

Biology (Chapter 40)

Types of muscles

- i. skeletal muscles
- ii. cardiac muscles
 - a. also known
 - b. heart only
 - c. muscularly control (don't have to be controlled by)
- iii. smooth muscles — control body movement (found in digestive system)
 - a. not known (don't have shape)
 - b. muscularly control

Skeletal muscles

- muscle division
- appears striped/banded (don't and dark, myofibrils)
- voluntary
- mostly part of muscle fiber
- large cells
- control skeletal systems and movement
- each myofibril is surrounded by sarcolemma, cell nuclei + connective tissue hold together
- myofibrils, striated fibers (a long way for contraction)
- 2 thickening creates the myofibrils + pathways to each myofibril
- myofibrils + unit of a myofibril
- 2 lines connect to the myofibrils
- lines — thin filaments attach to 2 lines
- myofibrils — thick filaments

How do muscles contract?

- skeletal muscles, myofibrils produce the rapid force that contracting in action
- contracting, myofibrils (myofibrils) move, ATP is required

Muscle Contractions

- muscle unit — a motor neuron and all the muscle fibers that it innervates
- tetanus — waves in both the number of muscle fibers activated and the frequency of action potentials in each fiber (a rapid process)
- muscle twitches — first power, then longer, rate of contraction, speed blood supply, more ATP, more myofibrils (myofibrils) (myofibrils)
- fast twitch — more powerful, greater blood supply (a longer)

Cardiac structure

- heart only
- single nucleus

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Study Guide to Accompany Raven and Johnson Biology David A. Stetler, 1986 **Study Guide Life** Beck, 1991 Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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