

Resource Summary Report

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Provenance Ontology

RRID:SCR_010415

Type: Tool

Proper Citation

Provenance Ontology (RRID:SCR_010415)

Resource Information

URL: <http://purl.bioontology.org/ontology/PROVO>

Proper Citation: Provenance Ontology (RRID:SCR_010415)

Description: Ontology that expresses the PROV Data Model using the OWL2 Web Ontology Language (OWL2) providing a set of classes, properties, and restrictions that can be used to represent and interchange provenance information generated in different systems and under different contexts. It can also be specialized to create new classes and properties to model provenance information for different applications and domains.

Abbreviations: PROVO

Synonyms: PROV-O

Resource Type: controlled vocabulary, data or information resource, ontology

Keywords: owl

Resource Name: Provenance Ontology

Resource ID: SCR_010415

Alternate IDs: nlx_157563

Record Creation Time: 20220129T080258+0000

Record Last Update: 20260919T195155+0000

Ratings and Alerts

No rating or validation information has been found for Provenance Ontology.

No alerts have been found for Provenance Ontology.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Prudhomme T, et al. (2025) A semantic approach to mapping the Provenance Ontology to Basic Formal Ontology. Scientific data, 12(1), 282.

Ansari A, et al. (2025) A prototype ETL pipeline that uses HL7 FHIR RDF resources when deploying pure functions to enrich knowledge graph patient data. Journal of biomedical semantics, 16(1), 16.

Köhler CA, et al. (2025) Improving data sharing and knowledge transfer via the Neuroelectrophysiology Analysis Ontology (NEAO). Scientific data, 12(1), 907.

Köhler CA, et al. (2024) Facilitating the Sharing of Electrophysiology Data Analysis Results Through In-Depth Provenance Capture. eNeuro, 11(6).

Iavarone E, et al. (2023) Thalamic control of sensory processing and spindles in a biophysical somatosensory thalamoreticular circuit model of wakefulness and sleep. Cell reports, 42(3), 112200.

Samuel S, et al. (2022) End-to-End provenance representation for the understandability and reproducibility of scientific experiments using a semantic approach. Journal of biomedical semantics, 13(1), 1.

Kaliyaperumal R, et al. (2022) Semantic modelling of common data elements for rare disease registries, and a prototype workflow for their deployment over registry data. Journal of biomedical semantics, 13(1), 9.

Bresso E, et al. (2021) Investigating ADR mechanisms with Explainable AI: a feasibility study with knowledge graph mining. BMC medical informatics and decision making, 21(1), 171.

Amith M, et al. (2021) The ontology of fast food facts: conceptualization of nutritional fast food data for consumers and semantic web applications. BMC medical informatics and decision making, 21(Suppl 7), 275.

Monnin P, et al. (2019) PGxO and PGxLOD: a reconciliation of pharmacogenomic knowledge of various provenances, enabling further comparison. BMC bioinformatics, 20(Suppl 4), 139.