

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 8, 2026

DIALIGN

RRID:SCR_003041

Type: Tool

Proper Citation

DIALIGN (RRID:SCR_003041)

Resource Information

URL: <http://bibiserv.techfak.uni-bielefeld.de/dialign/>

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Description: Tool for multiple sequence alignment using various sources of external information that is particularly useful to detect local homologies in sequences with low overall similarity. While standard alignment methods rely on comparing single residues and imposing gap penalties, DIALIGN constructs pairwise and multiple alignments by comparing entire segments of the sequences. No gap penalty is used. This approach can be used for both global and local alignment, but it is particularly successful in situations where sequences share only local homologies. Several versions of DIALIGN are available online at GOBICS, <http://dialign.gobics.de/>

Abbreviations: DIALIGN

Synonyms: DIALIGN at GOBICS

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

Defining Citation: [PMID:15215344](#), [PMID:23620293](#), [DOI:10.1186/1748-7188-3-6](#)

Keywords: dna, protein, sequence alignment, sequence, alignment, fasta, genome, genomic sequence, homology, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: DIALIGN

Resource ID: SCR_003041

Alternate IDs: nif-0000-30417, OMICS_24606, OMICS_00973, biotools:dialign-tx

Alternate URLs: <http://dialign.gobics.de/>, <https://bio.tools/dialign-tx>

Old URLs: <https://sources.debian.org/src/dialign-tx/>

Record Creation Time: 20220129T080216+0000

Record Last Update: 20260905T132457+0000

Ratings and Alerts

No rating or validation information has been found for DIALIGN.

No alerts have been found for DIALIGN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 44 mentions in open access literature.

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

Delic S, et al. (2026) Septin-mediated coupling of protein import and division during chloroplast evolution. bioRxiv : the preprint server for biology.

Chen Z, et al. (2025) Overlooked role of heterotrophic prokaryotes in sulfur oxidation makes the sediment of the Bohai Sea a sufficient sink of hydrogen sulfide. mBio, 16(8), e0172225.

Payne D, et al. (2025) miR398 targets a Cu²⁺-containing Selenium Binding Protein (SBP) in rice and the phylogenetic analysis of the miR398-SBP module in plants. BMC plant biology, 25(1), 167.

Fañanás-Pueyo I, et al. (2024) Workflow to Select Functional Promoter DNA Baits and Screen Arrayed Gene Libraries in Yeast. Current protocols, 4(11), e70059.

Bartelt-Kirbach B, et al. (2023) Regulation of rat HspB5/alphaB-Crystallin by microRNAs miR-101a-3p, miR-140-5p, miR-330-5p, and miR-376b-3p. Cell stress & chaperones, 28(6), 787.

Shnyreva AV, et al. (2023) Structure Analysis of the MatA Locus of Sexual Compatibility in the Edible Mushroom *Pleurotus ostreatus*. Doklady. Biochemistry and biophysics, 511(1), 203.

Grotz S, et al. (2022) Early disruption of photoreceptor cell architecture and loss of vision in a humanized pig model of usher syndromes. EMBO molecular medicine, 14(4), e14817.

Tossavainen H, et al. (2022) Structure of SNX9 SH3 in complex with a viral ligand reveals the molecular basis of its unique specificity for alanine-containing class I SH3 motifs. Structure (London, England : 1993), 30(6), 828.

Marciniak K, et al. (2021) Anther dehiscence is regulated by gibberellic acid in yellow lupine (*Lupinus luteus* L.). *BMC plant biology*, 21(1), 314.

Akand EH, et al. (2020) Mutational networks of escape from transmitted HIV-1 infection. *PloS one*, 15(12), e0243391.

Marciniak K, et al. (2020) Gibberellin Signaling Repressor LIDELLA1 Controls the Flower and Pod Development of Yellow Lupine (*Lupinus luteus* L.). *International journal of molecular sciences*, 21(5).

Ejigu GF, et al. (2020) Review on the Computational Genome Annotation of Sequences Obtained by Next-Generation Sequencing. *Biology*, 9(9).

Ravi V, et al. (2019) SIRT6 transcriptionally regulates global protein synthesis through transcription factor Sp1 independent of its deacetylase activity. *Nucleic acids research*, 47(17), 9115.

Monte I, et al. (2019) A Single JAZ Repressor Controls the Jasmonate Pathway in *Marchantia polymorpha*. *Molecular plant*, 12(2), 185.

Mehennaoui S, et al. (2019) Selection of high affinity aptamer-ligand for dexamethasone and its electrochemical biosensor. *Scientific reports*, 9(1), 6600.

Roeske MJ, et al. (2018) Cis-regulatory evolution integrated the Bric-à-brac transcription factors into a novel fruit fly gene regulatory network. *eLife*, 7.

Waldron FM, et al. (2018) Metagenomic sequencing suggests a diversity of RNA interference-like responses to viruses across multicellular eukaryotes. *PLoS genetics*, 14(7), e1007533.

He C, et al. (2017) A hydrophobic residue in the TALE homeodomain of PBX1 promotes epithelial-to-mesenchymal transition of gastric carcinoma. *Oncotarget*, 8(29), 46818.

Lanfray D, et al. (2016) Involvement of the Acyl-CoA binding domain containing 7 in the control of food intake and energy expenditure in mice. *eLife*, 5.

Appel E, et al. (2016) An ensemble of regulatory elements controls Runx3 spatiotemporal expression in subsets of dorsal root ganglia proprioceptive neurons. *Genes & development*, 30(23), 2607.