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Ch 6 The Muscular System Notes

Lisa Peck

Muscular System: consists of skeletal muscles and their connective tissue attachments

organ- skeletal muscle

consists of hundreds of muscle fibers (cells) bound tog. by connective tissue

cell- muscle fibers- elongated cells

largest (compared to smooth muscle)

primary function is contraction: ability to shorten dep. on myofilaments

muscle prefixes "myo" - muscle

"mys" - muscle

"sarco" - flesh



3 Muscle Types (p 178-181)

1. **Skeletal Muscle-** skeletal, striated, & voluntary

referred to as the human body's "muscular system"

location: attach to bones or indirectly to other connective tissues or cartilage

attach via tendons or aponeuroses

exception: some facial muscles attach to soft tissues (oth. muscles or skin)

function: create movement of bones or facial skin via contractions

contraction 1. regulation: voluntary

subject to conscious control via nervous system

only muscle type that is voluntary

2. speed: rapidly w/ great force

tire easily

must rest after activity

3. no rhythmic contractions

morphology: single cell

elongated cylindrical shape

myofiber (cell):

sarcolemma- muscle cell membrane

myofibrils- contractile organelles found in cytoplasm of muscle cells

long tube-like

have light and dark bands along length

many aligned perfectly w/ in sarcolemma

giving a striated appearance to cell

multinucleated- nuclei and cytoplasm pushed to edge of sarcolemma by

numerous myofibrils

sarcoplasmic reticulum- ER of cell

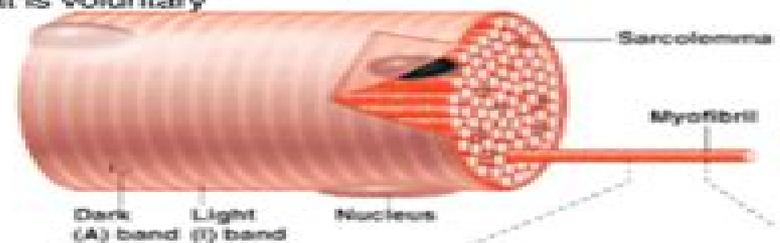
stores calcium (for contraction)

striated- banded appearance due to alignment of bands on myofibrils

myofibril bands created by arrangement of myofilaments within myofibril

myofilaments- filaments composing the myofibrils

two types: actin & myosin



Muscular System Exam Notes

Robert R. Redfield



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