

Resource Summary Report

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Plant Metabolic Network

RRID:SCR_002888

Type: Tool

Proper Citation

Plant Metabolic Network (RRID:SCR_002888)

Resource Information

URL: <http://www.plantcyc.org/>

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Description: Collaborative project to bring together biochemical pathway databases and research communities focused on plant metabolism. Used to build broad network of plant metabolic pathway databases. Central feature of PMN is PlantCyc, comprehensive plant biochemical pathway database, containing curated information from literature and computational analyses about genes, enzymes, compounds, reactions, and pathways involved in primary and secondary metabolism.

Synonyms: Plant Biochemical Pathway Databases

Resource Type: project portal, portal, data or information resource

Keywords: e. coli, gene, arabidopsis, barley, coffee, database, genome, grass, homolog, maize, medicago, oats, pathway, pepper, plant, potato, rice, rye, sorghum, species, taxonomy, tomato, wheat, ontology

Resource Name: Plant Metabolic Network

Resource ID: SCR_002888

Alternate IDs: nif-0000-25602, SCR_003778, nlx_15806

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260810T040338+0000

Ratings and Alerts

No rating or validation information has been found for Plant Metabolic Network.

No alerts have been found for Plant Metabolic Network.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 162 mentions in open access literature.

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

Pant S, et al. (2026) Erdafitinib in Patients with FGFR-Altered Advanced or Metastatic Cholangiocarcinoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(6), 1136.

Shitanaka T, et al. (2026) Synthetic Biology and Metabolic Engineering of Microalgae for Sustainable Lipid and Terpenoid Production: An Updated Perspective. *Plant biotechnology journal*, 24(3), 1359.

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.

Bruno L, et al. (2025) Metabolomic Insights into the Allelopathic Effects of *Ailanthus altissima* (Mill.) Swingle Volatile Organic Compounds on the Germination Process of *Bidens pilosa* (L.). *Metabolites*, 15(1).

Secomandi E, et al. (2025) Biochemical, photosynthetic and metabolomics insights of single and combined effects of salinity, heat, cold and drought in *Arabidopsis*. *Physiologia plantarum*, 177(1), e70062.

Bian S, et al. (2025) Comparative analysis of the metabolite compositions and antioxidant capacity of waxy and non-waxy black rice (*Oryza sativa* L.) bran via widely targeted metabolomics. *Food chemistry: X*, 32, 103387.

Islam M, et al. (2025) Integrative physiological, biochemical, and metabolomic analyses reveal complex drought and zinc stress tolerance in a novel *Miscanthus* hybrid. *Frontiers in plant science*, 16, 1556144.

Van K, et al. (2025) Network analysis combined with genome-wide association study helps identification of genes related to amino acid contents in soybean. *BMC genomics*, 26(1), 21.

Uy ALT, et al. (2023) The Carbon Flow Shifts from Primary to Secondary Metabolism during Xylem Vessel Cell Differentiation in *Arabidopsis thaliana*. *Plant & cell physiology*, 64(12), 1563.

Singh DP, et al. (2023) Untargeted Metabolomics of *Alternaria solani*-Challenged Wild Tomato Species *Solanum cheesmaniae* Revealed Key Metabolite Biomarkers and Insight into Altered Metabolic Pathways. *Metabolites*, 13(5).

Perez-Matas E, et al. (2023) Exploring the Interplay between Metabolic Pathways and Taxane Production in Elicited *Taxus baccata* Cell Suspensions. *Plants* (Basel, Switzerland), 12(14).

Rouphael Y, et al. (2023) Copper boosts the biostimulant activity of a vegetal-derived protein hydrolysate in basil: morpho-physiological and metabolomics insights. *Frontiers in plant science*, 14, 1235686.

Acién JM, et al. (2023) From Classical to Modern Computational Approaches to Identify Key Genetic Regulatory Components in Plant Biology. *International journal of molecular sciences*, 24(3).

Cao Y, et al. (2023) The core triacylglycerol toolbox in woody oil plants reveals targets for oil production bioengineering. *Frontiers in plant science*, 14, 1170723.

Singh DP, et al. (2023) Metabolomics of early blight (*Alternaria solani*) susceptible tomato (*Solanum lycopersicum*) unfolds key biomarker metabolites and involved metabolic pathways. *Scientific reports*, 13(1), 21023.

Wang Y, et al. (2022) Metabolomic and Transcriptomic Analysis of Flavonoid Biosynthesis in Two Main Cultivars of *Actinidia arguta* Sieb.Zucc. Grown in Northern China. *Frontiers in plant science*, 13, 911203.

Huang R, et al. (2022) Metabolome and Transcriptome Profiling Unveil the Mechanisms of Polyphenol Synthesis in the Developing Endopleura of Walnut (*Juglans regia* L.). *International journal of molecular sciences*, 23(12).

Tan YC, et al. (2022) Bioinformatics approaches and applications in plant biotechnology. *Journal, genetic engineering & biotechnology*, 20(1), 106.

Iula G, et al. (2022) The Complex Metabolomics Crosstalk Triggered by Four Molecular Elicitors in Tomato. *Plants* (Basel, Switzerland), 11(5).

Geng F, et al. (2022) Integrated transcriptome and metabolome profiling of *Camellia reticulata* reveal mechanisms of flower color differentiation. *Frontiers in genetics*, 13, 1059717.