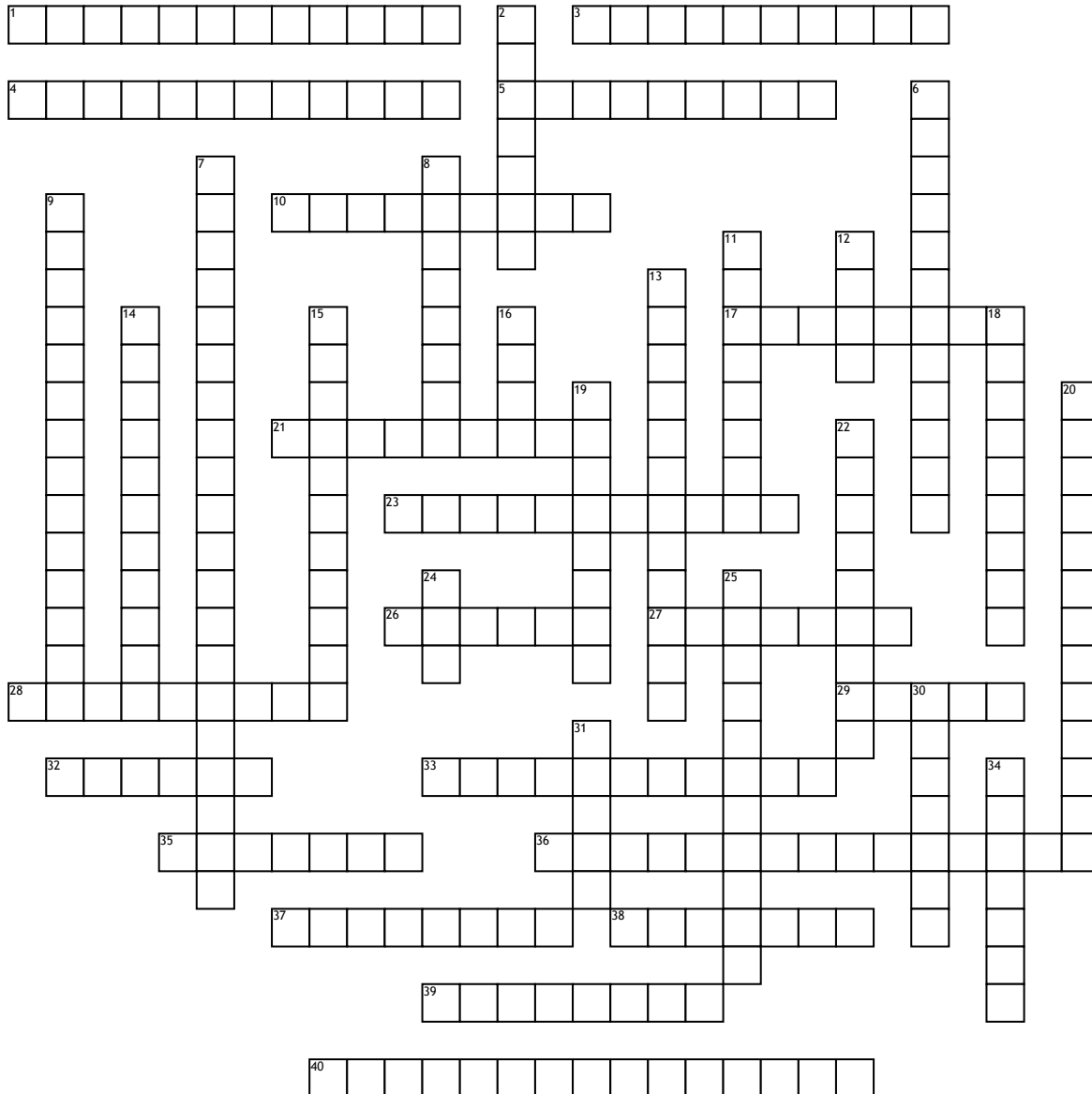


The Cell



Across

1. a microscopic network of protein filaments and tubules in the cytoplasm
3. a single celled organism, microscopic
4. a thin polar membrane of two layers of lipid molecules
5. supports and protects cell organelles, gel-like fluid
10. makes ribosomes
17. breaks down larger food molecules into smaller molecules
21. a microscopic whiplike appendage that enables many protozoa, bacteria, spermatozoa to swim
23. in the nucleus carrying genetic information in the form of genes
26. acts as a catalyst to bring about a specific biochemical reaction
27. involved in some protein production, protein folding, quality control and dispatch
28. a minute cylindrical organelle near the nucleus
29. oils, waxes, and steroids
32. short microscopic hair-like vibrating structure

33. package and export proteins

35. the "brain" of the cell

36. double membrane structure that surrounds the nucleus

37. site of protein production

38. a fluid- or air-filled cavity or sac

39. a rigid layer of polysaccharides lying outside the plasma membrane

40. controls what comes in and out of nucleus

Down

2. store food, water, metabolic and toxic wastes

6. a lipid containing a phosphate group in its molecule

7. carries material through the cell

8. sheetlike structure acting as a boundary, lining, or partition in an organism

9. microscopic membrane of lipids and proteins

11. a group of atoms held together

12. the basic unit of a chemical element

13. breaks down sugar molecules to release energy

14. a plastid that contains chlorophyll, where photosynthesis takes place

15. protein-lined channel in the nuclear envelope that regulates the transportation of molecules between the nucleus and the cytoplasm

16. smallest structural and functional unit of an organism

18. an organism consisting of a cell or cells in which the genetic material is DNA

19. production and metabolism of fats and steroid hormones

20. the cell is the basic structural, functional, and biological unit of all known living organisms

22. organized or specialized structures within a living cell

24. self-replicating material, carries genetic information

25. a complex organic substance present in living cells

30. long chains of amino acids, essential to all living organisms

31. hair-like appendage found on the surface of many bacteria

34. multicellular but do not have cells differentiated into tissue