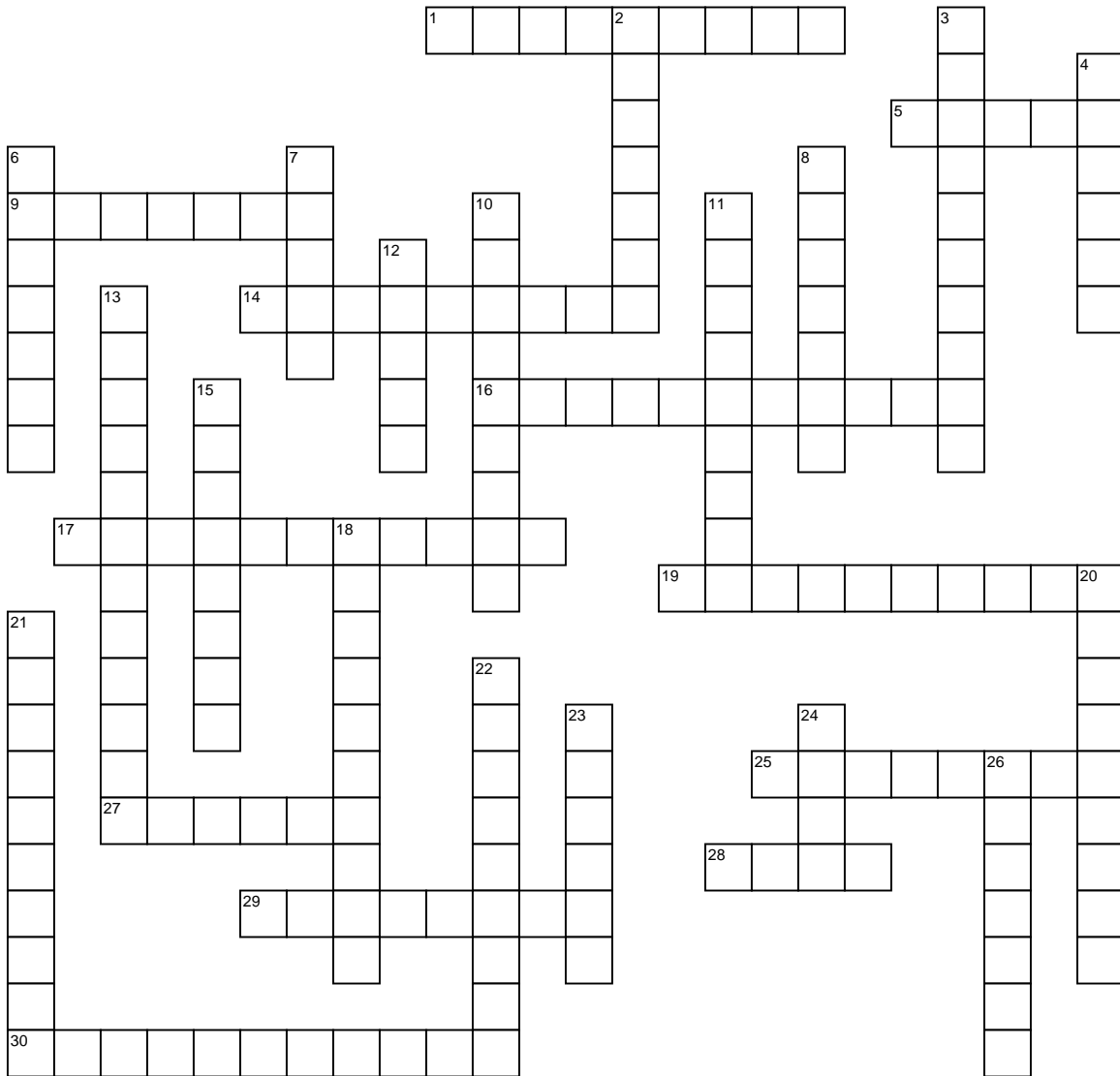


Plants -- 4.1

Cells



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ACROSS

- 1 – The inside parts of a cell
- 5 (apparatus) – Cell organelle, important for glycosylation and secretion in cells.
- 9 – The branch of biology that deals with the structure of organisms.
- 14 – Plant tissue capable of cell division and responsible for growth.
- 16 – Cell with DNA not enclosed in a nucleus.
- 17 – Minute objects within plant cells which contain the green pigment, chlorophyll.
- 19 – A minute protoplasmic body sometimes held to be the dynamic center of mitotic activity.
- 25 – A semipermeable film, composed of lipids and proteins, enclosing the cytoplasm and organelles of a cell.
- 27 – tissue relating to the apex or tip of shoots and roots.
- 28 – The outer layer, composed of cellulose, which gives support to the plant cell.
- 29 – An organelle bounded by a membrane and containing enzymes capable of breaking down proteins and other molecules.
- 30 – Structure (reticulum) extending throughout the cytoplasm of a cell.

DOWN

- 2 – The central portion of the cell protoplast surrounded by a very thin

- membrane.
- 3 – The gelatinous, colloidal material of plants in which all life activities occur.
- 4 – Groups of cells working together to carry out a common function
- 6 – A cavity that is within the cytoplasm,
- 7 – The “plumbing” system that conducts water and dissolved mineral up the stems from the roots.
- 8 – Plant having a single cotyledon or seed leaf such as corn.
- 10 – The living substance within a plant or animal cell excluding the nucleus.
- 11 – Genetic information or DNA contained in the nucleus of the cell.
- 12 Plant whose seeds have two cotyledons or seed leaves, such as beans.
- 13 – Cell organelles composed of an outer membrane and a winding inner membrane.
- 15 – The site of protein synthesis.
- 18 – A unit of protoplasm in one cell.
- 20 – The cellular layer of an organism; the outer skin.
- 21 – In the plant cell, use oxygen to carry out catabolic reactions.
- 22 – Living or active in the absence of free oxygen
- 23 – Inner bark;
- 24 – The ultimate functional unit of an organic structure
- 26 – Pertaining to organisms that grow only in the presence of oxygen