# **Resource Summary Report**

Generated by NIF on May 3, 2025

# **SIDER**

RRID:SCR\_004321

Type: Tool

### **Proper Citation**

SIDER (RRID:SCR\_004321)

### Resource Information

URL: http://sideeffects.embl.de/

**Proper Citation:** SIDER (RRID:SCR\_004321)

**Description:** Database containing information on marketed medicines and their recorded adverse drug reactions. The information is extracted from public documents and package inserts. The available information include side effect frequency, drug and side effect classifications as well as links to further information, for example drug-target relations. The SIDER Side Effect Resource represents an effort to aggregate dispersed public information on side effects. To our knowledge, no such resource exist in machine-readable form despite the importance of research on drugs and their effects. The creation of this resource was motivated by the many requests for data that we received related to our paper (Campillos, Kuhn et al., Science, 2008, 321(5886):263-6.) on the utilization of side effects for drug target prediction. Inclusion of side effects as readouts for drug treatment should have many applications and we hope to be able to enhance the respective research with this resource. You may browse the drugs by name, browse the side effects by name, download the current version of SIDER, or use the search interface.

**Abbreviations: SIDER** 

Synonyms: Side Effect Resource, SIDER: Side Effect Resource

Resource Type: database, data or information resource

**Defining Citation:** PMID:20087340

**Keywords:** medicine, drug, side effect, adverse drug reaction, drug-target, phenotype.

bio.tools, FASEB list

#### **Funding:**

Availability: Except as otherwise noted, Creative Commons Attribution-NonCommercial-

ShareAlike License, v3, Commercial use requires permission

Resource Name: SIDER

Resource ID: SCR\_004321

Alternate IDs: nlx\_33359, OMICS\_01588, biotools:sider

Alternate URLs: https://bio.tools/sider

**Record Creation Time:** 20220129T080223+0000

Record Last Update: 20250503T055641+0000

### Ratings and Alerts

No rating or validation information has been found for SIDER.

No alerts have been found for SIDER.

#### Data and Source Information

Source: SciCrunch Registry

## **Usage and Citation Metrics**

We found 339 mentions in open access literature.

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

Moon H, et al. (2025) MultiChem: predicting chemical properties using multi-view graph attention network. BioData mining, 18(1), 4.

Duong Nguyen TT, et al. (2025) PGxDB: an interactive web-platform for pharmacogenomics research. Nucleic acids research, 53(D1), D1486.

Cohen JD, et al. (2025) In vitro human ion channel assays predictive of drug-induced seizure. Toxicological sciences: an official journal of the Society of Toxicology, 203(2), 253.

Fernández-Llaneza D, et al. (2025) An Integrated Approach for Representing Knowledge on the Potential of Drugs to Cause Acute Kidney Injury. Drug safety, 48(1), 43.

Zhang R, et al. (2025) Proteome-Wide Identification and Comparison of Drug Pockets for

Discovering New Drug Indications and Side Effects. Molecules (Basel, Switzerland), 30(2).

Tian L, et al. (2025) Predicting drug combination side effects based on a metapath-based heterogeneous graph neural network. BMC bioinformatics, 26(1), 16.

Mackay J, et al. (2025) The Folk Concept of Nursing in Australia: A Decolonising Conceptual Analysis. Nursing philosophy: an international journal for healthcare professionals, 26(1), e70012.

Sun L, et al. (2025) ISLRWR: A network diffusion algorithm for drug-target interactions prediction. PloS one, 20(1), e0302281.

Jung SG, et al. (2025) Automatic Prediction of Molecular Properties Using Substructure Vector Embeddings within a Feature Selection Workflow. Journal of chemical information and modeling, 65(1), 133.

Bai H, et al. (2024) Graph reasoning method enhanced by relational transformers and knowledge distillation for drug-related side effect prediction. iScience, 27(6), 109571.

Brenning M, et al. (2024) Variation in stable carbon (?13C) and nitrogen (?15N) isotope compositions along antlers of Qamanirjuaq caribou (Rangifer tarandus groenlandicus). Ecology and evolution, 14(3), e11006.

Yang J, et al. (2024) CPMKG: a condition-based knowledge graph for precision medicine. Database: the journal of biological databases and curation, 2024.

Dimitsaki S, et al. (2024) Applying AI to Structured Real-World Data for Pharmacovigilance Purposes: Scoping Review. Journal of medical Internet research, 26, e57824.

Ferreira GR, et al. (2024) Evolutionary divergent clusters of transcribed extinct truncated retroposons drive low mRNA expression and developmental regulation in the protozoan Leishmania. BMC biology, 22(1), 249.

Li Y, et al. (2024) A comparative benchmarking and evaluation framework for heterogeneous network-based drug repositioning methods. Briefings in bioinformatics, 25(3).

Zheng H, et al. (2024) GnRH peripherally modulates nociceptor functions, exacerbating mechanical pain. Frontiers in molecular neuroscience, 17, 1160435.

Möbus L, et al. (2024) A Multi-Dimensional Approach to Map Disease Relationships Challenges Classical Disease Views. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(30), e2401754.

Jung W, et al. (2024) Absorption Distribution Metabolism Excretion and Toxicity Property Prediction Utilizing a Pre-Trained Natural Language Processing Model and Its Applications in Early-Stage Drug Development. Pharmaceuticals (Basel, Switzerland), 17(3).

Chen R, et al. (2024) Expanding drug targets for 112 chronic diseases using a machine learning-assisted genetic priority score. Nature communications, 15(1), 8891.

Rodríguez-Belenguer P, et al. (2024) Integrating Mechanistic and Toxicokinetic Information in Predictive Models of Cholestasis. Journal of chemical information and modeling, 64(7), 2775.