

Muscular System Study Guide

1. What chemical helps to regenerate ATP? creatine phosphate
2. Skeletal muscles are responsible for moving Your bones
3. Muscle fibers are made of individual fibers (not filaments) called myofibrils
4. Connective tissue that surrounds fascicles is perimysium
5. Poisons such as botulism that prevent the release of acetylcholine would cause muscles to be paralyzed
6. What type of muscles are: primarily voluntary skeletal muscle
makes up the heart cardiac muscle
found in the digestive tract smooth muscle
7. What neurotransmitter is associated with the muscles: acetylcholine
8. What cell organelle provides the ATP needed for muscle activity? Mitochondria
9. The gap between the nerve and the muscle is called the? Synapse
10. What is hypertrophy? Atrophy? Hypertrophy: increase in growth of muscle cells, _____
Atrophy: decrease in growth of muscle cells
11. A person who has a disease that inhibits the production of cholinesterase would have what kind of symptoms? Weakness, salivation, diarrhea, loss of bladder control, blurry vision
12. Cholinesterase is an enzyme that breaks down Acetylcholine
13. During a muscle contraction, cross-bridges form between what two structures?
Myofilaments
14. In a sarcomere, the I band is made of actin and the A band is made of Myosin
15. The dark and light fibers of the muscles give cells a Striated appearance.
16. The energy source for muscle contraction is ATP
17. Vesicles in the motor neuron store what substance? Acetylcholine
18. When recruitment occurs, the number of motor units be activated increase
19. Sustained contraction of individual fibers, even when the muscle is at rest is known as muscle tone

Muscular System Study Guide Cengage

SJ Ball



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