

Name: \_\_\_\_\_

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## 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 Answers

**Tobias Bleicker**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Muscle Contraction Webquest Answers:**

Mosby's Pathology for Massage Professionals - E-Book Susan G. Salvo, 2021-09-05 Get complete massage pathology information in one convenient text Mosby's Pathology for Massage Professionals 5th Edition provides concise pathology information along with specific therapeutic recommendations Coverage of more than 300 pathologies shows you how to appropriately tailor treatment and more than 500 full color photographs make it easier to recognize common pathologies Written by massage therapy educator researcher and practitioner Dr Susan Salvo this resource provides the pathology knowledge you need to succeed in the classroom and in your career Coverage of more than 300 pathologies provides students with ample information without being overwhelming More than 500 full color photographs help students recognize common diseases and conditions Case studies in each chapter encourage students to apply their knowledge and develop clinical reasoning skills UNIQUE Hospital Based Massage chapter covers different protocols needed for massage therapists working in institutionalized care settings and provides useful information about working with clients who are medically fragile or in hospice care User friendly comprehensive format makes it easy to find key information with learning objectives a systems overview that includes the aging process and pathologies that feature descriptions etiologies signs and symptoms current treatment measures including medications in bold italics for easy identification and massage modifications UPDATED Refreshed artwork throughout the book visually reinforces key concepts and techniques UPDATED Information on the biopsychosocial model transmission based precautions and disinfection procedures for today's massage practice UPDATED Inclusion of sleep disorders opioids and CBD use by clients and their massage considerations UPDATED Addition of evidence based protocols for scar tissue constipation hypoglycemia and more UPDATED Detailed information on how to work with clients after surgery who have a colostomy amputations or who are on dialysis UPDATED Thoroughly reviewed and revised pathologies feature current research findings and reflect what students will encounter in today's massage therapy practice with a focus on evidence informed practice

**Muscle Contraction** Clive R. Bagshaw, 1982-10-21 The student of biological science in his final years as an undergraduate and his first years as a graduate is expected to gain some familiarity with current research at the frontiers of his discipline New research work is published in a perplexing diversity of publications and is inevitably concerned with the minutiae of the subject The sheer number of research journals and papers also causes confusion and difficulties of assimilation Review articles usually presuppose a background knowledge of the field and are inevitably rather restricted in scope There is thus a need for short but authoritative introductions to those areas of modern biological research which are either not dealt with in standard introductory textbooks or are not dealt with in sufficient detail to enable the student to go on from them to read scholarly reviews with profit This series of books is designed to satisfy this need The authors have been asked to produce a brief outline of their subject assuming that their readers will have read and remembered much of a standard introductory textbook of biology This outline then sets out to provide by building on this

basis the conceptual framework within which modern research work is progressing and aims to give the reader an indication of the problems both conceptual and practical which must be overcome if progress is to be maintained

The Sliding-Filament Theory of Muscle Contraction David Aitchison Smith, 2019-02-05 Understanding the molecular mechanism of muscle contraction started with the discovery that striated muscle is composed of interdigitating filaments which slide against each other. Sliding filaments and the working stroke mechanism provide the framework for individual myosin motors to act in parallel generating tension and loaded shortening with an efficient use of chemical energy. Our knowledge of this exquisitely structured molecular machine has exploded in the last four decades thanks to a bewildering array of techniques for studying intact muscle, muscle fibres, myofibrils and single myosin molecules. After reviewing the mechanical and biochemical background, this monograph shows how old and new experimental discoveries can be modelled, interpreted and incorporated into a coherent mathematical theory of contractility at the molecular level. The theory is applied to steady state and transient phenomena in muscle fibres, wing beat oscillations in insect flight muscle, motility assays and single molecule experiments with optical trapping. Such a synthesis addresses major issues, most notably whether a single myosin motor is driven by a working stroke or a ratchet mechanism, how the working stroke is coupled to phosphate release and whether one cycle of attachment is driven by the hydrolysis of one molecule of ATP. Ways in which the theory can be extended are explored in appendices. A separate theory is required for the cooperative regulation of muscle by calcium via tropomyosin and troponin on actin filaments. The book reviews the evolution of models for actin based regulation, culminating in a model motivated by cryo EM studies where tropomyosin protomers are linked to form a continuous flexible chain. It also explores muscle behaviour as a function of calcium level, including emergent phenomena such as spontaneous oscillatory contractions and direct myosin regulation by its regulatory light chains. Contraction models can be extended to all levels of calcium activation by embedding them in a cooperative theory of thin filament regulation and a method for achieving this grand synthesis is proposed. Dr David Aitchison Smith is a theoretical physicist with thirty years of research experience in modelling muscle contractility in collaboration with experimental groups in different laboratories.

*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     **Muscle Contraction** ,1980     Regulation of Smooth Muscle Contraction Robert S Moreland,1992-01-31

## The Enigmatic Realm of **Muscle Contraction Webquest Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Muscle Contraction Webquest Answers** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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