

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

Proper Citation: Mpstruct (RRID:SCR_013284)

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 [RRID](#) .

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.

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.

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

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.

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.

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.

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

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.

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.

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).

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.