

Resource Summary Report

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PLIP

RRID:SCR_024173

Type: Tool

Proper Citation

PLIP (RRID:SCR_024173)

Resource Information

URL: <https://plip-tool.biotec.tu-dresden.de/plip-web/plip/index>

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Description: Software application as protein?ligand interaction profiler to identify non-covalent interactions between biological macromolecules and their ligands. Provides atom level information on binding characteristics as well as publication ready visualizations and parsable output files. PLIP web tool is based on PLIP command line tool and offers graphical interface for analysis of few structures.

Synonyms: Protein-Ligand Interaction Profiler, plip

Resource Type: software library, software resource, software toolkit

Defining Citation: [DOI:10.1093/nar/gkv315](https://doi.org/10.1093/nar/gkv315)

Keywords: Protein Ligand Interaction Profiler,

Availability: Free, Available for download, Freely available,

Resource Name: PLIP

Resource ID: SCR_024173

Alternate IDs: OMICS_08028

Alternate URLs: <https://sources.debian.org/src/plip/>, <https://github.com/pharmai/plip>

License: GPL-2.0 license

Record Creation Time: 20230824T050212+0000

Record Last Update: 20260905T133105+0000

Ratings and Alerts

No rating or validation information has been found for PLIP.

No alerts have been found for PLIP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 226 mentions in open access literature.

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

Dong X, et al. (2026) Gut-microbiota-derived 3-indoleacrylic acid alleviates neonatal necrotizing enterocolitis by inhibiting epithelial necroptosis. *Cell reports. Medicine*, 7(4), 102721.

Telli EE, et al. (2026) Optimization and Molecular Simulation of Gelatin-Free Marshmallow Formulation Using Gellan Gum and Aquafaba. *Food science & nutrition*, 14(5), e71898.

Porav SA, et al. (2026) (-)-Englerin A binding to human TRPC5 exposes an aromatic interaction network in channel activation. *Nature communications*, 17(1).

Zhao Z, et al. (2026) Enhanced L-tyrosine production in *Bacillus amyloliquefaciens* through alleviation of feedback Inhibition and coordinated pathway expression. *Microbial cell factories*, 25(1), 34.

Liu Y, et al. (2026) Multi-Omics Analysis and In Vitro Experimental Validation Identify Candidate Mechanisms of Baicalein Against Chronic Obstructive Pulmonary Disease. *Molecules (Basel, Switzerland)*, 31(10).

Park J, et al. (2026) DrugBank mining with machine learning reveals novel candidates for BCL-2 inhibition. *Scientific reports*, 16(1), 5482.

Lima LM, et al. (2026) Modeling the P2X7 receptor: a comparative analysis of conventional methods and AlphaFold. *Frontiers in pharmacology*, 17, 1685425.

Banu H, et al. (2026) Integrative Pharmacological and Computational Analysis of *Abelmoschus esculentus* Phytochemicals: Enzyme Inhibition, Molecular Docking, and Dynamics Simulation Against Key Antidiabetic Targets. *Life (Basel, Switzerland)*, 16(3).

Tan P, et al. (2026) Aloperine alleviates LPS-induced inflammation in bovine intestinal epithelial cells through autophagy and TLR4/p38 MAPK/NF- κ B pathway. *BMC veterinary research*, 22(1).

Liao X, et al. (2026) Pharmacodynamic Material Basis of the Components of Four *Epimedium* Species with Activities Against Hepatocellular Carcinoma Based on Biological Target Networks and Multi-Omics Analysis. *Journal of hepatocellular carcinoma*, 13, 578719.

Li J, et al. (2026) Characterization of RmlABCD Enzymes from Marine Bacteria and Efficient Synthesis of dTDP-L-Rhamnose. *Microorganisms*, 14(5).

Gao N, et al. (2026) Network toxicology of perfluorooctanoic acid-induced hepatointestinal injury and the protective effect of *Lycium barbarum* polysaccharides against perfluorooctanoic acid in broilers. *Poultry science*, 105(7), 106923.

Baysal Ö, et al. (2026) *Bacillus velezensis* EU07 suppresses *Fusarium graminearum* via transcriptomic reprogramming. *Applied microbiology and biotechnology*, 110(1).

Xu A, et al. (2026) SPG7-Mediated Regulation of mPTP and Mitochondrial Flickering in COPD: A Bioinformatics-Based Prediction of Mechanistic Framework. *International journal of chronic obstructive pulmonary disease*, 21, 597903.

Mahayasih PGMW, et al. (2026) Targeting Skin Aging at Multiple Fronts: Integrated In Silico and In Vitro Evidence of Antioxidant, Anti-Protease, and UVB-Protective Effects of *Vitex trifolia*. *International journal of molecular sciences*, 27(4).

Taemaitree L, et al. (2026) Identification and Functional Characterization of Cytoprotective Crocodile-Derived Peptides against Oxidatively Stressed Human Keratinocytes. *ACS omega*, 11(8), 13743.

Imtiaz A, et al. (2026) Ultrasound-driven co-culture fermentation enhances bioactive components, antioxidant activity and structural properties of Chinese yam (*Dioscorea opposita* Thunb). *Ultrasonics sonochemistry*, 130, 107882.

Cao ZY, et al. (2026) Phenyllactic Acid Restores Intestinal Epithelial Barrier to Alleviate Hypertriglyceridemic Acute Pancreatitis via a PPAR γ -Dependent Mechanism. *Antioxidants (Basel, Switzerland)*, 15(6).

Chen J, et al. (2026) Elucidating the Multi-Target Anti-Pruritic Mechanism of *Polygonatum odoratum* via Integrated Network Pharmacology, Molecular Simulations, and GEO Dataset Validation. *Current issues in molecular biology*, 48(4).

Tang TC, et al. (2026) Integrated network toxicology and molecular docking revealed that 2-ethylhexyldiphenylphosphoric acid induces nephrotoxicity in chickens by activating the ROS/JNK pathway. *Poultry science*, 105(7), 106890.