

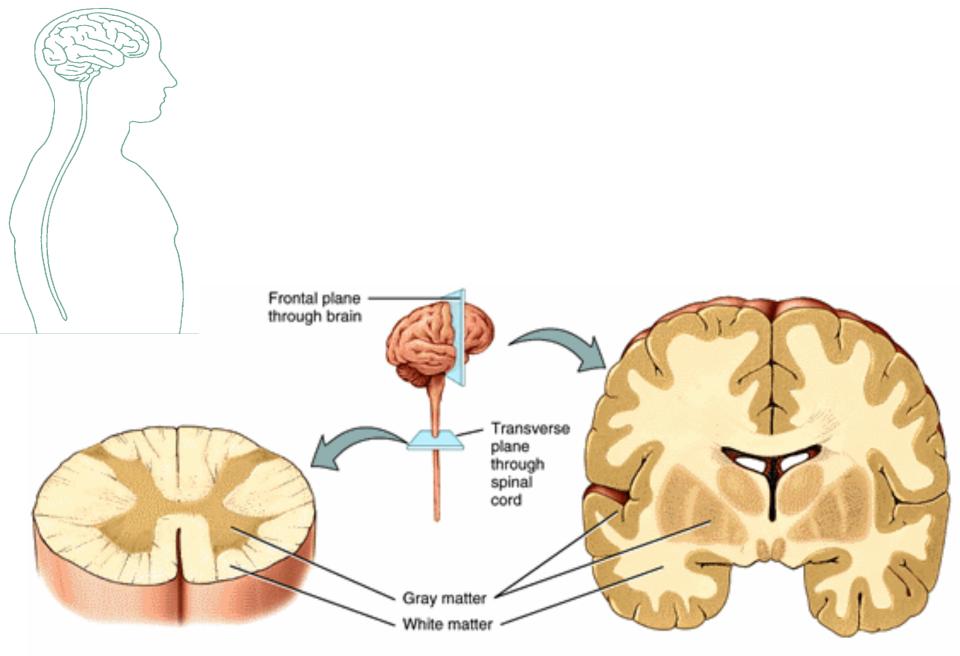
ELL788: Lecture 5, Date: 17-08-2016

<u>CSC</u>

Instructor: TKG

Anatomy and Functional Areas of the Brain

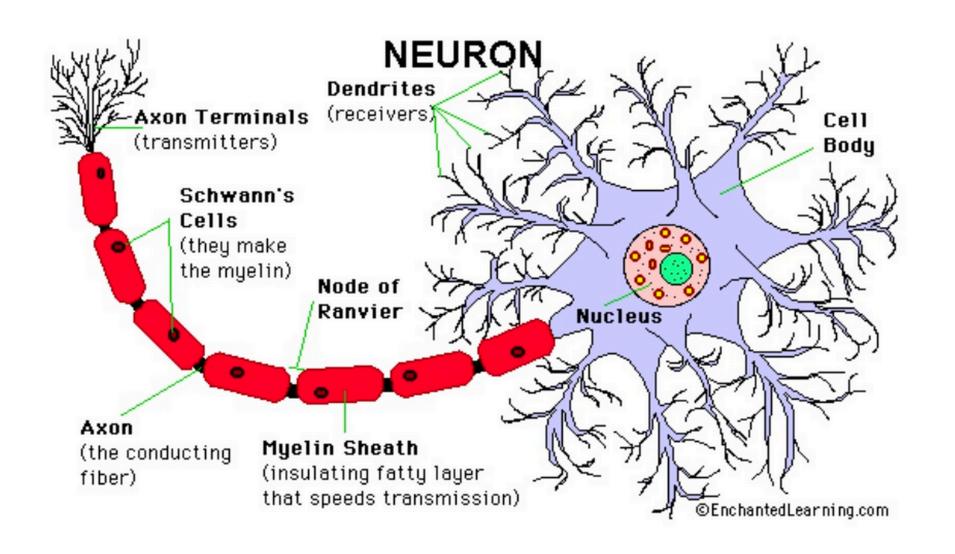




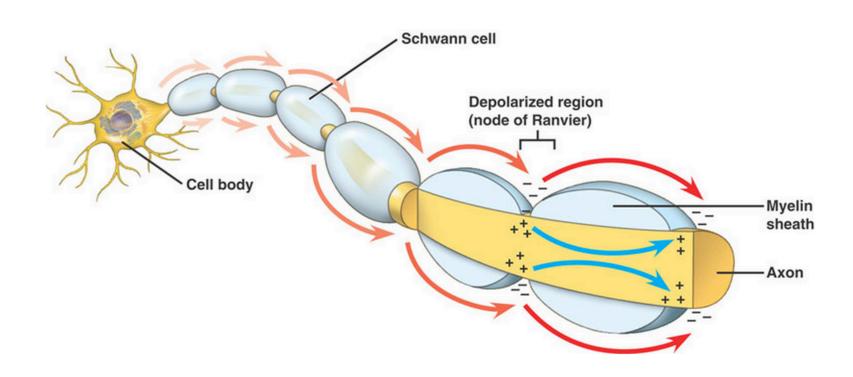
(a) Transverse section of spinal cord

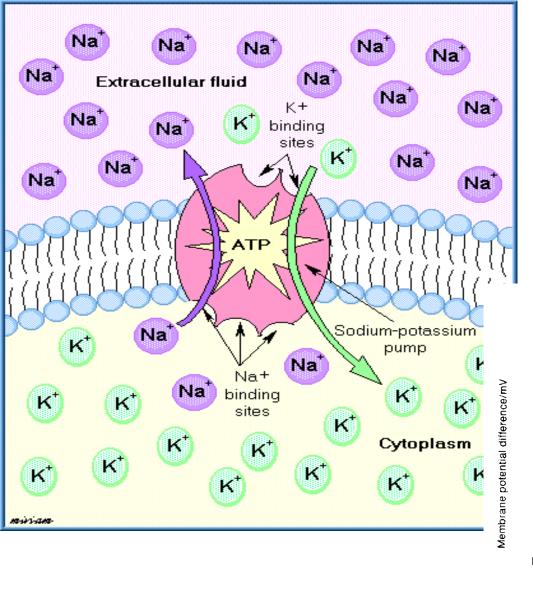
(b) Frontal section of brain

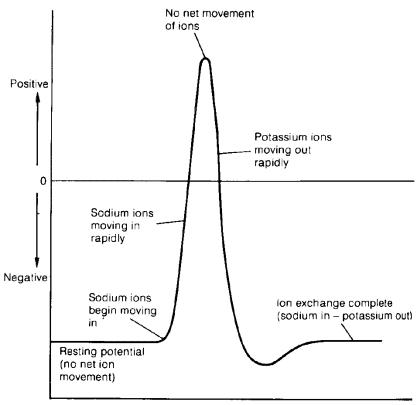
Figure 17.09a Tortora - PHA 11/e Copyright © John Wiley and Sons, Inc. All rights reserved.



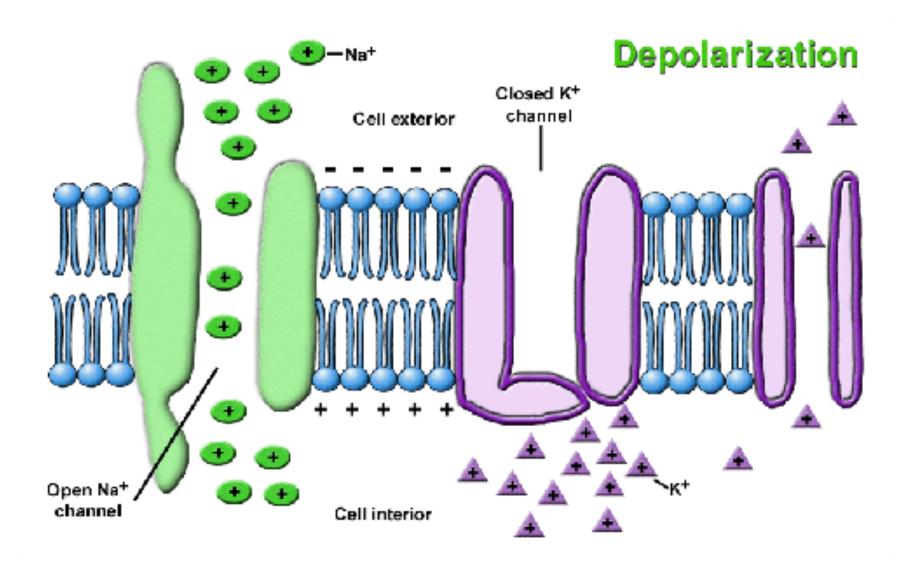
Cell Body+ 2 sets of Processes (Axons, Dendrites)

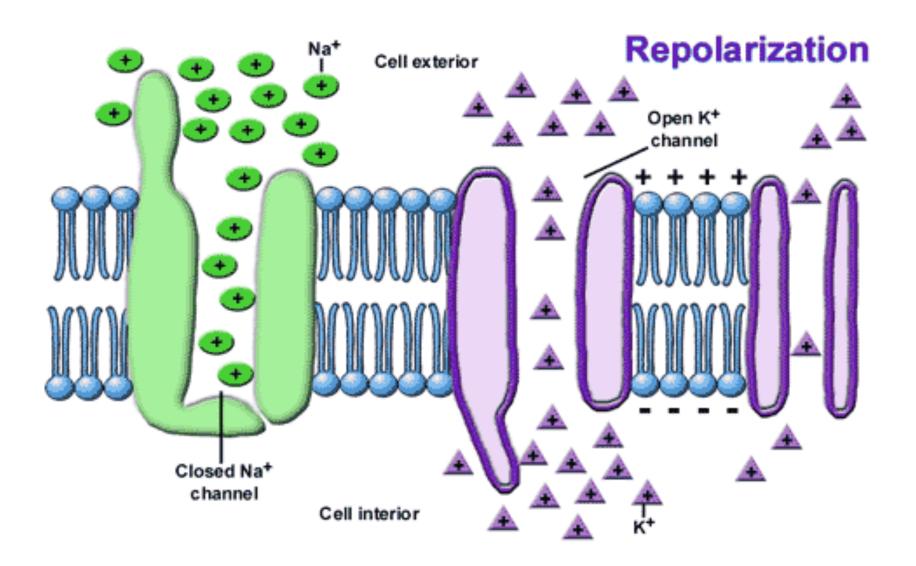


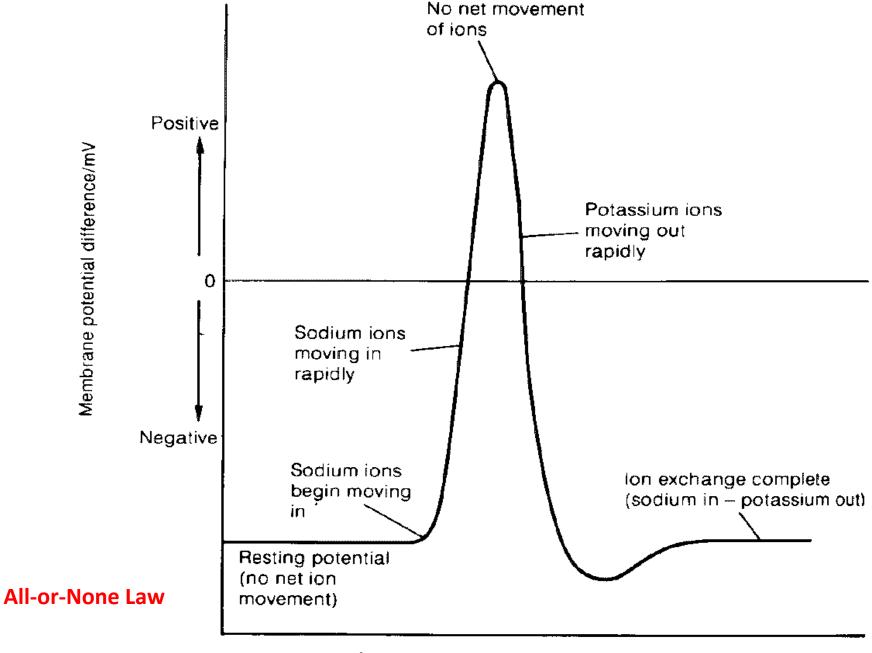




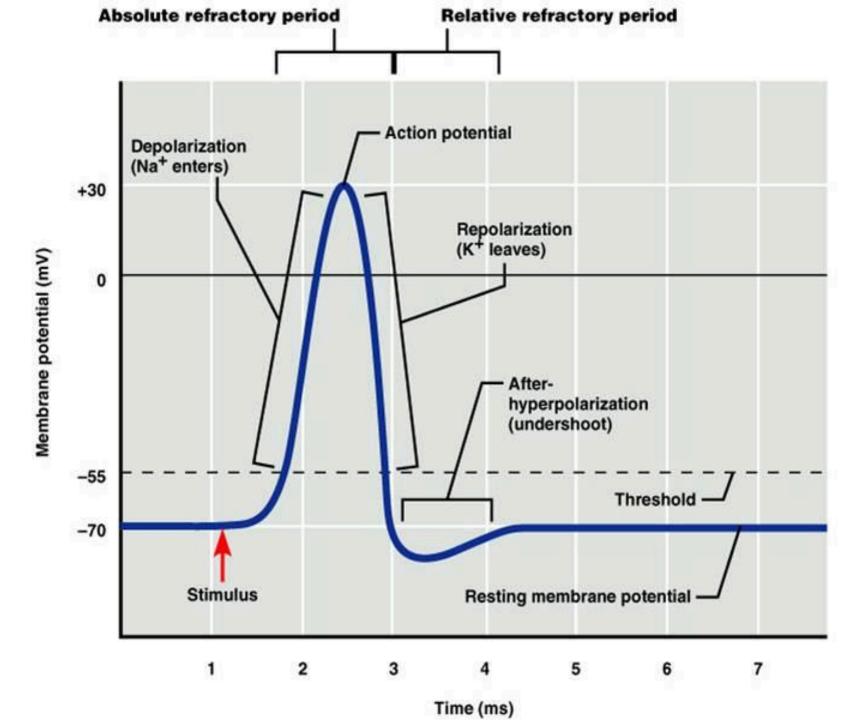
Ion movements during an action potential

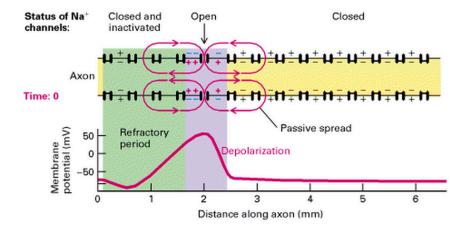


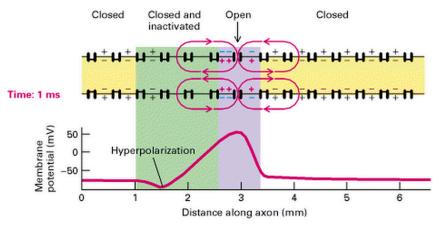


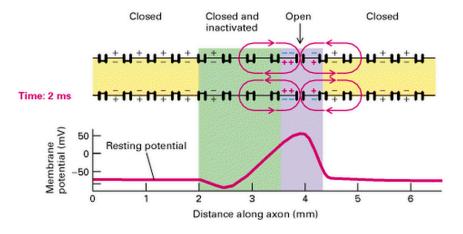


Ion movements during an action potential



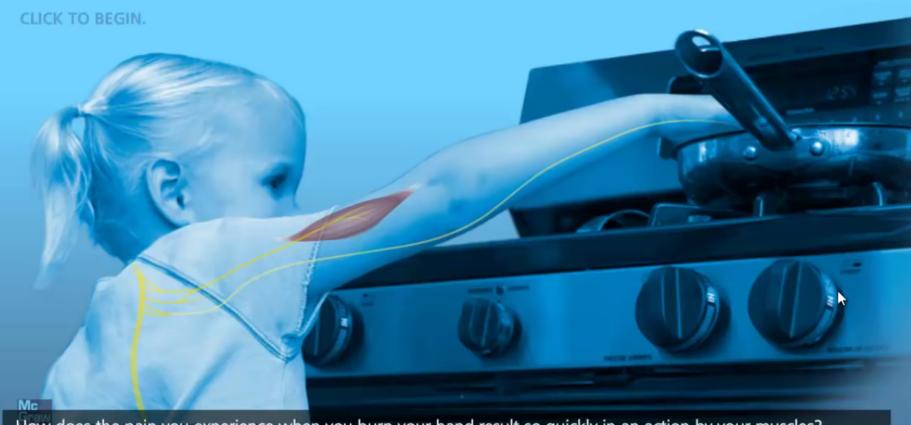






NEURAL TRANSMISSION

RESPONSE TO ENVIRONMENTAL STIMULI



How does the pain you experience when you burn your hand result so quickly in an action by your muscles?



"Whoa! That was a good one! Try it, Hobbs—just poke his brain right where my finger is."

Copyright: Gary Larson

Q: Assuming this comical situation was factually accurate, what Cortical Region of the brain would these doctors be stimulating?

Thanks!