Resource Summary Report

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TAIR

RRID:SCR_004618
Type: Tool

Proper Citation

TAIR (RRID:SCR_004618)

Resource Information

URL: http://www.arabidopsis.org

Proper Citation: TAIR (RRID:SCR_004618)

Description: Database of genetic and molecular biology data for the model higher plant Arabidopsis thaliana. Data available includes the complete genome sequence along with gene structure, gene product information, metabolism, gene expression, DNA and seed stocks, genome maps, genetic and physical markers, publications, and information about the Arabidopsis research community. Gene product function data is updated every two weeks from the latest published research literature and community data submissions. Gene structures are updated 1-2 times per year using computational and manual methods as well as community submissions of new and updated genes. TAIR also provides extensive linkouts from data pages to other Arabidopsis resources. The data can be searched, viewed and analyzed. Datasets can also be downloaded. Pages on news, job postings, conference announcements, Arabidopsis lab protocols, and useful links are provided.

Abbreviations: TAIR, AGI LocusCode

Synonyms: AGI LocusCode, The Arabidopsis Information Resource

Resource Type: data or information resource, database

Defining Citation: PMID:22140109, PMID:17986450, PMID:12444417, PMID:12519987, PMID:18287693

Keywords: genetic, molecular biology, gene, genome, structure, product, metabolism, gene expression, dna, seed stock, genome map, genetic marker, physical marker, genome sequence, gene product, blast, experimental protocol, gold standard

Funding: NSF DBI-0850219;
corporate and nonprofit organizations

Resource Name: TAIR

Resource ID: SCR_004618

Alternate IDs: r3d100010185, nlx_61477, OMICS_01662

Alternate URLs: https://doi.org/10.17616/R3QW21

Record Creation Time: 20220129T080225+0000

Record Last Update: 20260729T044102+0000

Ratings and Alerts

No rating or validation information has been found for TAIR.

No alerts have been found for TAIR.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 7421 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Zavala-Paez M, et al. (2026) Climate and hybridization shape stomatal trait evolution in Populus. The New phytologist, 249(2), 792.

Liu RX, et al. (2026) MdHMGB15-MdXERICO-MdNRP module mediates salt tolerance of apple by regulating the expression of salt stress-related genes. Journal of advanced research, 79, 61.

Tang Z, et al. (2025) Expression analysis and functional study of honeysuckle MYB transcription factors under drought stress. Scientific reports, 15(1), 14843.

Zeng Y, et al. (2025) Chromosome-level genomes of Arctic and Antarctic mosses: Aulacomnium turgidum and Polytrichastrum alpinum. Scientific data, 12(1), 705.

Zhou X, et al. (2025) A mechanosensitive ion channel controls touch-triggered stigma movement through manipulation of calcium signature in Torenia. Nature communications, 16(1), 6296.

Dai J, et al. (2025) Genome-wide identification and expression analysis of Dof gene family members in mulberry trees (Morus notabilis L.) under drought stress. BMC genomics, 26(1), 744.

Cao Y, et al. (2025) Polyadenylation Complex CFII Recognizes Downstream Cis-element for Pre-mRNA Polyadenylation Through Interaction with an RNA-Binding Protein in

Arabidopsis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(41), e04562.

Long EM, et al. (2025) Evolutionary signatures of the erosion of sexual reproduction genes in domesticated cassava (Manihot esculenta). G3 (Bethesda, Md.), 15(2).

Lu J, et al. (2025) Whole-Genome Identification of the Flax Fatty Acid Desaturase Gene Family and Functional Analysis of the LuFAD2.1 Gene Under Cold Stress Conditions. Plant, cell & environment, 48(3), 2221.

McGuire ST, et al. (2025) The first intron and promoter of Arabidopsis DIACYLGLYCEROL ACYLTRANSFERASE 1 exert synergistic effects on pollen and embryo lipid accumulation. The New phytologist, 245(1), 263.

Liang Z, et al. (2025) XYLEM NAC DOMAIN 1 (EjXND1) relieves cold-induced lignification by negatively regulating the EjHB1-EjPRX12 module in loquat fruit. Journal of advanced research, 73, 93.

García-Hernández S, et al. (2025) Functional and Structural Analysis Reveals Distinct Biological Roles of Plant Synaptotagmins in Response to Environmental Stress. Plant, cell & environment, 48(1), 260.

Xiang T, et al. (2025) The dynamic regulatory network of stamens and pistils in papaya. BMC plant biology, 25(1), 254.

Omondi E, et al. (2025) Association analyses reveal both anthropic and environmental selective events during eggplant domestication. The Plant journal : for cell and molecular biology, 121(3), e17229.

Liu J, et al. (2025) Genome-wide identification and expression analysis of GRAS transcription factors under cold stress in diploid and triploid Eucalyptus. Frontiers in genetics, 16, 1436285.

Yue R, et al. (2025) Divergent MYB paralogs determine spatial distribution of linalool mediated by JA and DNA demethylation participating in aroma formation and cold tolerance of tea plants. Plant biotechnology journal, 23(5), 1455.

Ming R, et al. (2025) The GRAS transcription factor PtrPAT1 of Poncirus trifoliata functions in cold tolerance and modulates glycine betaine content by regulating the BADH-like gene. Horticulture research, 12(1), uhae296.

Tian Z, et al. (2025) Genome-wide identification and analysis of the NF-Y transcription factor family reveal its potential roles in tobacco (Nicotiana tabacum L.). Plant signaling & behavior, 20(1), 2451700.

Wang HW, et al. (2025) Identification, characterization, and expression of Oryza sativa tryptophan decarboxylase genes associated with fluroxypyr-meptyl metabolism. The plant genome, 18(1), e20547.

Krüger T, et al. (2025) DOG1 controls dormancy independently of ABA core signaling kinases regulation by preventing AFP dephosphorylation through AHG1. Science advances, 11(9), eadr8502.