

# Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

## Gene Regulation Ontology

RRID:SCR\_010590

Type: Tool

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### Proper Citation

Gene Regulation Ontology (RRID:SCR\_010590)

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### Resource Information

**URL:** <http://purl.bioontology.org/ontology/GRO>

**Proper Citation:** Gene Regulation Ontology (RRID:SCR\_010590)

**Description:** Ontology that is a conceptual model for the domain of gene regulation. It covers processes that are linked to the regulation of gene expression as well as physical entities that are involved in these processes (such as genes and transcription factors) in terms of ontology classes and semantic relations between classes. GRO is intended to represent common knowledge about gene regulation in a formal way rather than representing extremely fine-grained classes as can be found in ontologies such as the Gene Ontology (GO) (created for data base annotation purposes) and various relevant databases. The main purpose of the ontology is to support NLP applications. It has a particular focus on the relations between processes and the molecules (participants) involved. The basic structure of the GRO is a direct acyclic graph (DAG) with ontology classes as nodes and is-a relations between classes as edges. The taxonomic backbone is further enriched by several semantic relation types (part-of, from-species, participates-in with the two sub-relations agent-of and patient-of).

**Abbreviations:** GRO, BOOTStrep

**Synonyms:** Gene Regulation Ontology - Ontological resource from the BOOTStrep project for the representation of gene regulation events

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

**Keywords:** owl, genomic, proteomic, biological process, gene regulation, gene expression, gene, transcription factor, process, molecule, biological\_process

**Resource Name:** Gene Regulation Ontology

**Resource ID:** SCR\_010590

**Alternate IDs:** nlx\_157415, nlx\_46399

**Alternate URLs:** <http://www.ebi.ac.uk/Rebholz-srv/GRO/GRO.html>,  
[http://www.ebi.ac.uk/Rebholz-srv/GRO/GRO\\_latest](http://www.ebi.ac.uk/Rebholz-srv/GRO/GRO_latest)

**Record Creation Time:** 20220129T080259+0000

**Record Last Update:** 20260821T193924+0000

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## Ratings and Alerts

No rating or validation information has been found for Gene Regulation Ontology.

No alerts have been found for Gene Regulation Ontology.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.