

# PLANT TISSUES & ORGANS

## Big Picture

Plants have specialized cells not found in animal cells, such as cells that carry out photosynthetic functions. A group of the same type of cells doing the same job makes up a tissue. Vascular tissues, which transport fluids, are one type of tissues found in vascular plants. More than one type of tissue working together to do specific jobs form an organ. The parts of a plant that we can easily identify - roots, stems, and leaves - are examples of plant organs.

## Key Terms

**Parenchymal:** Type of plant cell that carries out photosynthesis, cellular respiration, and/or storage functions.

**Collenchymal:** Type of plant cell that functions to support the plant.

**Sclerenchymal:** Type of plant cell that functions to strengthen and support the plant.

**Xylem:** Type of vascular tissue in a plant that transports water and dissolved nutrients from roots to stems and leaves.

**Phloem:** Type of vascular tissue in a plant that transports food from photosynthetic cells to other parts of the plant.

**Meristem:** Type of plant tissues consisting of undifferentiated cells that can continue to divide and differentiate and from which plants grow in length or width.

**Primary Growth:** Plant growth in length.

**Secondary Growth:** Plant growth in width.

**Taproot:** Single, thick primary root that characterizes the root system of some plants.

**Fibrous Root:** Threadlike root that makes up part of the fibrous root system of some plants.

**Root System:** All the roots of a plant, including primary roots and secondary roots.

**Root Hair:** Tiny hair-like structure that extends from a plant root.

**Bark:** Tissue that provides a rough, woody external covering on the stems of trees.

**Stomata (singular: stoma):** Tiny pore in the epidermis of a plant leaf that controls transpiration and gas exchange with the air.

**Mesophyll:** Specialized tissue inside plant leaves where photosynthesis takes place.

**Cuticle:** Waxy, waterproof substance produced by cells on the surface of leaves, shoots, and other above-ground parts of plants.

**Deciduous Plant:** Type of plant that seasonally loses its leaves.

**Evergreen Plant:** Type of plant that keeps its leaves and stays green year-round.

## Plant Cells

Some structures found in plant cells but not in animal cells are:

- **Large central vacuole:** Contains water and dissolved substances. Helps give the cell shape and support the plant.
- **Cell wall:** Located outside the cell membrane. Shapes, supports, and protects the cell.
- **Plastids:** Organelles with their own DNA. Examples include chloroplasts, which contain the green pigment chlorophyll.

There are three different types of basic plant cells:

- **Parenchymal:** Contains chloroplasts. Carries out photosynthesis and cellular respiration. Stores organic molecules.
- **Collenchymal:** Elongated cells that provide support.
- **Sclerenchymal:** Cells with very thick walls that also provide support. More rigid than collenchymal cells.

All three of these cell types are found in most plant tissues.



Figure: Cross-section of a plant cell.

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# Plants Cells And Tissues Study Guide Answers

**Rachel Sandford**



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Plant Cell Biotechnology M. Salome S. Pais, F. Mavituna, J.M. Novais, 2013-06-29 A number of interdisciplinary fields related to Plant Cell Biotechnology are discussed The two main directions are Plant cell culture in agricultural applications for the improvement of crops and industrial applications in the production of secondary metabolites A number of areas such as physiological and biochemical aspects of autotrophic cells gene characterization in higher plants transformation of plant cells

genetic stability in plant cell cultures somatic hybridization and somatic embryogenesis are treated Recent knowledge on somaclonal and gametoclonal variation as well as on the obtainment of protoplasts and their use for the isolation and culture of heterocaryons as tools for plant breeding are considered Furthermore the knowledge on biomass production in fermentor conditions and the role of immobilization for increased production and scale up of plant cells are discussed *Foundation Course for NEET (Part 3): Biology Class 9* Lakhmir Singh & Manjit Kaur, Our NEET Foundation series is sharply focused for the NEET aspirants Most of the students make a career choice in the middle school and therefore choose their stream informally in secondary and formally in senior secondary schooling accordingly If you have decided to make a career in the medical profession you need not look any further Adopt this series for Class 9 and 10 today Applied and Fundamental Aspects of Plant Cell, Tissue, and Organ Culture Jakob Reinert, Yashpal S. Bajaj, 2013-04-17 Progress in the field of plant cell and tissue culture has made this area of research one of the most dynamic and promising not only in plant physiology cell biology and genetics but also in agriculture forestry horticulture and industry Studies with plant cell cultures clearly have bearing upon a variety of problems as yet unsolved in basic and applied research This was the compelling reason for assembling such a comprehensive source of information to stimulate students teachers and research workers This book comprises 34 articles on regeneration of plants vegetative propagation and cloning haploids cytology cytogenetics and plant breeding protoplasts somatic hybridization and genetic engineering plant pathology secondary products and a chapter on isoenzymes radiobiology and cryobiology of plant cells Particular attention has been paid to modern fast growing and fascinating disciplines e g the induction of haploids somatic hybridization and genetic manipulation by protoplast culture which possess an enormous potential for plant improvement *INTRODUCTION TO PLANT CELL TISSUE AND ORGAN CULTURE* SUNIL D. PUROHIT, 2012-10-30 Designed primarily as a text for undergraduate and postgraduate students of Botany and Plant Biotechnology the book discusses the theoretical aspects and modern applications of plant cell tissue and organ culture Written with the aim of providing up to date information on the subject and focused on the concept of commercialization of plant cell culture the contents have been presented with clarity The book not only discusses the theoretical aspects of plant tissue culture but also emphasizes the art of its practice It also provides a systematic explanation of asepsis and methods of sterilization plant tissue culture techniques culture of reproductive structures plant tissue culture in germplasm conservation its applications in the industry and plant pathology and operation and management of greenhouse hardening unit In addition it discusses in vitro propagation of plants micropropagation with a series of case studies pertaining to tree species and horticultural crops Besides students the book will also prove to be useful for researchers scholars and teachers Cambridge IGCSETM Biology Study and Revision Guide Third Edition Dave Hayward, 2022-10-28 Stretch yourself to achieve the highest grades with structured syllabus coverage varied exam style questions and annotated sample answers to help you to build the essential skill set for exam success Benefit from expert advice and tips on skills and

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web may 19 2018 it allocates equal time slots to each road irrespective of the traffic density this creates unnecessary waiting for drivers which is not possible every time therefore we propose density based traffic control system which allocates different time slots to each road according to vehicle density

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web sep 1 2020 the goal of this work is to build a density based dynamic traffic signal system in which the signal timing changes automatically dependent on the traffic density at every given