Resource Summary Report

Generated by PRECISE-TBI on Aug 1, 2026

Comparative Toxicogenomics Database (CTD)

RRID:SCR_006530
Type: Tool

Proper Citation

Comparative Toxicogenomics Database (CTD) (RRID:SCR_006530)

Resource Information

URL: http://ctdbase.org/

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Description: A public database that enhances understanding of the effects of environmental chemicals on human health. Integrated GO data and a GO browser add functionality to CTD by allowing users to understand biological functions, processes and cellular locations that are the targets of chemical exposures. CTD includes curated data describing cross-species chemical–gene/protein interactions, chemical–disease and gene–disease associations to illuminate molecular mechanisms underlying variable susceptibility and environmentally influenced diseases. These data will also provide insights into complex chemical–gene and protein interaction networks.

Abbreviations: CTD

Synonyms: CTD - Comparative Toxicogenomics Database

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

Defining Citation: PMID:16902965, PMID:16675512, PMID:14735110, PMID:12760826

Keywords: environment, chemical, disease, gene, pathway, protein, interaction, animal model, ontology, annotation, toxin, ontology or annotation browser, FASEB list

Funding: Pfizer ;
American Chemistry Council ;
NIEHS ES014065;
NIEHS R01 ES019604;
NCRR P20 RR016463;
NIEHS U24 ES033155

Availability: Free, Freely available

Resource Name: Comparative Toxicogenomics Database (CTD)

Resource ID: SCR_006530

Alternate IDs: OMICS_01578, nif-0000-02683, r3d100011530

Alternate URLs: http://ctd.mdibl.org, https://doi.org/10.17616/R3KS7N

Record Creation Time: 20220129T080236+0000

Record Last Update: 20260801T042624+0000

Ratings and Alerts

No rating or validation information has been found for Comparative Toxicogenomics Database (CTD).

No alerts have been found for Comparative Toxicogenomics Database (CTD).

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1188 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Zhou P, et al. (2026) Exploring the role of cytochrome P450 family 1 subfamily B member 1 and quercetin in modulating neuropathic pain after spinal cord injury. Molecular medicine reports, 33(1).

Cai S, et al. (2026) Identification and validation of novel inflammatory response-related diagnostic biomarkers in diabetic foot ulcers. Journal of diabetes investigation, 17(1), 103.

Xu J, et al. (2026) Dysregulation of Pulpitis Progression Through Modulation of the lncRNA ITGB2-AS1 /miR-1224-5p Axis. International dental journal, 76(1), 104027.

Luan R, et al. (2026) Pan-cancer multi-omics reveals DCAF7 as an immune-modulating prognostic driver and Wnt/?-catenin activator in hepatocellular carcinoma. Clinical and translational medicine, 16(1), e70572.

Chen H, et al. (2026) Dual-pathway mechanism of vanadium-induced hepatotoxicity in ducks: Synergistic crosstalk between glucose homeostasis disruption and NADH/FSP1/COQ10 axis-driven ferroptosis. International journal of biological sciences, 22(1), 43.

Huang L, et al. (2026) New insight into the epidemiological trends of respiratory syncytial virus infection and the underlying anti-respiratory syncytial virus mechanisms of

andrographolide: integrating Global Burden of Disease database, network pharmacological analysis, and in vitro experiments. Microbiology spectrum, 14(1), e0234125.

Castresana-Aguirre M, et al. (2025) Computational decoding of cell-cycle phase effects on cancer hallmarks across breast cancer subtypes. Breast cancer research : BCR.

Wei Z, et al. (2025) Association Between Per- and Polyfluoroalkyl Substances and All-Cause Mortality in Diabetic Patients: Insights from a National Cohort Study and Toxicogenomic Analysis. Toxics, 13(3).

Li J, et al. (2025) The protective effect of naringenin on ulcerative colitis in mice through increasing Nrf2 pathway activity. Acta biochimica et biophysica Sinica, 57(7), 1068.

Yang X, et al. (2025) BIRC5 Is a Potential Biomarker Associated with Immune System Infiltration in Glioma. Journal of Korean Neurosurgical Society, 68(2), 184.

Chen T, et al. (2025) Investigating ferroptosis-related genes NFE2L2 in neutrophils for ankylosing spondylitis: therapeutic potential of cassia twigs. Scientific reports, 15(1), 8233.

Guo J, et al. (2025) Exploring the causal associations of the gut microbiota and plasma metabolites with ovarian cancer: an approach of mendelian randomization analysis combined with network pharmacology and molecular docking. Journal of ovarian research, 18(1), 27.

Yin X, et al. (2025) Therapeutic effect of miR-30b-5p-loaded lentivirus on experimental autoimmune uveitis via inhibiting Notch signaling activation. Journal of translational medicine, 23(1), 426.

Wan B, et al. (2025) Identification of a key environment-responsive gene mediating environmental impact on postmenopausal osteoporosis. Frontiers in public health, 13, 1536851.

Liang C, et al. (2025) Revealing the Impact of Mono(2-ethylhexyl) Phthalate (MEHP) on Prostate Cancer Based on Network Toxicology and Molecular Docking Approaches. Journal of applied toxicology : JAT, 45(10), 2078.

Tao Y, et al. (2025) Homoplantaginin inhibits the progression of ulcerative colitis in mice by regulating the MMP9-RLN2 signaling axis. Frontiers in medicine, 12, 1582066.

Teng X, et al. (2025) Integrating bioinformatics and machine learning to discover sumoylation associated signatures in sepsis. Scientific reports, 15(1), 14398.

Fan L, et al. (2025) Comprehensive analysis of ceRNA Networks in UCEC: Prognostic and therapeutic implications. PloS one, 20(1), e0314314.

Zhao Y, et al. (2025) ?-Lipoic Acid Ameliorates Arsenic-Induced Lipid Disorders by Promoting Peroxisomal ?-Oxidation and Reducing Lipophagy in Chicken Hepatocyte. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(11), e2413255.

Hao L, et al. (2025) A Review of the Therapeutic Potential of Ginseng and Its Bioactive Components in Nonalcoholic Fatty Liver Disease. Drug design, development and therapy, 19, 83.