Resource Summary Report

Generated by ASWG on Aug 2, 2026

Chemical Translation Service

RRID:SCR_014681
Type: Tool

Proper Citation

Chemical Translation Service (RRID:SCR_014681)

Resource Information

URL: http://cts.fiehnlab.ucdavis.edu

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Description: A translation service which contains a registry of pubicly available chemical information such as structures, chemical names, chemical synonyms, database identifiers, molecular masses, XlogP and proton-donor/acceptor data for compound-specific, structure-based cross references. It offers single ID conversion, batch ID conversion, InChI code conversion, and other services.

Abbreviations: CTS

Synonyms: Chemical Translation Service (CTS)

Resource Type: data or information resource, database, service resource

Keywords: translation service, chemical translation, metabolomics, metabolomics tool, chemical properties, chemical structure, compound, chemical registry, cross reference

Availability: Available to public, A web GUI is used and a soap-based application-programming interface was implemented for automated access

Resource Name: Chemical Translation Service

Resource ID: SCR_014681

Record Creation Time: 20220129T080321+0000

Record Last Update: 20260801T191025+0000

Ratings and Alerts

No rating or validation information has been found for Chemical Translation Service.

No alerts have been found for Chemical Translation Service.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Al Zubaidi SM, et al. (2025) An enzyme activation network reveals extensive regulatory crosstalk between metabolic pathways. Molecular systems biology, 21(7), 870.

Pacheco-Fernandez T, et al. (2025) Protocol for identifying immune mediators during Leishmania infection in mice using metabolomic analysis. STAR protocols, 6(3), 103817.

Dunham SJB, et al. (2024) Sex-specific associations between AD genotype and the microbiome of human amyloid beta knock-in (hA??-KI) mice. Alzheimer's & dementia : the journal of the Alzheimer's Association, 20(7), 4935.

Muir DCG, et al. (2023) How Many Chemicals in Commerce Have Been Analyzed in Environmental Media? A 50 Year Bibliometric Analysis. Environmental science & technology, 57(25), 9119.

Wangchuk P, et al. (2023) Metabolomics and lipidomics studies of parasitic helminths: molecular diversity and identification levels achieved by using different characterisation tools. Metabolomics : Official journal of the Metabolomic Society, 19(7), 63.

Welch SA, et al. (2022) Pharmaceutical pollution: Prediction of environmental concentrations from national wholesales data. Open research Europe, 2, 71.

Brezmes J, et al. (2022) Urine NMR Metabolomics for Precision Oncology in Colorectal Cancer. International journal of molecular sciences, 23(19).

Ring NAR, et al. (2021) Wet-dry-wet drug screen leads to the synthesis of TS1, a novel compound reversing lung fibrosis through inhibition of myofibroblast differentiation. Cell death & disease, 13(1), 2.

Neier K, et al. (2021) Sex disparate gut microbiome and metabolome perturbations precede disease progression in a mouse model of Rett syndrome. Communications biology, 4(1), 1408.

Karlstaedt A, et al. (2021) Stable Isotopes for Tracing Cardiac Metabolism in Diseases. Frontiers in cardiovascular medicine, 8, 734364.

Oommen AM, et al. (2021) An integrative network analysis framework for identifying molecular functions in complex disorders examining major depressive disorder as a test case. Scientific reports, 11(1), 9645.

Yeshi K, et al. (2020) Metabolomes and Lipidomes of the Infective Stages of the Gastrointestinal nematodes, Nippostrongylus brasiliensis and Trichuris muris. Metabolites, 10(11).

Zhou Z, et al. (2020) Ion mobility collision cross-section atlas for known and unknown metabolite annotation in untargeted metabolomics. Nature communications, 11(1), 4334.

Witting M, et al. (2018) Modeling Meets Metabolomics-The WormJam Consensus Model as Basis for Metabolic Studies in the Model Organism Caenorhabditis elegans. Frontiers in molecular biosciences, 5, 96.

Reznik E, et al. (2018) A Landscape of Metabolic Variation across Tumor Types. Cell systems, 6(3), 301.

Quanico J, et al. (2017) Integrated mass spectrometry imaging and omics workflows on the same tissue section using grid-aided, parafilm-assisted microdissection. Biochimica et biophysica acta. General subjects, 1861(7), 1702.

Barupal DK, et al. (2017) Chemical Similarity Enrichment Analysis (ChemRICH) as alternative to biochemical pathway mapping for metabolomic datasets. Scientific reports, 7(1), 14567.

Alam MT, et al. (2017) The self-inhibitory nature of metabolic networks and its alleviation through compartmentalization. Nature communications, 8, 16018.

Kumari A, et al. (2017) Metabolomic homeostasis shifts after callus formation and shoot regeneration in tomato. PloS one, 12(5), e0176978.

Barnes S, et al. (2016) Training in metabolomics research. II. Processing and statistical analysis of metabolomics data, metabolite identification, pathway analysis, applications of metabolomics and its future. Journal of mass spectrometry : JMS, 51(8), 535.