

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: analysis service resource, data analysis service, production service resource, 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: 20260905T133200+0000

Ratings and Alerts

No rating or validation information has been found for IMGT/V-QUEST.

No alerts have been found for IMGT/V-QUEST.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 260 mentions in open access literature.

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

Thörnqvist L, et al. (2026) Allergen-specific human IgE isolated through an allergen-agnostic pipeline-understanding immune response and allergen recognition. Communications biology, 9(1).

Kustro Garnica T, et al. (2026) Unraveling IGK locus in dog breeds: IMGT® new insights into canine immunogenetics. NAR genomics and bioinformatics, 8(1), lqag020.

Xerri NL, et al. (2026) Improvement in binding and function of a monoclonal antibody against Shigella flexneri 3a O-antigen via phage display and whole-cell in-solution panning. The Journal of biological chemistry, 302(5), 111405.

Nakama T, et al. (2026) Position-5-driven reorientation of an immunodominant HLA-A*24:02 SARS-CoV-2 epitope drives universal T cell escape. JCI insight, 11(9).

Burgos AA, et al. (2026) A Simplified Strategy for Nanobody Production and Use Based on Functional GST-Nanobody Fusion Proteins. Biomolecules, 16(2).

Zoest VP, et al. (2026) Evaluating southern pigtail macaques as an immunological model for human antibody responses. Scientific reports, 16(1).

Wang J, et al. (2026) Targeting non-canonical antigens unlocks functional T-cell responses in renal cell carcinoma. Journal for immunotherapy of cancer, 14(6).

Parra G, et al. (2026) Structural and genetic analysis of neutralizing antibodies reveals mechanisms of GII.4 norovirus antigenic evolution. Research square.

Mishra N, et al. (2026) Germline-targeting HIV immunogen induces cross-neutralizing antibodies in outbred macaques. Immunity, 59(4), 1140.

Lyons FMT, et al. (2026) Crystal structure and nanobodies against domain 3 of the malaria parasite fusogen Plasmodium falciparum HAP2. The Biochemical journal, 483(2), 119.

Sobu R, et al. (2026) IL-8 blockade enhances anti-PD-1 therapeutic activity in renal cell carcinoma in a next-generation patient-derived xenograft model. iScience, 29(7), 116386.

Mou Z, et al. (2026) Persistent antigen is essential for sustaining Leishmania major-specific memory CD4⁺ T cells and long-term immunity. Science advances, 12(10), eaeb3345.

Ghosh AR, et al. (2026) Rapidly acquired HIV-1 neutralization breadth in a rhesus V2 apex knockin mouse model after a single bolus immunization. Science immunology, 11(116), eadz5064.

Harris ED, et al. (2026) Development of a potent monoclonal antibody for treatment of human metapneumovirus infections. Nature communications, 17(1).

Lyons FMT, et al. (2026) Pfs48/45 nanobodies block Plasmodium falciparum transmission. PLoS pathogens, 22(1), e1013884.

Cervantes Rincón T, et al. (2026) Analysis of West Nile disease convalescents identifies human monoclonal antibodies protective against West Nile and related orthoflaviviruses. Immunity, 59(7), 2015.

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.

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.

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.