

11210LSSN575100
神經心理藥物學 Neuropsychopharmacology

Instructor: 張鈞惠(changch@life.nthu.edu.tw)

Lectures: Friday 10:10-13:00 @ LSII 218

Textbook: Psychopharmacology: Drugs, the Brain, and Behavior (by Meyer and Quenzer)

Grading (Total 100%)

1. Take-home essays (25%)
2. Chapter discussion (25%)
3. Literature discussion (total 50%)

- Literatures should be selected from Science, Nature, PNAS, Nature Neuroscience, Neuron, Journal of Neuroscience, Molecular Psychiatry, Biological Psychiatry, or Neuropsychopharmacology.
- They need to be published after July 1, 2022
- Oral presentation (25%)
~ 35 min presentation + ~15 min discussion (Q&A)
- Q&A (5%)
Other than the presenter, everyone needs to prepare one critical comment or question regarding the literature during Q&A.
- Commentary (in English, 20%)
Please follow “Journal of Neuroscience Journal Club” guidelines summarized in the following: The commentary should have three components: a short overview of the topic and questions addressed in the reviewed paper, a critical review of the key findings, and a brief summary of the significance of the paper. It must offer more than a summary of what was stated in the original article. For example, it might present important caveats, alternative explanations of the data, or a distinct interpretation of the results in the context of work that the author did not discuss. It must be concise and should be limited to approximately **1500 words**.

| Week | Date | Lecture Contents | Presenter | Commentary |
|------|-------|--|-----------|------------|
| 1 | 9/15 | Chapter 1: Principles of Pharmacology | | |
| 2 | 9/22 | Chapter 4: Methods of Research in Psychopharmacology | | |
| 3 | 9/29 | 中秋節放假 | | |
| 4 | 10/6 | Chapter 5: Catecholamines Chapter 6: Serotonin | | |
| 5 | 10/13 | Chapter 7: Acetylcholine Chapter 8: Glutamate and GABA *assign the presenter of each topic | | |
| 6 | 10/20 | Chapter 9: Drug Abuse and Addiction *decide the paper of each topic *assign commentary | | |
| 7 | 10/27 | Chapter 10: Alcohol | | |
| 8 | 11/3 | Chapter 11: The Opioids | | |
| 9 | 11/10 | Chapter 12: Psychomotor Stimulants: Cocaine, Amphetamines, and Related Drugs | | |
| 10 | 11/17 | Chapter 13: Nicotine and Caffeine | | |
| 11 | 11/24 | Chapter 14: Marijuana and the Cannabinoids | | |
| 12 | 12/1 | Chapter 15: Hallucinogens, PCP, and Ketamine | | |
| 13 | 12/8 | Chapter 17: Disorders of Anxiety and Impulsivity and the Drugs Used to Treat These Disorders | | |
| 14 | 12/15 | Chapter 18: Affective Disorders: Antidepressants and Mood Stabilizers | | |
| 15 | 12/22 | Chapter 19: Schizophrenia: Antipsychotic Drugs | | |
| 16 | 12/29 | Chapter 20: Neurodegenerative Diseases | | |