

Resource Summary Report

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DichroWeb

RRID:SCR_018125

Type: Tool

Proper Citation

DichroWeb (RRID:SCR_018125)

Resource Information

URL: <http://dichroweb.cryst.bbk.ac.uk/html/home.shtml>

Proper Citation: DichroWeb (RRID:SCR_018125)

Description: Web server for analysis of protein circular dichroism spectra. Provides access to circular dichroism secondary structure calculation algorithms and reference databases. Used in analysis of protein secondary structures.

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

Defining Citation: [PMID:17896349](#), [PMID:15215473](#)

Keywords: Analysis, protein, circular dichroism spectra, secondary structure, reference database, algorithm, bio.tools

Funding: BBSRC

Availability: Restricted

Resource Name: DichroWeb

Resource ID: SCR_018125

Alternate IDs: biotools:dichroweb

Alternate URLs: <https://bio.tools/dichroweb>

Record Creation Time: 20220129T080338+0000

Record Last Update: 20260731T043025+0000

Ratings and Alerts

No rating or validation information has been found for DichroWeb.

No alerts have been found for DichroWeb.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 62 mentions in open access literature.

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

Bicer D, et al. (2025) Structural basis of specific lysine transport by *Pseudomonas aeruginosa* permease LysP. *Nature communications*, 17(1), 37.

Muzenda FL, et al. (2025) Characterization and Inhibition of the Chaperone Function of *Plasmodium falciparum* Glucose-Regulated Protein 94 kDa (Pf Grp94). *Proteins*, 93(5), 957.

Oluwajuyitan TD, et al. (2025) Structural and functional properties of fava bean albumin, globulin and glutelin protein fractions. *Food chemistry: X*, 25, 102104.

Quan Z, et al. (2025) Study on the antioxidant and antiosteoporotic activities of the oyster peptides prepared by ultrasound-assisted enzymatic hydrolysis. *Ultrasonics sonochemistry*, 112, 107211.

Bello-Madruga R, et al. (2025) Mining the heparinome for cryptic antimicrobial peptides that selectively kill Gram-negative bacteria. *Molecular systems biology*, 21(7), 889.

Zhang X, et al. (2025) Effect of Different High-Temperature Heating Methods on the Glycation Reaction and Advanced Glycation Reaction Products of β -Lactoglobulin. *Foods (Basel, Switzerland)*, 14(21).

Muzenda FL, et al. (2025) Biochemical and biophysical characterization of *Plasmodium falciparum* glucose regulated protein 170. *Scientific reports*, 15(1), 27655.

Wychowaniec JK, et al. (2025) Effect of Tyrosine-Containing Self-Assembling β -Sheet Peptides on Macrophage Polarization and Inflammatory Response. *ACS applied materials & interfaces*, 17(19), 27740.

Belloir C, et al. (2025) Inosine-5'-monophosphate interacts with the TAS1R3 subunit to enhance sweet taste detection. *Food chemistry. Molecular sciences*, 10, 100246.

Pesce G, et al. (2025) Dissecting Henipavirus W proteins conformational and fibrillation properties: contribution of their N- and C-terminal constituent domains. *The FEBS journal*, 292(3), 556.

Yang H, et al. (2025) The Effect of Lipids on the Structure and Function of Egg Proteins in Response to Pasteurization. *Foods (Basel, Switzerland)*, 14(2).

Qian D, et al. (2025) Heat-stable protein PGSL1 enhances pollen germination and tube growth at high temperature. *Nature communications*, 16(1), 3642.

Nefedova VV, et al. (2024) Neurofilament Light Protein Rod Domain Exhibits Structural Heterogeneity. *Biomolecules*, 14(1).

Hao Z, et al. (2024) A parathyroid hormone related supramolecular peptide for multi-functionalized osteoregeneration. *Bioactive materials*, 34, 181.

Li C, et al. (2024) TC-14, a cathelicidin-derived antimicrobial peptide with broad-spectrum antibacterial activity and high safety profile. *iScience*, 27(7), 110404.

Guo Q, et al. (2024) Synthesis and Hypoglycemic Effect of Insulin from the Venom of Sea Anemone *Exaiptasia diaphana*. *Marine drugs*, 22(3).

Hao Y, et al. (2023) Study on the anti-inflammatory activity of the porcine bone collagen peptides prepared by ultrasound-assisted enzymatic hydrolysis. *Ultrasonics sonochemistry*, 101, 106697.

Janes RW, et al. (2023) DichroPipeline: A suite of online and downloadable tools and resources for protein circular dichroism spectroscopic data analyses, interpretations, and their interoperability with other bioinformatics tools and resources. *Protein science : a publication of the Protein Society*, 32(12), e4817.

Zhang J, et al. (2023) Microwave treatment on structure and digestibility characteristics of *Spirulina platensis* protein. *Current research in food science*, 7, 100581.

Roveri A, et al. (2023) Cardiolipin drives the catalytic activity of GPX4 on membranes: Insights from the R152H mutant. *Redox biology*, 64, 102806.