

Resource Summary Report

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Mpstruct

RRID:SCR_013284

Type: Tool

Proper Citation

Mpstruct (RRID:SCR_013284)

Resource Information

URL: http://blanco.biomol.uci.edu/membrane_proteins_xtal.html

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Description: Table providing information about integral membrane proteins whose crystallographic, or sometimes NMR, structures have been determined to a resolution sufficient to identify TM helices of helix-bundle membrane proteins (typically 4 - 4.5 angstroms). It is based upon Preusch et al. (1998) as revised by White & Wimley (1999). Reference is made to all of the protein types whose structures have been determined. They have attempted to make the database as inclusive as possible.

Abbreviations: Mpstruct

Synonyms: Membrane Proteins of Known 3D Structure

Resource Type: data set, data or information resource

Keywords: membrane protein, structure, protein, FASEB list

Resource Name: Mpstruct

Resource ID: SCR_013284

Alternate IDs: OMICS_01610

Record Creation Time: 20220129T080315+0000

Record Last Update: 20260801T191229+0000

Ratings and Alerts

No rating or validation information has been found for Mpstruct.

No alerts have been found for Mpstruct.

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](#) .

Zheng W, et al. (2021) Folding non-homologous proteins by coupling deep-learning contact maps with I-TASSER assembly simulations. *Cell reports methods*, 1(3).

Hasan SS, et al. (2014) Internal lipid architecture of the hetero-oligomeric cytochrome b6f complex. *Structure (London, England : 1993)*, 22(7), 1008.

Bomholt J, et al. (2013) Recombinant production of human Aquaporin-1 to an exceptional high membrane density in *Saccharomyces cerevisiae*. *PloS one*, 8(2), e56431.

Fischer WB, et al. (2012) Mechanism of function of viral channel proteins and implications for drug development. *International review of cell and molecular biology*, 294, 259.

Salem TZ, et al. (2011) Comprehensive analysis of host gene expression in *Autographa californica* nucleopolyhedrovirus-infected *Spodoptera frugiperda* cells. *Virology*, 412(1), 167.

Bergeron MJ, et al. (2011) Frog oocytes to unveil the structure and supramolecular organization of human transport proteins. *PloS one*, 6(7), e21901.

Tsirigos KD, et al. (2011) OMPdb: a database of {beta}-barrel outer membrane proteins from Gram-negative bacteria. *Nucleic acids research*, 39(Database issue), D324.

Wang XF, et al. (2011) Predicting residue-residue contacts and helix-helix interactions in transmembrane proteins using an integrative feature-based random forest approach. *PloS one*, 6(10), e26767.

Hall BA, et al. (2011) Exploring peptide-membrane interactions with coarse-grained MD simulations. *Biophysical journal*, 100(8), 1940.

Lim HH, et al. (2011) High-efficiency screening of monoclonal antibodies for membrane protein crystallography. *PloS one*, 6(9), e24653.

Yung-Hung RL, et al. (2011) A 35 kDa antigenic protein from *Shigella flexneri*: in silico structural and functional studies. *Biochemical and biophysical research communications*, 415(2), 229.

Wickström D, et al. (2011) Characterization of the consequences of YidC depletion on the inner membrane proteome of *E. coli* using 2D blue native/SDS-PAGE. *Journal of molecular biology*, 409(2), 124.

Price CE, et al. (2011) In vitro synthesis and oligomerization of the mechanosensitive channel of large conductance, MscL, into a functional ion channel. FEBS letters, 585(1), 249.

Islam ST, et al. (2010) Membrane topology mapping of the O-antigen flippase (Wzx), polymerase (Wzy), and ligase (WaaL) from *Pseudomonas aeruginosa* PAO1 reveals novel domain architectures. mBio, 1(3).

Vinothkumar KR, et al. (2010) Structures of membrane proteins. Quarterly reviews of biophysics, 43(1), 65.

Leck KJ, et al. (2010) Study of bioengineered zebra fish olfactory receptor 131-2: receptor purification and secondary structure analysis. PloS one, 5(11), e15027.

Ferndahl C, et al. (2010) Increasing cell biomass in *Saccharomyces cerevisiae* increases recombinant protein yield: the use of a respiratory strain as a microbial cell factory. Microbial cell factories, 9, 47.

Frelet-Barrand A, et al. (2010) *Lactococcus lactis*, an alternative system for functional expression of peripheral and intrinsic Arabidopsis membrane proteins. PloS one, 5(1), e8746.

Hori T, et al. (2010) Expression, purification and characterization of leukotriene B(4) receptor, BLT1 in *Pichia pastoris*. Protein expression and purification, 72(1), 66.

Liguori L, et al. (2009) Production of recombinant proteoliposomes for therapeutic uses. Methods in enzymology, 465, 209.