

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

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: 20260801T042528+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 279 mentions in open access literature.

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

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.

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.

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.

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.

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.

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.

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.

Soussi FEA, et al. (2025) Autologous Organoid-T Cell Co-Culture Platform for Modeling of Immune-Mediated Drug-Induced Liver Injury. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(43), e08584.

Li G, et al. (2025) A pan-cancer atlas of therapeutic T cell targets. *bioRxiv : the preprint server for biology*.

Frooman MB, et al. (2025) Identification and biophysical characterization of Plasmodium peptide binding by common African HLAs. *Scientific reports*, 15(1), 8614.

Du H, et al. (2025) Targeting peptide antigens using a multiallelic MHC I-binding system. *Nature biotechnology*, 43(10), 1683.

Kim SR, et al. (2025) Identifying Genetic Variants in Patients With Cefaclor-Induced Anaphylaxis Using Human Leukocyte Antigen Typing and Whole-Exome Sequencing. *Clinical and translational allergy*, 15(9), e70103.

Zhang T, et al. (2024) Comparison of Shared Class I HLA-bound Non-canonical Neoepitopes between Normal and Neoplastic Tissues of Pancreatic Adenocarcinoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*.

Behera S, et al. (2024) Comprehensive and accurate genome analysis at scale using DRAGEN accelerated algorithms. *bioRxiv : the preprint server for biology*.

Pant S, et al. (2024) Lymph-node-targeted, mKRAS-specific amphiphile vaccine in pancreatic and colorectal cancer: the phase 1 AMPLIFY-201 trial. *Nature medicine*, 30(2), 531.

Wang X, et al. (2024) In silico neoantigen screening and HLA multimer-based validation identify immunogenic neopeptide in multifocal lung adenocarcinoma. *Frontiers in immunology*, 15, 1456209.

Holt JM, et al. (2024) StarPhase: Comprehensive Phase-Aware Pharmacogenomic Diplo typer for Long-Read Sequencing Data. *bioRxiv* : the preprint server for biology.

Ren X, et al. (2024) Differences in F pocket impact on HLA I genetic associations with autoimmune diabetes. *Frontiers in immunology*, 15, 1342335.