IMGT/HLA

RRID:SCR_002971
Type: Tool

Proper Citation

IMGT/HLA (RRID:SCR_002971)

Resource Information

URL: http://www.ebi.ac.uk/imgt/hla/

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Description: Database for sequences of the human major histocompatibility complex (HLA) and includes the official sequences for the WHO Nomenclature Committee For Factors of the HLA System. It currently contains 9,310 allele sequences (2013) along with detailed information concerning the material from which the sequence was derived and data on the validation of the sequences. It is established procedure for authors to submit the sequences directly to the IMGT/HLA Database for checking and assignment of an official name prior to publication, this avoids the problems associated with renaming published sequences and the confusion of multiple names for the same sequence. The need for reasonably rapid publication of new HLA allele sequences has necessitated an annual meeting of the WHO Nomenclature Committee for Factors of the HLA System. Additionally they now publish monthly HLA nomenclature updates both in journals and online to provide quick and easy access to new sequence information. The IMGT/HLA Database is part of the international ImMunoGeneTics project. In collaboration with the Imperial Cancer Research Fund (ICRF) and European Bioinformatics Institute (EBI) they have developed an Oracle database to house the HLA sequences in such a way as to allow users to present complex queries about the sequence, sequence features, references, contacts and allele designations to the database via a graphical user interface over the web. The IMGT/HLA Database Submission Tool allows direct submission of sequences to the WHO HLA Nomenclature Committee for Factors of the HLA System. The IMGT/HLA Database provides an FTP site for the retrieval of sequences in a number of pre-formatted files.

Abbreviations: IMGT HLA, IMGT/HLA
**Synonyms:** International ImMunoGeneTics/Human Leukocyte Antigen Database, IMGT/HLA Database, IMGT/HLA DB, IMGT HLA

**Resource Type:** storage service resource, database, service resource, data or information resource, data repository

**Defining Citation:** PMID:21071412, PMID:10777106, PMID:18838392

**Keywords:** alignment, allele, cell, hla, sequence alignment, major histocompatibility complex, nomenclature, blast, immunogenetics, histocompatibility, gene mapping, gene rearrangement, genetic recombination, genetics, gold standard, bio.tools

**Funding Agency:** EU Biotech, Anthony Nolan Trust, Imperial Cancer Research Fund

**Availability:** Creative Commons Attribution-NoDerivs License

**Resource Name:** IMGT/HLA

**Resource ID:** SCR_002971

**Alternate IDs:** nif-0000-03014, biotools:ipd-imgt_hla

**Alternate URLs:** https://bio.tools/ipd-imgt_hla

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**Ratings and Alerts**

No rating or validation information has been found for IMGT/HLA.

No alerts have been found for IMGT/HLA.

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**Data and Source Information**

**Source:** SciCrunch Registry

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**Usage and Citation Metrics**

We found 238 mentions in open access literature.

**Listed below are recent publications.** The full list is available at RRID.


Li X, et al. (2022) HLA3D: an integrated structure-based computational toolkit for immunotherapy. Briefings in bioinformatics, 23(3).


Li Y, et al. (2022) A low-cost, sensitive and specific PCR-based tool for rapid clinical detection of HLA-B*35 alleles associated with delayed drug hypersensitivity reactions. HLA, 100(6), 610.

Classon J, et al. (2022) Prostate cancer disease recurrence after radical prostatectomy is associated with HLA type and local cytomegalovirus immunity. Molecular oncology, 16(19), 3452.

Stuart PE, et al. (2022) Transethnic analysis of psoriasis susceptibility in South Asians and Europeans enhances fine-mapping in the MHC and genomewide. HGG advances, 3(1).

Rasouli-Saravani A, et al. (2021) Relevance of autoantibody profile with HLA-DRB1 and -DQB1 alleles in a group of Iranian systemic lupus erythematosus patients. Immunology letters, 237, 11.


Andeweg SP, et al. (2021) Quantifying the Impact of Human Leukocyte Antigen on the Human Gut Microbiota. mSphere, 6(4), e0047621.

