

Muscle Tissue Quiz PDF

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How does the phosphagen system contribute to muscle metabolism?				
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Which structure releases calcium ions to initiate muscle o	contraction?			
○ T-tubules				
○ Sarcoplasmic reticulum				
○ Myofibrils				
○ Sarcolemma				
Explain the role of calcium ions in muscle contraction.				
	//			
Which factors contribute to muscle fatigue?				
Lactic acid accumulation				
Oxygen debt				
☐ Increased ATP production				



☐ Depletion of glycogen stores
Which muscle tissue type is found in the walls of hollow organs?
Skeletal MuscleCardiac MuscleSmooth MuscleAll of the above
What neurotransmitter is involved at the neuromuscular junction?
DopamineSerotoninAcetylcholineGABA
Which condition is characterized by a progressive loss of muscle mass due to aging?
Muscular dystrophyMyasthenia gravisSarcopeniaHyperplasia
Which muscle fiber type is more resistant to fatigue?
○ Fast-twitch fibers○ Slow-twitch fibers○ Intermediate fibers○ None of the above
Which of the following are components of a motor unit?
Single motor neuron☐ All muscle fibers it innervates☐ Intercalated discs☐ T-tubules
Which disorders are associated with muscle tissue?
Muscular dystrophy



☐ Osteoporosis☐ Myasthenia gravis☐ Arthritis				
What is the function of satellite cells in muscle repair and regeneration?				
	//			
What is the primary function of cardiac muscle?				
Movement of bones				
O Pumping blood				
Digestion				
○ Heat production				
Which type of muscle tissue is under voluntary control?				
○ Cardiac Muscle				
○ Smooth Muscle				
Skeletal Muscle				
○ None of the above				
Which of the following are characteristics of skeletal muscle?				
☐ Striated appearance				
☐ Involuntary control				
☐ Multinucleated cells				
Found in heart walls				
What is the main energy source for muscle contraction?				
○ Glucose				
○ ATP				
○ Fatty acids				



○ Protein				
Describe the differences between hypertrophy and hyperplasia in muscle growth.				
	//			
What we account you invalved in move to contraction according to the cliding filement the con-	.0			
What processes are involved in muscle contraction according to the sliding filament theory	<i>.</i>			
☐ Actin and myosin interaction☐ Release of calcium ions				
☐ Breakdown of glycogen				
Use of ATP				
What is the significance of intercalated discs in cardiac muscle?				
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Discuss the impact of aging on muscle tissue and how it leads to sarcopenia.				
Discuss the impact of aging on muscle tissue and now it leads to sarcopema.				
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What are the roles of smooth muscle in the body?



Peristalsis		
☐ Blood flow regulation		
☐ Heat production		