

- o Dermal cells protect the plant and controls interactions with the environment – found on outer surface of stems and leaves
- o Ground cells make up rest of the internal plant structure, specialised for food storage, structural support and photosynthesis.

• NUTRIENT AND GAS REQUIREMENTS

Autotrophs

- Organisms that can make their own food from inorganic substances
- E.g. plants

Heterotrophs

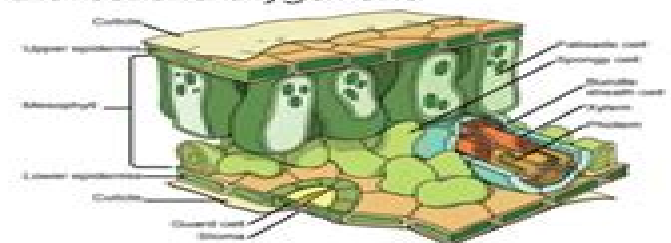
- Organisms that cannot make their own organic food so need to consume other organisms to obtain these
- E.g. humans and other animals

Leaf structure

- Plants require light and carbon dioxide for photosynthesis
- Leaves are main sites of photosynthesis
- Leaf shape is a balancing act between light capture and water loss, and it varies depending on the environment of the plant.

Tissues of leaf

- Cuticle - waxy layer over epidermis – reduces water loss
- Epidermis - cells on upper and lower layer of leaf – cells fit closely together to reduce evaporation and keep pathogens out
- Stomates are openings in the epidermis. Consists of two guard cells and a pore that opens and closes. Carbon dioxide diffuses into the leaf and oxygen and water vapour exit the leaf via the stomatal pores. Water availability and light affect the opening and closing of stomates.
- Mesophyll tissues lie between the upper and lower epidermal cell layers. Cells contain chloroplasts. Upper layer is palisade mesophyll (palisade = fence). Lower layer is spongy mesophyll with air spaces for exchange of gases.



Stomatal opening and closing

- Guard cells can control opening and closing of stoma
- In dry and hot environments plant could dehydrate and die if it is unable to close the stomates to stop water loss via transpiration

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Xiang Xie



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Cryopreservation and Freeze-Drying Protocols John G. Day, Glyn Stacey, 2007-06-05 In addition to outlining the fundamental principles associated with the conservation of biological resources freeze drying and cryopreservation this text is a compilation of cryopreservation and freeze drying methodologies applicable to different biological materials developed by expert laboratories

The Mechanisms of Fibrotic Disorders and Pharmacological Therapies Yaying Sun, Yanan Jiang, Wenyi Li, 2025-05-21 Fibrosis characterized by uncontrolled extracellular matrix deposition is a common phenomenon seen in different organs and tissues bringing about disastrous influence on the function Fibrosis can be induced by aging and diseases such as sarcopenia during aging renal fibrosis following diabetes liver fibrosis following non alcohol fatty liver disease can be elicited by trauma or surgery such as shoulder stiffness and elbow stiffness and can also be a feature of the tumor in which is also known as epithelial mesenchymal transition Currently anti fibrosis therapies are investigated broadly while the complexity of this condition retards the development of effect modalities remarkably Therefore a better understanding of the mechanisms of fibrosis related disorders is of urgent need Recent decades have witnessed remarkable advancement in multi omic investigations and the progress of pharmacogenomics Countless potential targets are unveiled by integrating the data of genomics and pharmacology Since fibrosis and related disorders have various manifestations at the cellular level proteomic level and transcriptional level integrative analysis is of vital importance in identifying targets Moreover the interplay between different cells in fibrotic tissue is also finely described by single cell sequencing and spatial transcriptome et al greatly broadening the understanding of the progress of fibrosis Therefore this research topic aims to study the underlying mechanisms of fibrosis and related diseases with specific attention to molecular targets We welcome research revealing the mechanisms of fibrosis and studies to identify novel molecules against fibrogenesis

Hematopoietic Stem Cell Transplantation and Cellular Therapies for Autoimmune Diseases Richard K. Burt, Dominique Farge, Milton A. Ruiz, Riccardo Saccardi, John A. Snowden, 2021-11-17 This book summarizes the global progress in medical and scientific research toward converting traditionally chronic autoimmune diseases into a drug free reversible illness using hematopoietic stem cell transplantation HSCT and other cellular therapies such as T regulatory cells Treg mesenchymal stromal stem cells and chimeric antigen receptor T CAR T cells in order to reintroduce sustained immune tolerance This title provides information on different types of stem cells and immune cells post transplant immune regeneration cellular regulatory requirements ethical and economic considerations and the advantages and disadvantages of HSCT in the treatment of a variety of autoimmune diseases versus current conventional treatments Arranged by disease the text provides a comprehensive guide to HSCT for all types of autoimmune immune disorders including monogenetic autoimmune diseases autoimmune aplastic anemia neurologic immune diseases including multiple sclerosis chronic inflammatory demyelinating polyneuropathy neuromyelitis optica and stiff person syndrome rheumatologic diseases such as systemic sclerosis and

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