# **Resource Summary Report**

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## **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: data or information resource, controlled vocabulary, ontology

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

**Funding:** 

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: 20250519T203608+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 have not found any literature mentions for this resource.