

Resource Summary Report

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CBLAST

RRID:SCR_004711

Type: Tool

Proper Citation

CBLAST (RRID:SCR_004711)

Resource Information

URL: <http://www.ncbi.nlm.nih.gov/Structure/cblast/cblast.cgi?>

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Description: The NCBI Related Structures tool allows you to find 3D structures from the Molecular Modeling Database (MMDB) that are similar in sequence to a query protein. Although the query protein may not yet have a resolved structure, the 3D shape of a similar protein sequence can shed light on the putative shape and biological function of the query protein. CBLAST is a tool that compares a query protein sequence against all protein sequences from resolved 3D structures by using protein BLAST against the PDB data set. The purpose is to find representative 3D structures for the query and/or its homologs, as available. Each record in the Entrez Protein database has been CBLAST"ed and the search results are available as Related Structures in the Links menu of Entrez Protein records. You can also enter a protein query sequence directly into the CBLAST search page in order to find its sequence-similar 3D structure records. The search results can be viewed in Cn3D (hence the name CBLAST), which displays an alignment of the query protein to the related structure"s sequence and allows you to interactively examine the sequence-structure relationship.

Synonyms: NCBI Related Structures, NCBI Related Structure Search

Resource Type: analysis service resource, d spatial image, production service resource, service resource

Defining Citation: [PMID:17135201](#)

Keywords: gold standard

Resource Name: CBLAST

Resource ID: SCR_004711

Alternate IDs: nlx_70506

Record Creation Time: 20220129T080226+0000

Record Last Update: 20260829T182211+0000

Ratings and Alerts

No rating or validation information has been found for CBLAST.

No alerts have been found for CBLAST.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Hulse BK, et al. (2021) A connectome of the Drosophila central complex reveals network motifs suitable for flexible navigation and context-dependent action selection. eLife, 10.

Li F, et al. (2020) The connectome of the adult Drosophila mushroom body provides insights into function. eLife, 9.