

Notes

Tissue: A tissue is a group of cells that come from the same place and usually do the same thing. Different kinds of tissues make up a plant. There are two main types of tissues: meristematic and permanent. These classifications are based on whether or not the cells that make up the tissue can divide.

Meristematic tissues: Meristematic tissues have cells that divide actively throughout a plant's existence. When a meristematic cell divides, the cell that remains in the meristem is termed an initial. Repeated mitotic divisions of the original cells push the derivatives farther from the active division zone. Mature tissues stretch, expand, and differentiate. Meristematic cells have large nuclei, tiny vacuoles, and thin walls.

- Apical meristem
- Intercalary meristem
- Lateral meristem

Permanent tissues: permanent tissues are composed of cells that generally don't further divide.

- Simple tissues: composed of cells that is similar in function having similar structure.
- Complex tissues: composed of different types of cells.