

9.01 Study Questions

Lecture 10

1. Define "dermatome". Describe a typical thoracic dermatome.
2. Describe the area of the body surface rostral to the dermatomes for the spinal nerves. What innervates this region?
3. What is meant by a "lemniscus"?
4. Name three types of channels of conduction for sensory information entering the CNS.
5. Why is the term "spinothalamic tract" somewhat of a misnomer?
6. Draw, on an outline of the embryonic mammalian CNS, the spinothalamic pathway (the "paleolemniscus) leading from skin to neocortex. Note where the axons decussate, and where there are synapses.
7. Describe the behavior of an animal which has had the forebrain removed. (What behavior is the most normal, and what is the most abnormal?) Note some differences between different species in which this has been done.