

Resource Summary Report

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PREDDIMER

RRID:SCR_011963

Type: Tool

Proper Citation

PREDDIMER (RRID:SCR_011963)

Resource Information

URL: <http://model.nmr.ru/preddimer/>

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Description: Prediction tool to reconstruct putative dimer conformations for given sequences of transmembrane protein fragments, which are considered as ideal alpha-helices.

Abbreviations: PREDDIMER

Synonyms: PREDDIMER - Prediction tool for an ensemble of transmembrane α -helical dimer conformations

Resource Type: analysis service resource, service resource, data analysis service, production service resource

Defining Citation: [PMID:24202542](#)

Keywords: bio.tools

Availability: Free

Resource Name: PREDDIMER

Resource ID: SCR_011963

Alternate IDs: OMICS_01614, biotools:preddimer

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

Record Creation Time: 20220129T080307+0000

Record Last Update: 20260728T043401+0000

Ratings and Alerts

No rating or validation information has been found for PREDDIMER.

No alerts have been found for PREDDIMER.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Corcoran WK, et al. (2024) Exploring structure-function relationships in engineered receptor performance using computational structure prediction. *bioRxiv : the preprint server for biology*.

Rybak JA, et al. (2023) Allosteric inhibition of the epidermal growth factor receptor through disruption of transmembrane interactions. *The Journal of biological chemistry*, 299(7), 104914.

Drake LA, et al. (2023) Differential pairing of transmembrane domain GxxxG dimerization motifs defines two HLA-DR MHC class II conformers. *The Journal of biological chemistry*, 299(7), 104869.

Khan AS, et al. (2023) Novel Fat Taste Receptor Agonists Curtail Progressive Weight Gain in Obese Male Mice. *Cellular and molecular gastroenterology and hepatology*, 15(3), 633.

Lockey C, et al. (2022) Characterization of interactions within the Ig γ /Ig γ transmembrane domains of the human B-cell receptor provides insights into receptor assembly. *The Journal of biological chemistry*, 298(5), 101843.

Westerfield JM, et al. (2021) Conformational Clamping by a Membrane Ligand Activates the EphA2 Receptor. *Journal of molecular biology*, 433(18), 167144.

Matamoros-Recio A, et al. (2021) Full-Atom Model of the Agonist LPS-Bound Toll-like Receptor 4 Dimer in a Membrane Environment. *Chemistry (Weinheim an der Bergstrasse, Germany)*, 27(62), 15406.

Cymer F, et al. (2021) Small Residues Inhibit Homo-Dimerization of the Human Carbonic Anhydrase XII Transmembrane Domain. *Membranes*, 11(7).

García-Murria MJ, et al. (2020) Viral Bcl2s' transmembrane domain interact with host Bcl2 proteins to control cellular apoptosis. *Nature communications*, 11(1), 6056.

Xiao Y, et al. (2020) Experimental determination and data-driven prediction of homotypic transmembrane domain interfaces. *Computational and structural biotechnology journal*, 18, 3230.

Wang X, et al. (2020) An evolutionarily conserved motif is required for Plasmodesmata-located protein 5 to regulate cell-to-cell movement. *Communications biology*, 3(1), 291.

Bocharov EV, et al. (2018) Structural basis of the signal transduction via transmembrane domain of the human growth hormone receptor. *Biochimica et biophysica acta. General subjects*, 1862(6), 1410.

De Vecchis D, et al. (2017) A membrane-inserted structural model of the yeast mitofusin Fzo1. *Scientific reports*, 7(1), 10217.

Maurice P, et al. (2016) New Insights into Molecular Organization of Human Neuraminidase-1: Transmembrane Topology and Dimerization Ability. *Scientific reports*, 6, 38363.

Campbell JH, et al. (2014) Folding and self-association of atTic20 in lipid membranes: implications for understanding protein transport across the inner envelope membrane of chloroplasts. *BMC biochemistry*, 15, 29.