

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>

Proper Citation: PLIP (RRID:SCR_024173)

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 toolkit, software resource, software library

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: 20260731T043144+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 109 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Ke S, et al. (2025) Causal Association Between Immune Cell Traits and Risk of Multiple Malignant and Nonmalignant CNS Diseases: A Mendelian Randomization and Single-Cell Transcriptomic Analysis. *Brain and behavior*, 15(8), e70632.

Zakrzewska S, et al. (2025) Structural basis for saxitoxin congener binding and neutralization by anuran saxiphilins. *Nature communications*, 16(1), 3885.

Rashwan ME, et al. (2025) In silico prediction of GRP78-CRIPTO binding sites to improve therapeutic targeting in glioblastoma. *Scientific reports*, 15(1), 16660.

Zapata Dongo RJ, et al. (2025) An in silico evaluation of lorlatinib as a potential therapy for novel amino acid substitutions in the tyrosine kinase domain of the ALK protein associated with cancer. *Frontiers in pharmacology*, 16, 1605314.

Ahmad S, et al. (2025) Informatics Approach Towards Targeting HTR1B Pathways in Neuropharmacology for Migraine Treatment. *Current neuropharmacology*, 23(14), 1939.

Li X, et al. (2025) Revealing the molecular mechanisms underlying Xuebijing against sepsis and septic acute kidney injury via bioinformatics and experimental approaches. *PloS one*, 20(10), e0333478.

Wang L, et al. (2025) Sensory-Chemical Co-Dynamics in *Kadsura coccinea*: ROAV-Driven Prioritization of Cultivar-Specific Odorants and Mechanistic Validation via Molecular Docking. *Foods (Basel, Switzerland)*, 14(21).

Banerjee IA, et al. (2025) Design and Development of Natural-Product-Derived Nanoassemblies and Their Interactions with Alpha Synuclein. *Biomimetics (Basel, Switzerland)*, 10(2).

Naveed M, et al. (2025) Fragment optimized chalcone derivatives targeting OmpA protein as a therapeutic approach against multidrug resistant *Acinetobacter baumannii*. *Scientific reports*, 15(1), 3917.

Cruz-Mirón R, et al. (2025) Sarcoendoplasmic reticulum calcium ATPase is an essential and druggable lipid-dependent ion pump in *Toxoplasma gondii*. *Communications biology*, 8(1), 702.

Zhao L, et al. (2025) Elucidating the metabolic pathway and initial degradation gene for p-chloro-m-xylene biodegradation in *Rhodococcus pyridinivorans* DMU114. *Applied and environmental microbiology*, 91(9), e0098425.

He Z, et al. (2025) Identification of compounds targeting porcine reproductive and respiratory syndrome virus nsp3 and evaluation of their antiviral efficacy. *Virulence*, 16(1), 2530176.

Xue W, et al. (2025) Probing the optimal architecture and molecular mechanism of insect odorant receptor heteromeric channels. *Communications biology*, 8(1), 1119.

Zhang F, et al. (2025) The identification of metabolites from gut microbiota in autism spectrum disorder via network pharmacology. *Scientific reports*, 15(1), 31765.

Nouri S, et al. (2025) Rapid detection of herpes simplex virus types 1 and 2 using a G-quadruplex aptamer-based biosensor. *Virology journal*, 22(1), 345.

Zare Z, et al. (2025) Combined experimental and in silico elucidation of KP27 endolysin reveals a phage derived antibacterial with pH and thermal robustness. *Scientific reports*, 15(1), 43341.

Lai X, et al. (2025) 5-Methoxytryptophan attenuates hypobaric hypoxia induced acute lung injury by alleviating lipid peroxidation via targeting peroxiredoxin 6. *Redox biology*, 88, 103922.

Zhang Y, et al. (2025) Revealing the molecular mechanisms of levofloxacin-induced cognitive impairment and epilepsy: an integrated bioinformatics and molecular dynamics simulation. *BMC pharmacology & toxicology*, 26(1), 199.

Alharbi OS, et al. (2025) Unveiling the synergistic power of 3-hydrazinoquinoxaline-2-thiol and vancomycin against MRSA: An in vitro and in silico evaluation. *Biomolecules & biomedicine*, 25(10), 2335.

Liu Y, et al. (2025) Mechanism of the Traditional Chinese Medicine Simiao Biejia Decoction Improves the Diabetes Mellitus-Induced Erectile Dysfunction in Rats. *Drug design, development and therapy*, 19, 2609.