**Clustal Omega**

**RRID:** SCR_001591  
**Type:** Tool

**Proper Citation**

Clustal Omega (RRID:SCR_001591)

**Resource Information**

**URL:** [http://www.ebi.ac.uk/Tools/msa/clustalo/](http://www.ebi.ac.uk/Tools/msa/clustalo/)

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**Description:** Software package as multiple sequence alignment tool that uses seeded guide trees and HMM profile-profile techniques to generate alignments between three or more sequences. Accepts nucleic acid or protein sequences in multiple sequence formats NBRF/PIR, EMBL/UniProt, Pearson (FASTA), GDE, ALN/Clustal, GCG/MSF, RSF.

**Abbreviations:** Clustal Omega, Clustalo

**Resource Type:** data processing software, software resource, service resource, software application, image analysis software, alignment software

**Defining Citation:** [PMID:21988835](https://pubmed.ncbi.nlm.nih.gov/21988835/), [PMID:20439314](https://pubmed.ncbi.nlm.nih.gov/20439314/), [DOI:10.1038/msb.2011.75](https://doi.org/10.1038/msb.2011.75)

**Keywords:** multiple, sequence, alignment, DNA, RNA, protein, generate, bio.tools

**Funding Agency:** Science Foundation Ireland

**Availability:** Free, Available for download, Freely available, Acknowledgement requested

**Resource Name:** Clustal Omega

**Resource ID:** SCR_001591

**Alternate IDs:** OMICS_00972, SCR_016062, biotools:clustalo, nlx_153836

**Alternate URLs:** https://sources.debian.org/src/clustalo/, http://www.clustal.org/omega/, http://mobyle.pasteur.fr/cgi-bin/portal.py#forms::clustalO-multialign, https://bio.tools/clustalo,
Ratings and Alerts

No rating or validation information has been found for Clustal Omega.

No alerts have been found for Clustal Omega.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 8067 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Thomas JR, et al. (2024) Abcg2a is the functional homolog of human ABCG2 expressed at the zebrafish blood-brain barrier. Fluids and barriers of the CNS, 21(1), 27.


Francis JW, et al. (2024) FAM86A methylation of eEF2 links mRNA translation elongation to tumorigenesis. Molecular cell.


Jerry EM, et al. (2024) Allergen Diversity and Abundance in Different Tissues of the Redclaw Crayfish (Cherax quadricarinatus). Foods (Basel, Switzerland), 13(2).


Chaya T, et al. (2024) The extracellular vesicle proteomes of Sorghum bicolor and Arabidopsis thaliana are partially conserved. Plant physiology, 194(3), 1481.

Deng Y, et al. (2024) SCAN: Spatiotemporal Cloud Atlas for Neural cells. Nucleic acids research, 52(D1), D998.


Sánchez-Costa M, et al. (2024) From accurate genome sequence to biotechnological application: The thermophile Mycolicibacterium harrassiacum as experimental model. Microbial biotechnology, 17(1), e14290.

