Resource Summary Report

Generated by kravitz2 on Jul 31, 2026

CHEBI

RRID:SCR_002088
Type: Tool

Proper Citation

CHEBI (RRID:SCR_002088)

Resource Information

URL: https://www.ebi.ac.uk/chebi/beta/

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Description: Collection of chemical compounds and other small molecular entities that incorporates an ontological classification of chemical compounds of biological relevance, whereby the relationships between molecular entities or classes of entities and their parents and/or children are specified. The molecular entities in question are either products of nature or synthetic products used to intervene in the processes of living organisms.

Abbreviations: ChEBI

Synonyms: CHEBI, Chemical Entities of Biological Interest

Resource Type: data or information resource, database

Defining Citation: PMID:19854951, PMID:19496059, PMID:17932057

Keywords: complex, conformer, ion, ion pair, isotope, molecular entity, molecule, radical, radical ion, small molecule, obo, gold standard, biochemistry, metabolomics, bio.tools

Funding: BBSRC BB/G022747/1

Availability: Freely available

Resource Name: CHEBI

Resource ID: SCR_002088

Alternate IDs: nif-0000-02655, biotools:chebi, r3d100012626

Alternate URLs: http://bioportal.bioontology.org/ontologies/1007, http://www.obofoundry.org/cgi-bin/detail.cgi?id=chebi,

ftp://ftp.ebi.ac.uk/pub/databases/chebi/ontology/chebi.obo, http://chebi.wiki.sourceforge.net/, https://bio.tools/chebi

Old URLs: http://www.ebi.ac.uk/chebi/

Record Creation Time: 20220129T080211+0000

Record Last Update: 20260729T044033+0000

Ratings and Alerts

No rating or validation information has been found for CHEBI.

No alerts have been found for CHEBI.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 126 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Vaz S, et al. (2025) Catalytic degradation of kraft lignin to determine its antioxidant potential for industrial purposes. Heliyon, 11(4), e42783.

Ninzatti L, et al. (2025) Artificial symbiont replacement in a vertically transmitted plant symbiosis reveals a role for microbe-microbe interactions in enforcing specificity. The ISME journal, 19(1).

Wang S, et al. (2025) ACSS2 coupled with KAT7 regulates histone ??-hydroxybutyrylation to enhance transcription. Science advances, 11(33), eadv8448.

Girija A, et al. (2025) Metabolomic approaches suggest two mechanisms of drought response post-anthesis in Mediterranean oat (Avena sativa L.) cultivars. Physiologia plantarum, 177(2), e70181.

Milani C, et al. (2025) Functional modulation of the human gut microbiome by bacteria vehicled by cheese. Applied and environmental microbiology, 91(3), e0018025.

Witting M, et al. (2024) Challenges and perspectives for naming lipids in the context of lipidomics. Metabolomics : Official journal of the Metabolomic Society, 20(1), 15.

Latini S, et al. (2024) Unveiling the signaling network of FLT3-ITD AML improves drug sensitivity prediction. eLife, 12.

Mullin S, et al. (2024) Chemical entity normalization for successful translational development of Alzheimer's disease and dementia therapeutics. Journal of biomedical

semantics, 15(1), 13.

Jordan EN, et al. (2024) Integrated omics of Saccharomyces cerevisiae CENPK2-1C reveals pleiotropic drug resistance and lipidomic adaptations to cannabidiol. NPJ systems biology and applications, 10(1), 63.

Nev OA, et al. (2024) Metabolic modelling as a powerful tool to identify critical components of Pneumocystis growth medium. PLoS computational biology, 20(10), e1012545.

Sternberg PW, et al. (2024) WormBase 2024: status and transitioning to Alliance infrastructure. Genetics, 227(1).

Hay AE, et al. (2024) Comparative metabolomics reveals how the severity of predation by the invasive insect Cydalima perspectalis modulates the metabolism re-orchestration of native Buxus sempervirens. Plant biology (Stuttgart, Germany).

Frleta Matas R, et al. (2024) Influence of Nutrient Deprivation on the Antioxidant Capacity and Chemical Profile of Two Diatoms from Genus Chaetoceros. Marine drugs, 22(2).

Kwoji ID, et al. (2024) Elucidating the Mechanisms of Cell-to-Cell Crosstalk in Probiotics Co-culture: A Proteomics Study of Limosilactobacillus reuteri ZJ625 and Ligilactobacillus salivarius ZJ614. Probiotics and antimicrobial proteins, 16(5), 1817.

Kyoda K, et al. (2024) SSBD: an ecosystem for enhanced sharing and reuse of bioimaging data. Nucleic acids research.

Hager MS, et al. (2024) Untargeted metabolomics profiling of oat (Avena sativa L.) and wheat (Triticum aestivum L.) infested with wheat stem sawfly (Cephus cinctus Norton) reveals differences associated with plant defense and insect nutrition. Frontiers in plant science, 15, 1327390.

Coudert E, et al. (2023) Annotation of biologically relevant ligands in UniProtKB using ChEBI. Bioinformatics (Oxford, England), 39(1).

Weber M, et al. (2023) PO2/TransformON, an ontology for data integration on food, feed, bioproducts and biowaste engineering. NPJ science of food, 7(1), 47.

Wijaya SH, et al. (2023) Deep Learning Approach for Predicting the Therapeutic Usages of Unani Formulas towards Finding Essential Compounds. Life (Basel, Switzerland), 13(2).

Bannerman BP, et al. (2023) Mycobacterial metabolic model development for drug target identification. GigaByte (Hong Kong, China), 2023, gigabyte80.