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

Proper Citation: Chemical Translation Service (RRID:SCR_014681)

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, service resource, database

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

Funding:

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: 20250509T060104+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 19 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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.

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.

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.

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.

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

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.

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

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

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.

Wohlgemuth G, et al. (2010) The Chemical Translation Service--a web-based tool to improve standardization of metabolomic reports. Bioinformatics (Oxford, England), 26(20), 2647.