

Chap 48 Neurons, Synapses and Signaling and Chap 49 Nervous System

Chap 48

Know the structure and function of a neuron.

Know CNS vs PNS and the types of neurons.

What is a neurotransmitter and where does it work?

What are glial cells?

What is Membrane potential refer to in neurons?

What is resting potential?

Be comfortable with the potential differences across neuron membranes during action potentials.

How are gated ion channels used in signal transduction of neurons?

What is hyperpolarization? ...Depolarization?

What is a graded potential?

What is the threshold for mammalian neurons?

Know the steps to generate an action potential in a neuron. (Fig 48.11)

How is the action potential conducted along the axon?

How does a myelin sheath help action potential conduction?

What happens when the action potential conduction reaches a synapse?

What are some neurotransmitters?

Chap 49.2

Know that the brain is regionally specialized

(You do not need to know where the regions are or specifically what they do, see pages 1068-9)