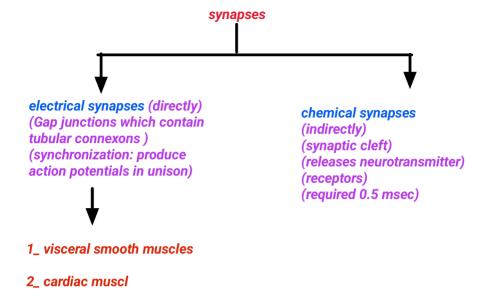
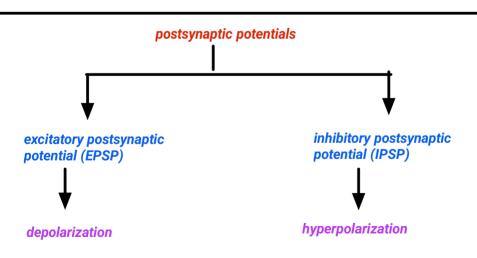
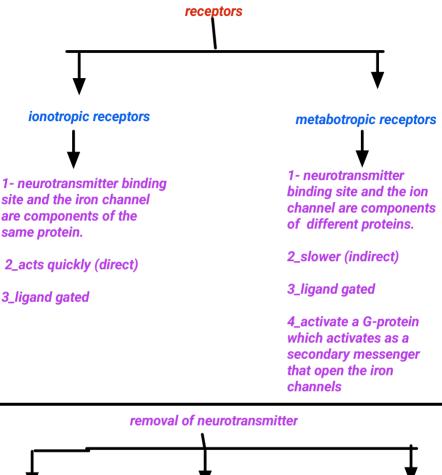
lecture (5) of physiology

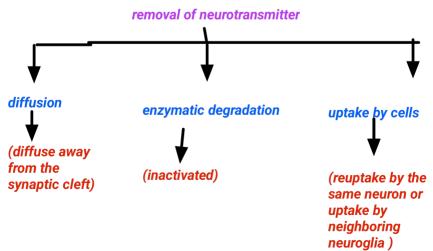


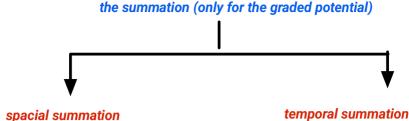
3 brain

4_ developing embryo



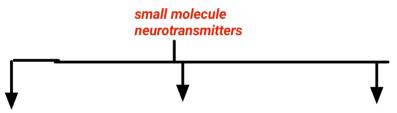






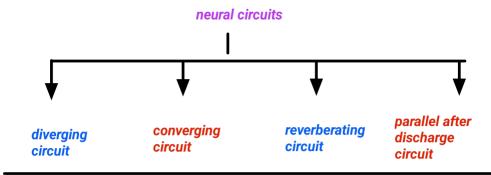
(effect on several presynaptic neurons) (ESPS spread from several synapse to axon hillock) (effect on one presynaptic

neuron) (ESPS spread from one synapse to axon hillock)

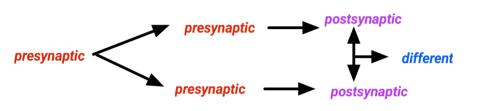


acetylcholine (ACh) (release by many PNS and some CNS) (either excitation or inhibition) (inactivated by acetylcholinesterase) amino acids
(Glutamate excitation
and inactivated by
glutamate specific
transporters)
(Gamma aminobutyric
acid (GABA) inhibition
for 1/3 brain synapses
and antianxiety druds)

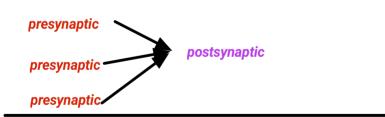
biogenic Amines (decarboxylated amino acids) (either excitation or inhibition) (dopamine, histamine, serotonin, epinephrine and norepinephrine)



diverging circuit:



converging circuit:

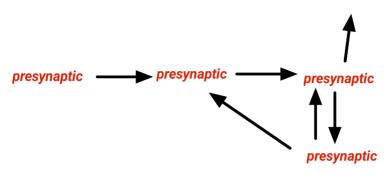


في نوع كمان اسمه ال simple series circuit واحد باثر على الثاني مباشرة

presynaptic postsynaptic

reverberating circuit:

postsynaptic



parallel after discharge circuit:

