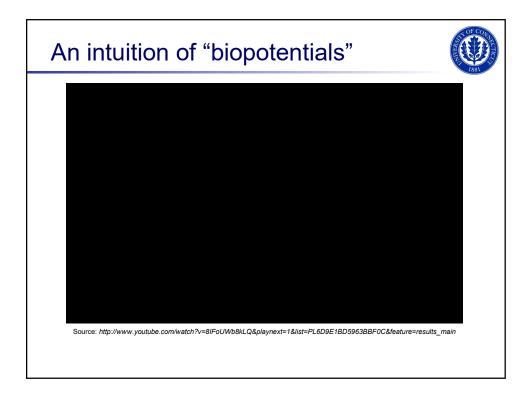


Introduction to Bioelectricity Part II

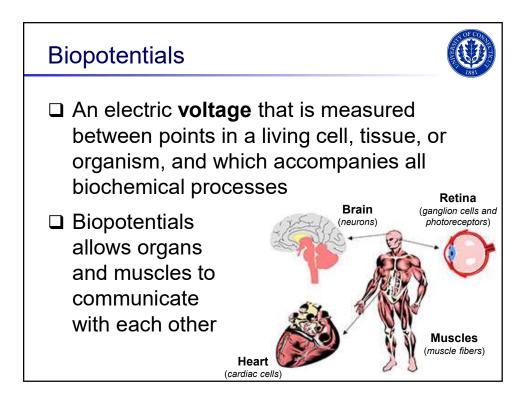
Sabato Santaniello Contributors: Dr. Brown, Dr. Kaputa, Dr. Kumavor, Dr. Shin (UConn BME dept.)

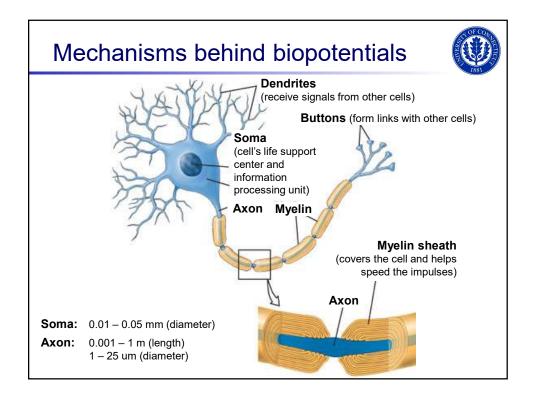


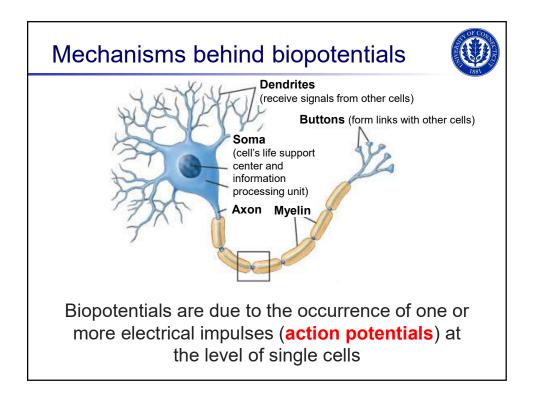
Biopotentials

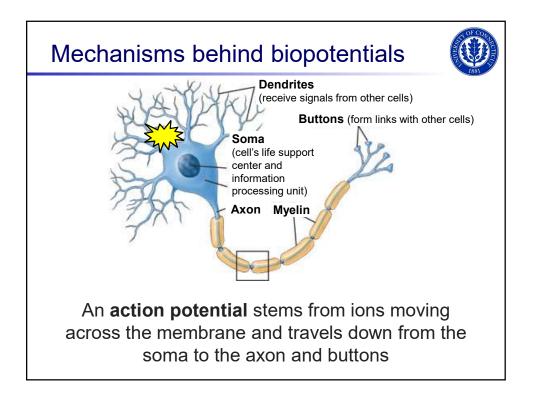


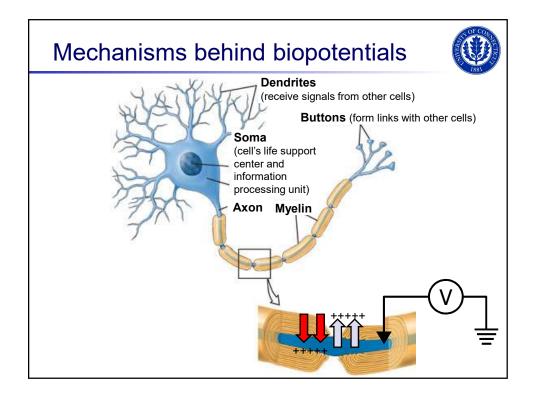
An electric voltage that is measured between points in a living cell, tissue, or organism, and which accompanies all biochemical processes

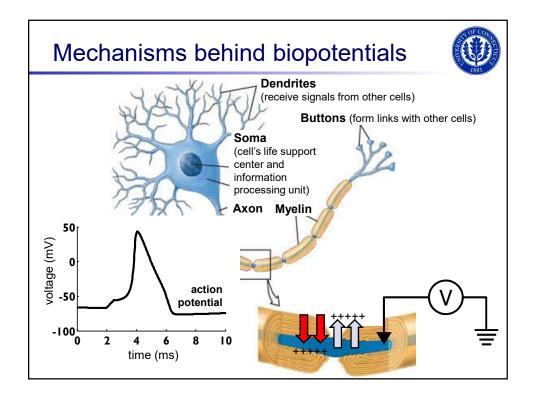


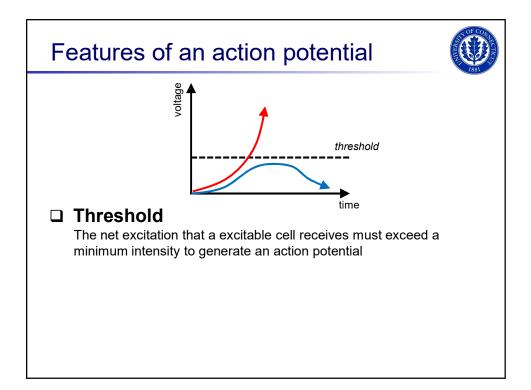


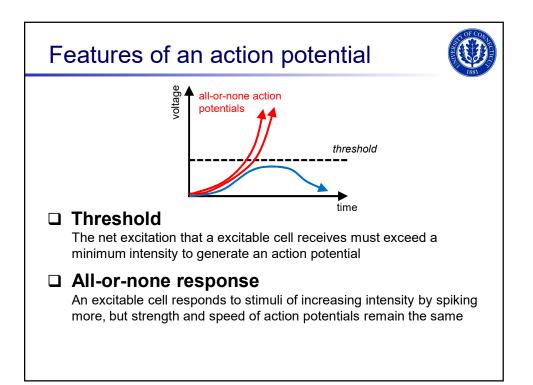


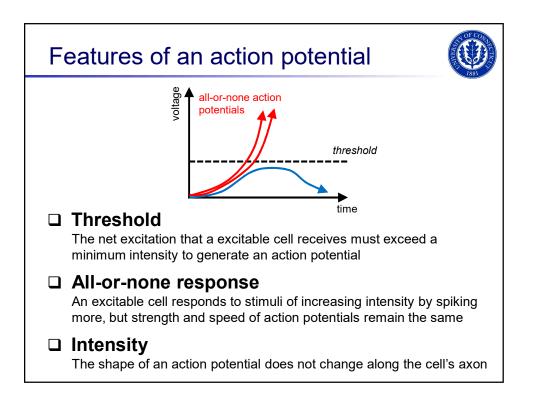






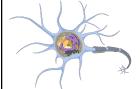




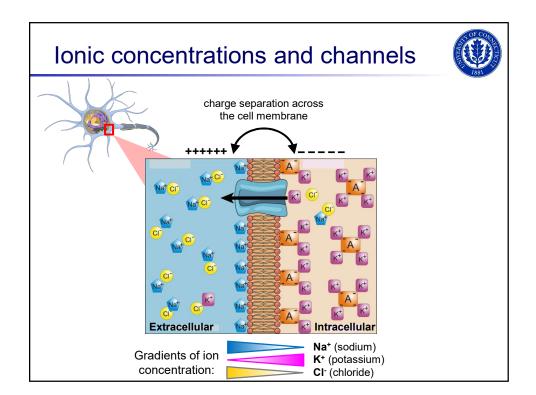


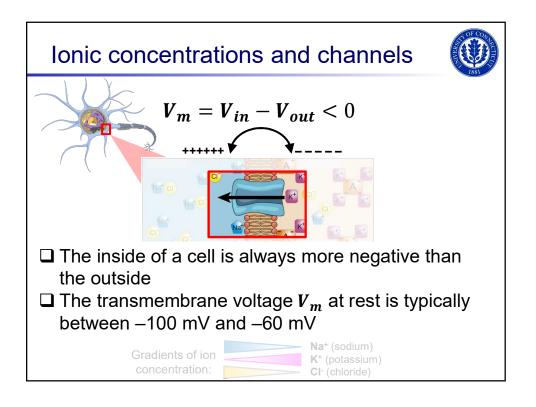
lonic concentrations and channels

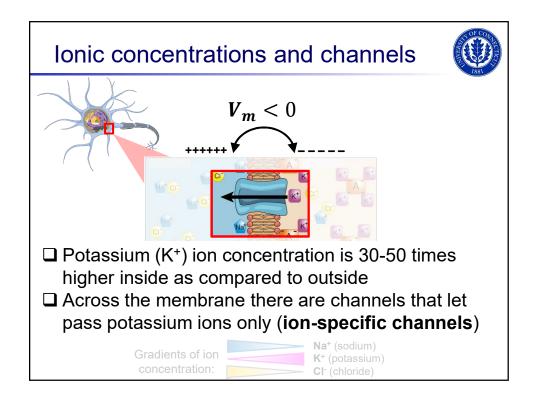


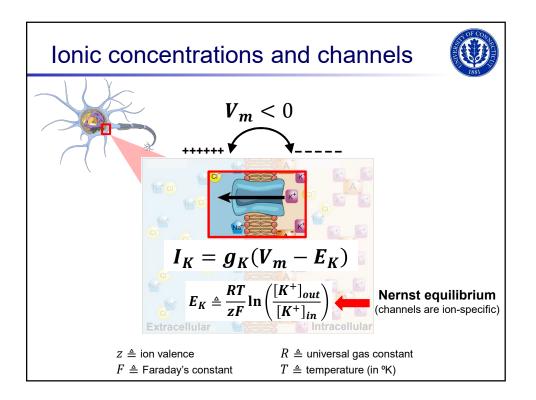


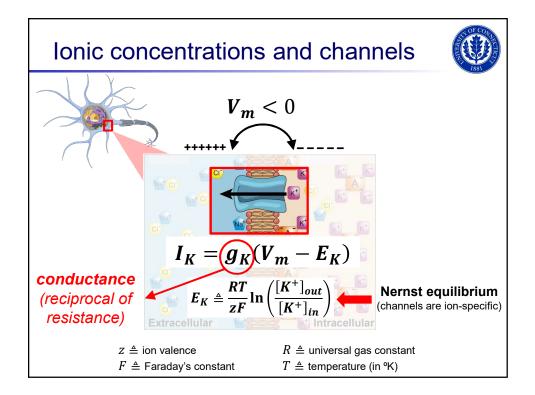
To understand the mechanisms of an action potential let us first look at what happens across the cell's membrane

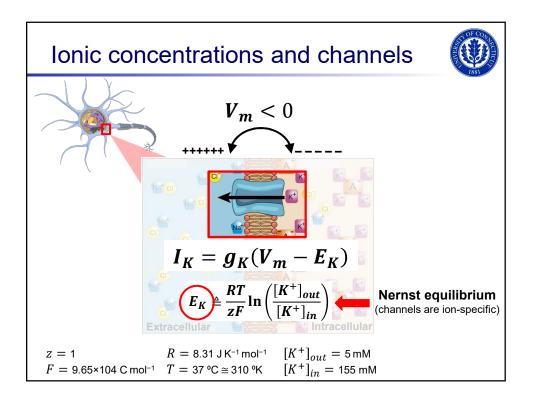


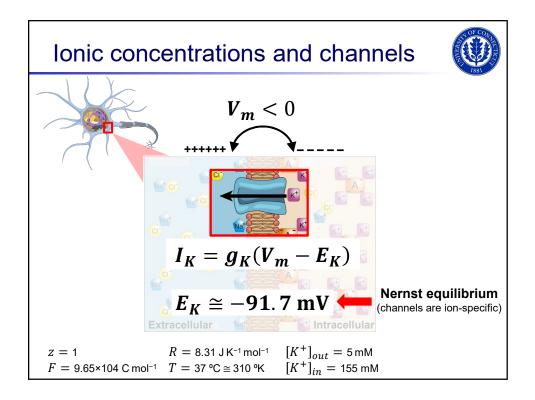


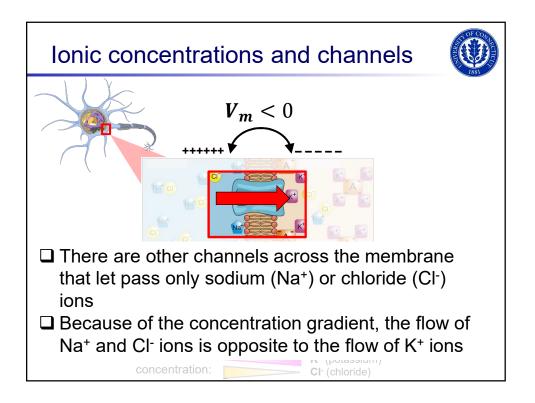


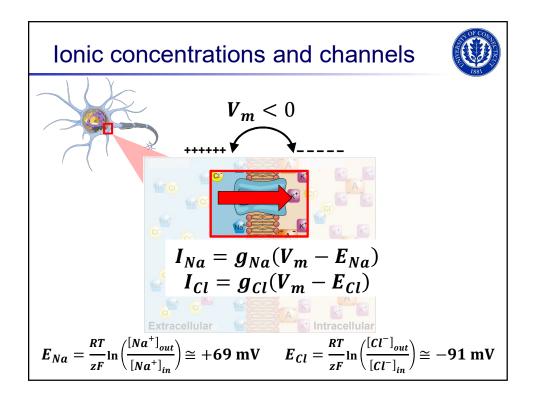


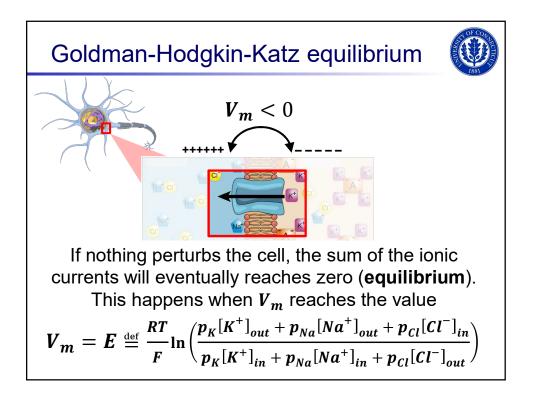


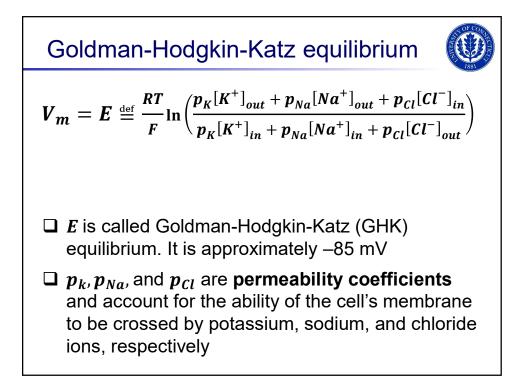


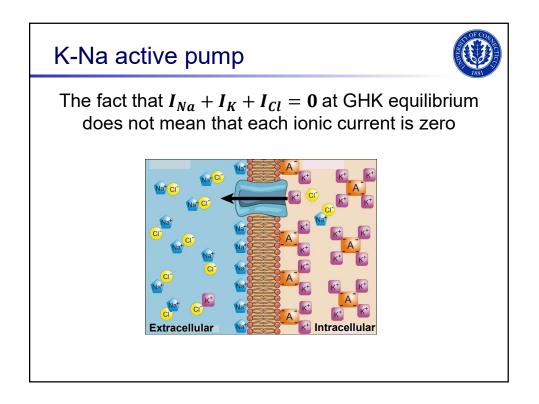


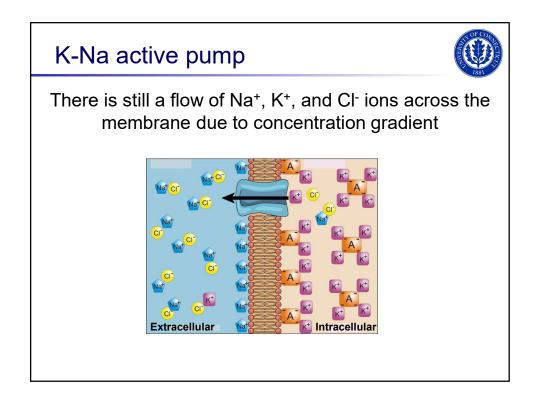


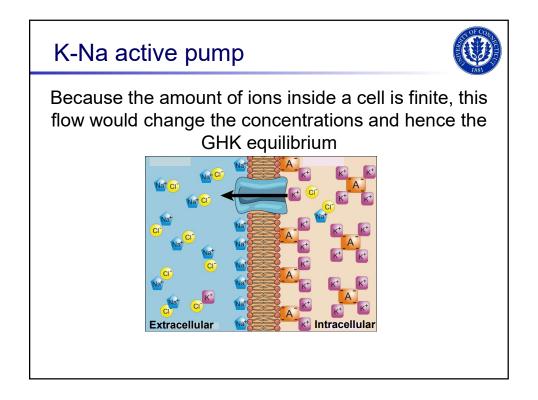


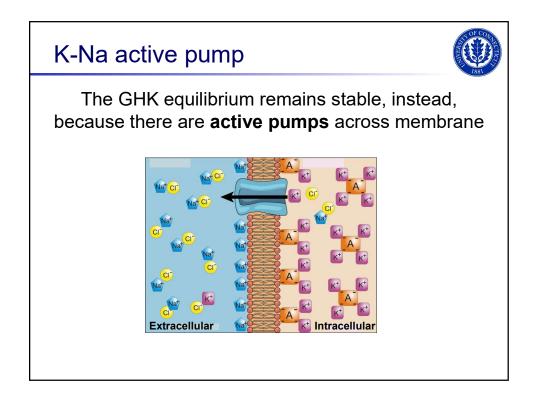


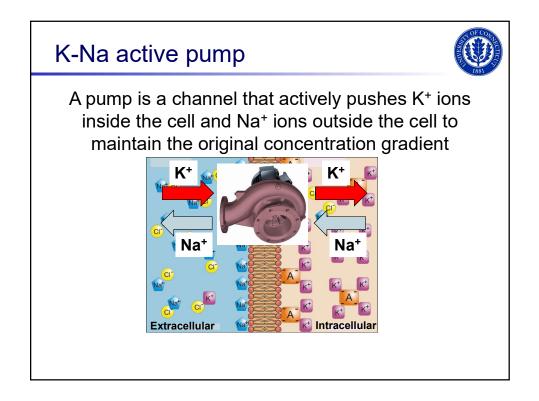


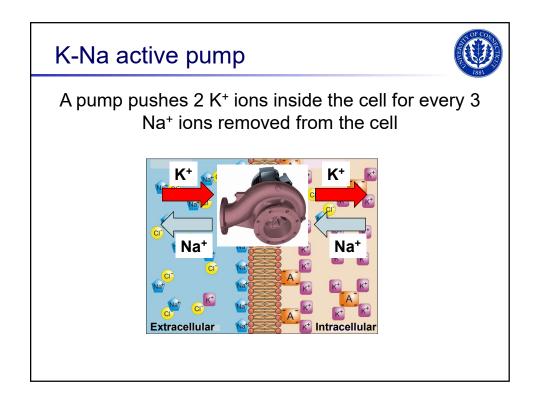


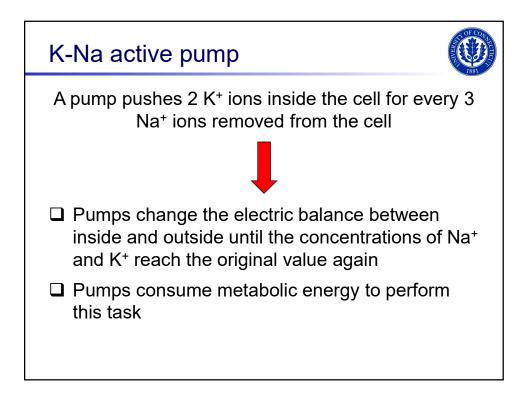


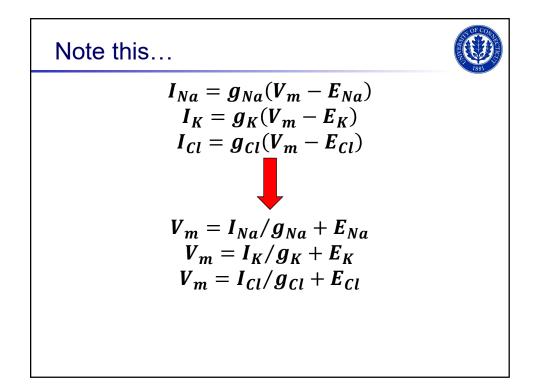


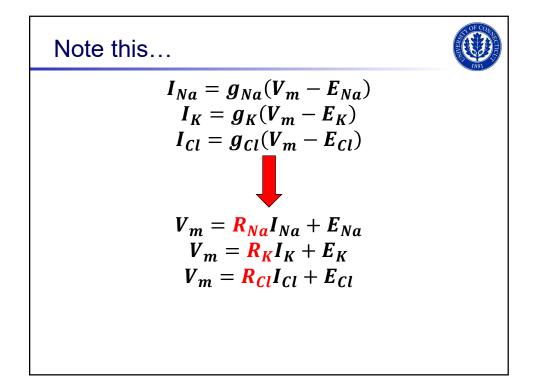


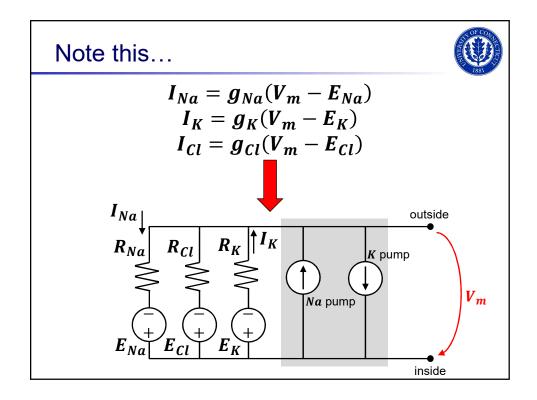


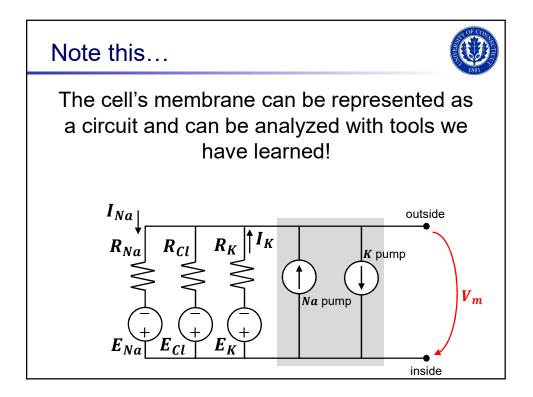


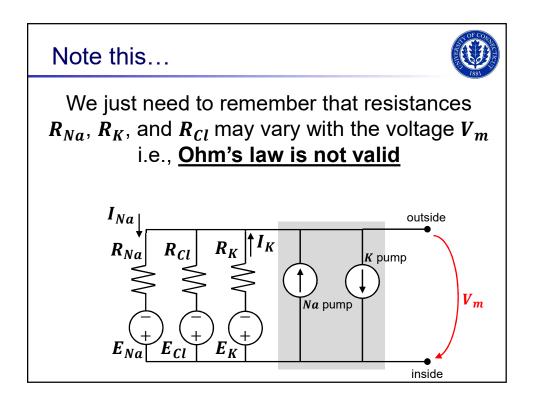






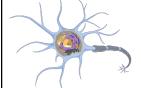






Origins of an action potential (AP)





Now we have enough tools to understand how an action potential begins.

Let us first introduce three technical words:

