

Biology (Chapter 40)

Types of muscles

- i. skeletal muscles
- ii. cardiac muscles
 - a. also known
 - b. heart only
 - c. involuntary control (can't think or control them)
- iii. smooth muscles — control body movement (found in digestive system)
 - a. not known/heart's own thing
 - b. involuntary control

Skeletal muscles

- striated structure
- appears striped/banded (thin and dark, myofibrils)
- voluntary
- mostly part of muscle fiber
- large cells
- connect skeletal systems and myofibrils
- each myofibril is surrounded by sarcolemma, cell nuclei + connective tissue hold together
- sarcolemma: electrical signal (a trigger for contraction)
- T-tubule controls the myofibrils + pathway to each myofibril
- sarcoplasm + rest of it is myofibril
- T-tube + connect to the sarcoplasm
- T-tube — thin structure, about 1/2 inch
- myofibril — thin structure

How do muscles contract?

- skeletal muscles, involuntary produce the rapid beats that contract in action
- contracting muscles (involuntary) move, not in response

Muscle Contractions

- tetanus — a muscle cannot rest all the muscle fibers that it contracts
- tetanus — waves in both the number of muscle fibers contracted and the frequency of action potentials in each fiber (a rapid process)
- tetanus — wave power, wave longer, rate of contraction, speed blood supply
- tetanus — wave longer, rate of contraction, speed blood supply
- tetanus — wave longer, rate of contraction, speed blood supply

Cardiac structure

- heart only
- large nucleus

Biology Chapter 40 Study Guide

**Gilbert D. Brum, Larry McKane, Gerald
Karp**



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