Nervous System I: Anatomy Review

- 1. muscles, glands
- Dendrites → input area; receives signals from other neurons Soma (cell body) → input area; main nutritional and metabolic area Axon → conductive region; generates an action potential
 synapses, dendrites, soma
- 4. axon hillock, action potential5. collaterals, terminals
- collaterals, terminals Schwann cells, axons, insulation nodes of Ranvier 5. Columnia College Agents and C

Nervous System I: Ion Channels

- Integral proteins
 1. Charge
 2. Size
- - 3. How much water the ion holds around it
- nongated
 Into
 130

- 6.
- a. Sodiumb. Chloride

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	Channels	Areas on the Neuron	Type of Potential			
	Nongated	dendrites, cell body, axon	resting membrane potential			
	Chemically gated	dendrites and cell body	synaptic potential			
	Voltage gated	axons	action potential			

- Found along the axon, Important for action potential, Opened and closed by gates
- Passive chloride
 Chemically gated 9.
 - Chemically gated (GABA) Voltage gated sodium
- 10. a.
 - Action
 - Respiratory failure

Nervous System I: Membrane Potential

1.

Ions	Intracellular	Extracellular
Sodium (Na+)	15	150
Potassium (K+)	150	5
Chloride (Cl ⁻)	10	125