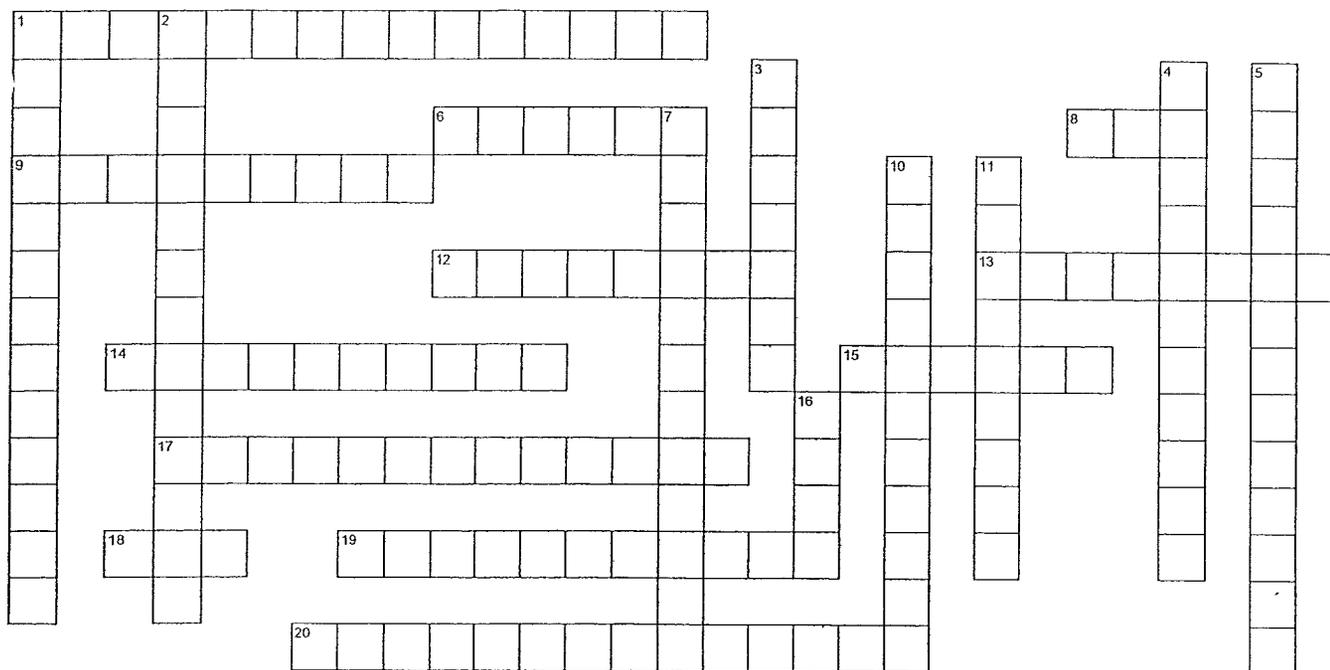


Chapter 15 The Autonomic Nervous System & Visceral Reflexes

Chapter 15 - A



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ACROSS

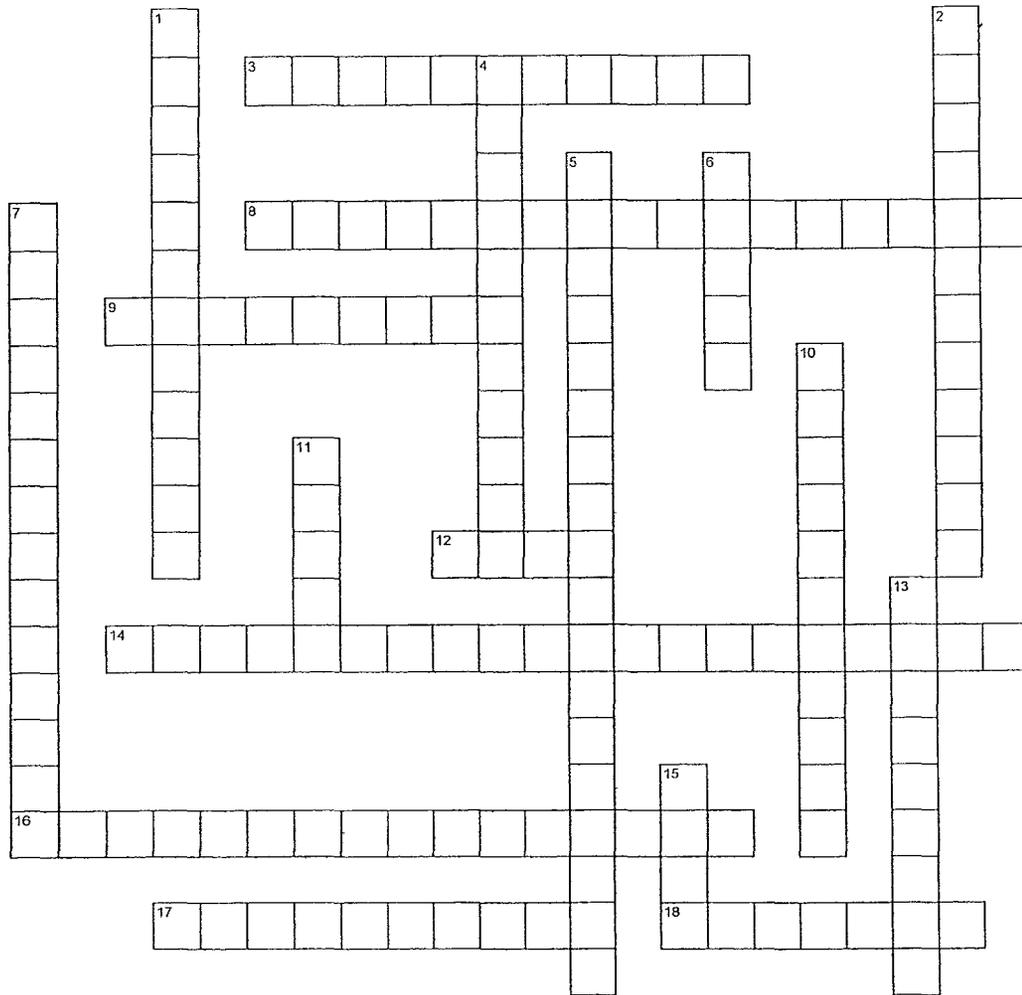
- 1 one of the two divisions of the ANS, 'resting and digesting'
- 2 one of the 3 major collateral ganglia in the abdominal aortic plexus
- 8 in Autonomic pathways, nerve signals must pass across ___ neurons to get to the target organs (spell number)
- 9 word that means 'self-governing'
- 12 parasympathetic ganglia in or near the target organ
- 13 ___ reflexes, reflexes that regulate blood pressure, heart rate, body temperature, digestion, etc
- 14 neuronal ____, each preganglionic fiber branches and synapses with multiple postganglionic fibers
- 15 Walter ___; Harvard physiologist who coined the terms "homeostasis" and "fight-or-flight"
- 17 another name for the Sympathetic Division
- 18 motor nervous system that controls glands, cardiac muscle and smooth muscle (abbrev)
- 19 of the 3 hormones secreted by the adrenal medulla, the one that makes up 85% of the mixture
- 20 ___ neuron, second neuron of Autonomic pathway whose axon extends to the target cell

DOWN

- 1 another name for the sympathetic chain of ganglia, located along each side of the vertebral column
- 2 background rate of firing activity of both divisions of the ANS (2 words)
- 3 the adrenal ___ is essentially a sympathetic ganglion
- 4 neuronal ___; each postganglionic cell may receive synapses from multiple preganglionic cells
- 5 ___ neuron, first neuron of Autonomic pathway, and has soma in brainstem or spinal cord
- 7 another name for the parasympathetic division of the ANS
- 10 division of the ANS that prepares the body for physical activity
- 11 there are about ___ postganglionic neurons for every preganglionic neuron in the sympathetic division (spell number)
- 16 the adrenal glands rest like hats on the superior pole of each kidney (write True or False)

Chapter 15 The Autonomic Nervous System & Visceral Reflexes

Chapter 15 - B



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ACROSS

- 3 gas neurotransmitter released by endothelial cells of blood vessels (2 words)
- 8 branch of medicine dealing with the effects of drugs on the nervous system
- 9 ___ tone, state of partial constriction of a blood vessel due to sympathetic firing
- 12 one of the 2 broad classes of adrenergic receptors
- 14 drugs that enhance parasympathetic action
- 16 drugs that enhance sympathetic action
- 17 ANS nerve fibers that secrete the neurotransmitter norepinephrine (NE)
- 18 ___ nervous system, the nervous system of the digestive tract

DOWN

- 1 major control center of the ANS
- 2 ANS effects that oppose each other
- 4 ANS effects that produce a unified overall effect
- 5 drugs that suppress parasympathetic action
- 6 the parasympathetic division exhibits more neuronal divergence than the sympathetic division (write True or False)
- 7 drugs that suppress sympathetic action
- 10 ANS nerve fibers that secrete the neurotransmitter acetylcholine (ACh)
- 11 ___ nerve carries about 90% of all parasympathetic preganglionic fibers
- 13 one of the 2 classes of cholinergic receptors
- 15 enzyme that breaks down acetylcholine (abbrev)