英文名稱	Molecular Neuropharmacology						
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 will focus on the recent advances in our understanding of the clinical features and pathogenesis of a wide range of neuropsychiatric disorders and neurological diseases, including Alzheimer's disease, Parkinson's disease, mood disorders, and Schizophrenia. Students will analyze research reports in which a range of proposed neurological and neuropsychiatric reports that may represent the underlying pathogenic mechanisms and potential treatments in these diseases. Topics link to the proposed cellular processes will include accumulation of aberrant proteins, protein misfolding, protofibril formation, ubiquitin-proteosomal pathway, autophagy, ER stress, axonal and dendritic transport, excitotoxic insult, and mitochondrial dysfunction in neurodegenerative diseases. Neuropharmacology studies of mood and thinking disorders are included. The course will especially emphasis and explore genetic and neuropharmacological contributions to these diseases, that has great advanced our understanding of our brains.
二、指定用書	prepared by the instructor
三、參考書籍	Molecular Neuropharmacology A Foundation for Clinical Neuroscience Review articles from the major journals
四、教學方式	Lecture and discussion

五、教學進度	The tentative schedule is following: Lecture 1 & 2 – Introduction of neurobiology Lecture 3 & 4 – Neural Substrates of Drug Action Lecture 5　　　 – Neuropharmacology of autonomic 　　　　　　　　nervous system Lecture 6 & 7 – Neuropharmacology of Mood and 　　　　　　　　Sleep/Arousal Lecture 8 –　　　Neuropharmacology of higher 　　　cognitive function and behavioral control Lecture 9 & 10 –Neuropharmacology of 　　　　　　Reinforcement and addictive disorders Lecture 11 & 12 – Neuropharmacology of 　　　　　　　　Schizophrenia Lecture 13 & 14 or 15 or 16 – Neurodegeneration
七、講義位址 http://	