

Resource Summary Report

Generated by [NIF](#) on Aug 26, 2026

[AraCyc](#)

RRID:SCR_008109

Type: Tool

Proper Citation

AraCyc (RRID:SCR_008109)

Resource Information

URL: <https://plantcyc.org/databases/aracyc/15.0>

Proper Citation: AraCyc (RRID:SCR_008109)

Description: Curated species-specific database present at the Plant Metabolic Network. It has a large number of experimentally supported enzymes and metabolic pathways, but it also houses a substantial number of computationally predicted enzymes and pathways.

Synonyms: Arabidopsis enzymes and biochemical pathways database

Resource Type: data or information resource, data repository, database, service resource, storage service resource

Defining Citation: [PMID:12805578](#), [PMID:15888675](#)

Keywords: enzyme, gene, arabidopsis thaliana, biochemical, pathway, reaction, metabolism, metabolic pathway, data set, data analysis service, web service, FASEB list

Funding: NSF

Availability: The community can contribute to this resource

Resource Name: AraCyc

Resource ID: SCR_008109

Alternate IDs: nif-0000-20811

Alternate URLs: <http://www.arabidopsis.org/biocyc/index.jsp>, <http://www.plantcyc.org>

Record Creation Time: 20220129T080245+0000

Record Last Update: 20260821T193834+0000

Ratings and Alerts

No rating or validation information has been found for AraCyc.

No alerts have been found for AraCyc.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 69 mentions in open access literature.

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

Ducrocq F, et al. (2025) Fingerprinting and chemotyping approaches reveal a wide genetic and metabolic diversity among wild hops (*Humulus lupulus* L.). PloS one, 20(5), e0322330.

Kreuzer I, et al. (2025) Venus flytraps' metabolome analysis discloses the metabolic fate of prey animal foodstock. The Plant journal : for cell and molecular biology, 123(3), e70391.

Doron S, et al. (2025) Two opposing redox signals mediated by 2-cys peroxiredoxin shape the redox proteome during photosynthetic induction. Redox biology, 86, 103810.

Zhou X, et al. (2024) HNCGAT: a method for predicting plant metabolite-protein interaction using heterogeneous neighbor contrastive graph attention network. Briefings in bioinformatics, 25(5).

Bleker C, et al. (2024) Stress Knowledge Map: A knowledge graph resource for systems biology analysis of plant stress responses. Plant communications, 5(6), 100920.

Kostikova VA, et al. (2024) Chemical Composition of Methanol Extracts from Leaves and Flowers of *Anemonopsis macrophylla* (Ranunculaceae). International journal of molecular sciences, 25(2).

Raikar SV, et al. (2023) Establishment of feijoa (*Acca sellowiana*) callus and cell suspension cultures and identification of arctigenin - a high value bioactive compound. Frontiers in plant science, 14, 1281733.

Li Y, et al. (2023) Integrative Omic Analysis Reveals the Dynamic Change in Phenylpropanoid Metabolism in *Morus alba* under Different Stress. Plants (Basel, Switzerland), 12(18).

Dahale SK, et al. (2021) HopA1 Effector from *Pseudomonas syringae* pv *syringae* Strain 61 Affects NMD Processes and Elicits Effector-Triggered Immunity. International journal of molecular sciences, 22(14).

Kim JY, et al. (2021) Distinct identities of leaf phloem cells revealed by single cell transcriptomics. The Plant cell, 33(3), 511.

Zogopoulos VL, et al. (2021) Arabidopsis Coexpression Tool: a tool for gene coexpression analysis in *Arabidopsis thaliana*. *iScience*, 24(8), 102848.

Liao D, et al. (2021) Transcriptome profiles revealed molecular mechanisms of alternating temperatures in breaking the epicotyl morphophysiological dormancy of *Polygonatum sibiricum* seeds. *BMC plant biology*, 21(1), 370.

Harun S, et al. (2021) Potential *Arabidopsis thaliana* glucosinolate genes identified from the co-expression modules using graph clustering approach. *PeerJ*, 9, e11876.

Doron S, et al. (2021) SPEAR: A proteomics approach for simultaneous protein expression and redox analysis. *Free radical biology & medicine*, 176, 366.

Garcia A, et al. (2021) Disentangling transcriptional responses in plant defense against arthropod herbivores. *Scientific reports*, 11(1), 12996.

Cusack SA, et al. (2021) Predictive Models of Genetic Redundancy in *Arabidopsis thaliana*. *Molecular biology and evolution*, 38(8), 3397.

Azodi CB, et al. (2020) The cis-regulatory codes of response to combined heat and drought stress in *Arabidopsis thaliana*. *NAR genomics and bioinformatics*, 2(3), lqaa049.

Farooq M, et al. (2020) Prior Biological Knowledge Improves Genomic Prediction of Growth-Related Traits in *Arabidopsis thaliana*. *Frontiers in genetics*, 11, 609117.

Chakraborty N, et al. (2019) GCR1 and GPA1 coupling regulates nitrate, cell wall, immunity and light responses in *Arabidopsis*. *Scientific reports*, 9(1), 5838.

Varela-Rodríguez L, et al. (2019) Biological and toxicological evaluation of *Rhus trilobata* Nutt. (Anacardiaceae) used traditionally in Mexico against cancer. *BMC complementary and alternative medicine*, 19(1), 153.