

Resource Summary Report

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IMGT/V-QUEST

RRID:SCR_010749

Type: Tool

Proper Citation

IMGT/V-QUEST (RRID:SCR_010749)

Resource Information

URL: http://www.imgt.org/IMGT_vquest/share/textes/

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Description: Data analysis service for the standardized analysis of the immunoglobulin (IG) and T cell receptor (TR) rearranged nucleotide sequences. It identifies the variable (V), diversity (D) and joining (J) genes and alleles by alignment with the germline IG and TR gene and allele sequences of the IMGT reference directory. New functionalities were added through a complete rewrite in Java. IMGT/V-QUEST analyses batches of sequences (up to 50) in a single run. IMGT/V-QUEST describes the V-REGION mutations and identifies the hot spot positions in the closest germline V gene. IMGT/V-QUEST can detect insertions and deletions in the submitted sequences by reference to the IMGT unique numbering. IMGT/V-QUEST integrates IMGT/JunctionAnalysis for a detailed analysis of the V-J and V-D-J junctions, and IMGT/Automat for a full V-J- and V-D-J-REGION annotation. IMGT/V-QUEST displays, in "Detailed view", the results and alignments for each submitted sequence individually and, in "Synthesis view", the alignments of the sequences that, in a given run, express the same V gene and allele.

Abbreviations: IMGT/V-QUEST

Resource Type: production service resource, data analysis service, service resource, analysis service resource

Defining Citation: [PMID:21632778](#), [PMID:18503082](#)

Keywords: immunoglobulin, antibody, nucleotide sequence, t cell receptor

Availability: Free for academic use

Resource Name: IMGT/V-QUEST

Resource ID: SCR_010749

Alternate IDs: OMICS_00002

Record Creation Time: 20220129T080300+0000

Record Last Update: 20260803T040553+0000

Ratings and Alerts

No rating or validation information has been found for IMGTV-QUEST.

No alerts have been found for IMGTV-QUEST.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 244 mentions in open access literature.

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

Wang J, et al. (2026) EBV infection and HLA-DR15 jointly drive multiple sclerosis by myelin peptide presentation. Cell.

McGrath JJC, et al. (2025) Mutability and hypermutation antagonize immunoglobulin codon optimality. Molecular cell, 85(2), 430.

Hwang J, et al. (2025) Fc-binding nanodisc restores antiviral efficacy of antibodies with reduced neutralizing effects against evolving SARS-CoV-2 variants. Journal of nanobiotechnology, 23(1), 44.

Yousefpour P, et al. (2025) Augmented humoral responses to HIV Env trimers delivered as transmembrane immunogens by self-replicating RNA. Molecular therapy : the journal of the American Society of Gene Therapy, 33(10), 4858.

Wang J, et al. (2025) hAb-Convergent: an antibody rearrangement analysis system for therapeutic antibody engineering based on convergent evolution. Nucleic acids research, 53(W1), W297.

Urselli F, et al. (2025) Identification of antibodies induced by immunization with the syphilis vaccine candidate Tp0751. Vaccine, 50, 126804.

Fuchs SP, et al. (2025) Transient rapamycin treatment avoids unwanted host immune responses toward AAV-delivered anti-HIV antibodies. Nature communications, 16(1), 8906.

Han X, et al. (2025) Identification of novel KRASG12D neoantigen specific TCRs and a strategy to eliminate off-target recognition. Journal of translational medicine, 23(1), 78.

Merchant MK, et al. (2025) Protein-based tools for the detection and characterisation of Oropouche virus infection. *EMBO molecular medicine*, 17(9), 2462.

Raeisi H, et al. (2025) Development of novel neutralizing single-chain fragment variable antibodies against S100A8. *Scientific reports*, 15(1), 12618.

Patel PN, et al. (2025) A strain-transcending anti-AMA1 human monoclonal antibody neutralizes malaria parasites independent of direct RON2L receptor blockade. *Cell reports. Medicine*, 6(3), 101985.

Oksa L, et al. (2025) Genomic determinants of therapy response in ETV6::RUNX1 leukemia. *Leukemia*, 39(9), 2125.

Walsh ES, et al. (2025) Development of ferret immune repertoire reference resources and single-cell-based high-throughput profiling assays. *Journal of virology*, 99(4), e0018125.

Sallan MC, et al. (2025) Autophagy is an upstream mediator of chromatin dynamics in normal and autoimmune germinal center B cells. *The Journal of clinical investigation*, 135(13).

Fischer K, et al. (2025) Rapid discovery of monoclonal antibodies by microfluidics-enabled FACS of single pathogen-specific antibody-secreting cells. *Nature biotechnology*, 43(6), 960.

Kramer M, et al. (2025) Clonal analysis of SepSecS-specific B and T cells in autoimmune hepatitis. *The Journal of clinical investigation*, 135(2).

Venzin V, et al. (2025) CD4+ T cells license Kupffer cells to reverse CD8+ T cell dysfunction induced by hepatocellular priming. *Nature immunology*, 26(8), 1352.

Roark RS, et al. (2025) Prefusion structure, evasion and neutralization of HSV-1 glycoprotein B. *Nature microbiology*, 10(11), 2966.

Wang Y, et al. (2025) Rational design of flavivirus E protein vaccine optimizes immunogenicity and mitigates antibody dependent enhancement risk. *Nature communications*, 16(1), 11558.

Wang M, et al. (2025) Engineering a novel light-chain single-domain antibody to enable IgG-format bispecific antibody design. *Antibody therapeutics*, 8(4), 301.