

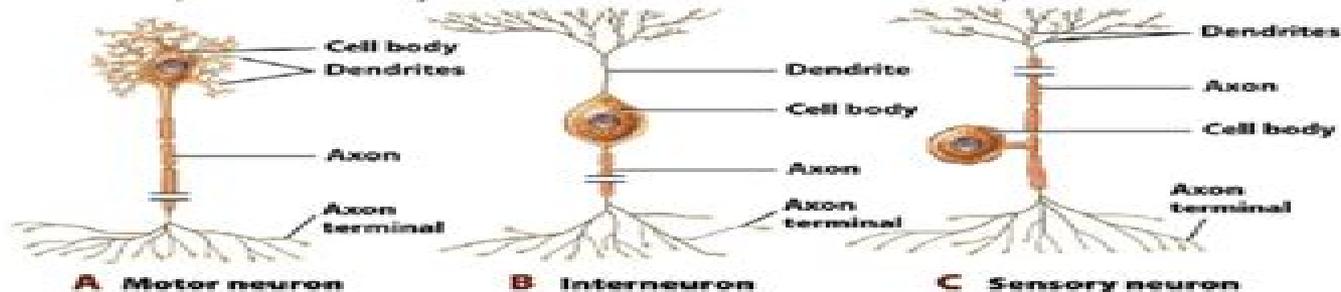
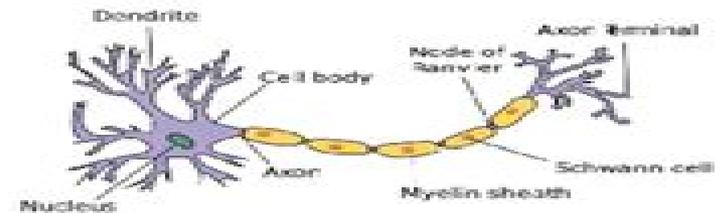
Chapter 15: Nervous coordination and muscles

15.1 Neurons and nervous coordination

Principles of coordination:

Hormonal system	Nervous system
Communication by hormone	Communication by nerve impulses
Transmission by the blood system	Transmission by neurons
Transmission is slow	Transmission is fast
Hormones travel to all parts of the body but only target cells respond	Nerve impulses travel to specific parts of the body
Response is widespread	Response is localised
Response is slow	Response is fast
Response is often long-lasting	Response is short-lived
Effect is permeable and irreversible	Effect is temporary and reversible

- Cell body:** production of proteins and neurotransmitters
- Dendrons:** extensions of the cell body that branch out into smaller dendrites carrying nerve impulses towards the cell body.
- Axon:** a single long fibre that carries nerve impulses away from the cell body
- Schwann cells:** provide the axon with protection and insulation; They can also undergo phagocytosis and nerve regeneration. These cells wrap themselves around the axon many times, building layers around the axon.
- Myelin sheath:** made up of Schwann cells membranes which are in myelin (a lipid)
- Nodes of Ranvier:** space between adjacent Schwann cells where there's no myelin sheath.



15.2 The nerve impulse: a self-propagating wave of electrical activity that travels along the axon membranes

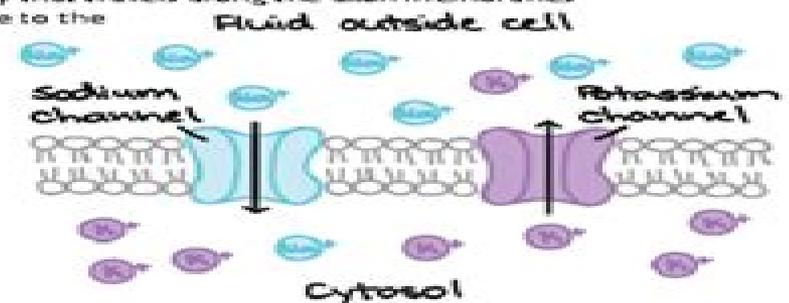
Resting potential: the inside of an axon is negatively charged relative to the

outside. It ranges from -92 -50 mV. The axon is polarized at this stage. Movement of sodium ions (Na^+) and potassium ions (K^+) across the axon membrane is done in a number of different ways:

- Phospholipid by layer of the axon plasma membrane prevents Na^+ and K^+ plus diffusion
- Channel proteins have gates that can be opened or closed to move Na^+ and K^+ through by facilitated diffusion at one time
- Some carrier proteins actively transport K^+ into the axon and Na^+ out, which is the sodium potassium pump

How is the resting potential established?

- Na^+ are actively transported out of the axon by the pump
- K^+ are actively transported into the axon by the pump
- There's a greater active transport of Na^+ , so 3Na^+ move out for 2K^+ that move inside.
- An electrochemical gradient is created because there are more Na^+ in the tissue fluid surrounding the axon than in the cytoplasm where there's a higher concentration of K^+
- Na^+ begin to diffuse back into the axon while K^+ will diffuse out
- Most of the potassium voltage gated channels are open while all sodium voltage gated channels are closed



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