# Resource Summary Report

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## 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:** analysis service resource, data analysis service, data or information resource, database, production service resource, 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:** American Chemistry Council ;
NCRR P20 RR016463;
NIEHS ES014065;
NIEHS R01 ES019604;
NIEHS U24 ES033155;
Pfizer

**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:** 20260821T193758+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 1901 mentions in open access literature.

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

Jiang YY, et al. (2026) Ze-qi Decoction Inhibits Neutrophil Extracellular Trap Formation to Suppress the Progression and Metastasis of Non-Small Cell Lung Cancer. Integrative cancer therapies, 25, 15347354261420750.

Fadhal E, et al. (2026) Graph-theoretical Analysis of a Modeled Protein-protein Interaction Network in the RAS Signaling Pathway. Journal of visualized experiments : JoVE(229).

Zhuang C, et al. (2026) Mechanisms of deoxynivalenol-induced multi-organ toxicity in broiler chickens: The central role of the Rap1/MAPK pathway revealed by network pharmacology and molecular docking. Poultry science, 105(4), 106494.

Wang Y, et al. (2026) Exploration Novel Therapeutic Targets for Periodontitis via Stress Granules Biomarkers. International dental journal, 76(2), 109390.

Chen C, et al. (2026) Computational-experimental study reveals direct target and bioactives of Ajania fruticulosa against NAFLD via TLR2/NF-?B/PPAR-? signaling. NPJ science of food, 10(1), 73.

Li S, et al. (2026) Rheumatoid arthritis and gout: a rare combination or overlooked coexistence? Arthritis research & therapy, 28(1), 48.

Chen J, et al. (2026) Multiomics combined drugs to explore the potential mechanism and treatment of ankylosing spondylitis. Journal of orthopaedic surgery and research, 21(1).

Zhou T, et al. (2026) Integrated Transcriptomics and Experimental Validation Reveal That Ellagic Acid Alleviates Fuchs Endothelial Corneal Dystrophy via PLAU/NF-?B Signaling. Investigative ophthalmology & visual science, 67(1), 31.

He Y, et al. (2026) Mitochondrial-related biomarkers as the diagnostic markers in sepsis induced acute respiratory distress syndrome. European journal of medical research, 31(1), 199.

Schimith LE, et al. (2026) Glycosylation Matters: Network Pharmacology-Based and Molecular Docking Analysis of Resveratrol Glycosylated Derivatives on Parkinson's Disease. ACS omega, 11(5), 7597.

Li K, et al. (2026) ACADL and ADH1B signify ketone body metabolic reprogramming in osteoarthritic synovium: insights from bioinformatics and animal model studies. Frontiers in medicine, 13, 1700784.

Yoo SS, et al. (2026) Stress Accelerates Depressive-Like Behaviors through Increase of Notch2 Expression in N141I Mutation Presenilin-2 Transgenic Mice. Biomolecules & therapeutics, 34(3), 544.

Long S, et al. (2026) Integration of 117 machine learning algorithms and single-cell transcriptomics identifies macrophage polarization and ER stress signatures for cancer prognosis and precision therapy. Discover oncology, 17(1).

Wei W, et al. (2026) Pharmacovigilance and toxicological studies on safety signals associated with the combined use of propofol and midazolam. BMC anesthesiology, 26(1).

Yang J, et al. (2026) Separation and Characterization of Self-Assembled Nanoparticles from Rheum palmatum L.-Salvia miltiorrhiza Bunge Extract and Their Renoprotective Effects in Acute Kidney Injury. Antioxidants (Basel, Switzerland), 15(4).

Li T, et al. (2026) Unraveling the potential carcinogenic risk of bisphenols: a comprehensive network analysis and computational toxicology insights. Human genomics, 20(1).

Li Z, et al. (2026) Potential of SP1 as a prognostic marker and therapeutic target in acute myocardial infarction: a bioinformatics, Mendelian randomization and experimental validation study. Frontiers in immunology, 17, 1742618.

Shen X, et al. (2026) Unraveling the Mechanism of Cuochuangling Pills in Rosacea Treatment: An Integrated Approach Combining Network Pharmacology, Bioinformatics, and Experimental Validation. Clinical, cosmetic and investigational dermatology, 19, 579507.

Zhao R, et al. (2026) From early smoking to COPD and other chronic respiratory disease: unraveling the roles of chemical pollutants and underlying toxicological mechanisms. BMC pulmonary medicine, 26(1).

Li Y, et al. (2026) Network toxicology study and key target validation of chlorpyrifos-induced nonalcoholic fatty liver disease. Scientific reports, 16(1).