

A detailed microscopic image of brain tissue, likely a section through the cerebral cortex. The image shows various cell types, including neurons and glial cells, stained in vibrant colors: blue, green, red, and purple. The staining highlights the intricate cellular structures and their arrangement.

Chapter 9b

The Central Nervous System

DEE UNGLAUB SILVERTHORN

HUMAN PHYSIOLOGY

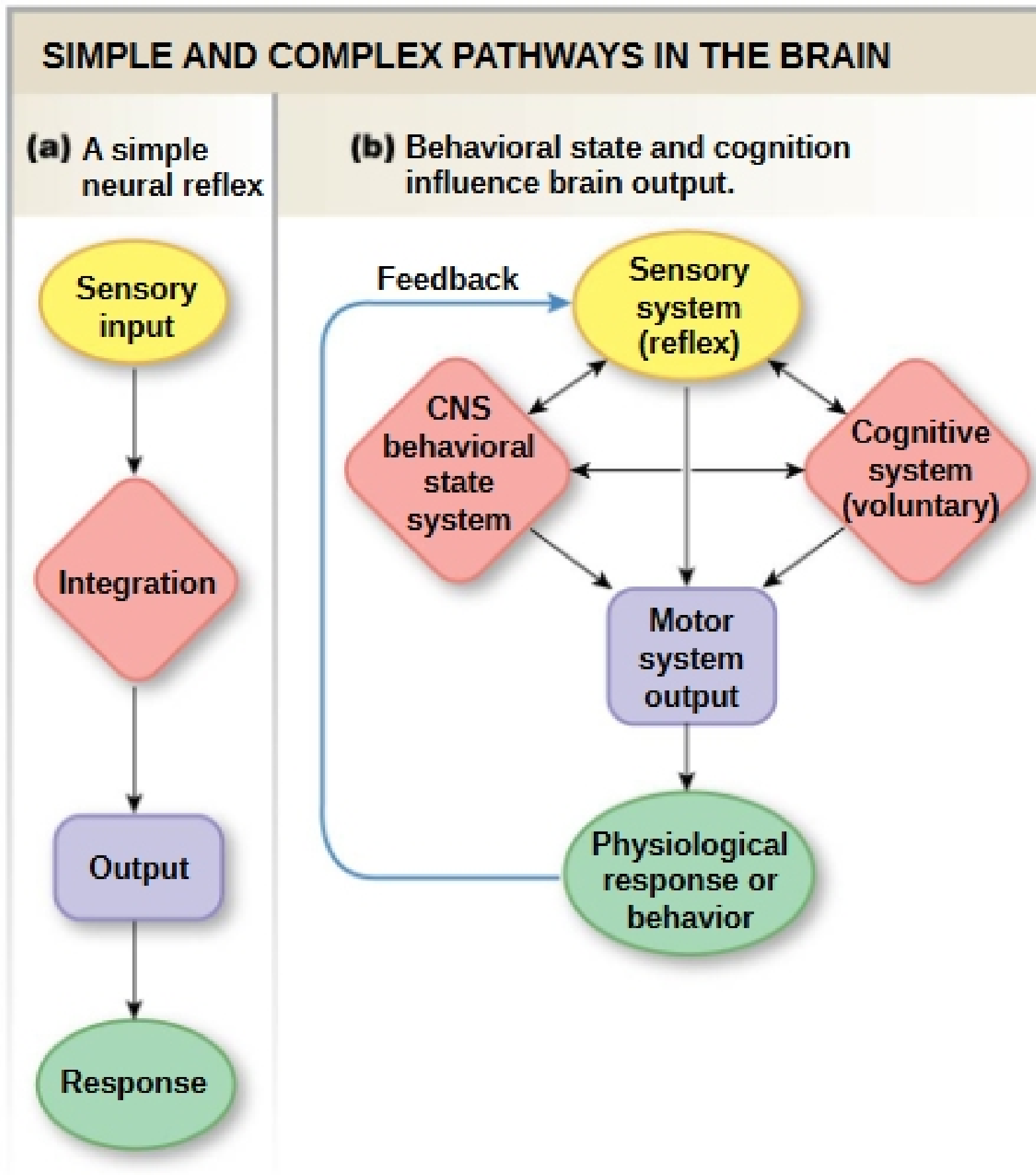
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PEARSON

Figure 9.12



Brain Function: Cerebral Cortex

- From a functional viewpoint, it can be divided into three specializations
 - Sensory areas
 - Sensory input translated into perception (awareness)
 - Motor areas
 - Direct skeletal muscle movement
 - Association areas
 - Integrate information from sensory and motor areas
 - Can direct voluntary behaviors