

Resource Summary Report

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Membrane Protein-Lipid Interaction Database

RRID:SCR_028506

Type: Tool

Proper Citation

Membrane Protein-Lipid Interaction Database (RRID:SCR_028506)

Resource Information

URL: <https://github.com/omagebright/MPLID>

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Description: Database for residue-level membrane protein-lipid contact annotations derived from experimentally determined Protein Data Bank structures. Includes automated Python pipeline for identifying lipid-containing PDB structures, calculating all-atom heavy-atom residue-lipid contacts using a 4.0 Angstrom distance cutoff, generating cluster-aware train, validation, and test splits, and producing documented dataset files for machine learning and structural bioinformatics. The dataset is deposited on Zenodo under CC0, while the code is released on GitHub under the MIT license. Contains large-scale experimentally-validated dataset of residue-level protein-lipid contacts from membrane protein structures.

Abbreviations: MPLID

Synonyms: MPLID: Membrane Protein-Lipid Interaction Database

Resource Type: data or information resource, database, software resource, source code

Keywords: large-scale experimentally-validated dataset, residue-level protein-lipid contacts, membrane protein structures,

Availability: Free, Available for download, Freely available

Resource Name: Membrane Protein-Lipid Interaction Database

Resource ID: SCR_028506

License: MIT license

Record Creation Time: 20260605T195314+0000

Record Last Update: 20260813T055401+0000

Ratings and Alerts

No rating or validation information has been found for Membrane Protein-Lipid Interaction Database.

No alerts have been found for Membrane Protein-Lipid Interaction Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.