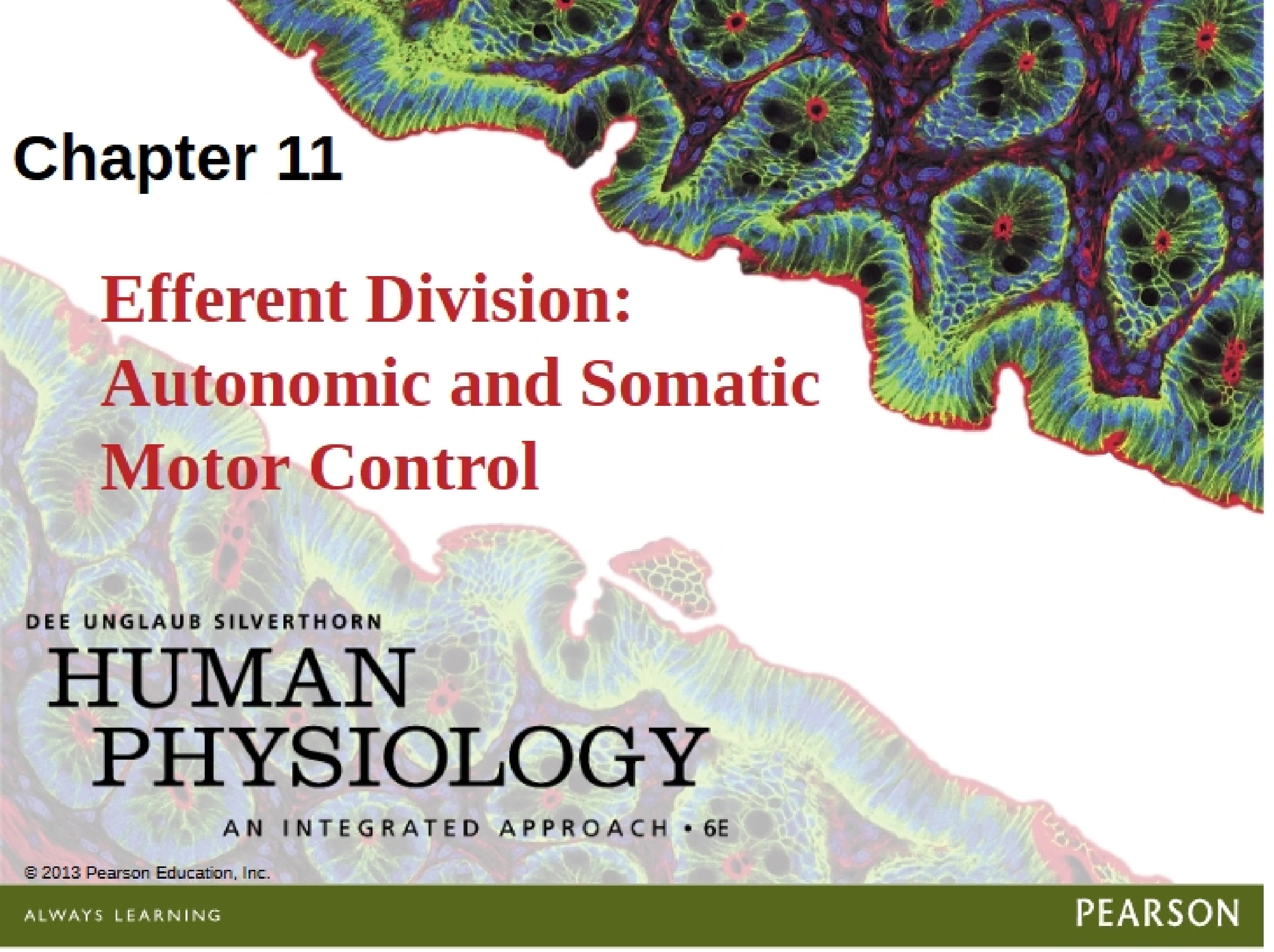


A detailed microscopic image of intestinal villi, showing the characteristic finger-like projections of the mucosal lining. The villi are stained with hematoxylin and eosin (H&E), with the nuclei appearing dark purple and the cytoplasm and connective tissue appearing pink. The image is positioned in the upper right corner of the slide.

Chapter 11

Efferent Division: Autonomic and Somatic Motor Control

DEE UNGLAUB SILVERTHORN

HUMAN PHYSIOLOGY

AN INTEGRATED APPROACH • 6E

© 2013 Pearson Education, Inc.

ALWAYS LEARNING

PEARSON

About This Chapter

- The autonomic division
- The somatic motor division

Efferent Division of the Peripheral Nervous System

- Somatic motor neurons
 - Control skeletal muscles
 - Mostly voluntary
- Autonomic neurons
 - Control smooth and cardiac muscle, many glands, lymphoid and some adipose tissues
 - Mostly involuntary
 - Sympathetic branch is fight-or-flight
 - Parasympathetic branch is rest-and-digest
 - Works with endocrine and behavioral state systems to maintain homeostasis