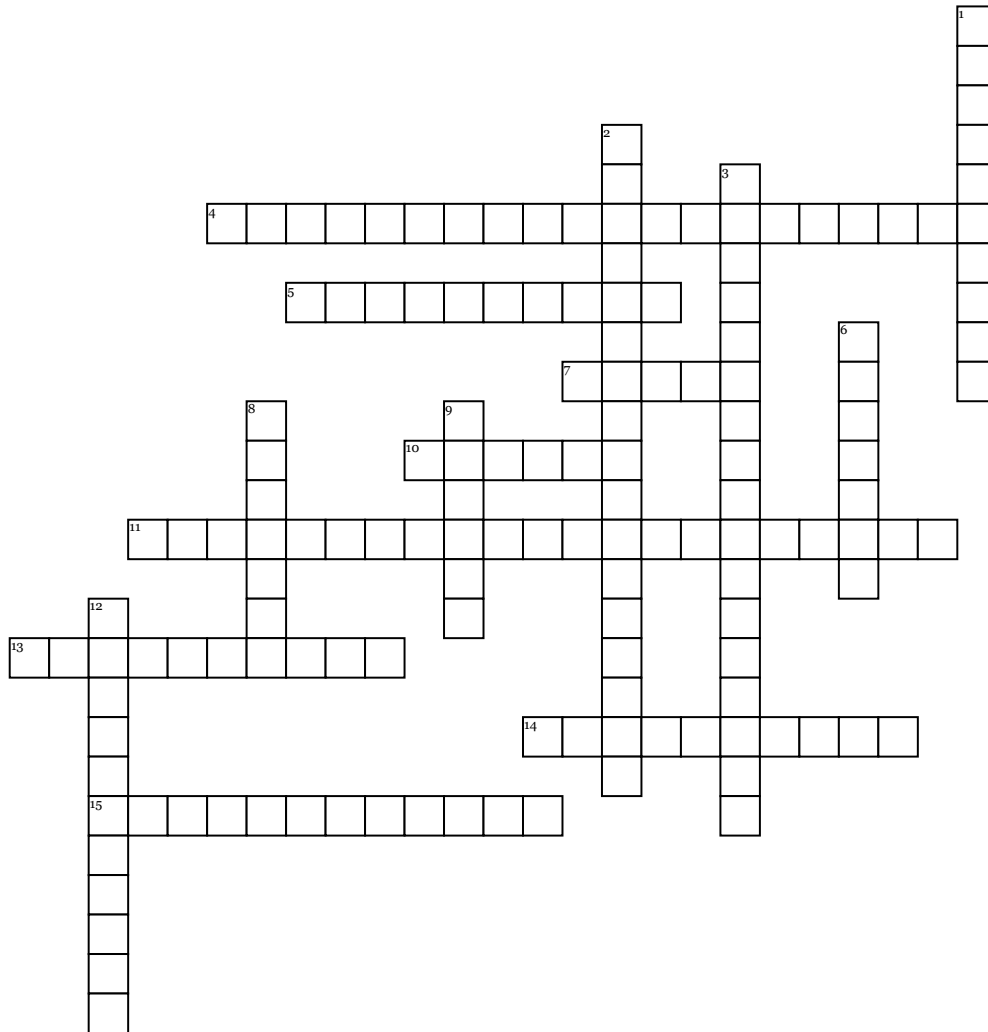


Name: _____

Date: _____

Muscle Cell Crossword



Across

4. is a muscle tissue that features repeating functional units called sarcomeres, in contrast with smooth muscle tissue which does not

5. microscopic protein filaments that make up muscle cells

7. a protein that forms (together with myosin) the contractile filaments of muscle cells

10. a fibrous protein that forms (together with actin) the contractile filaments of muscle cells

11. the specialized endoplasmic reticulum of cardiac muscle and skeletal striated muscle that functions especially as a storage and release area for calcium

13. the fine transparent tubular sheath which envelops the fibers of skeletal muscles

14. the formation of muscular tissue, particularly during embryonic development

15. where the ATP is produced

Down

1. is a specialized animal cell which can shorten its length using a series of motor proteins specially arranged within the cell

2. interactions between actin and myosin filaments of the sarcomere

3. enlarged areas of the sarcoplasmic reticulum surrounding the transverse tubules

6. conducts impulses from the surface of the cell (sarcolemma) down into the cell and, specifically, to another structure in the cell called the sarcoplasmic reticulum

8. long tubular cells that develop from myoblasts to form muscles in a process known as myogenesis

9. a fibrous protein that forms (together with actin) the contractile filaments of muscle cells

12. a protein involved in muscle contraction

Word Bank

Myosin

Mitochondria

Myosin

Terminal cisternae

Myocyte

Sarcoplasmic Reticulum

Actin

T-Tubule

Myofibrils

Myogenesis

Muscle Cell

Striated Muscle Tissue

Muscle Contraction

Sarcolemma

Tropomyosin