

Resource Summary Report

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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 publicly 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: 20260821T194026+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 25 mentions in open access literature.

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

Lemos GO, et al. (2026) Changes in Plasma Sphingolipid Metabolites Following Roux-En-Y Gastric Bypass in Women With Obesity and Type 2 Diabetes: A Pilot Metabolomic Cohort Study. *Lipids*, 61(2), 195.

Schanbacher F, et al. (2026) Curation of Mass Spectrometry Reference Data for Improved Identification and Dereplication of Cyanobacterial Specialized Metabolites. *Journal of natural products*, 89(5), 1499.

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

Ramiro-Cortijo D, et al. (2025) Untargeted Metabolomics and Chemometrics Elucidate Dynamic Plasma Profile Changes Induced by Cocoa Shell in Female Rats. *Nutrients*, 17(5).

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

Dunham SJB, et al. (2024) Sex-specific associations between AD genotype and the microbiome of human amyloid beta knock-in (hA β -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.

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.

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

Mamoshina P, et al. (2020) Dual Transcriptomic and Molecular Machine Learning Predicts all Major Clinical Forms of Drug Cardiotoxicity. *Frontiers in pharmacology*, 11, 639.

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.