

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

MetaCrop

RRID:SCR_003100

Type: Tool

Proper Citation

MetaCrop (RRID:SCR_003100)

Resource Information

URL: <http://metacrop.ipk-gatersleben.de>

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Description: Database that summarizes diverse information about metabolic pathways in crop plants and allows automatic export of information for the creation of detailed metabolic models. It contains manually curated, highly detailed information about metabolic pathways in crop plants, including pathway diagrams, reactions, locations, transport processes, reaction kinetics, taxonomy and literature. It contains information about seven major crop plants with high agronomical importance and two model plants.

Abbreviations: MetaCrop

Resource Type: database, data or information resource

Defining Citation: [PMID:22086948](#), [PMID:17933764](#), [PMID:20375443](#)

Keywords: metabolism, kinetic, enzyme, crop, pathway, substance, conversion, carbohydrate, lipid, cofactor, energy, nucleotide, amino acid, web service

Availability: Free, Freely available

Resource Name: MetaCrop

Resource ID: SCR_003100

Alternate IDs: nif-0000-03113, r3d100010123

Alternate URLs: <https://doi.org/10.17616/R33G6T>

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260819T044100+0000

Ratings and Alerts

No rating or validation information has been found for MetaCrop.

No alerts have been found for MetaCrop.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Gao Y, et al. (2024) Development and applications of metabolic models in plant multi-omics research. *Frontiers in plant science*, 15, 1361183.

Chao H, et al. (2023) Integrating omics databases for enhanced crop breeding. *Journal of integrative bioinformatics*, 20(4).

Kaspar-Schoenefeld S, et al. (2016) Label-free proteome profiling reveals developmental-dependent patterns in young barley grains. *Journal of proteomics*, 143, 106.

Beckers V, et al. (2016) In silico metabolic network analysis of Arabidopsis leaves. *BMC systems biology*, 10(1), 102.

Hill CB, et al. (2015) Metabolomics, Standards, and Metabolic Modeling for Synthetic Biology in Plants. *Frontiers in bioengineering and biotechnology*, 3, 167.

Fukushima A, et al. (2013) Recent progress in the development of metabolome databases for plant systems biology. *Frontiers in plant science*, 4, 73.

Junker A, et al. (2012) Visual analysis of transcriptome data in the context of anatomical structures and biological networks. *Frontiers in plant science*, 3, 252.