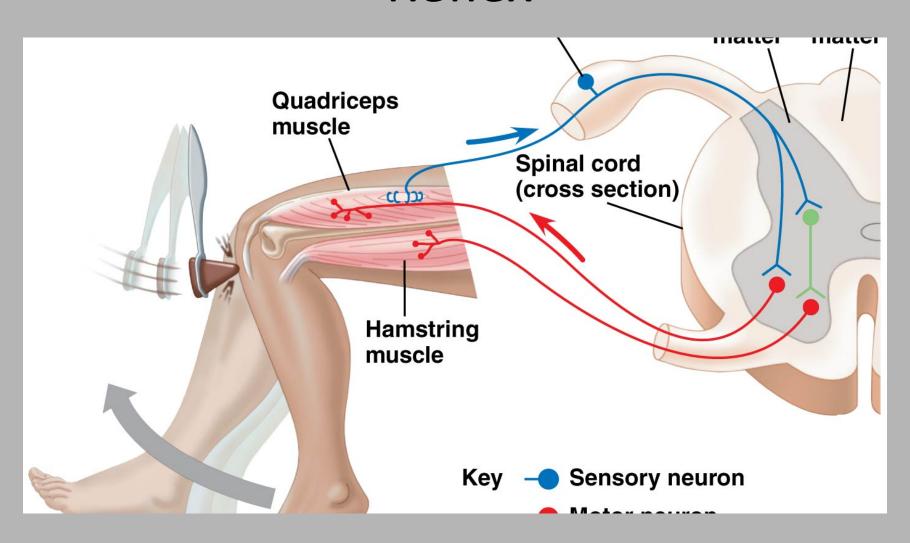
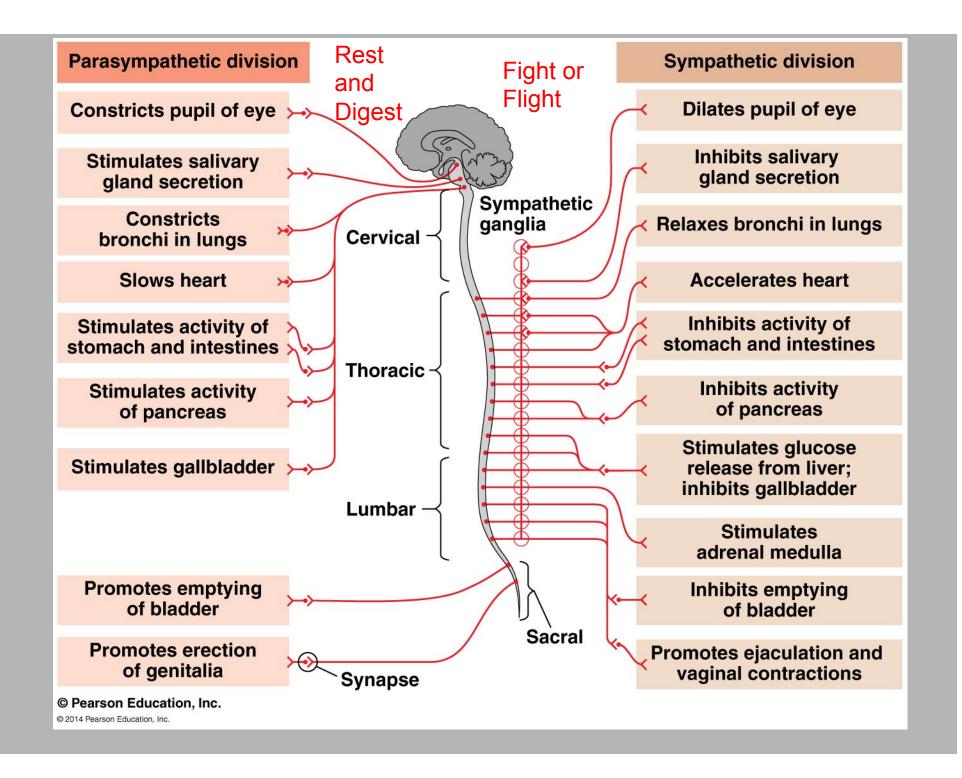
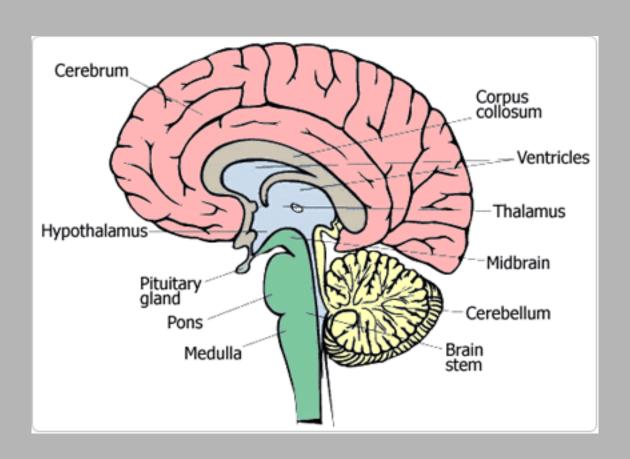


Reflex

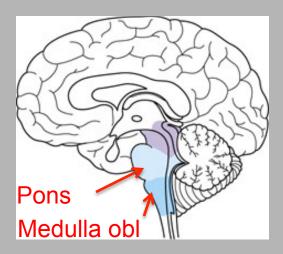


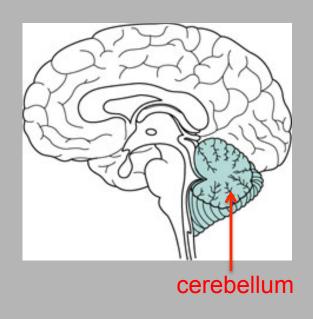


The Brain = Many Neurons & Glial Cells = Support Cells



- The Medulla Oblongata and the Pons controls breathing, heart rate, digestion
- The Cerebellum controls coordination of movement and balance (Karate; Dance. Separate Section of the brain)



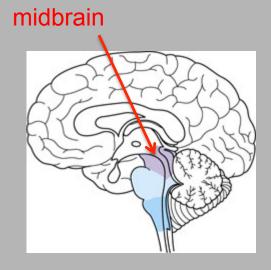


Stairs...



The Midbrain

 The Midbrain receives, integrates, and projects sensory information to the forebrain



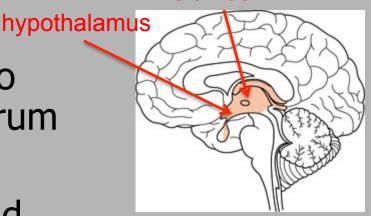
- Thalamus

 conducts information to specific areas of cerebrum

Hypothalamus

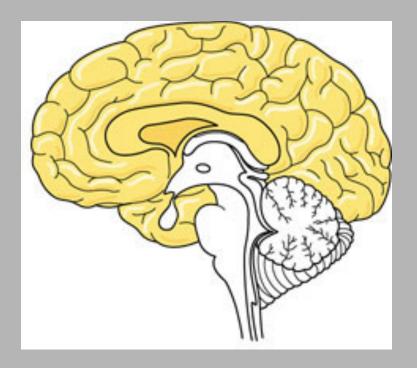
 produces hormones and regulates body temperature, hunger, thirst, sexual response, circadian rhythms

Thalamus

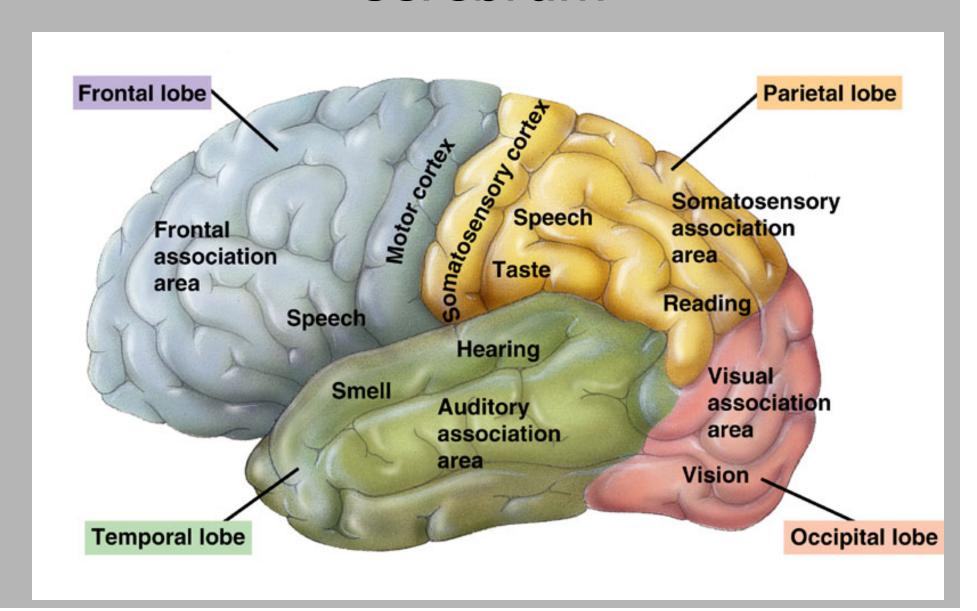


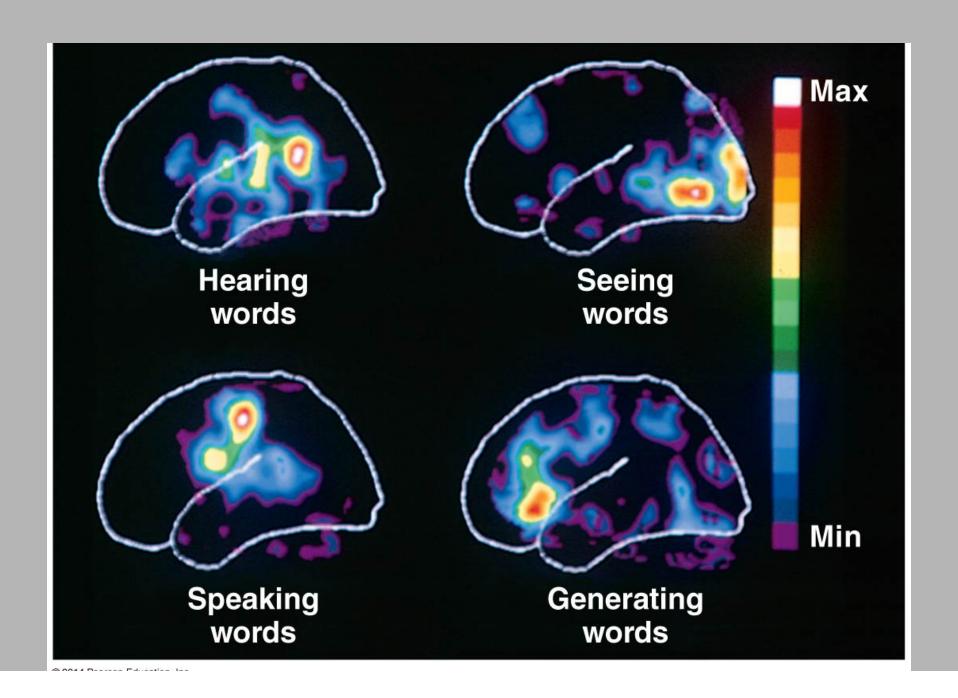
Cerebrum

- with cortex and corpus callosum
 - higher thinking

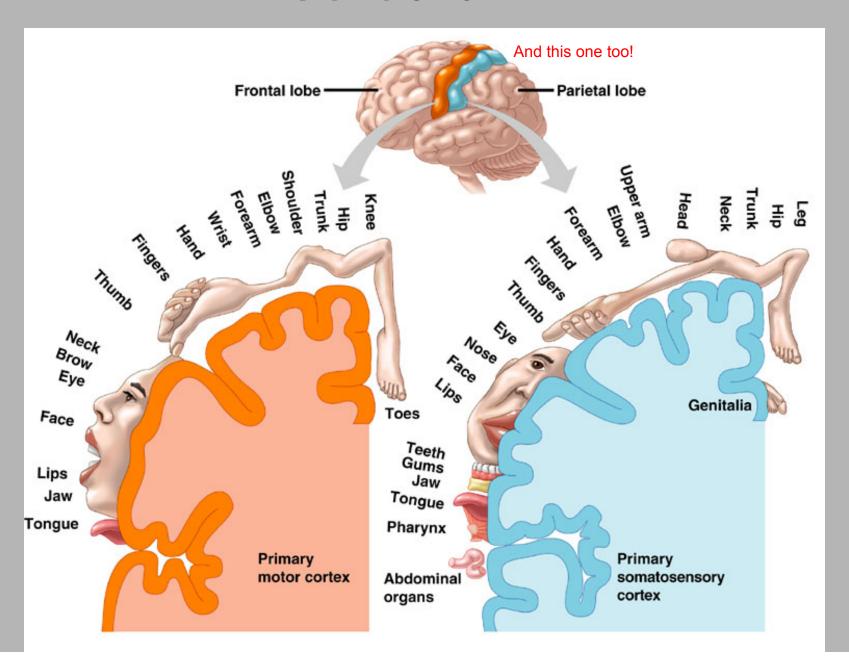


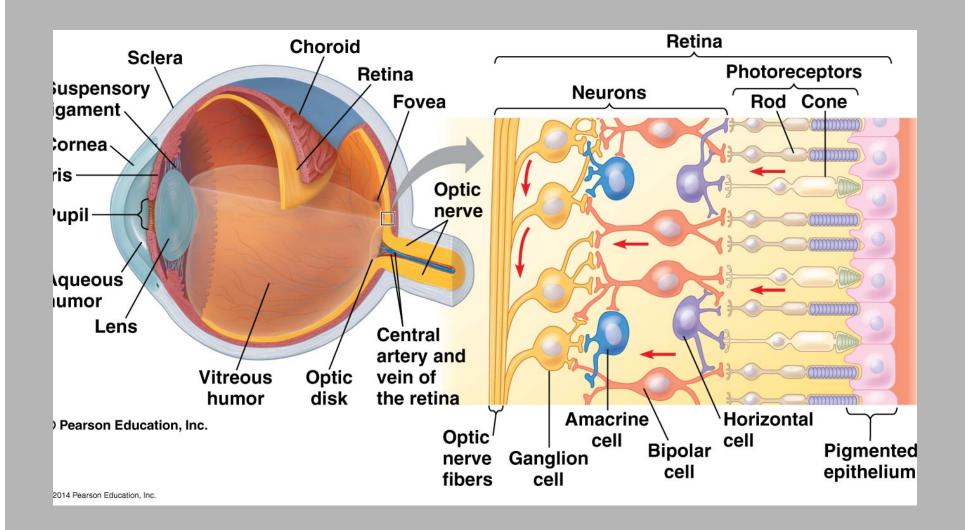
Cerebrum

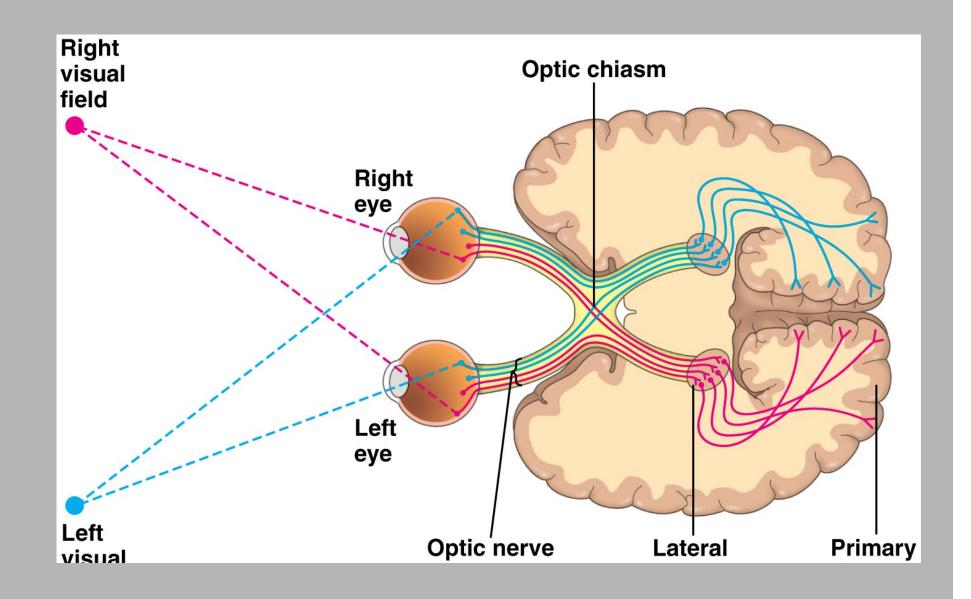


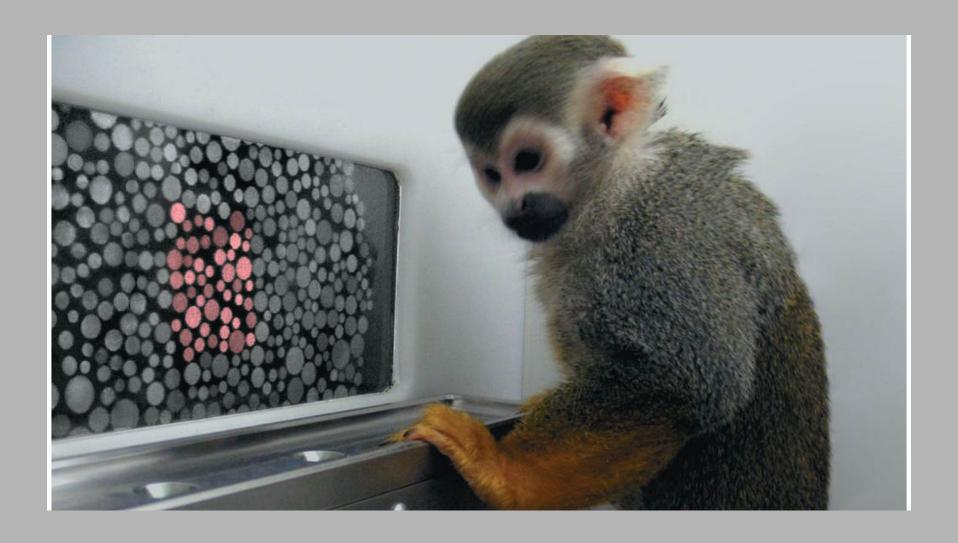


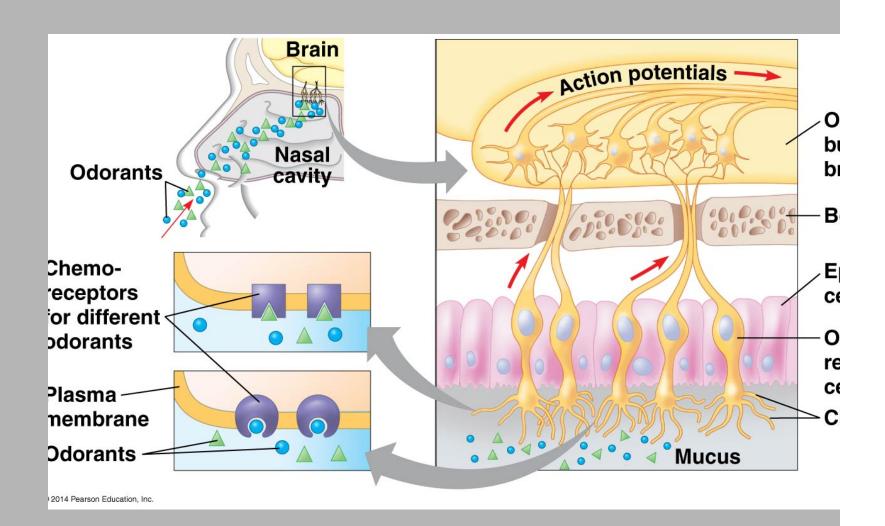
Cerebrum

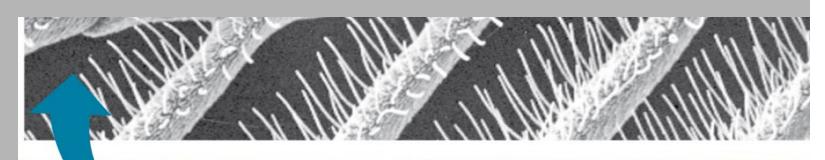




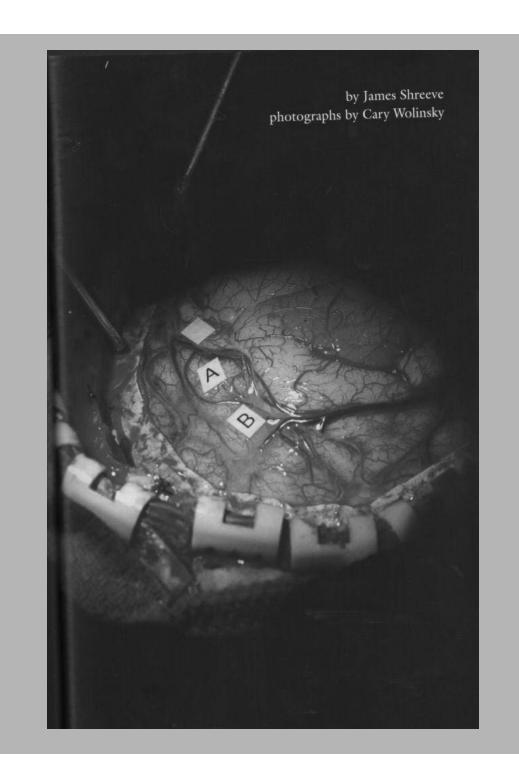




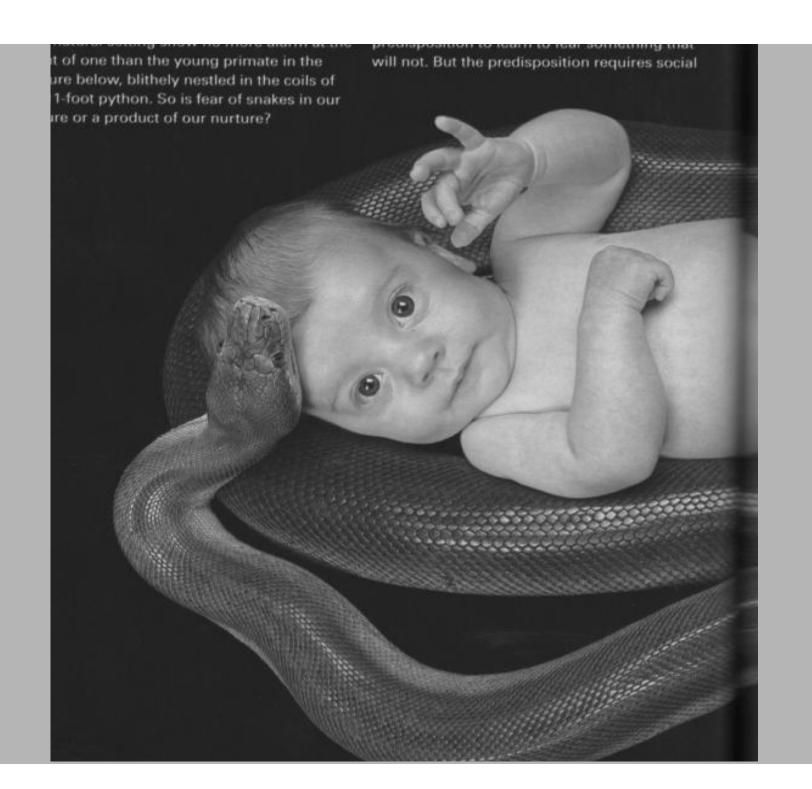












ern neuroscientists have taken a keen interest. Can meditation literally change the mind?

For the past several years Richard Davidson and his colleagues at the University of Wisconsin-Madison have been studying brain activity in Tibetan monks, both in meditative and non-meditative states. Davidson's group had shown earlier that people who are inclined to fall prey to negative emotions displayed a pattern of persistent activity in regions of their right prefrontal cortex. In those with more positive temperaments the activity occurred in the left prefrontal cortex instead. When Davidson ran the experiment on a senior Tibetan lama skilled in meditation, the lama's baseline of activity proved to be much farther to the left of anyone previously tested. Judging from this one study, at least, he was quantifiably the happiest man in the world.

Davidson recently tested the prefrontal activity in some volunteers from a high-tech company in Wisconsin. One group of volunteers then received eight weeks of training in meditation, while a control group did not. All the participants also received flu shots.

By the end of the study, those who had meditated showed a pronounced shift in brain activity toward the left, "happier," frontal cortex. The meditators also showed a healthier immune response to the flu shot, suggesting that the training affected the body's health as well as the mind's.

"You don't have to become a Buddhist," says the Dalai Lama himself, who is closely following the work of Western cognitive scientists like Davidson. "Everybody has the potential to lead a peaceful, meaningful life."