

Resource Summary Report

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Plant Organelles World

RRID:SCR_006313

Type: Tool

Proper Citation

Plant Organelles World (RRID:SCR_006313)

Resource Information

URL: <http://podb.nibb.ac.jp/Organelhome/PODBworld/en/>

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Description: Images and movies of plant organelle dynamics that were obtained from plant research, based on the Plant Organelles Database. This educational tool is written in layman's terms to engage members of the non-scientific community such as students and school teachers. Additional content: "What happens, if organelle functions become defective" was added in anticipation that readers will be interested in this subject. The Scientific Research of Priority Areas on Organelle Differentiation as the Strategy for Environmental Adaptation in Plants was started on 2004 to promote a comprehensive understanding of plant organelle research, and research with plant scientists all over Japan has been conducted for the past five years. The Plant Organelles Database (PODB), which contains images and movies of various plant organelles that were obtained from this project's research was constructed but was designed for scientists. "The Plant Organelles World" was created for the non-scientific community to understand. Plants have developed mechanisms to adapt to the environment, which is different from the mammalian system of adaption. From recent plant research, the small compartments in cells, "organelles", have been shown to be involved in various responses to environmental changes. The dramatic development of bio-imaging analysis tools such as green fluorescent protein (GFP), which won a Nobel prize for chemistry in 2008, has contributed to recent plant science, because it has become easier to biotechnologically introduce GFP and its derivatives into cells, leading to convenient methods of observing the inside of cells. As a result, we can analyze organelle dynamics and obtain insights related to understanding the way plants live, as well as forming a deeper understanding of organelles.

Abbreviations: Plant Organelles World

Resource Type: data or information resource, image collection, video resource

Defining Citation: [PMID:21115470](#)

Keywords: organelle, electron microscopy, environment

Resource Name: Plant Organelles World

Resource ID: SCR_006313

Alternate IDs: nlx_151997

Record Creation Time: 20220129T080235+0000

Record Last Update: 20260805T044135+0000

Ratings and Alerts

No rating or validation information has been found for Plant Organelles World.

No alerts have been found for Plant Organelles World.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.