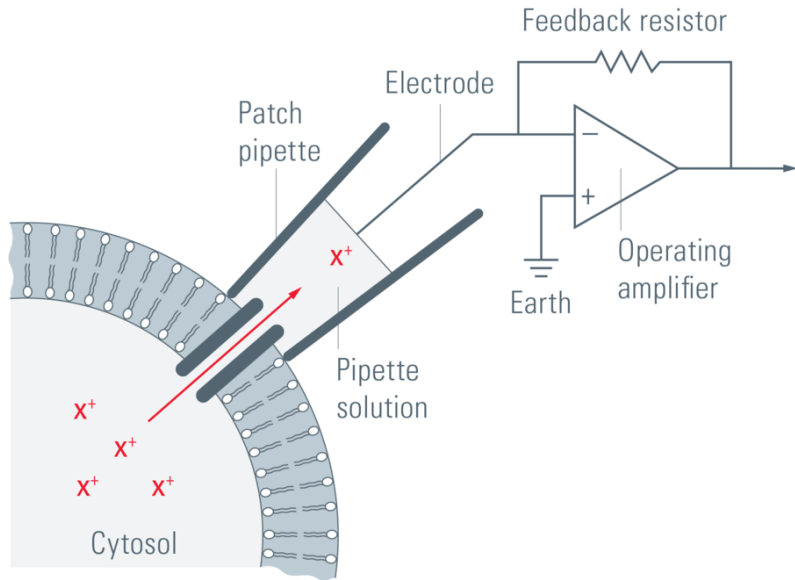


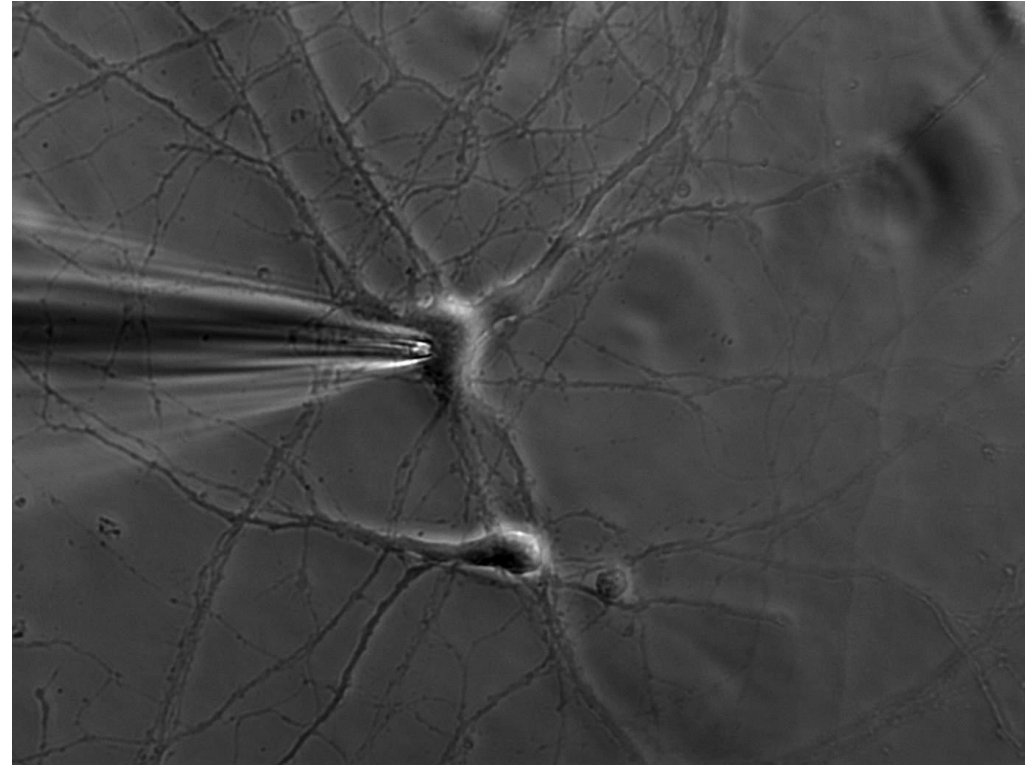
NEUR 265

Wednesday, February 8th, 2023

Cell Physiology



Patch-clamping – using a hollow electrode to “patch on” to a cell membrane, and measure electrical activity in response to stimulation



Cell Physiology

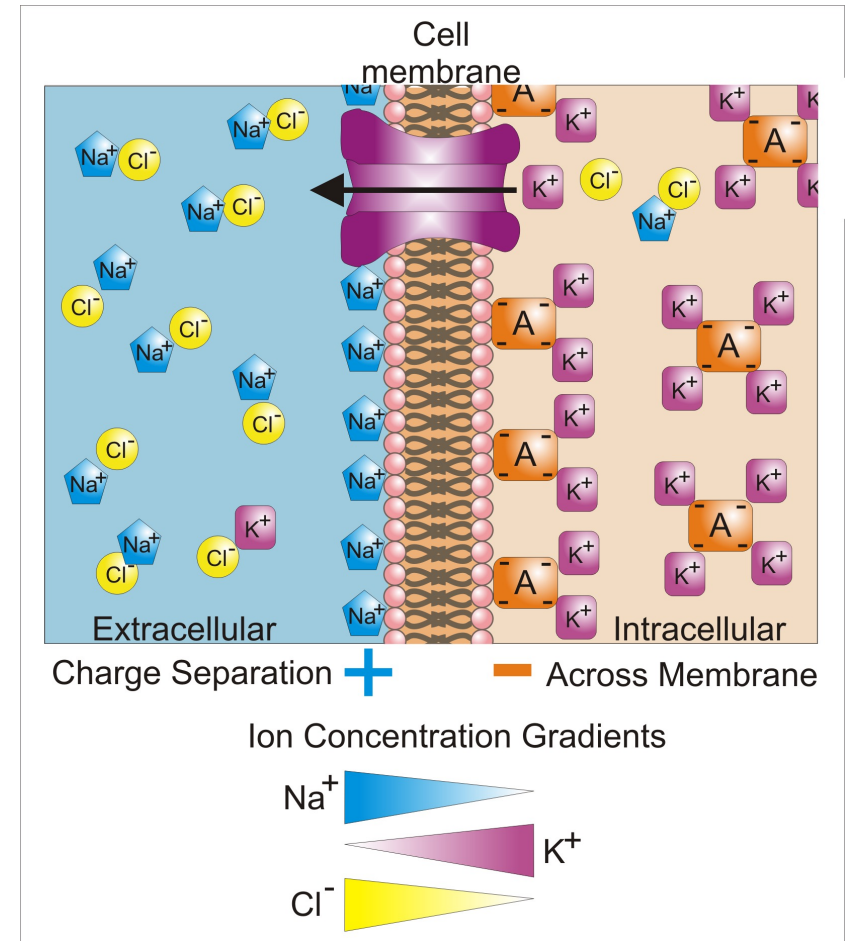
The cell at rest

Resting membrane potential – the membrane of a neuron stores charge, and this charge is unevenly distributed on the inside (intracellular) and outside (extracellular) of the membrane

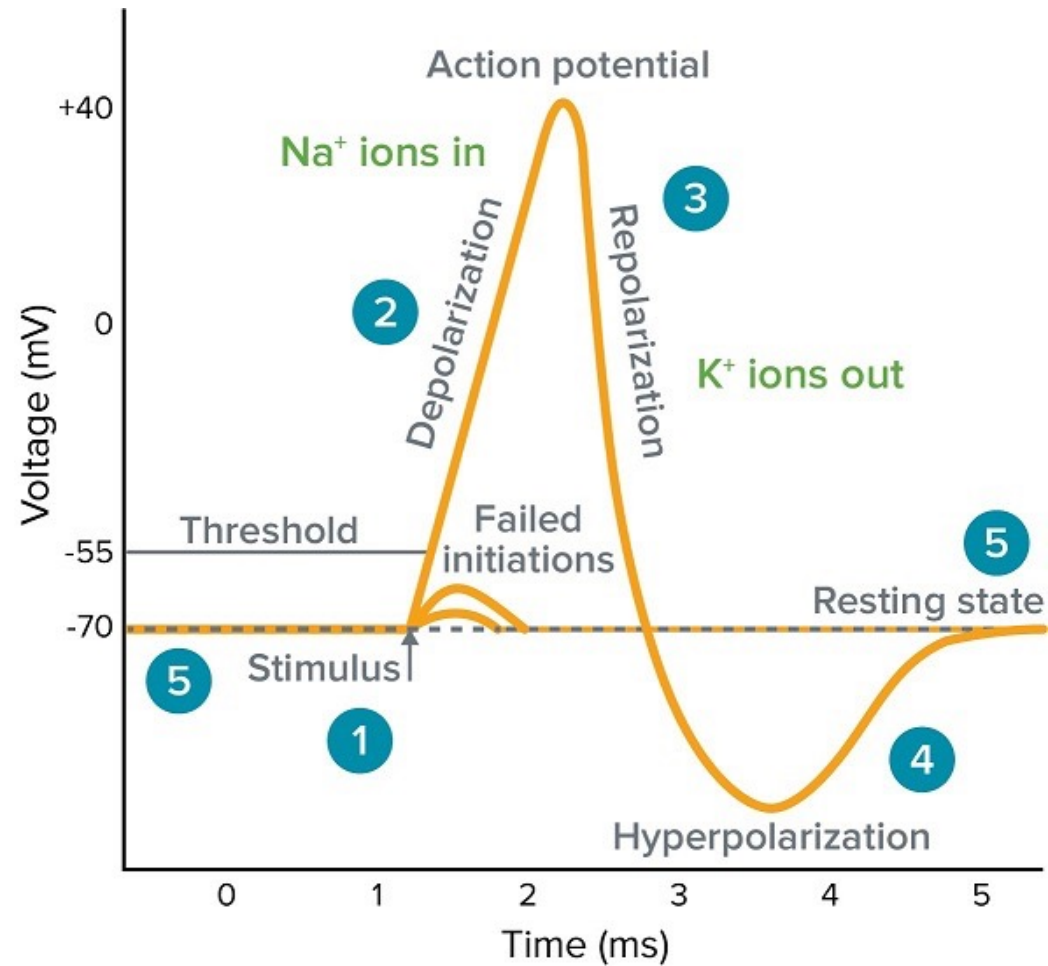
Why?

Which ion channels are open at rest?

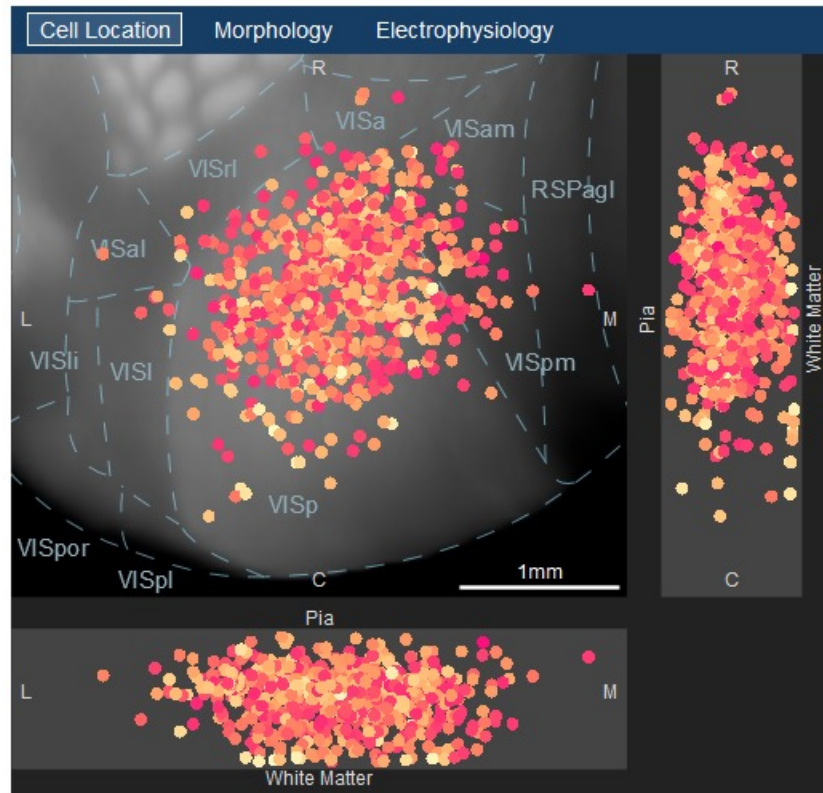
What are some factors that might make a cell's resting membrane potential **more negative**?



Cell Physiology



Allen Institute Data



tdTomato was used to identify different cell “types” in mouse visual cortex

Neurons were patched, and several electrophysiological attributes were measured

Allen Institute Data

