

Resource Summary Report

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Arabidopsis Nucleolar Protein Database

RRID:SCR_001793

Type: Tool

Proper Citation

Arabidopsis Nucleolar Protein Database (RRID:SCR_001793)

Resource Information

URL: <http://bioinf.scri.sari.ac.uk/cgi-bin/atnopdb/home>

Proper Citation: Arabidopsis Nucleolar Protein Database (RRID:SCR_001793)

Description: Database of proteins found in the nucleoli of Arabidopsis, identified through proteomic analysis. The Arabidopsis Nucleolar Protein database (AtNoPDB) provides information on the plant proteins in comparison to human and yeast proteins, and images of cellular localizations for over a third of the proteins. A proteomic analysis was carried out of nucleoli purified from Arabidopsis cell cultures and to date 217 proteins have been identified. Many proteins were known nucleolar proteins or proteins involved in ribosome biogenesis. Some proteins, such as spliceosomal and snRNP proteins, and translation factors, were unexpected. In addition, proteins of unknown function which were either plant-specific or conserved between human and plant, and proteins with differential localizations were identified.

Abbreviations: AtNoPDB

Synonyms: AtNoPDB Database

Resource Type: data or information resource, database, image

Defining Citation: [PMID:15608277](#)

Keywords: image, plant protein, plant, protein, homologue, blast, human proteome, orthologue, human, yeast, cell culture, blast, nucleolar protein

Funding: Scottish Executive Environment and Rural Affairs Department ; BBSRC

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Arabidopsis Nucleolar Protein Database

Resource ID: SCR_001793

Alternate IDs: nif-0000-02562

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260912T200123+0000

Ratings and Alerts

No rating or validation information has been found for Arabidopsis Nucleolar Protein Database.

No alerts have been found for Arabidopsis Nucleolar Protein Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Hsu PJ, et al. (2021) The nucleolar protein SAHY1 is involved in pre-rRNA processing and normal plant growth. Plant physiology, 185(3), 1039.

Peng X, et al. (2015) Integration of the proteome and transcriptome reveals multiple levels of gene regulation in the rice dl2 mutant. Frontiers in plant science, 6, 351.

Higaki T, et al. (2012) Statistical organelle dissection of Arabidopsis guard cells using image database LIPS. Scientific reports, 2, 405.

Wang Y, et al. (2011) PNRC accumulates in the nucleolus by interaction with B23/nucleophosmin via its nucleolar localization sequence. Biochimica et biophysica acta, 1813(1), 109.

Harsco??t E, et al. (2010) NOF1 encodes an Arabidopsis protein involved in the control of rRNA expression. PloS one, 5(9), e12829.

Hiscox JA, et al. (2010) Nucleolar proteomics and viral infection. Proteomics, 10(22), 4077.

Coulibaly I, et al. (2008) Bioinformatic tools for inferring functional information from plant microarray data II: Analysis beyond single gene. International journal of plant genomics, 2008, 893941.