

# Resource Summary Report

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## MEtabolomes, TRaits, and INteractions-Knowledge Graph

RRID:SCR\_027914

Type: Tool

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### Proper Citation

MEtabolomes, TRaits, and INteractions-Knowledge Graph (RRID:SCR\_027914)

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### Resource Information

**URL:** <https://github.com/earth-metabolome-initiative/metrin-kg>

**Proper Citation:** MEtabolomes, TRaits, and INteractions-Knowledge Graph (RRID:SCR\_027914)

**Description:** Software pipeline for generating knowledge graph integrating emi, trydb, globi datasets. Code for constructing a knowledge graph that integrates enriched metabolite data from Experimental Natural Products Knowledge Graph (ENPKG), LOTUS (available through Wikidata), plant trait data from TRY, and biotic interaction data from Global Biotic Interactions (GloBI). It performs taxonomic alignment against Wikidata records and generates Resource Description Framework (RDF) triples representing taxonomic relationships, traits, and species interactions. The resulting knowledge graph is queryable via a SPARQL (SPARQL Protocol and RDF Query Language) endpoint.

**Abbreviations:** METRIN-KG

**Resource Type:** software resource, software toolkit, source code

**Defining Citation:** [DOI:10.1101/2025.08.20.671289](https://doi.org/10.1101/2025.08.20.671289)

**Keywords:** Knowledge Graphs, Plant Metabolomes, Plant Traits, Biotic Interactions

**Funding:** MetaDiv 315230\_215724 MetaboLinkAI 10.002.786;  
Horizon Europe MICROBES-4-CLIMATE 101131818;  
Swiss National Science Foundation Anticipating the Chemistry of Life - IC0010-227830;  
Swiss Open Research Data Grants (CHORD) in Open Science I

**Availability:** Free, Available for download, Freely available,

**Resource Name:** MEtabolomes, TRaits, and INteractions-Knowledge Graph

**Resource ID:** SCR\_027914

**Alternate URLs:** [https://bio.tools/metrin\\_kg](https://bio.tools/metrin_kg)

**License:** GNU GPL

**Record Creation Time:** 20260203T055303+0000

**Record Last Update:** 20260905T133602+0000

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## Ratings and Alerts

No rating or validation information has been found for MEtabolomes, TRaits, and INteractions-Knowledge Graph.

No alerts have been found for MEtabolomes, TRaits, and INteractions-Knowledge Graph.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 1 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

Tandon D, et al. (2026) METRIN-KG: A knowledge graph integrating plant metabolites, traits, and biotic interactions. GigaScience, 15.