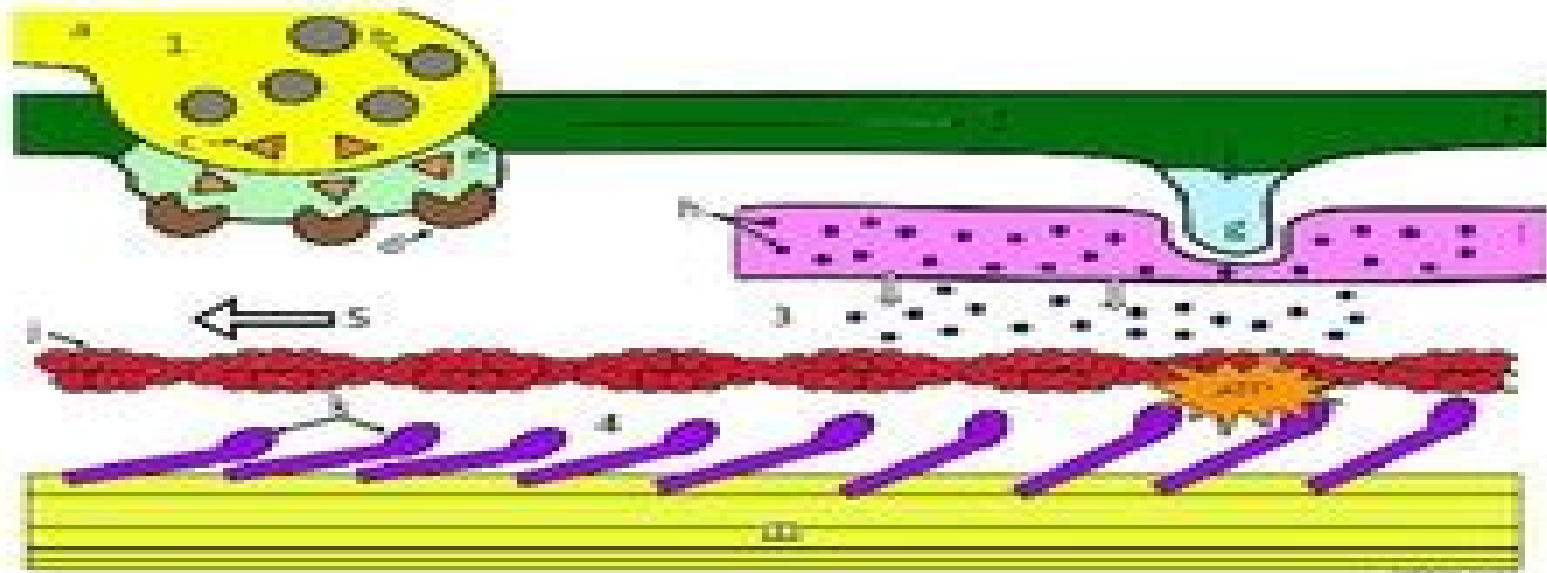


Sliding Filament Theory - The sliding filament theory explains muscle contraction based on how muscle fibers (actin and myosin) slide against each other to generate tension in the overall muscle.

Questions:

1. The motor unit consists of muscle fibers and a _____ motor neuron _____.
2. What neurotransmitter is needed to initiate a muscle contraction? acetylcholine _____.
3. What substance causes the actin to change shape? calcium _____.
4. How does myosin and actin interact with each other? cross-bridges _____.
5. What substance provides the energy for muscle contraction? ATP _____.
6. Where is calcium released from? sarcoplasmic reticulum _____.
7. What is the gap between the neuron and muscle fiber called? synapse or _____.
8. What are the two filaments found in muscles? actin and myosin _____.
9. Place the steps in order:
 - _____ 4 _____ Cross bridges form
 - _____ 1 _____ Signal travels down the motor neuron
 - _____ 2 _____ Calcium released from sarcoplasm
 - _____ 5 _____ ATP creates a power stroke, shortening actin filament
 - _____ 3 _____ Actin changes shape



The Muscular System Sliding Filament Theory

Worksheet Answers

Susan Lang



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Instructors Resource Guide Elaine N. Marieb, Barbara Stewart, 2001-11-02

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.

Sliding Filament Mechanism in Muscle Contraction Haruo

Sugi, 2007-04-27 Sliding Filament Mechanism in Muscle Contraction Fifty Years of Research covers the history of the sliding filament mechanism in muscle contraction from its discovery in 1954 by H E Huxley through and including modern day research. Chapters include topics in dynamic X ray diffraction, electron microscopy, muscle mechanisms in vitro, motility assay, cardiac versus smooth muscle motile systems and much more.

Considerations about a Theoretical Formalism for the Sliding Filament Theory of Muscle Contraction George Martin Thurston, 1978 If a mass is suspended from a spring, the spring will extend to a distance at which the force it exerts on the mass is equal in magnitude to the weight of the mass. The spring exerts a force on the mass at this equilibrium position, but after this position is reached and the mass is at rest, the spring does no work on the mass in any subsequent time interval and no energy needs to be supplied to the spring to

maintain it in this situation **Analysis of a Sliding Filament Model of Muscle Contraction** Steven Harvey Blumenthal,1977 **Sliding Filament Mechanism in Muscle Contraction** ,2005 **An Exact Solution of the Sliding Filament Model of Muscle Contraction During Sinusoidal Stretching and Its Applications** Samah Jafari,Harvard University--MIT Division of Health Sciences and Technology,1997 **Cells, Skeletal & Muscular Systems: The Muscular System - Movement - Google Slides Gr. 5-8** Susan Lang,2022-10-20 This is a Google Slides version of the The Muscular System Movement chapter from the full lesson plan Cells Skeletal Muscular Systems Our resource takes you through a fascinating study of anatomy with current information Finally end this part of the journey with the muscular system Identify voluntary and involuntary muscle movement All of our content is reproducible and aligned to your State Standards and are written to Bloom s Taxonomy About GOOGLE SLIDES This resource is for Google Slides use Google Slides is free with a Google email account We recommend having Google Classroom in addition to Google Slides to optimize use of this resource This will allow you to easily give assignments to students with a click of a button This resource is comprised of interactive slides for students to complete activities right on their device It is ideal for distance learning as teachers can share the resource remotely with their students have them complete it and return where the teacher can mark it from any location What You Get An entire Google Slides presentation with reading passages comprehension questions and drag and drop activities that students can edit and send back to the teacher A start up manual including a Teacher Guide on how to use Google Slides for your classroom and an Answer Key to go along with the activities in the Google Slides document **Cells, Skeletal & Muscular Systems: The Muscular System - Muscles Gr. 5-8** Susan Lang,2015-09-01 This is the chapter slice The Muscular System Muscles from the full lesson plan Cells Skeletal Muscular Systems What do cells bones and muscles have in common They are all part of the human body of course Our resource takes you through a fascinating study of the human body with current information written for remedial students in grades 5 to 8 We warm up with a look at the structures and functions of cells including specialized cells Next we examine how cells make up tissues organs and organ systems Then the eight major systems of the body are introduced including the circulatory respiratory nervous digestive excretory and reproductive systems Then on to an in depth study of both the muscular and skeletal systems Reading passages activities for before and after reading hands on activities test prep and color mini posters are all included All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives **The Theory of Sliding Filament Models for Vertebrate Striated Muscle Contraction and Insect Fibrillar Muscle Oscillation** Sam Richard Sicilia,1991

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