

Name: _____

Hour: ____ Date: _____

Muscle Contraction WebQuest

Introduction

Welcome: Skeletal Muscle Contraction-Spinach Connection

Description: Learn the anatomy and physiology of a muscle contraction using animations. Project-based assessment concludes the WebQuest.

Grade Level: 9-12

Curriculum: Anatomy

Task 1: Review of muscle contraction concepts.

Watch the following animations in order and then answer the questions that follow.



Neuromuscular Junction

1. What causes voltage-gated calcium ion channels to open?
2. Calcium moving into the neuron causes vesicles to release a neurotransmitter. What's the name of this neurotransmitter?
3. What is the name of the enzyme that breaks down Ach?

Action Potentials and Muscle Contractions

4. Explain what you think a neuromuscular junction is.
5. What is the name of the protein that covers up the myosin binding sites on actin?
6. Create an analogy that describes the role of troponin & tropomyosin.
7. How would you describe a cross-bridge?

Breakdown of ATP and Cross-Bridge Movement during Muscle Contraction

Muscular System, Sliding Filament Theory 1

8. What is the connective tissue that connects muscle to bone called?
9. What is the connective tissue that separates **bundles** of muscle fibers?
10. What is the connective tissue that separates **individual** muscle fibers?

Muscle Contraction Webquest Question Answers

Raffaela Di Napoli



Muscle Contraction Webquest Question Answers:

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Regulation of Smooth Muscle Contraction Robert S. Moreland, 2012-12-06 Sixth Annual Graduate Hospital Research Symposium REGULATION OF SMOOTH MUSCLE PROGRESS IN SOLVING THE PUZZLE Every so often a scientific conference comes at a time when everyone has new and exciting information when old dogmas do not seem to be as well established and when speakers and participants alike are ready to challenge interpretations of old and new experimental data This was such a conference What turns on a smooth muscle cell The precise answer to this question has eluded scientists for much longer than I have been involved in the field We know that an increase in cytosolic calcium is necessary and we know that phosphorylation of the 20 kDa myosin light chain is an important step in the process We do not know if other processes are necessary for the initiation and/or maintenance of a smooth muscle contraction nor do we know if other processes modulate the regulation of contraction The goal of the symposium on which this volume is based was to explore the most current hypotheses for the answers to these questions I believe that after

reading the chapters included in this volume you will agree that this goal was achieved The importance of calcium and calmodulin dependent myosin light chain phosphorylation in the regulation of smooth muscle contraction was reinforced by many presentations However the status of myosin light chain phosphorylation as a simple calcium dependent switch came under serious suspicion **Regulation of Smooth Muscle Contraction** Robert S Moreland, 1992-01-31

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