

Lab 8 – Muscle Histology & Axial Muscles

For all muscles, be able to identify them on a model, know general know origins or insertions (main bones but not specific markings), and know their main actions (blue text).

Muscle Histology Model:

- Endomysium
- Mitochondria
- Myofibril
- Nucleus
- Sarcolemma
- Sarcoplasm
- Sarcoplasmic reticulum
- Terminal cisterna
- Transverse tubules
- Neuromuscular junction:
 - Glial Cell
 - Motor end plate
 - Motor neuron axon
 - Myelin sheath
 - Synaptic cleft
 - Synaptic vesicles

Muscle Slide (look for cs views of skeletal muscles)

- Muscle fiber (in cross section view)
- Endomysium
- Perimysium
- Epimysium
- Fascicle

Neuromuscular Junction

- Muscle fiber
- Muscle fiber nucleus
- Motor end plate
- Motor neuron axon

Muscles of the Head & Shoulder Model:

- Epicranii (= Frontalis/Occipitalis for frontal/occipital bellies, respectively)
- Orbicularis oculi*
- Levator labii superioris
- Zygomaticus (major & minor)
- Risorius
- Depressor anguli oris
- Orbicularis oris*
- Buccinator
- Masseter*
- Temporalis*
- Lateral Pterygoid
- Medial Pterygoid
- Sternocleidomastoid*
- Scalenes*
- Digastric
- Omoxyoid
- Sternohyoid
- Pectoralis major*
- Deltoid*
- Pectoralis minor
- Trapezius*
- Levator scapulae
- Rhomboids (major & minor)
- Splenius

Muscles only on the “Muscle Man” Model

- Serratus anterior
- Rectus abdominis
- External oblique
- Latissimus dorsi
- Infraspinatus
- Teres major

* = also know on “muscle man” model

Lab 9 – Muscles of the Limbs

For all muscles, be able to identify them on a model, know general know origins or insertions (main bones but not specific markings), and know their main actions (blue text).

Muscles on the Arm Model (Tables 12.4-6):

Deltoid* (Table 12.3)
Infraspinatus*
Supraspinatus
Teres major*
Triceps brachii*
Biceps brachii*
Brachioradialis
Pronator teres
Flexor carpi radialis
Palmaris longus
Flexor carpi ulnaris
Extensor carpi radialis longus
Extensor carpi radialis brevis
Extensor digitorum
Extensor carpi ulnaris
Abductor pollicis longus
Extensor pollicis brevis

Muscles on the Leg Model (Tables 12.8-10):

Sartorius*
Adductor longus*
Adductor magnus
Pectineus*
Gracilis*
Rectus femoris*
Vastus lateralis*
Vastus medialis*
Tensor fasciae latae*
Gluteus maximus*
Gluteus medius*
Biceps femoris*
Semitendinosus*
Semimembranosus
Fibularis longus (= peroneus longus)
Fibularis brevis (= peroneus brevis)
Tibialis anterior
Extensor digitorum longus
Gastrocnemius*
Soleus
Flexor digitorum longus

* = also know on “muscle man” model