

BIOL 495/595 Neurophysiology

Spring 2019

3 Credits. 0 Hour Lab. 3 Hours Lecture.
M, W, 2:00pm -3:15pm; Wharton Hall 403

Instructor: Baojin Ding, M.D., Ph.D.

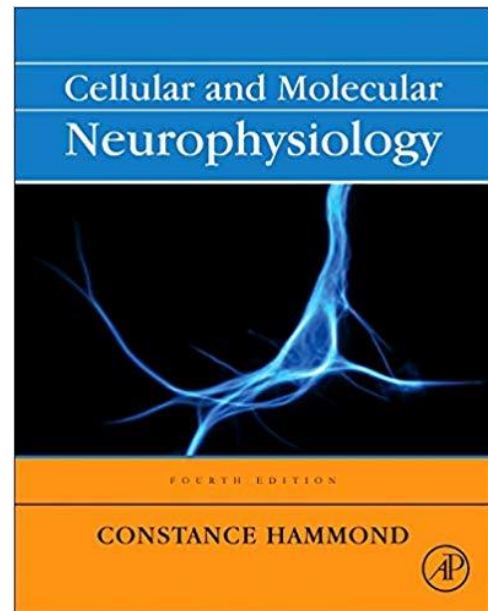
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This course aims to understand neurophysiological activities at cellular and molecular levels and their linkage to human neurological diseases.

This course consists of regular lectures (occupy two thirds) and discussion (one third). The course topics include electrophysiology, axon and dendrite outgrowth, synaptogenesis and synaptic plasticity, interactions between neurons and glial cells, neurodegeneration, and related neurological disorders. The discussion part will focus on the applications of neurophysiology in understanding the pathogenesis of neurological diseases including neurodevelopmental disorders, such as autism spectrum disorder (ASD), and neurodegenerative diseases, such as Alzheimer's disease (AD) and amyotrophic lateral sclerosis (ALS).