

Resource Summary Report

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NASCArrays: The Nottingham Arabidopsis Stock Centre Arrays

RRID:SCR_008126

Type: Tool

Proper Citation

NASCArrays: The Nottingham Arabidopsis Stock Centre Arrays (RRID:SCR_008126)

Resource Information

URL:

<http://www.webcitation.org/getfile?fileid=c2cde11f2c71cfb474c58964754c6aecc7586986>

Proper Citation: NASCArrays: The Nottingham Arabidopsis Stock Centre Arrays (RRID:SCR_008126)

Description: NASCArrays is the Nottingham Arabidopsis Stock Centre's microarray database. Currently most of the data is for Arabidopsis thaliana experiments run by the NASC Affymetrix Facility. There are also experiments from other species, and experiments run by other centres too. NASCArrays is an Affymetrix microarray database. It contains free Affymetrix microarray data, and also features a series of tools allowing you to query that data in powerful ways. Most of the data currently comes from NASC's Affymetrix Service. It also includes data from other sources, notably the AtGenExpress project. They currently distribute over 30,000 tubes of seed a year. There are currently the following data mining tools available. All of these tools allow you to type in a gene(s) of interest, and identify experiments or slides that you might be interested in: -Spot History: This tool allows you to see the pattern of gene expression over all slides in the database. Easily identify slides (and therefore experimental treatments) where genes are highly, lowly, or unusually expressed -Two gene scatter plot: This tool allows you to see the pattern of gene expression over all slides for two genes as a scatter plot. If you are interested in two genes, you can find out if they act in tandem, and highlight slides (and therefore experimental conditions) where these two genes behave in an unusual manner. - Gene Swinger: If you have a gene of interest, this tool will show you which experiment the gene expression varied most -Bulk Gene Download: This tool allows you to download the expression of a list of genes over all experiments. You can get all genes over all experiments (the entire database!) from the Super Bulk Gene Download Sponsors: This is a BBSRC funded consortium to provide services to the Arabidopsis community.

Synonyms: NASCArrays

Resource Type: data or information resource, database

Keywords: expression, gene, arabidopsis, microarray, microarray data and other gene expression databases, pattern, specie, thaliana, treatment, slide, FASEB list

Resource Name: NASCArrays: The Nottingham Arabidopsis Stock Centre Arrays

Resource ID: SCR_008126

Alternate IDs: nif-0000-21278

Old URLs: <http://affymetrix.arabidopsis.info/narrays/experimentbrowse.pl>

Record Creation Time: 20220129T080245+0000

Record Last Update: 20260919T195715+0000

Ratings and Alerts

No rating or validation information has been found for NASCArrays: The Nottingham Arabidopsis Stock Centre Arrays.

No alerts have been found for NASCArrays: The Nottingham Arabidopsis Stock Centre Arrays.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 344 mentions in open access literature.

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

Pang L, et al. (2025) The adaptor protein AP-3? disassembles heat-induced stress granules via 19S regulatory particle in Arabidopsis. Nature communications, 16(1), 2039.

Xu P, et al. (2025) The transcription factor Dof3.6/OBP3 regulates iron homeostasis in Arabidopsis. The EMBO journal, 44(1), 251.

Jalakas P, et al. (2024) Stomatal patterning is differently regulated in adaxial and abaxial epidermis in Arabidopsis. Journal of experimental botany, 75(20), 6476.

Kojima H, et al. (2024) Broad Chain-Length Specificity of the Alkane-Forming Enzymes NoCER1A and NoCER3A/B in Nymphaea odorata. Plant & cell physiology, 65(3), 428.

Zhang W, et al. (2024) Primase promotes the competition between transcription and replication on the same template strand resulting in DNA damage. Nature communications, 15(1), 73.

Baral A, et al. (2024) TYPHON proteins are RAB-dependent mediators of the trans-Golgi network secretory pathway. The Plant cell, 37(1).

Theeuwes TPJM, et al. (2024) Species-wide inventory of *Arabidopsis thaliana* organellar variation reveals ample phenotypic variation for photosynthetic performance. *Proceedings of the National Academy of Sciences of the United States of America*, 121(49), e2414024121.

Sun X, et al. (2024) Parasitism of *Hirsutella rhossiliensis* on Different Nematodes and Its Endophytism Promoting Plant Growth and Resistance against Root-Knot Nematodes. *Journal of fungi (Basel, Switzerland)*, 10(1).

Yang S, et al. (2024) ALTERED MERISTEM PROGRAM1 sustains cellular differentiation by limiting HD-ZIP III transcription factor gene expression. *Plant physiology*, 196(1), 291.

Gao YQ, et al. (2024) Chloride, glutathiones, and insect-derived elicitors introduced into the xylem trigger electrical signaling. *Plant physiology*, 194(2), 1091.

Zhu Z, et al. (2024) Tracing the Evolutionary History of the Temperature-Sensing Prion-like Domain in EARLY FLOWERING 3 Highlights the Uniqueness of AtELF3. *Molecular biology and evolution*, 41(10).

Wang X, et al. (2024) Distinct functions of microtubules and actin filaments in the transportation of the male germ unit in pollen. *Nature communications*, 15(1), 5448.

Erdreich SH, et al. (2024) Seed coating with phages for sustainable plant biocontrol of plant pathogens and influence of the seed coat mucilage. *Microbial biotechnology*, 17(6), e14507.

Wang W, et al. (2023) The P-body component DECAPPING5 and the floral repressor SISTER OF FCA regulate FLOWERING LOCUS C transcription in *Arabidopsis*. *The Plant cell*, 35(9), 3303.

Valifard M, et al. (2023) The novel chloroplast glucose transporter pGlcT2 affects adaptation to extended light periods. *The Journal of biological chemistry*, 299(6), 104741.

Waterworth WM, et al. (2023) Genome damage accumulated in seed ageing leads to plant genome instability and growth inhibition. *The Biochemical journal*, 480(7), 461.

Panter PE, et al. (2023) Cell wall fucosylation in *Arabidopsis* influences control of leaf water loss and alters stomatal development and mechanical properties. *Journal of experimental botany*, 74(8), 2680.

Montacié C, et al. (2023) NICOTIANAMINE SYNTHASE activity affects nucleolar iron accumulation and impacts rDNA silencing and RNA methylation in *Arabidopsis*. *Journal of experimental botany*, 74(15), 4384.

Cho HY, et al. (2022) Ethylene modulates translation dynamics in *Arabidopsis* under submergence via GCN2 and EIN2. *Science advances*, 8(22), eabm7863.

Liebsch D, et al. (2022) Metabolic control of arginine and ornithine levels paces the progression of leaf senescence. *Plant physiology*, 189(4), 1943.