Spinal Cord Anatomy - Ascending Systems, Descending systems, and Brainstem overview

Date: Jan. 22, 2019
Time: 10:30 AM
Location: Leischner Hall, 390
Reading Assignment: Fitzgerald’s Clinical Neuroanatomy & Neuroscience, Chapter 15, 17

Objectives:
1. Draw the course of the dorsal column pathway, spinothalamic pathway, spinocerebellar pathways, and corticospinal tract
2. Recognize what receptors are involved in each of the major ascending pathways
3. Recognize the difference between cortical areas 312 and 4
4. Discuss proprioception and its relationship to the Romberg sign
5. Understand the differences between an upper and lower motor neuron lesion
6. Define medial lemniscus, nucleus cuneatus, nucleus gracilis, internal arcuate fibers, VPL, and cerebellar peduncle
7. Appreciate the relationship between the locus ceruleus, raphe, substantia nigra, nucleus basalis, and their corresponding neurotransmitters