

On same cell have a glutamate synapse, a gaba and another glutamate. Whether it fires AP is determined by sum of all. Ie just one glut won't reach threshold potential but if multiple fire it will. In cerebellum- cells are gabaeric. Complex network.



Spinocerebellar Ataxia, Familial Hemiplegic Migraine and Episodic Ataxia

How to regulate pre synaptic nerve terminal. Can regulate ca channels themselves. Different ways: calmodulin- ca binding protein can bind to loop in the channel making it bind more easily. There's a loop where G proteins (released from GPCRs) bind and inhibit the channel. SNARE proteins can also bind to the channels so the vesicles are next to the channels o when ca enters through the channel it's instantly there to cause the immediate release.