## **Resource Summary Report**

Generated by <u>NIF</u> on May 19, 2025

# **MetaCrop**

RRID:SCR\_003100 Type: Tool

**Proper Citation** 

MetaCrop (RRID:SCR\_003100)

#### **Resource Information**

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

Proper Citation: MetaCrop (RRID:SCR\_003100)

**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

Funding:

Resource Name: MetaCrop

Resource ID: SCR\_003100

Alternate IDs: nif-0000-03113

Record Creation Time: 20220129T080217+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 developmentaldependent 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.