

Resource Summary Report

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OrthoVenn2

RRID:SCR_022504

Type: Tool

Proper Citation

OrthoVenn2 (RRID:SCR_022504)

Resource Information

URL: <https://orthovenn2.bioinfotoolkits.net/home>

Proper Citation: OrthoVenn2 (RRID:SCR_022504)

Description: Web server for whole genome comparison and annotation of orthologous clusters across multiple species. Works on any operating system with modern browser and Javascript enabled. Used to identify orthologous gene clusters and supports user define species to upload customized protein sequences. Interactive graphic tool which provides Venn diagram view for comparing multiple species protein sequences.

Resource Type: data access protocol, software resource, web service

Defining Citation: [PMID:31053848](#)

Keywords: whole genome comparison and annotation, orthologous clusters across multiple species, identify orthologous gene clusters, comparing multiple species protein sequences

Funding: National Natural Science Foundation of China

Availability: Free, Freely available

Resource Name: OrthoVenn2

Resource ID: SCR_022504

Record Creation Time: 20220622T050139+0000

Record Last Update: 20260903T235850+0000

Ratings and Alerts

No rating or validation information has been found for OrthoVenn2.

No alerts have been found for OrthoVenn2.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 288 mentions in open access literature.

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

Semenec L, et al. (2026) Molecular insights into polyurethane biodegradation in *Pseudomonas protegens*. *mBio*, 17(2), e0354425.

Wang M, et al. (2026) Comprehensive Genomics and Functional Validation Reveal Evolutionary Insights into Xanthan Gum Biosynthesis and Pathogenesis of *Xanthomonas campestris* pv. *campestris*. *Journal of agricultural and food chemistry*, 74(16), 13302.

Schoonmaker AN, et al. (2026) A whole-genome assembly of *St. Augustinegrass* and visualizing diversity within the species. *The plant genome*, 19(1), e70144.

Zhuo B, et al. (2026) Genetic basis of *Pseudonectria foliicola* infection in humans and research on DKP-type natural products. *BMC genomics*, 27(1).

Adedokun AA, et al. (2026) Exploring the First Draft Genome of the Oribatid Mite, *Oppia nitens*: A Standardized Model Invertebrate in Soil Ecotoxicology. *Genome biology and evolution*, 18(2).

Jiang D, et al. (2025) The telomere-to-telomere genome of flowering cherry (*Prunus campanulata*) reveals genomic evolution of the subgenus *Cerasus*. *GigaScience*, 14.

Xu QZ, et al. (2025) Chromosome-level genome assembly and single-cell analysis unveil molecular mechanisms of arm regeneration in the ophiuroid *Ophiura sarsii vadicola*. *Genome biology*, 26(1), 82.

Banerjee G, et al. (2025) Whole genome sequence of multidrug-resistant *Staphylococcus haemolyticus* and *Enterococcus faecalis* isolates from public gymnasium equipment reveals evolving infection potential and resistance. *PloS one*, 20(10), e0324894.

Pan K, et al. (2025) Genomic and metabolomic insights into the biocontrol potential of *Bacillus velezensis* ZHR0 against sugarcane smut. *Frontiers in microbiology*, 16, 1582763.

Benhadj M, et al. (2025) Genomic Insights and Antimicrobial Potential of Newly *Streptomyces cavourensis* Isolated from a Ramsar Wetland Ecosystem. *Microorganisms*, 13(3).

Long M, et al. (2025) Characterization and comparative genomic analysis of *Pseudomonas aegiceratis* sp. nov., a new nitrogen-fixing bacterium from the sediments of mangrove plant *Aegiceras corniculatum*. *Microbiology spectrum*, 13(5), e0004125.

Fan J, et al. (2025) Genome-wide identification and expression pattern analysis of NAC family in *Taxus yunnanensis* and the TyuNAC30 role in paclitaxel production. *BMC genomics*, 26(1), 705.

Gayathri M, et al. (2025) Genomic configuration of *Bacillus subtilis* (NMB01) unveils its antiviral activity against Orthotospovirus arachinecrosis infecting tomato. *Frontiers in plant science*, 16, 1517157.

Choi Y, et al. (2025) Analysis of the Genomes and Adaptive Traits of *Skermanella cutis* sp. nov., a Human Skin Isolate, and the Type Strains *Skermanella rosea* and *Skermanella mucosa*. *Microorganisms*, 13(1).

Kumari K, et al. (2025) In-depth genome and comparative genome analysis of a metal-resistant environmental isolate *Pseudomonas aeruginosa* S-8. *Frontiers in cellular and infection microbiology*, 15, 1511507.

Rai S, et al. (2025) Novel endophytic actinomycetes species *Streptomyces panacea* of *Panax sokpayensis* produce antimicrobial compounds against multidrug resistant *Staphylococcus aureus*. *Scientific reports*, 15(1), 19863.

Raj S, et al. (2025) Comparative genomic analysis of paired clinical isolates from a patient with recurrent melioidosis reveals a low within-host mutation rate. *Journal of medical microbiology*, 74(4).

Sinichich AA, et al. (2025) Genome-Guided Metabolomic Profiling of Peptaibol-Producing *Trichoderma*. *International journal of molecular sciences*, 26(12).

Parvez S, et al. (2025) Tracing the path from conservation to expansion evolutionary insights into NLR genes in oleaceae. *BMC plant biology*, 25(1), 259.

Li X, et al. (2025) Roles of maize WAK gene family in responses to abiotic and biotic stresses, and hormonal treatments. *Frontiers in plant science*, 16, 1652811.