- 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