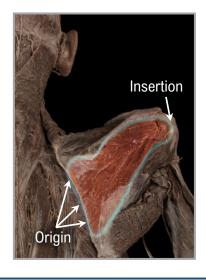
TOPIC: FASICLE ARRANGEMENTS

TOTIO: TAGIOLL ANNANOLIMENTO	
Recall: Fascicles are groups of muscle	bound by perimysium.
\bullet Length of fibers \approx of contraction.	• Number of fibers \approx of contraction.
1. Parallel: fibers run of muscle. ■ E.g., sartorius • Fusiform: shaped. ■ E.g., bicep brachii	4. Pennate: Short fibers run at an from one side of a tendon. ■ E.g., Extensor Digitorum Longus
2. Convergent: Origin than insertion. ■ E.g., Pectoralis Major	5. Bipennate: Fibers extend from sides of a central tendon. ■ E.g., Rectus Femoris
3. Circular (): Wrap an ■ E.g., Orbicularis Oculi	6. Multipennate: Fibers extend from tendon. ■ E.g., Deltoid

EXAMPLE: Below is an image of the muscles of the back in a cadaver. The infraspinatus is highlighted.



- a) Based on the image, what type of fascicle arrangement does the infraspinatus appear to have?
- b) Is this fascicle arrangement optimized for force generation or for range of movement?

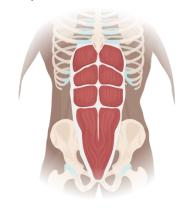
PRACTICE: Which fascicle arrangement is most well suited to a muscle that needs to generate a lot of force over a small distance?

- a) Unipennate.
- b) Multipennate.
- c) Circular.
- d) Fusiform.

TOPIC: FASICLE ARRANGEMENTS

PRACTICE: Four muscles are shown below. Based on their fascicle arrangement, which muscle doesn't belong in the group?

a) Rectus Abdominis.



b) Interossei.



c) Bicep Brachii.



d) Sternocleidomastoid.

