Muscles Crossword Puzzle!

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| **Across**  **4.** Muscle found under the scapula that helps form the rotator cuff in Image #10, shown in the arrow below  **8.** Another name for long fibered muscles or paralleled muscles.  **12.** Muscle growth from heavy training is muscle...  **14.** The ion that binds to troponin to contract a muscle, by pulling tropomyosin away from the cross-bridge binding site.  **17.** Fiber length is determined by the number of \_\_\_\_\_\_\_\_\_\_\_\_ in a series, in Image #12  **18.** The point where a muscle connects to but never moves.  **20.** With long term inactivity, this replaces muscle fibers.  **22.** The state of the skeletal muscle shown in Image #2  **23.** Image #4 shows a muscle contracting but not shortening, this is an example of what type of contraction  **24.** A twisting force that tends to cause rotation.  **25.** Look at Image #1, what are the structures in red?  **26.** Lack of muscle activity resulting in decrease in muscle mass.  **27.** The state of the skeletal muscle shown in Image #3  **28.** Muscle architecture found in the superficial, lateral surface of the shoulder, in Image #9  **29.** The muscle shown in Image #8 | **Down**  **1.** The largest gluteal muscle.  **2.** The abbreviation for the area of muscles that is proportional to muscle force.  **3.** In skeletal muscle, which muscle protein blocks the cross-bridge binding site on actin?  **5.** Name the five individual units that make up the motor neuron shown in Image #5.  **6.** During what phase of muscle movement is indicated in Image #6  **7.** Name the large, easily fatigued muscle fibers shown in the photo below.  **9.** The muscle responsible for abducting the thigh at the hip, inserted at the anterior surface of the greater trochanter, shown in Image #11  **10.** The term/name used to describe a straight muscle.  **11.** Another word commonly used for the term “externus”.  **13.** Action potentials in the motor neuron cause the release of this chemical  **15.** The type of contraction in Image #7  **16.** The muscle protein involved in muscle contraction that pairs with Tropomyosin in the thin filaments, within the skeletal muscles.  **19.** As part of the \_\_\_\_ system, muscle acts to produce force.  **21.** The type of skeletal muscle fiber that is small in diameter and fatigue resistant. |