Resource Summary Report

Generated by ASWG on Aug 2, 2026

ACT: Artemis Comparison Tool

RRID:SCR_004507
Type: Tool

Proper Citation

ACT: Artemis Comparison Tool (RRID:SCR_004507)

Resource Information

URL: http://www.sanger.ac.uk/resources/software/act/

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Description: A free tool for displaying pairwise comparisons between two or more DNA sequences. It can be used to identify and analyze regions of similarity and difference between genomes and to explore conservation of synteny, in the context of the entire sequences and their annotation. It is based on the software for Artemis, the genome viewer and annotation tool. ACT runs on UNIX, GNU/Linux, Macintosh and MS Windows systems. It can read complete EMBL and GENBANK entries or sequences in FASTA or raw format. Other sequence features can be in EMBL, GENBANK or GFF format.

Abbreviations: ACT

Synonyms: Artemis Comparison Tool

Resource Type: software resource

Defining Citation: PMID:15976072

Keywords: dna sequence, genome, synteny, pairwise comparison

Funding: Wellcome Trust

Availability: GNU General Public License

Resource Name: ACT: Artemis Comparison Tool

Resource ID: SCR_004507

Alternate IDs: OMICS_00928, nlx_48986

Record Creation Time: 20220129T080225+0000

Record Last Update: 20260801T190242+0000

Ratings and Alerts

No rating or validation information has been found for ACT: Artemis Comparison Tool.

No alerts have been found for ACT: Artemis Comparison Tool.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 46 mentions in open access literature.

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

Tang Y, et al. (2025) Surface hydrogen migration significantly promotes electroreduction of acetonitrile to ethylamine. Nature communications, 16(1), 2236.

Karthika C, et al. (2025) Phage (cocktail)-antibiotic synergism: a new frontier in addressing Klebsiella pneumoniae resistance. Frontiers in microbiology, 16, 1588472.

Qiu Y, et al. (2025) Boosting oxygen reduction performances in Pd-based metallenes by co-confining interstitial H and p-block single atoms. Nature communications, 16(1), 5262.

Zhong Y, et al. (2025) Enhanced dry reforming of methane over nickel catalysts supported on zirconia coated mesoporous silica. iScience, 28(6), 112582.

Ding J, et al. (2025) Distinctly different active sites of ZnO-ZrO2 catalysts in CO2 and CO hydrogenation to methanol reactions. Nature communications, 16(1), 4622.

Scadden J, et al. (2025) The nisin O cluster: species dissemination, candidate leader peptide proteases and the role of regulatory systems. Microbiology (Reading, England), 171(2).

Liu X, et al. (2025) Regulating orbital interaction to construct quasi-covalent bond networks in Pt intermetallic alloys for high-performance fuel cells. Nature communications, 16(1), 4895.

Yu Y, et al. (2025) Tunable Hierarchically Porous Gadolinium-Based Metal-Organic Frameworks for Bacteria-Targeting Magnetic Resonance Imaging and In Situ Anti-Bacterial Therapy. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(15), e2415209.

Wiedemar N, et al. (2025) The Thienopyrimidinone Gamhépathiopine Targets the QO Site of Plasmodium falciparum Cytochrome b. ACS infectious diseases, 11(6), 1719.

Cordeiro NF, et al. (2025) First Report in the Americas of S. enterica Var. Enteritidis Carrying blaNDM-1 in a Putatively New Sub-Lineage of IncC2 Plasmids. Antibiotics (Basel, Switzerland), 14(6).

Zhang L, et al. (2025) Spontaneous water dissociation on intermetallic electride LaCu0.67Si1.33 enhances electrochemical methanization of CO2. Nature communications, 16(1), 5039.

Patheria ES, et al. (2025) High-Energy Density Li-Ion Battery Cathode Using Only Industrial Elements. Journal of the American Chemical Society, 147(11), 9786.

Li Z, et al. (2025) Retention of high-pressure solution-processable metastable phase to ambience via differential sublattice rigidity for broadband photodetectors. Nature communications, 16(1), 2246.

Xiao Y, et al. (2025) Tracing the origin of near-infrared emissions emanating from manganese (II). Light, science & applications, 14(1), 194.

Ma L, et al. (2025) Cu supraparticles with enhanced mass transfer and abundant C-C coupling sites achieving ampere-level CO2-to-C2+ electrosynthesis. Nature communications, 16(1), 3421.

Huertas-Díaz L, et al. (2025) Insights into the utilisation of 1,2-propanediol and interactions with the cell envelope of Clostridium perfringens. Gut pathogens, 17(1), 23.

López-Méndez R, et al. (2025) Multiscale Thermal Analysis of Gold Nanostars in 3D Tumor Spheroids: Integrating Cellular-Level Photothermal Effects and Nanothermometry via X-Ray Spectroscopy. Advanced healthcare materials, 14(11), e2403799.

Zhang Y, et al. (2025) Breaking the Trade-Off Between Electrical Conductivity and Mechanical Strength in Bulk Graphite Using Metal-Organic Framework-Derived Precursors. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(9), e2416210.

Wertz AE, et al. (2025) A semisynthetic, multicofactor artificial metalloenzyme retains independent site activity. Journal of biological inorganic chemistry : JBIC : a publication of the Society of Biological Inorganic Chemistry, 30(1), 13.

Woods PH, et al. (2025) Identification of key steps in the evolution of anaerobic methanotrophy in Candidatus Methanovorans (ANME-3) archaea. Science advances, 11(25), eadq5232.