Resource Summary Report

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WebGestalt: WEB-based GEne SeT AnaLysis Toolkit

RRID:SCR_006786
Type: Tool

Proper Citation

WebGestalt: WEB-based GEne SeT AnaLysis Toolkit (RRID:SCR_006786)

Resource Information

URL: http://www.webgestalt.org/

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Description: Web based gene set analysis toolkit designed for functional genomic, proteomic, and large-scale genetic studies from which large number of gene lists (e.g. differentially expressed gene sets, co-expressed gene sets etc) are continuously generated. WebGestalt incorporates information from different public resources and provides a way for biologists to make sense out of gene lists. This version of WebGestalt supports eight organisms, including human, mouse, rat, worm, fly, yeast, dog, and zebrafish.

Abbreviations: WebGestalt

Synonyms: GOTM, Gene Ontology Tree Machine, WebGestalt2, WEB-based GEne SeT AnaLysis Toolkit, WebGestalt

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

Defining Citation: PMID:24233776, PMID:15980575, PMID:14975175

Keywords: proteomic, gene expression, genome wide association study, statistical analysis, functional genomics, protein protein interaction, pathway, regulatory module, analysis toolkit, web application

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NIDA P01 DA015027;
NIMH P50 MH078028;
NIMH P50 MH096972;
NCI U24 CA159988;
NIGMS R01 GM088822

Availability: Free, Freely available

Resource Name: WebGestalt: WEB-based GEne SeT AnaLysis Toolkit

Resource ID: SCR_006786

Alternate IDs: OMICS_02222, nif-0000-30622

Old URLs: http://bioinfo.vanderbilt.edu/webgestalt/

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260801T190320+0000

Ratings and Alerts

No rating or validation information has been found for WebGestalt: WEB-based GEne SeT AnaLysis Toolkit.

No alerts have been found for WebGestalt: WEB-based GEne SeT AnaLysis Toolkit.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2760 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Yan C, et al. (2026) RAS/MEK/PI3K pathway inhibition augments response to CD40 agonism by targeting CD11b+ Bregs thereby overcoming melanoma PD1-resistance. Nature communications, 17(1), 162.

Dovey Z, et al. (2026) Network and Gene Set Enrichment Analysis of Adipokine Drivers of Prostate Cancer; Unravelling the Mechanistic Link Between Excess Adiposity and Prostate Cancer Risk. Cancer medicine, 15(1), e71468.

Gou X, et al. (2026) Identification of a Two-Gene Biomarker Correlated with Sensitivity to Combined PARP7 Inhibition and AHR Activation in Cancer Cells. Cancer research communications, 6(1), 5.

Al-Ahmadi W, et al. (2026) Spaceflight alters molecular networks linked to diverse human diseases in a single cellular model. Science advances, 12(1), eadw7832.

Chen H, et al. (2025) PARP7 Inhibitors and AHR Agonists Act Synergistically across a Wide Range of Cancer Models. Molecular cancer therapeutics, 24(1), 56.

Dumesic PA, et al. (2025) RBM43 controls PGC1? translation and a PGC1?-STING signaling axis. Cell metabolism, 37(3), 742.

Laplante P, et al. (2025) Effect of MisMatch repair deficiency on metastasis occurrence in a syngeneic mouse model. Neoplasia (New York, N.Y.), 62, 101145.

Gonsales Spindola D, et al. (2025) Endothelial cells retain inflammatory memory through chromatin remodeling in a two-hit model of infection-induced inflammation. American journal of physiology. Cell physiology, 329(6), C1994.

Hsieh LT, et al. (2025) The Mycobacterium ulcerans toxin mycolactone causes destructive Sec61-dependent loss of the endothelial glycocalyx and vessel basement membrane to drive skin necrosis. eLife, 12.

Hu F, et al. (2025) The systemic wrinkled skin phenotype involves aberrant expression and variation of genes related to the oxidative stress and extracellular matrix in Xiang pigs. BMC genomics, 26(1), 1034.

Biggs KE, et al. (2025) Coronin1A Regulates the Trafficking of Alpha Synuclein in Microglia. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(11).

Alessandrini F, et al. (2025) TDP-43 dysfunction compromises UPF1-dependent mRNA metabolism in ALS. Neuron.

Kang SU, et al. (2025) Dissecting the molecular landscape of Parkinson's disease and Parkinson's disease dementia using highly efficient snRNA-seq (HIF-snRNA-seq). bioRxiv : the preprint server for biology.

Picone JA, et al. (2025) The function of the ZFP189 transcription factor in the nucleus accumbens facilitates cocaine-specific transcriptional and behavioral adaptations. Molecular psychiatry, 30(6), 2490.

Obare LM, et al. (2025) CD3+ T-cell: CD14+ monocyte complexes are dynamic and increased with HIV and glucose intolerance. Journal of immunology (Baltimore, Md. : 1950), 214(3), 516.

Wyles SP, et al. (2025) SenSkin™: a human skin-specific cellular senescence gene set. GeroScience, 47(3), 2631.

Hu M, et al. (2025) Srebf2 mediates successful optic nerve axon regeneration via the mevalonate synthesis pathway. Molecular neurodegeneration, 20(1), 28.

Oguz AK, et al. (2025) The Platelet-Specific Gene Signature in the Immunoglobulin G4-Related Disease Transcriptome. Medicina (Kaunas, Lithuania), 61(1).

Liang J, et al. (2025) Transcriptomic Insights into Post-Spawning Death and Muscle Atrophy in Ayu (Plecoglossus altivelis). International journal of molecular sciences, 26(2).

Alkhatabi HA, et al. (2025) Untangling the complex mechanisms associated with Alzheimer's disease in elderly patients using high-throughput RNA sequencing data and next-generation knowledge discovery methods: Focus on potential gene signatures and drugs for dementia. Heliyon, 11(1), e41266.