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Muscle Cell Crossword

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| **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 |

   Sarcoplasmic Reticulum       Terminal cisternae       T-Tubule       Sarcolemma       Myosin       Actin       Myogenesis       Myocyte        Myosin       Muscle Contraction       Tropomyosin       Mitochondria       Striated Muscle Tissue       Myofibrils       Muscle Cell