

Resource Summary Report

Generated by [ASWG](#) on Sep 18, 2026

IMGT-ONTOLOGY

RRID:SCR_010342

Type: Tool

Proper Citation

IMGT-ONTOLOGY (RRID:SCR_010342)

Resource Information

URL: <http://purl.bioontology.org/ontology/IMGT-ONTOLOGY>

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Description: Ontology for immunogenetics and immunoinformatics. Provides semantic specification of terms to be used in immunogenetics and immunoinformatics and manages related knowledge, thus allowing standardization for immunogenetics data from genome, proteome, genetics, two-dimensional (2D) and three-dimensional (3D) structures. Manages the knowledge through diverse facets relying on seven axioms, IDENTIFICATION, CLASSIFICATION, DESCRIPTION, NUMEROTATION, LOCALIZATION, ORIENTATION and OBTENTION. These axioms postulate that any object, any process and any relation can be identified, classified, described, numbered, localized and orientated, and the way it is obtained can be characterized. The axioms constitute the Formal IMGT-ONTOLOGY, also designated as IMGT-Kaleidoscope. As the same axioms can be used to generate concepts for multi-scale level approaches, the Formal IMGT-ONTOLOGY represents a paradigm for system biology ontologies, which need to identify, to classify, to describe, to number, to localize and to orientate objects, processes and relations at the molecule, cell, tissue, organ, organism or population levels. IMGT, the international ImMunoGeneTics information system, has been built on IMGT-ONTOLOGY. The version 1.0.2 of IMGT-ONTOLOGY includes the concepts of IDENTIFICATION and the concepts of CLASSIFICATION.

Abbreviations: IMGT-ONTOLOGY

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

Keywords: owl, ontology, immunogenetics, immunoinformatics, terms semantic specification, bio.tools

Availability: Free, Freely available

Resource Name: IMGT-ONTOLOGY

Resource ID: SCR_010342

Alternate IDs: nlx_157436, biotools:IMGt-ONtOLOGY

Alternate URLs: <http://www.imgt.org/IMGtindex/ontology.php>, <https://bio.tools/IMGt-ONtOLOGY>

Record Creation Time: 20220129T080258+0000

Record Last Update: 20260912T195717+0000

Ratings and Alerts

No rating or validation information has been found for IMGt-ONtOLOGY.

No alerts have been found for IMGt-ONtOLOGY.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Lefranc MP, et al. (2026) IMGt® Nomenclature of Immunoglobulins (IG) or Antibodies and T Cell Receptors (TR): A Common Language for Immunoinformatics and Artificial Intelligence (AI). Antibodies (Basel, Switzerland), 15(2).

Kustro Garnica T, et al. (2026) Unraveling IGK locus in dog breeds: IMGt® new insights into canine immunogenetics. NAR genomics and bioinformatics, 8(1), lqag020.