

# Lab 5

Muscle  
Ex 14, 15

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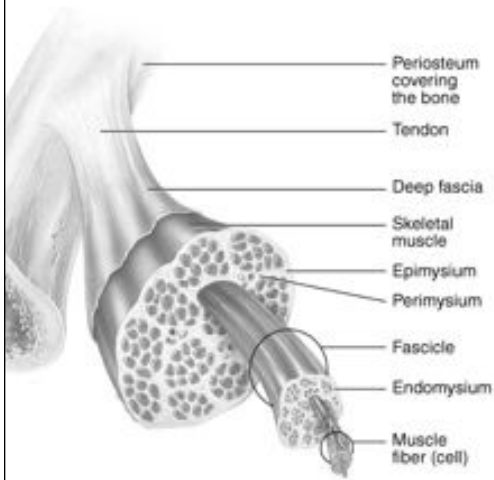
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## Muscle



- Muscle
  - bundles of fascicles held together by epimysium
  - attached to bone by tendon
- Fascicle
  - bundles of fibers held together by perimysium
- Fiber
  - another name for muscle cell
  - surrounded by endomysium

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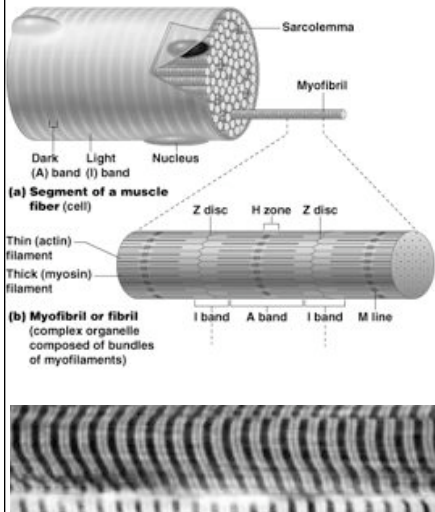
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# Muscle Fiber



- Long tube of muscle cells fused together
- multiple nuclei
- Myofibril: bundles of contractile proteins
- A Band (dark)
  - thick (myosin) filaments
  - some thin filaments too
- I Band (light)
  - only thin (actin) filaments

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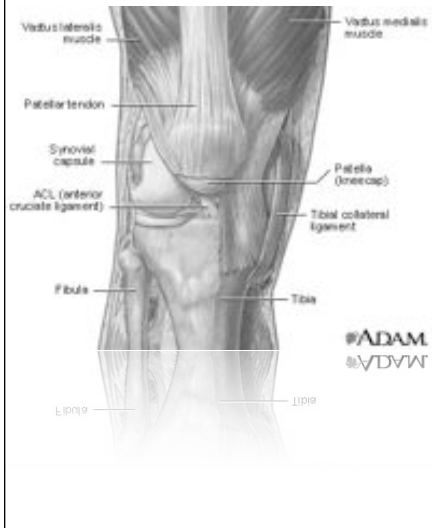
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# Connections



- Ligament
  - connects bone to bone
- Tendon
  - connects muscle to bone
- Aponeurosis
  - connects muscle to muscle



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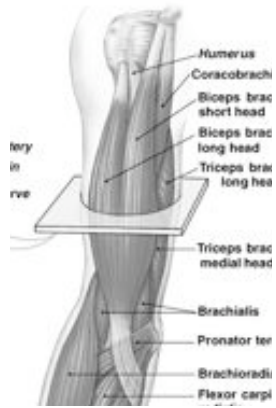
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# Origin & Insertion



- Origin
  - the “fixed” end of a muscle
  - usually does not move much during the action of the muscle
  - usually the proximal end of the muscle
- Insertion
  - the end of the muscle that moves more
  - usually the distal end

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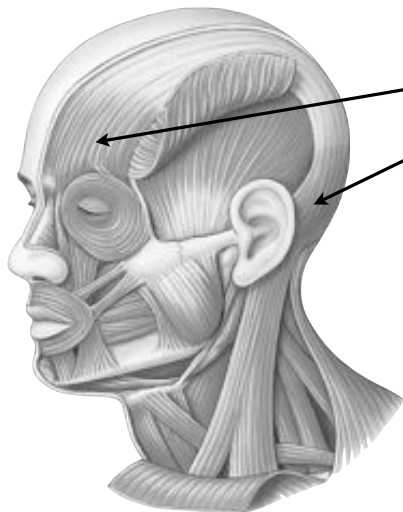
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# Head



- Epicranius
  - frontal belly
  - occipital belly
  - epicranial aponeurosis

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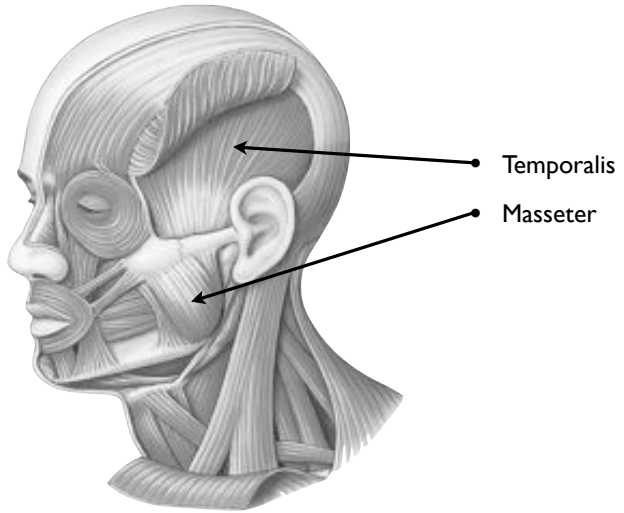
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# Head



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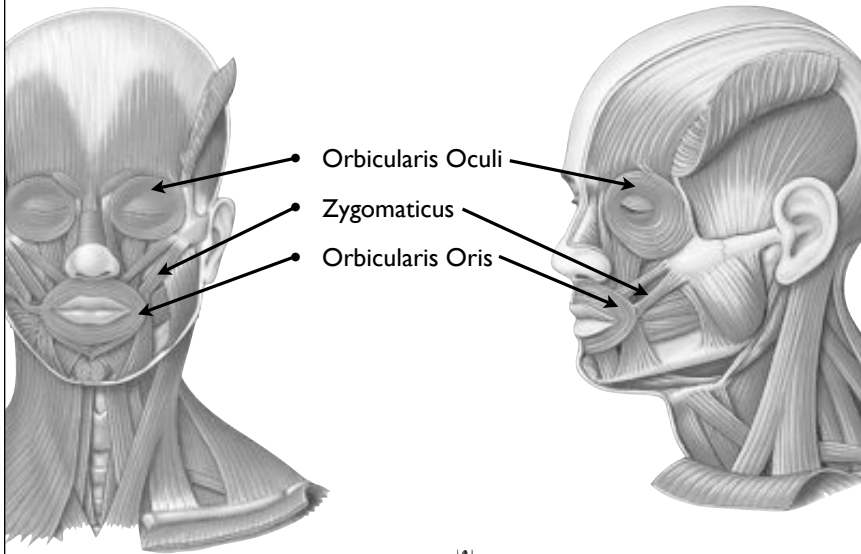
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# Head



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