

Resource Summary Report

Generated by [dkNET](#) on Sep 1, 2026

ROBOKOP

RRID:SCR_023437

Type: Tool

Proper Citation

ROBOKOP (RRID:SCR_023437)

Resource Information

URL: <https://robokop.renci.org/>

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Description: ROBOKOP system consists of web based user interface, API server, and several worker servers. Biomedical knowledge graph that integrates and semantically harmonizes important knowledge sources. Contains nodes representing entities such as genes, chemicals, and diseases, and edges representing relationships between them. Abstraction layer and user interface for knowledge graphs to support question answering. Used for reasoning over structured biomedical knowledge databases as part of NCATS translator and reasoner programs. ROBOKOP Knowledge Graph Builder constructs KG and provides extensible framework to handle graph query over and integration of federated data sources.

Abbreviations: ROBOKOP

Synonyms: , ROBOKOP Graph Knowledgebase; Reasoning Over Biomedical Objects linked in Knowledge Oriented Pathways, ROBOKOP Knowledge Graph Builder (KGB), ROBOKOP KG, ROBOKOP KGB, ROBOKOP Knowledge Graph

Resource Type: data or information resource, portal, project portal

Defining Citation: [PMID:31410449](#), [PMID:31769676](#)

Keywords: NCATS translator, knowledge graphs, structured biomedical knowledge databases, genes, chemicals, diseases, node, relationships edges,

Funding: NCATS OT2R002514;
NCATS OT3TR002020;
NIEHS U24ES035214

Availability: Free, Freely available

Resource Name: ROBOKOP

Resource ID: SCR_023437

Alternate URLs: <https://github.com/NCATS-Gamma/robokop>,
<http://robokopkg.renci.org/browser/>,

License: MIT license

License URLs: <https://robokop.renci.org/api-docs/docs/automat/automat>

Record Creation Time: 20230405T050216+0000

Record Last Update: 20260829T182855+0000

Ratings and Alerts

No rating or validation information has been found for ROBOKOP.

No alerts have been found for ROBOKOP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Fecho K, et al. (2026) The ROBOKOP v1.0 knowledge graph system for exploring relationships between biomedical entities. Scientific reports, 16(1).

Fecho K, et al. (2025) Elucidating the mechanistic relationships between peroxisome proliferator-activated receptors and hepatic fibrosis using the ROBOKOP knowledge graph. Frontiers in toxicology, 7, 1549268.

Korn D, et al. (2020) COVID-KOP: Integrating Emerging COVID-19 Data with the ROBOKOP Database. ChemRxiv : the preprint server for chemistry.