

- terminal buttons of the motor neuron release their neurotransmitters- muscle contracts; causing hand to move away from the hot object
- Inhibition- you're holding a hot casserole dish, grab out of oven w/o oven mitts
 - axon from a neuron in the brain reaches the spinal cord where its terminal buttons form synapses w/ an inhibitory interneuron
 - when this nerve in the brain becomes active, its terminal buttons excite the inhibitory interneuron
 - interneuron releases an inhibitory neurotransmitter (i.e. GABA), which decreases activity of the motor neuron- BLOCKS withdrawal reflex
 - you don't drop the dish, you hold on long enough to *set it down* on the counter instead

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