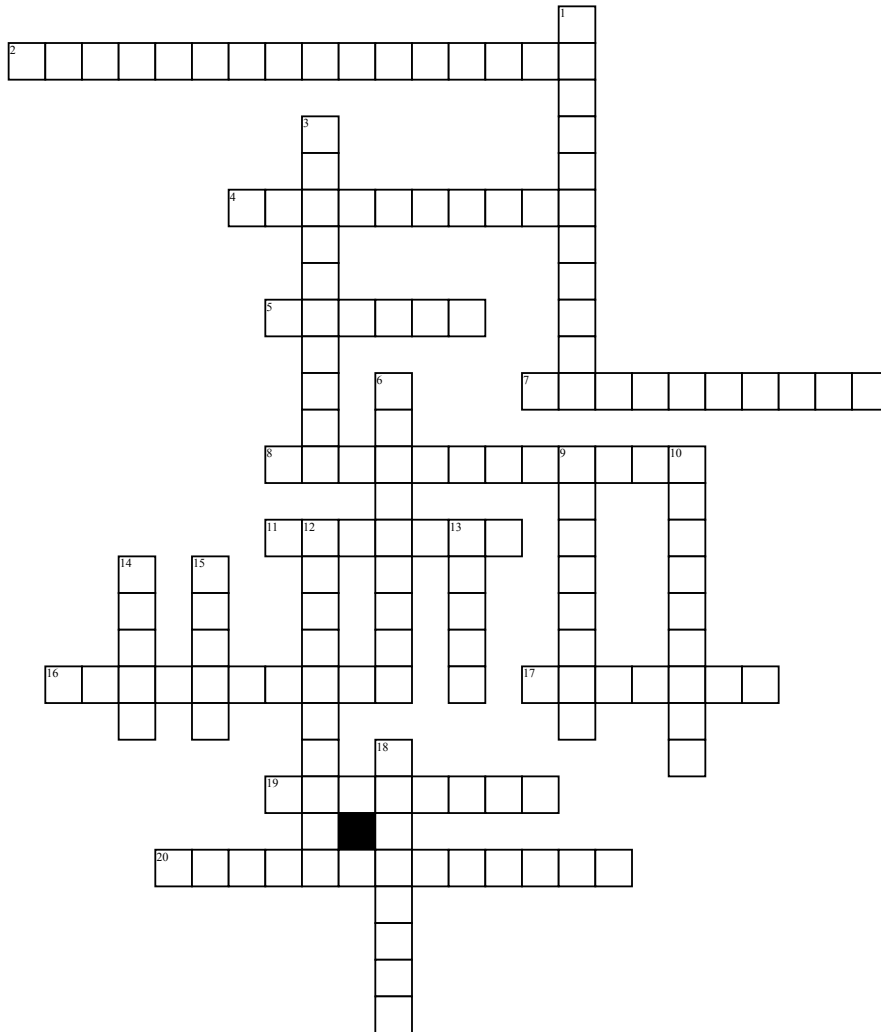


# Muscular System Crossword Puzzle



## Across

2. A chemical substance that is released at the end of a nerve fiber by the arrival of a nerve impulse and, by diffusing across the synapse or junction, causes the transfer of the impulse to another nerve fiber, a muscle fiber, or some other structure.
4. The cytoplasm of striated muscle cells.
5. Thick filament protein with a head and elongated tail, the heads form cross bridges with the thin filaments during muscle contraction.
7. A connective tissue that surrounds each muscle fiber.
8. It is found in a hollow structures of the body like the intestines, blood vessels, and urinary bladder.
11. A large triangular muscle covering the shoulder joint and serving to abduct, flex, extend and rotate the arm.

16. It is an inflammation of a tendon.

17. What type of muscle has intercalated discs?

19. A short band of tough, flexible, fibrous connective tissue that connects two bones or cartilages or holds together a joint.

20. A compound that occurs throughout the nervous system, in which it functions as a neurotransmitter.

## Down

1. It is a long, fibrous protein that winds around the actin polymer, blocking all the myosin-binding sites.

3. A connective tissue that surrounds groups of 10-100 individual muscle fibers separating them into bundles called fascicles.

6. This muscle of facial expression raises your eyebrows and wrinkles the skin of your forehead.

9. What type of muscle is voluntary?

10. A connective tissue that surrounds the entire skeletal muscle (outside)

12. What is the ability of a muscle to recoil after being stretched?

13. What is the light area of the sarcomere?

14. It is the center part of the sarcomere that gets smaller when a muscle contracts and appears when the muscle relaxes.

15. A protein that forms (together with myosin) the contractile filaments of muscle cells, and is also involved in motion in other types of cells.

18. A bundle of skeletal muscle cells that group together to form skeletal muscles.

## Word Bank

Acetylcholine

Frontalis

I Band

Cardiac

Fascicle

Endomysium

Epimysium

H Band

Actin

Sarcoplasm

Deltoid

Skeletal

Ligament

Myosin

Neurotransmitter

Elasticity

Perimysium

Smooth Muscle

Tendinitis

Tropomyosin