Resource Summary Report

Generated by dkNET on Apr 24, 2025

Metabolic Network Exchange

RRID:SCR_008124
Type: Tool

Proper Citation

Metabolic Network Exchange (RRID:SCR_008124)

Resource Information

URL: http://www.metnetdb.org/MetNet_db.htm

Proper Citation: Metabolic Network Exchange (RRID:SCR_008124)

Description: MetNet database contains information on networks of metabolic and regulatory and interactions in Arabidopsis. This information is based on input from biologists in their area of expertise. Types of interactions in MetNetDB include transcription, translation, protein modification, assembly, allosteric regulation, translocation from one subcellular compartment to another. Other fields describing the interactions are subcellular location, confidence, directionality, references, evidence, and synonyms. Data on entities (DNA, RNA, polypeptides, protein complexes, metabolites) are derived from web databases (gene related databases: TAIR, GO, MapMan/GabiPD; protein related databases: PPDB, AMPDB, AtNoPDB, AraPerox, PLprot, BRENDA; metabolite related databases: ChEBI, PubChem, KEGG, NCI compound library, NIST MS library), in some cases with additional annotation by experts. Network information from MetNetDB can be converted to an XML file by XML Builder. From this XML file, it can be transferred to exploRase, which uses the network in conjunction with statistical analysis of expression data; to Cytoscape/FCM, which finds cycles and pathways in the network, and visualizes and models it in combination with expression data; and to MetNetVR, where the network can be visualized in 3D.

Synonyms: MetNetDB

Resource Type: data or information resource, database

Keywords: allosteric regulation, arabidopsis, interaction, metabolic, protein, regulatory, subcellular, transcription, translation

Funding:

Resource Name: Metabolic Network Exchange

Resource ID: SCR_008124

Alternate IDs: nif-0000-20871

Record Creation Time: 20220129T080245+0000

Record Last Update: 20250424T064936+0000

Ratings and Alerts

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

No alerts have been found for Metabolic Network Exchange.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Jones DC, et al. (2016) A Clade-Specific Arabidopsis Gene Connects Primary Metabolism and Senescence. Frontiers in plant science, 7, 983.