

Resource Summary Report

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

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

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

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Anthony Nolan Trust ;
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Availability: Creative Commons Attribution-NoDerivs License

Resource Name: IMGT/HLA

Resource ID: SCR_002971

Alternate IDs: nif-0000-03014, biotools:ipd-imgt_hla, r3d100010804

Alternate URLs: https://bio.tools/ipd-imgt_hla, <https://doi.org/10.17616/R3T31N>

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Record Creation Time: 20220129T080216+0000

Record Last Update: 20260807T042546+0000

Ratings and Alerts

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

No alerts have been found for IMGT/HLA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 291 mentions in open access literature.

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

Schäfer A, et al. (2026) Integrating killer cell immunoglobulin-like receptor highresolution genotyping for predicting transplant outcomes in allogeneic hematopoietic stem cell transplantation. Haematologica, 111(3), 971.

M Lotfy M, et al. (2026) Mapping HLA class I and II allele associations with hepatitis C related liver disease progression in an Egyptian cohort. Discover oncology, 17(1).

Lázaro G, et al. (2026) HLA-DRB1 Allelic Combinations Differentially Shape Dendritic Cell Antigen Presentation Enhanced by Tumour Cell Line Lysate-Pulsing. *HLA*, 107(2), e70563.

Lee H, et al. (2026) High-Resolution Eight-Digit Human Leukocyte Antigen-A, -B, -C, and -DRB1 Allele and Haplotype Frequencies in South Koreans Using Next-Generation Sequencing. *Annals of laboratory medicine*, 46(4), 465.

Lee Y, et al. (2026) Decoding the human CD4⁺ T cell epitope repertoire for Lassa fever virus reveals T cell-based pan-mammarenavirus vaccine candidates. *Cell reports. Medicine*, 7(6), 102824.

Luo Y, et al. (2026) Single-Cell Dissection Reveals Immune Dysregulation After CD5 or CD7-Directed Chimeric Antigen Receptor T-Cell Therapy. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(8), e09259.

Wang S, et al. (2026) A Scalable Framework for Comprehensive Typing of Polymorphic Immune Genes from Long-Read Data. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(22), e21531.

Bhattacharya S, et al. (2026) HLA polymorphisms shape divergent outcomes of Toxoplasma and Plasmodium infection in Eastern Indian HbE/?-thalassemia cohort. *Communications biology*, 9(1).

Burkitbayev Z, et al. (2026) High-Resolution NGS HLA Typing Identifies Specific Class II-Dominant Risk Haplotypes and HLA LD Structure in Acute Lymphoblastic Leukaemia Among Ethnic Kazakhs. *HLA*, 107(6), e70791.

Vince N, et al. (2026) HLA Class II Protein Expression Regulation Is Strongly Linked to Cis-Acting SNPs. *HLA*, 107(4), e70669.

Xu J, et al. (2026) deltaHED predicts survival and immune evasion in PD-1 blockade therapy: A multi-cohort study across three cancer types. *Clinical and translational medicine*, 16(2), e70595.

Gately R, et al. (2025) Comparison Between Antigen and Allelic HLA Mismatches, and the Risk of Acute Rejection in Kidney Transplant Recipients. *HLA*, 105(4), e70163.

Kanaan SB, et al. (2025) Quantifying HLA transcripts by genotype in chimeric mixtures at single-cell resolution. *bioRxiv : the preprint server for biology*.

Banjoko AW, et al. (2025) High resolution class I HLA-A, -B, and -C diversity in Eastern and Southern African populations. *Scientific reports*, 15(1), 23667.

Panda AK, et al. (2025) Antibody-Mediated Inhibition of HLA/LILR Interactions Breaks Innate Immune Tolerance and Induces Antitumor Immunity. *Cancer immunology research*, 13(12), 1938.

Labrecque M, et al. (2025) Transcriptomic profiling of severe and critical COVID-19 patients reveals alterations in expression, splicing and polyadenylation. *Scientific reports*, 15(1), 13469.

Chevalier MF, et al. (2025) Donor HLA-DQ genetic and functional divergence affect the control of BK polyoma virus infection after kidney transplantation. *Science advances*, 11(10), eadt3499.

Brea-Iglesias J, et al. (2025) Genomics guiding personalized first-line immunotherapy response in lung and bladder tumors. *Journal of translational medicine*, 23(1), 404.

Mora-Buch R, et al. (2025) BK Virus-Specific T Cell Response Associated with HLA Genotypes, RhD Status, and CMV or EBV Serostatus in Healthy Donors for Optimized Cell Therapy. *Journal of clinical immunology*, 45(1), 109.

Hone Lopez S, et al. (2025) Upfront whole blood transcriptional patterns in patients receiving immune checkpoint inhibitors associate with clinical outcome. *Cancer immunology, immunotherapy : CII*, 74(10), 301.