

Principles for Teaching Plant Biology

Heredity

Central Dogma

Plant traits are dictated by genes, which direct the synthesis of RNA and proteins.



Transmission Genetics

DNA, stored as chromosomes, is the genetic material of plants and is inherited from one generation to the next via sexual or asexual reproduction.



Population & Quantitative Genetics

Phenotypic variation of many traits depends on the interaction of genotypes and environmental factors.



Alternation of Generations

Plant reproduction is characterized by the property of the alternation of generations.



Breeding

Selection of particular plant phenotypes has been integral to the development of human society as it is the basis for plant breeding and agriculture.



Evolution

Species Biodiversity

Plant biodiversity can be seen at the genetic level, the species level, and the ecosystem level.



Common Ancestry

Land plants evolved from water-dwelling algae-like ancestors that could perform photosynthesis.



Natural Selection

The cells of all living organisms, including plants, contain DNA as their genetic material.



Environmental Response

Plants live in and have adapted to a wide variety of environments.



Molecules to Organisms

Photosynthesis

During photosynthesis, plants convert energy from sunlight to produce sugars from carbon dioxide, providing energy and carbon to the plant and the biosphere.



Phytohormones

Throughout a plant's life cycle, plant hormones are essential for growth, development, and response to the environment.



Specialized Metabolites

Plants produce specialized compounds that provide an advantage to the organism in their environment even though they are not required for growth and development.



Cell Walls

Cell walls provide plant cells with support and protection against mechanical and osmotic stress.



Development

Plants have special areas that contain stem cells. These cells continuously divide to help the plant grow and can become many different organs.



Ecosystems

Biogeochemical Cycles

Plants, as primary producers, play an essential role in the nutrient cycling through the biosphere.



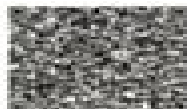
Impact of Biodiversity

Plants are key to maintaining complex natural systems.



Ecosystem Services

Plants provide many supporting, provisioning, regulating, and cultural ecosystem services.



Principles Of Plant Science

Ying-Ying Zheng



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