

HUMAN ANATOMY & PHYSIOLOGY I LAB – CAHS 121
Key Points

Lab # 8

EXERCISE #17 – Histology of Nervous Tissue

- Know neurons vs. glia:
 - Neurons: larger, excitable; be able to **draw** neuron: axon, dendrites, soma, etc.
 - Glia: smaller, support & insulation; know role of Schwann cells
- Know Gray matter (cell bodies) vs. White matter (myelinated nerve fibers)
- Know Unipolar/bipolar/multipolar neurons: all must have dendrites [IN], axon [OUT], cell body
- Know that neurons *spike* or send information electrically (release chemicals at axon terminal)
- Know 3 functional groups of neurons:
 - Sensory
 - Motor
 - Association (*brain is 100% association neurons*)
- Know CNS (brain and spinal cord) vs. PNS (other)
- Know Nerves – white matter in PNS – bundles of neuron processes
- Be able to **draw and/or label** Fig. 17.6 and understand pathways:
 - Afferent
 - Efferent
 - Association
- Know & ID slides:
 1. Brain sections – identify neurons in cerebrum, cerebellum
 2. Spinal cord – identify center gray matter, surrounding white matter areas
 3. Nerves – cross section and longitudinal section
 4. Giant multipolar neurons – can see processes

Homework: Review Sheet 17