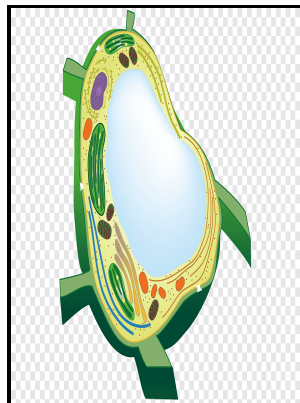


Plant vacuole

Academic Press - 10 Important Functions of Vacuoles in Plant Cell

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Tags: #Molecular #Expressions #Cell #Biology: #Plant #Cell #Structure

Molecular Expressions Cell Biology: Plant Cell Structure

Membrane proteins destined to the vacuole for degradation accumulate in prevacuolar compartments or late endosomes and fuse with preexisting vacuoles. Genetic and technical advances of the past few years have allowed us to test some of the vacuolar trafficking and vacuole biogenesis models that had been previously proposed mainly on the basis of morphological and immunolocalization studies. The use, distribution or reproduction in other forums is permitted, provided the original author s or licensor are credited and that the original publication in this journal is cited, in accordance with accepted academic practice.

Vacuole

Eukaryotic cells engage in cell division by the processes of mitosis and meiosis. Screening for chemicals that target specific vacuolar biogenesis steps or target specific proteins allows transient blocking of specific steps and the instant cellular response can be observed. The exact components required for vacuole fusion in plants are not known because there is no in vitro vacuole fusion assay that has been developed.

Vacuole

Point mutation lines with disrupted vacuoles and high-speed confocal screening of green fluorescent protein-tagged organelles.

Molecular Expressions Cell Biology: Plant Cell Structure

This supports the notion that provacuoles originate directly from subdomains of the ER and may fuse to the preexisting vacuole network using the homotypic vacuole fusion machinery.

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