

Resource Summary Report

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GNPS

RRID:SCR_019012

Type: Tool

Proper Citation

GNPS (RRID:SCR_019012)

Resource Information

URL: <https://gnps.ucsd.edu/>

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Description: Web based mass spectrometry ecosystem that aims to be open access knowledge base for community wide organization and sharing of raw, processed or identified tandem mass spectrometry data. Database of mass spectrometry datasets.

Synonyms: Global Natural Products Social Molecular Networking

Resource Type: analysis service resource, data or information resource, data repository, database, production service resource, service resource, storage service resource

Defining Citation: [PMID:27504778](#)

Keywords: Mass spectrometry, mass spectrometry data, dataset, data analysis, FASEB list

Availability: Free, Freely available

Resource Name: GNPS

Resource ID: SCR_019012

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260912T195908+0000

Ratings and Alerts

No rating or validation information has been found for GNPS.

No alerts have been found for GNPS.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 604 mentions in open access literature.

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

Razafindrabenja LE, et al. (2026) Metabolomics, Molecular Networking and Phytochemical Investigation of *Psiadia dentata* (Cass.) DC., Endemic to Reunion Island: Discovery of Novel Bioactive Molecules. *Molecules* (Basel, Switzerland), 31(6).

Salim MA, et al. (2026) Integrating morphological and phytochemical characters in understanding the taxonomic relationship within some *Ipomoea* L. species. *BMC plant biology*, 26(1).

Gao Y, et al. (2026) An Integrated Approach Combining Chemical Profiling, Network Pharmacology, and Experimental Validation Is Used to Clarify the Pharmacological Basis of the Yiqi-Tongluo-Huoxue-Mingmu Formula in Diabetic Retinopathy. *Journal of diabetes research*, 2026(1), e8484553.

Romero-Cantú HD, et al. (2026) Combining the Salt-Tolerant Plants *Limonium algarvense* Erben and *Polygonum maritimum* L. Promotes Synergistic Bioactivities for Enhanced Cosmetic Applications. *Chemistry & biodiversity*, 23(1), e03370.

Cardoso FN, et al. (2026) *Cissus verticillata* Leaf Extract Decreases the Production of AGEs and ROS In Vitro. *Molecules* (Basel, Switzerland), 31(4).

Seo S, et al. (2026) Leveraging metabolic similarity in a 1H NMR database of medicinal plants to advance pharmacognostic insights. *Scientific reports*, 16(1), 6691.

Yamada K, et al. (2026) Facultative predation expands the ecological repertoire of *Streptomyces*. *mBio*, 17(5), e0056326.

Luo X, et al. (2026) Rapid Analysis of the Chemical Composition of Xiaoban Kangfu Capsules Based on UHPLC-Q-Exactive Orbitrap MS/MS Combined with Molecular Networks. *Pharmaceuticals* (Basel, Switzerland), 19(3).

Schellenberg L, et al. (2026) The Distribution of Xenobiotics of Terrigenous Origin in the Nearshore Waters of a Caribbean Island. *Environmental science & technology*, 60(25), 18182.

Luo J, et al. (2026) Chemical Profiling of Aboveground and Underground Parts of *Pterocephalus hookeri* by Integrated FBMN, Untargeted LC-MS Metabolomics, and PAD-DESI-MSI. *Molecules* (Basel, Switzerland), 31(11).

Hungerford J, et al. (2026) Biosynthesis of 14-membered cyclopeptide alkaloids via non-heme-iron- and 2-oxoglutarate-dependent oxidative decarboxylation. *bioRxiv : the preprint server for biology*.

Li Y, et al. (2026) Unraveling the metabolic potential and roles of reductases in the omicsynin biosynthetic gene cluster. *Natural products and bioprospecting*, 16(1), 7.

Kuang Y, et al. (2026) The ethyl acetate extract from *Trichoderma viride* fermentation acts by downregulating the leukocyte transendothelial migration signaling pathway to induce ferroptosis in triple-negative breast cancer cells. *Natural products and bioprospecting*, 16(1), 15.

Liu K, et al. (2026) Fuzheng Jiedu formula attenuates acute pneumonia by coordinated regulation of macrophage NLRP3 inflammasome and neutrophil NETs. *Chinese medicine*, 21(1), 1.

Caraballo-Rodríguez AM, et al. (2026) The undiscovered natural product potential of Actinomycetes. *The Journal of antibiotics*, 79(2), 80.

Lu J, et al. (2026) Genomic and chemical analyses of 713 marine biofilm-derived bacterial strains. *Applied and environmental microbiology*, 92(4), e0259325.

Zhu J, et al. (2026) Elucidating the PTK2-Targeted Anti-Hepatocellular Carcinoma Effects of *Euphorbia helioscopia* L. via Integrated Network Pharmacology, Mendelian Randomization, and Experimental Validation. *Current issues in molecular biology*, 48(2).

Whymys SE, et al. (2026) Repellent activity against *Aedes aegypti* and metabolomic profiling of *Myrica gale* L. essential oils from Irish boglands. *Scientific reports*, 16(1).

Monteiro J, et al. (2026) GNPS Untargeted GC-MS Metabolomic Analysis of Essential Oils From *Duguetia lanceolata* and Evaluation of Antimicrobial Activity. *Chemistry & biodiversity*, 23(2), e03280.

Makhafola MA, et al. (2026) Metabolites from South African Medicinal Plants as Dual-Function Inhibitors of the SARS-CoV-2 Papain-like Protease (PLpro). *Life (Basel, Switzerland)*, 16(3).