

# Resource Summary Report

Generated by SPARC SAWG on Jul 28, 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>

**Proper Citation:** Chemical Translation Service (RRID:SCR\_014681)

**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:** service resource, database, data or information 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:** 20260728T043442+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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 21 mentions in open access literature.

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

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 $\beta$ -KI) mice. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 20(7), 4935.

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.

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.

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.

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