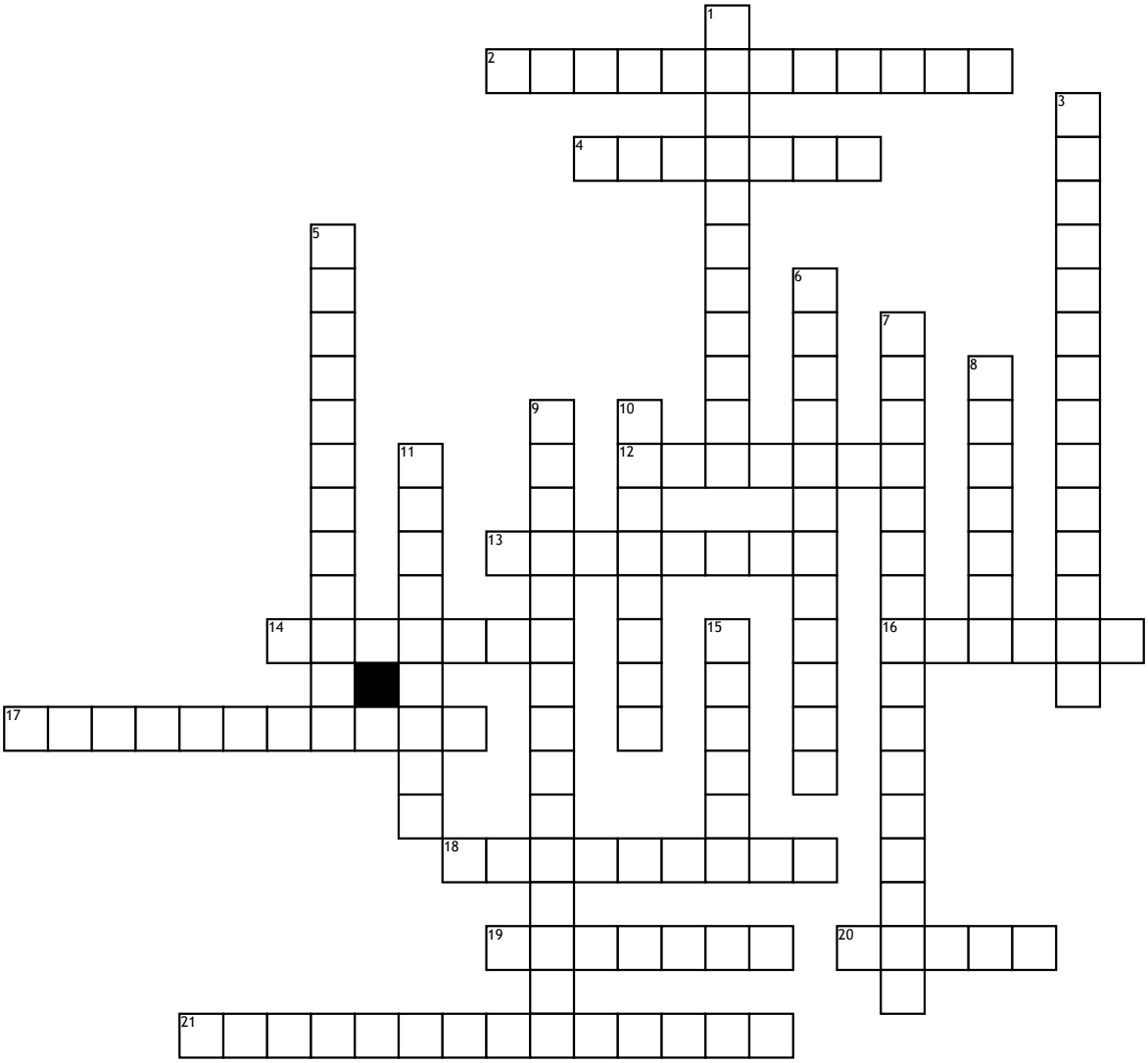
Name: _____ Date: _____

Cell Biology



Across

2. an organelle found in large numbers in most cells, in which the biochemical processes of respiration and energy production occur

4. molecules of a solvent tend to pass through a semipermeable membrane from a less concentrated solution into a more concentrated one

12. a type of cell division that results in two daughter cells each having the same number and kind of chromosomes as the parent nucleus, typical of ordinary tissue growth

13. a minute particle consisting of RNA and associated proteins found in large numbers in the cytoplasm of living cells

14. a space or vesicle within the cytoplasm of a cell, enclosed by a membrane and typically containing fluid

16. any of the distinct types of material of which animals or plants are made, consisting of specialized cells and their products

17. the cytoplasmic division of a cell at the end of mitosis or meiosis, bringing about the separation into two daughter cells

18. a complex of vesicles and folded membranes within the cytoplasm of most eukaryotic cells, involved in secretion and intracellular transport

19. a network of tubular membranes within the cytoplasm of the cell, rough

20. a part of an organism which is typically self-contained and has a specific vital function

21. the process by which green plants and some other organisms use sunlight to synthesize nutrients from carbon dioxide and water

Down

1. a plastid in green plant cells which contains chlorophyll and in which photosynthesis takes place

3. a complex of vesicles and folded membranes within the cytoplasm of most eukaryotic cells, involved in secretion and intracellular transport

5. controls the passage of substances into and out of the cell Also called plasmalemma

6. a microscopic network of protein filaments and tubules in the cytoplasm of many living cells, giving them shape and coherence

7. movement of biochemicals and other atomic or molecular substances across cell membranes without need of energy input

8. a dense organelle present in most eukaryotic cells, typically a single rounded structure bounded by a double membrane, containing the genetic material

9. the movement of ions or molecules across a cell membrane into a region of higher concentration, assisted by enzymes and requiring energy.

10. a network of tubular membranes within the cytoplasm of the cell, smooth

11. the intermingling of substances by the natural movement of their particles

15. interactions of the key elements such as DNA, RNA, proteins, and cells with respect to one another

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