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## Chapter 7 The Peripheral Nervous System: Efferent Division

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### CHAPTER OUTLINE

#### 7.1 AUTONOMIC NERVOUS SYSTEM

The autonomic nervous system (ANS) is the involuntary branch of the PNS. Organs receiving input include: cardiac muscle, smooth muscle, most exocrine glands, some endocrine glands, and adipose tissues.

*An autonomic efferent pathway consists of a two-neuron chain. The preganglionic fiber has its cell body in the CNS with its axon projecting to a ganglion (cluster of neuronal cell bodies in the PNS) where it synapses with the cell body of the postganglionic fiber.*

The ANS has two subdivisions, the sympathetic and parasympathetic nervous systems. Sympathetic preganglionic nerve fibers originate in the thorax and lumbar regions of the spinal cord. Most sympathetic preganglionic fibers are short and synapse on cell bodies of postganglionic neurons within the ganglia that make up the **sympathetic ganglionic chain** or the **sympathetic trunk**. Some sympathetic preganglionic fibers pass through the sympathetic trunk and synapse on the postganglionic cell bodies at the **collateral ganglia**, about halfway between the CNS and the effector organ.

Parasympathetic preganglionic nerve fibers originate from the cranial and sacral regions of the CNS. These fibers are longer than those of the sympathetic system and synapse on cell bodies of postganglionic fibers in the **terminal ganglia** that lie in or very near the effector organs. Both sympathetic and parasympathetic preganglionic fibers release acetylcholine (ACh) that binds to nicotinic receptors on the postganglionic cells. *About sympathetic postganglionic fibers release norepinephrine (NE), which binds to  $\alpha$  and/or  $\beta$  receptors, except those that synapse on the sweat glands and release ACh. Parasympathetic postganglionic fibers release ACh. These postganglionic receptors are muscarinic.*

*The autonomic nervous system controls involuntary visceral organ activities. Most effector organs are innervated by both sympathetic and parasympathetic systems. This is called dual innervation. In most cases the two systems produce*

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**DJ Losen**



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