Resource Summary Report

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VEGA

RRID:SCR_007907

Type: Tool

Proper Citation

VEGA (RRID:SCR_007907)

Resource Information

URL: http://vega.sanger.ac.uk/

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Description: Central repository for high quality frequently updated manual annotation of vertebrate finished genome sequence. Human, mouse and zebrafish are in the process of being completely annotated, whereas for other species the annotation is only of specific genomic regions of particular biological interest. The majority of the annotation is from the HAVANA group at the Welcome Trust Sanger Institute. Users can BLAST, search for specific text, export, and download data. Genomes and details of the projects for each species are available through the homepages for human mouse and zebrafish. The website is built upon code from the EnsEMBL (http://www.ensembl.org) project. Some Ensembl features are not available in Vega. From the users point of view perhaps the most significant of these is MartView. However due to their inclusion in Ensembl, Vega human and mouse data can be queried using Ensembl MartView. Vega contains annotation of the human MHC region in eight haplotypes, and the LRC region in three haplotypes. Vega also contains annotation on the Insulin Dependent Diabetes (IDD) regions on non-reference assemblies for mouse.

Abbreviations: VEGA

Synonyms: The Vertebrate Genome Annotation database (VEGA), Vertebrate Genome Annotation, Vertebrate Genome Annotation Database

Resource Type: service resource, data analysis service, data or information resource, database, production service resource, analysis service resource

Defining Citation: PMID:18003653, PMID:15975227, PMID:15608237

Keywords: human, mouse, zebrafish, gorilla, wallaby, pig, dog, vertebrate, genome, orfs,

FASEB list

Funding:

Resource Name: VEGA

Resource ID: SCR_007907

Record Creation Time: 20220129T080244+0000

Record Last Update: 20250426T060008+0000

Ratings and Alerts

No rating or validation information has been found for VEGA.

No alerts have been found for VEGA.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 704 mentions in open access literature.

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

Bouška M, et al. (2025) Sc-doped GeTe thin films prepared by radio-frequency magnetron sputtering. Scientific reports, 15(1), 627.

Dillen J, et al. (2025) Exploring a Software Framework for Posture Tracking and Haptic Feedback Control: A Virtual Reality-Based Approach for Upper Limb Rehabilitation on the Oculus Quest 2. Sensors (Basel, Switzerland), 25(2).

Tyrberg T, et al. (2025) Incidence and Risk Factors for Varicella-Zoster Virus-Associated Central Nervous System Infections: A Nationwide Swedish Retrospective Case-Control Study. Journal of medical virology, 97(2), e70166.

Fawaz W, et al. (2024) Polymeric nanoparticles loaded with vincristine and carbon dots for hepatocellular carcinoma therapy and imaging. Scientific reports, 14(1), 24520.

Guccione C, et al. (2024) Exploring key features of selectivity in somatostatin receptors through molecular dynamics simulations. Computational and structural biotechnology journal, 23, 1311.

Collins SP, et al. (2024) Development and application of consensus in silico models for

advancing high-throughput toxicological predictions. Frontiers in pharmacology, 15, 1307905.

Naeem A, et al. (2024) Computational design of anti-cancer peptides tailored to target specific tumor markers. BMC chemistry, 18(1), 39.

Kazemi Z, et al. (2024) Evaluating the photocatalytic performance of MOF coated on glass for degradation of gaseous styrene under visible light. Scientific reports, 14(1), 1083.

Fischer BC, et al. (2024) Matrine and Oxymatrine: evaluating the gene mutation potential using in silico tools and the bacterial reverse mutation assay (Ames test). Mutagenesis, 39(1), 32.

Gavina C, et al. (2024) Characterization and LDL-C management in a cohort of high and very high cardiovascular risk patients: The PORTRAIT-DYS study. Clinical cardiology, 47(1), e24183.

Wang D, et al. (2024) The influence of hot isostatic pressing on precipitates, mechanical properties of Mg-12Gd-0.8Zn-0.4Zr (wt.%) alloy manufactured by sand casting. Scientific reports, 14(1), 9468.

Geci R, et al. (2024) Systematic evaluation of high-throughput PBK modelling strategies for the prediction of intravenous and oral pharmacokinetics in humans. Archives of toxicology, 98(8), 2659.

Batini? P, et al. (2024) Phytochemical Analysis, Biological Activities, and Molecular Docking Studies of Root Extracts from Paeonia Species in Serbia. Pharmaceuticals (Basel, Switzerland), 17(4).

M SR, et al. (2024) Formulation Design, Optimization, and Evaluation of Solid Lipid Nanoparticles Loaded With an Antiviral Drug Tenofovir Using Box-Behnken Design for Boosting Oral Bioavailability. Advances in pharmacological and pharmaceutical sciences, 2024, 5248746.

Yang T, et al. (2024) Specificity and mechanism of TonB-dependent ferric catecholate uptake by Fiu. Frontiers in microbiology, 15, 1355253.

Zhang G, et al. (2024) Gradient Rotating Magnetic Fields Impairing F-Actin-Related Gene CCDC150 to Inhibit Triple-Negative Breast Cancer Metastasis by Inactivating TGF-?1/SMAD3 Signaling Pathway. Research (Washington, D.C.), 7, 0320.

Lövestad S, et al. (2024) Health care utilization, mental disorders and behavioural disorders among perpetrators of intimate partner homicide in 2000-2016: A registry-based case-control study from Sweden. PloS one, 19(2), e0298693.

Vink MJA, et al. (2024) Structural Elucidation of Agrochemical Metabolic Transformation Products Based on Infrared Ion Spectroscopy to Improve In Silico Toxicity Assessment. Chemical research in toxicology, 37(1), 81.

Xiao Y, et al. (2024) Diamond-Like Carbon Depositing on the Surface of Polylactide Membrane for Prevention of Adhesion Formation During Tendon Repair. Nano-micro letters, 16(1), 186.

Paley S, et al. (2024) The Comparative Genome Dashboard. bioRxiv: the preprint server for biology.