

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: 20260905T132522+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 9170 mentions in open access literature.

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

Hu Y, et al. (2026) Genome-Wide Identification of Sigma Factors in Brassica napus and Role of BnSIG5A in Response to Cold Stress. International journal of molecular sciences, 27(7).

Baral B, et al. (2026) Decoding plant defense signaling using the defenseless mutant. The New phytologist, 250(2), 1141.

Chaudhary R, et al. (2026) Cross-Species Reprogramming of Developmental Plasticity and Metabolic Rewiring via Banana-Derived WUS2 Developmental Regulator. Plant biotechnology journal, 24(6), 4174.

Han L, et al. (2026) Genome-Wide Identification and Characterization of Stress-Responsive SNARE Genes in Quinoa (Chenopodium quinoa Willd.). Biology, 15(5).

Wang R, et al. (2026) Genome-Wide Identification and Analysis of Plant Cysteine Oxidase (PCO) Family Genes and Expression Pattern Under Abiotic Stresses in Medicago sativa. International journal of molecular sciences, 27(5).

Zhou H, et al. (2026) Genome-wide analysis of the GPAT gene family in wheat and the potential roles of TaGPAT58 and its homologs in male reproductive development. Frontiers in plant science, 17, 1779919.

Shen D, et al. (2026) Enhanced resistance to *Botryosphaeria dothidea* through upregulation of the lignin biosynthesis regulator WRKY11 in poplar. *Frontiers in plant science*, 17, 1737207.

Wang S, et al. (2026) Genome-Wide Identification of the BPC Gene Family in *Brassica juncea* and Expression Analysis of Its Regulatory Mechanisms in Response to Light and Salicylic Acid. *International journal of molecular sciences*, 27(6).

Yang Z, et al. (2026) Identification and Expression Analysis of the Goji Haploid-Inducible Gene DMP. *International journal of molecular sciences*, 27(6).

Li C, et al. (2026) Genome-Wide Identification and Functional Studies of the APX Gene Family in Oat (*Avena sativa* L.). *Life (Basel, Switzerland)*, 16(3).

Pan J, et al. (2026) Genome-Wide Characterization of the Expansin Gene Family in Eggplant (*Solanum melongena* L.) Reveals Its Roles in Fruit Development and Heat Stress Response. *Plants (Basel, Switzerland)*, 15(7).

Khalil A, et al. (2026) Pangenome-wide identification of chloroplast RNA splicing and ribosome maturation (CRM) genes in eight *Pyrus* genomes indicated their involvement in multiple stresses. *Scientific reports*, 16(1).

Ebeed HT, et al. (2026) Integrative gene duplication and genome-wide analysis characterize Peroxin11 gene family in wheat. *BMC genomics*, 27(1).

Liao T, et al. (2026) Dynamic changes of endogenous hormones and transcriptome analysis reveal the regulatory mechanism of gibberellin-promoted male cone formation in *Platycladus orientalis*. *BMC plant biology*, 26(1).

Podio M, et al. (2026) Leaf transcriptome differences between diploid and tetraploid bahiagrass. *The plant genome*, 19(1), e70212.

Tian Y, et al. (2026) Genome-Wide Identification of the *Medicago ruthenica* FTIP Gene Family and Expression Profiling Under Salt Stresses. *International journal of molecular sciences*, 27(4).

Khan A, et al. (2026) The Impact of Mitochondrial DNA Depletion on Mitochondrial Ultrastructure, Photosynthesis, and the mTERF Gene Family in *Chlamydomonas reinhardtii*. *International journal of molecular sciences*, 27(4).

Bi W, et al. (2026) Genome-Wide Identification of the ZF-HD Gene Family in Melon and Functional Characterization of CmZHD8 in Salt Stress Tolerance. *Plants (Basel, Switzerland)*, 15(4).

Sun Y, et al. (2026) Systematic analysis of the Diacylglycerol acyltransferase (DGAT) genes in oat and functional characterization of AsDGAT2-1 involved in oil accumulation and cold stress tolerance. *BMC plant biology*, 26(1).

Lee SK, et al. (2026) Establishment of fluorescent protein-tagged lines for investigating dynamic localization of organelle and other cell structures in rice pollen tube. *Plant methods*, 22(1).