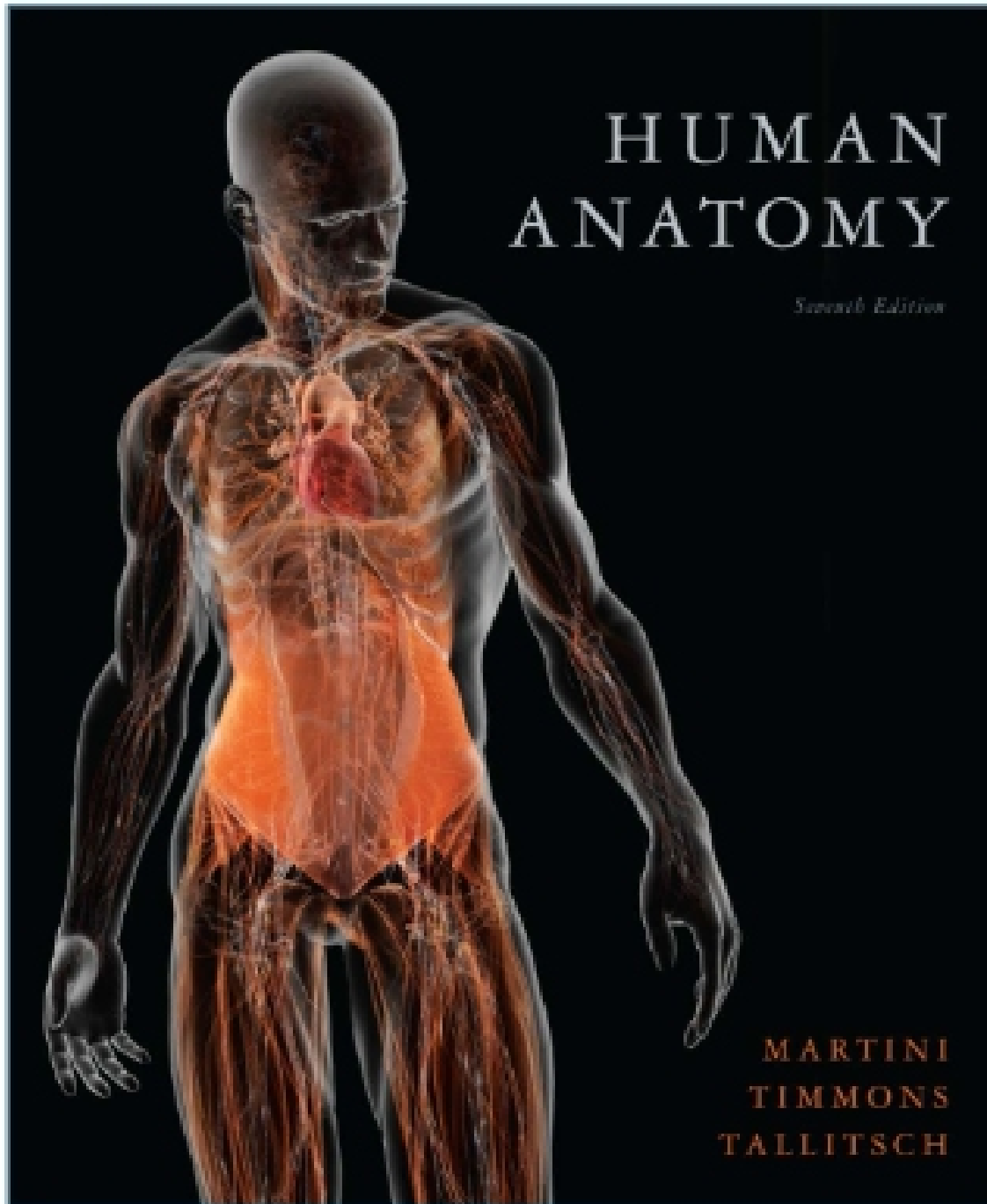


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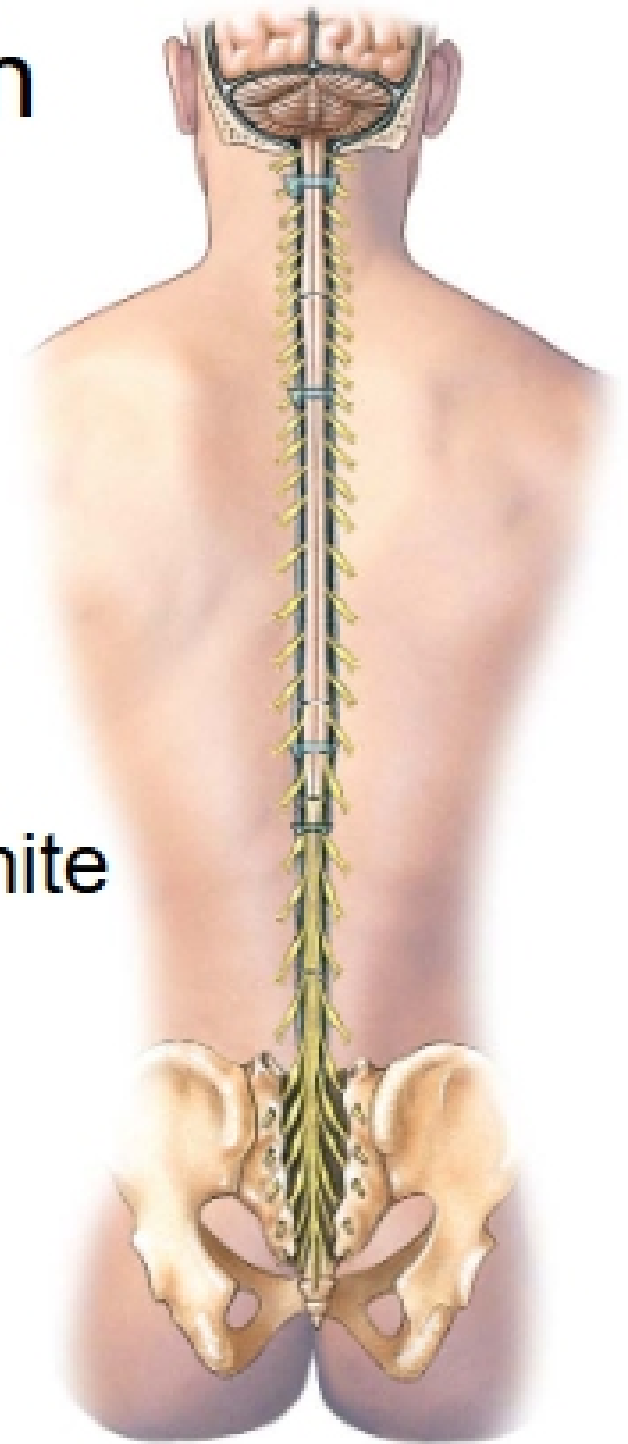
The Nervous System: The Spinal Cord and Spinal Nerves



Anatomical Organization of the Nervous System

(From Chapter 13)

- The organization of the neurons in the CNS and PNS is not random
 - Organization in the CNS
 - A collection of cell bodies in one area creates gray matter
 - Bundles of axons in an area create white matter; these are called **tracts** and **columns**
 - Organization in the PNS
 - The cell bodies are found in **ganglia**
 - Axons are bundled together to form **spinal nerves** and **cranial nerves**



Introduction

- The Central Nervous System (CNS) consists of:
 - The **spinal cord**
 - Integrates and processes information
 - Can function with the brain
 - Can function independently of the brain
 - The **brain**
 - Integrates and processes information
 - Can function with the spinal cord
 - Can function independently of the spinal cord

