

Advanced Neurophysiology (1st Year University notes)

- Increase in positive charge opens up Ca ion channels to open and influx of Calcium ions occur
- Snare Proteins - Proteins that connect the presynaptic vesicles to the membrane
- Ca ions bond to proteins to stimulate fusion of vesicles to the presynaptic membrane (Exocytosis)
- Neurotransmitters enter Cleft and bond to special receptors (Nicotinic Cholinergic Receptors for Acetylcholine)
- This causes Na gated channels to open up at the Postsynaptic membrane causing an influx of Na ions into the Target cell
- However, instead of Na channels opening, K channels may open up instead at the Postsynaptic membrane, causing K ions to leave the neuron,
- This making it harder for action potential to occur at the Postsynaptic neuron due to a less positive charge

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