

## 10920DMS 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), 03-574-2014, [cclo@life.nthu.edu.tw](mailto:cclo@life.nthu.edu.tw)

Chun-hui Chang (張鈞惠), 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	2/24	Chapter 2: Neurons and Glia	Peng
	2/25		
2	3/3	Chapter 3: The Neuronal Membrane at Rest	Peng
	3/4		
3	3/10	Chapter 4: The Action Potential	Peng
	3/11		
4	3/17	Chapter 5: Synaptic Transmission	Peng
	3/18		
5	3/24	Chapter 6: Neurotransmitter Systems	Peng
	3/25		
6	3/31	Chapter 7: The Structure of the Nervous System	Chang
	4/1		
7	4/7	Midterm Exam 1	
	4/8		
8	4/14	Chapter 8: The Chemical Senses	Lo
	4/15		
9	4/21	Chapter 9: The Eye	Lo
	4/22		
10	4/28	Chapter 10: The Central Visual System	Lo
	4/29		
11	5/5	Chapter 11: The Auditory and Vestibular Systems	Chang
	5/6		
12	5/12	Chapter 12: The Somatic Sensory System	Chang
	5/13		

13	5/19	Midterm Exam 2	
	5/20	Chapter 13: Spinal Control of Movement	Lo
14	5/26	Chapter 14: Brain Control of Movement	Lo
	5/27		
15	6/2	Chapter 19: Brain Rhythms and Sleep	Lo
	6/3		
16	6/9	Chapter 24: Memory Systems	Chang
	6/10		
17	6/16	Chapter 25: Molecular Mechanisms of Learning and Memory	Chang
	6/17		
18	6/23	Final Exam	
	6/24		