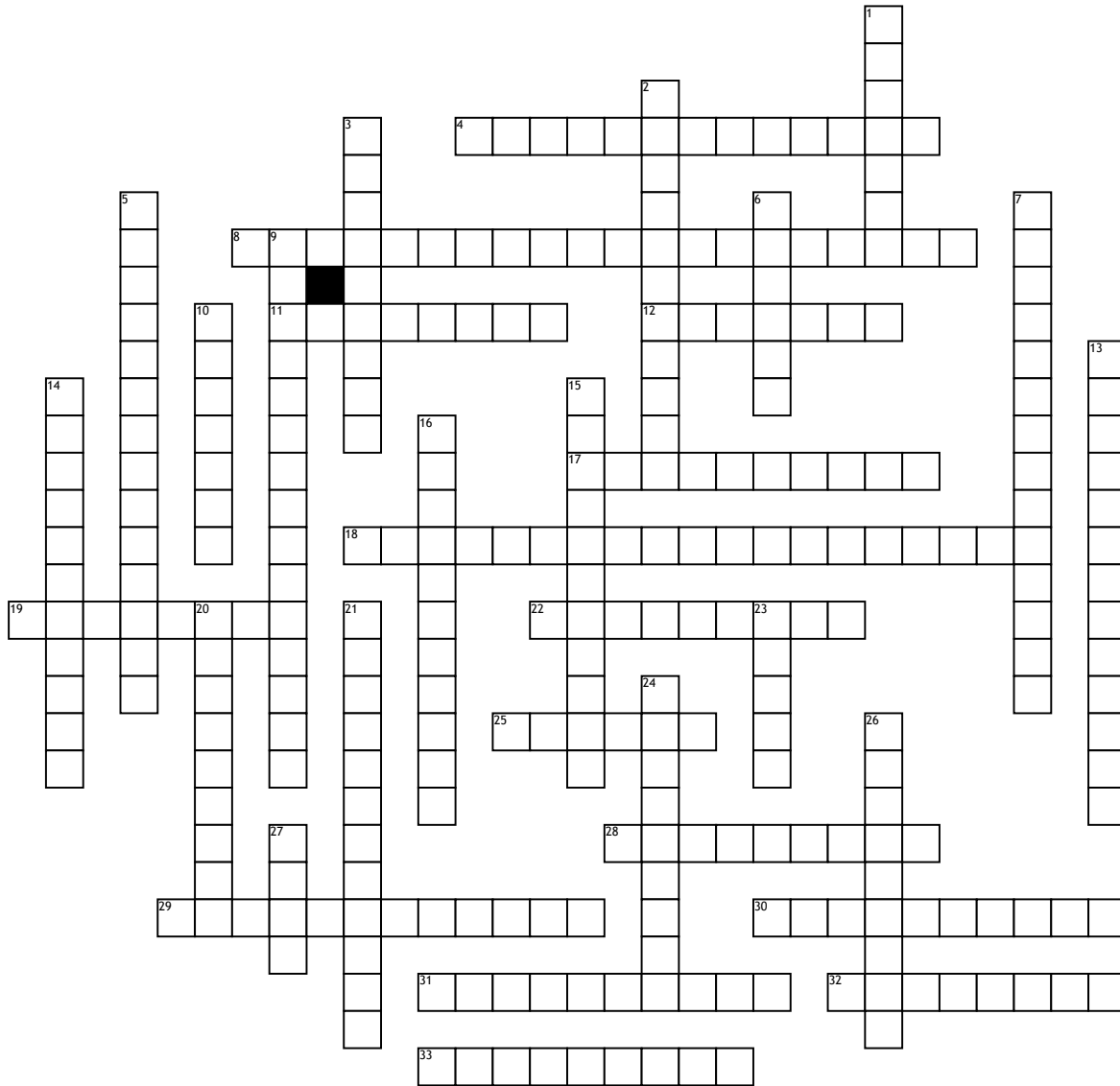


# Cell Vocabulary



## Across

4. a eukaryotic cell, the cell organelle that is surrounded by two membranes and that is the site of cellular respiration, which produces ATP
8. a system of membranes that is found in a cell's cytoplasm and that assists in the production, processing, and transport of proteins and in the production of lipids
11. a rigid structure that surrounds the cell membrane and provides support to the cell
12. an organelle of plant cells that contains specific substances and performs specific functions for the cell
17. all living things are made up of cells, cells are the basic units of organisms, that each cell in a multicellular organism has a specific job, and that cells come only from existing cells
18. a double layer of phospholipids that makes up plasma and organelle membranes
19. a cell organelle that contains digestive enzymes
22. an organism made up of cells that have a nucleus enclosed by membrane, multiple chromosomes, and a mitotic cycle; eukaryotes include protists, animals, plants, and fungi but not archaea or bacteria
25. a hairlike structure arranged in tightly packed rows that projects from the surface of some cells
28. an organelle that is active during mitosis
29. the cell's outer boundary
30. a single-celled organism that does not have a nucleus or membrane-bound organelles; examples are archaea and bacteria

31. in a eukaryotic cell, one of the structures in the nucleus that are made up of DNA and protein; in a prokaryotic cell, the main ring of DNA
32. a cell organelle composed of RNA and protein; the site of protein synthesis
33. a long, hairlike structure that grows out of a cell and enables the cell to move

## Down

1. the soluble portion of the cytoplasm, which includes molecules and small particles, such as ribosomes, but not the organelles covered with membrane
2. a green pigment that is present in most plant and algae cells and some bacteria, that gives plants their characteristic green color, and that absorbs light to provide energy for photosynthesis
3. the region of the cell within the membrane that includes the fluid, the cytoskeleton, and all of the organelles except the nucleus
5. a large cavity or sac that is found in plant cells or protozoans and that contains air or partially digested food
6. a group of similar cells that perform a common function
7. a cell organelle that helps make and package materials to be transported out of the cell
9. the double membrane that surrounds the nucleus of a eukaryotic cell
10. an atom's central region, which is made up of protons and neutrons
13. a fiber found inside eukaryotic cells that is composed mainly of the protein actin and that has a role in cell structure and movement
14. a collection of organs that carry out specific bodily functions
15. one of the small, tubular fibers composed of the protein tubulin that are found in the cytoplasm of eukaryotic cells, that compose the cytoskeleton, and that play a role in cell structure and movement
16. an organelle found in plant and algae cells where photosynthesis occurs
20. one of the small bodies that are found in the cytoplasm of a cell and that are specialized to perform a specific function
21. the cytoplasmic network of protein filaments that plays an essential role in cell movement, shape, and division
23. a collection of tissues that carry out a specialized function of the body
24. the part of the eukaryotic nucleus where ribosomal RNA is synthesized
26. a membrane system found within chloroplasts that contains the components for photosynthesis
27. the smallest unit that can perform all life processes within biology