

## 10720DMS 274100 神經生物學 (Neurobiology)

### Lectures:

Benjamin H. Peng (彭筱明), [penghb@ust.hk](mailto:penghb@ust.hk)

Chung-Chuan Lo (羅中泉), LSI-106E, 03-574-2014, [ccllo@life.nthu.edu.tw](mailto:ccllo@life.nthu.edu.tw)

Chun-hui Chang (張鈞惠), LSI-531, 03-574-2758, [changch@life.nthu.edu.tw](mailto:changch@life.nthu.edu.tw)

**Time:** W7W8 & R6

**Classroom:** 生命科學二館 213

**Textbook:** “Neuroscience: Exploring the Brain 4<sup>th</sup> edition” (2016) by Mark F. Bear, Barry W. Connors, and Michael A. Paradiso (藝軒圖書, 02-2918-2288)

### Grading policy:

30% Midterm Exam 1, 30% Midterm Exam 2, 30% Final Exam and 10% attendance.

### Materials:

Course materials can be found on the NTHU's E-learning website, <http://lms.nthu.edu.tw/>

### Schedule:

Week	Date	Topic	Lecturer
1	2/20	Chapter 2: Neurons and Glia	Peng
	2/21		
2	2/27	Chapter 3: The Neuronal Membrane at Rest	Peng
	2/28	和平紀念日 放假	
3	3/6	Chapter 4: The Action Potential	Peng
	3/7		
4	3/13	Chapter 5: Synaptic Transmission	Peng
	3/14		
5	3/20	Chapter 6: Neurotransmitter Systems	Peng
	3/21		
6	3/27	Chapter 7: The Structure of the Nervous System	Chang
	3/28		
7	4/3	Midterm Exam 1	
	4/4	兒童節 放假	
8	4/10	Chapter 11: The Auditory and Vestibular Systems	Chang
	4/11		
9	4/17	Chapter 12: The Somatic Sensory System	Chang
	4/18		
10	4/24	Chapter 8: The Chemical Senses	Lo
	4/25		
11	5/1	Chapter 9: The Eye	Lo
	5/2		
12	5/8	Chapter 10: The Central Visual System	Lo
	5/9		
13	5/15	Midterm Exam 2	
	5/16	Chapter 13: Spinal Control of Movement	Lo

14	5/22	Chapter 13: Spinal Control of Movement (continued)	Lo
	5/23	Chapter 14: Brain Control of Movement	
15	5/29	Chapter 19: Brain Rhythms and Sleep	Lo
	5/30		
16	6/5	Chapter 24: Memory Systems	Chang
	6/6		
17	6/12	Chapter 25: Molecular Mechanisms of Learning and Memory	Chang
	6/13		
18	6/19	Final Exam	