# **Resource Summary Report**

Generated by NIF on Apr 29, 2025

# **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 library, software resource, software toolkit

**Defining Citation:** DOI:10.1093/nar/gkv315

Keywords: Protein Ligand Interaction Profiler,

**Funding:** 

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: 20250429T060321+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 57 mentions in open access literature.

**Listed below are recent publications.** The full list is available at NIF.

Xiong Y, et al. (2025) Quantitative Trait Loci Identification and Candidate Genes Characterization for Indole-3-Carbinol Content in Seedlings of Brassica napus. International journal of molecular sciences, 26(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.

Zhang S, et al. (2025) Liquid crystal monomers induce placental development and progesterone release dysregulation through transplacental transportation. Nature communications, 16(1), 1204.

Sharma G, et al. (2025) Identification of promising SARS-CoV-2 main protease inhibitor through molecular docking, dynamics simulation, and ADMET analysis. Scientific reports, 15(1), 2830.

Kim Y, et al. (2025) Identification of novel 7-hydroxycoumarin derivatives as ELOC binders with potential to modulate CRL2 complex formation. Scientific reports, 15(1), 3622.

Khongwichit S, et al. (2025) Reduced Uptake of Oxidized Low-Density Lipoprotein by Macrophages Using Multiple Aptamer Combinations. ACS applied bio materials, 8(1), 457.

Dai H, et al. (2025) Integrating single-cell RNA-Seq and bulk RNA-Seq data to explore the key role of fatty acid metabolism in hepatocellular carcinoma. Scientific reports, 15(1), 2077.

Vascon F, et al. (2025) Snapshots of Pseudomonas aeruginosa SOS response reveal structural requisites for LexA autoproteolysis. iScience, 28(2), 111726.

Biswas S, et al. (2024) An in silico approach to develop potential therapies against Middle East Respiratory Syndrome Coronavirus (MERS-CoV). Heliyon, 10(4), e25837.

Liu T, et al. (2024) Integrating network pharmacology and animal experimental validation to investigate the action mechanism of oleanolic acid in obesity. Journal of translational medicine, 22(1), 86.

Mishra S, et al. (2024) ATP mimetics targeting prolyl-tRNA synthetases as a new avenue for antimalarial drug development. iScience, 27(7), 110049.

Li Y, et al. (2024) New insights into the role of mitochondrial metabolic dysregulation and immune infiltration in septic cardiomyopathy by integrated bioinformatics analysis and experimental validation. Cellular & molecular biology letters, 29(1), 21.

Yang G, et al. (2024) Effects of anaerobic treatment on the non-volatile components and angiotensin-converting enzyme (ACE) inhibitory activity of purple-colored leaf tea. Food chemistry: X, 23, 101649.

Yang LY, et al. (2024) BioDolphin as a comprehensive database of lipid-protein binding interactions. Communications chemistry, 7(1), 288.

Hao F, et al. (2024) Neobavaisoflavone Ameliorates Memory Deficits and Brain Damage in A?25-35-Induced Mice by Regulating SIRT1. CNS neuroscience & therapeutics, 30(10), e70068.

Pan Y, et al. (2024) Nootkatone Derivative Nootkatone-(E)-2-iodobenzoyl hydrazone Promotes Megakaryocytic Differentiation in Erythroleukemia by Targeting JAK2 and Enhancing JAK2/STAT3 and PKC?/MAPK Crosstalk. Cells, 14(1).

Boulaamane Y, et al. (2024) Antibiotic discovery with artificial intelligence for the treatment of Acinetobacter baumannii infections. mSystems, 9(6), e0032524.

Liu Y, et al. (2024) Discovery of selective ACAT2 antagonist via a combination strategy based on deep docking, pharmacophore modelling, and molecular dynamics simulation. Journal of enzyme inhibition and medicinal chemistry, 39(1), 2403736.

Li Y, et al. (2024) Ibrutinib Promotes Atrial Fibrillation by Disrupting A-Kinase Anchoring Protein 1-Mediated Mitochondrial Quality Surveillance in Cardiomyocytes. Research (Washington, D.C.), 7, 0509.

Zhu X, et al. (2024) In vitro, in vivo, and in silico approaches for evaluating the preclinical DMPK profiles of ammoxetine, a novel chiral serotonin and norepinephrine reuptake inhibitor. Frontiers in pharmacology, 15, 1486856.