

Arabidopsis protocols

Humana Press - TAIR



Description: -

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Water -- Purification -- Reverse osmosis process.

Acid mine drainage.

Arabidopsis -- Molecular aspects -- Laboratory manuals.

Arabidopsis -- Laboratory manuals. Arabidopsis protocols

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v. 82.

Methods in molecular biology (Clifton, N.J.) ;

v. 82

Methods in molecular biology ; Arabidopsis protocols

Notes: Includes bibliographical references and index.

This edition was published in 1998



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Tags: #Arabidopsis #mesophyll #protoplasts: #a #versatile #cell #system #for #transient #gene #expression #analysis

Arabidopsis Protocols

In some other protoplast protocols, 10—1,000 times more protoplasts 10⁵—10⁷ are recommended for each DNA transfection experiment. Pots are placed on raised benching which is watered on an automated ebb and flow drench and drain system. When the seeds have germinated the sleeves are unfurled to form a 'personal propagator' which keeps the plants of one line isolated from neighbouring plants ensuring that absolutely no cross-pollination can occur, and provides support to reduce sprawl and conserve growing area space. Rha1, an Arabidopsis Rab5 homolog, plays a critical role in the vacuolar trafficking of soluble cargo proteins.

Protocols

Overview The isolation of plant protoplasts was first reported more than 40 years ago. Fumonisin B1-induced cell death in Arabidopsis protoplasts requires jasmonate-, ethylene-, and salicylate-dependent signaling pathways. Engineered GFP as a vital reporter in plants.

Arabidopsis Protocols

Advantages and limitations Uniform and abundant mesophyll protoplasts isolated from mature Arabidopsis leaves can respond to diverse signals in a physiological manner similar to the responses observed in leaves of whole plants. If protoplasts are derived from healthy leaf materials, most protoplasts should remain intact throughout the isolation, transfection, culture and harvesting procedures. We do not store the seed under individual desiccant.

Arabidopsis Protocols, 2nd Edition

Using TEAMP assays, molecular mechanisms underlying plant hormone signaling pathways have been elucidated.

Protocols

The transient gene expression system using Arabidopsis mesophyll protoplasts has proven an important and versatile tool for conducting cell-based experiments using molecular, cellular, biochemical, genetic, genomic and proteomic approaches to analyze the functions of diverse signaling pathways and cellular machineries. The method is especially powerful in functional genomics analysis when combined with rich genetic resources,

such as insertion libraries, available in the model plant *Arabidopsis thaliana*.

Related Books

- [Case of the murdered Mackenzie](#)
- [Puti povysheniya ekonomicheskoi effektivnosti obshchestvennogo proizvodstva - trudy molodykh uchenyk](#)
- [Seconds.](#)
- [\(Matrimonial rules, 1972\).](#)
- [Klassik](#)