

Resource Summary Report

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LigPlot+

RRID:SCR_018249

Type: Tool

Proper Citation

LigPlot+ (RRID:SCR_018249)

Resource Information

URL: <https://www.ebi.ac.uk/thornton-srv/software/LigPlus/>

Proper Citation: LigPlot+ (RRID:SCR_018249)

Description: Software tool for automatic generation of multiple 2D ligand-protein interaction diagrams from 3D coordinates. Diagrams portray hydrogen-bond interaction patterns and hydrophobic contacts between ligand(s) and main-chain or side-chain elements of protein. Used for drug discovery for analyzing series of small molecules binding to same protein target, single ligand binding to homologous proteins, or where both protein and ligand change.

Synonyms: LigPlot Plus, LigPlot+ v.2.2, LIGPLOT, LigPlus, LigPlotPlus

Resource Type: data visualization software, software application, software resource, data processing software

Defining Citation: [PMID:21919503](#)

Keywords: 2D ligand protein interaction, interaction diagram, drug discovery, molecule binding, protein target, single ligand, ligand binding

Availability: Restricted

Resource Name: LigPlot+

Resource ID: SCR_018249

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260807T042918+0000

Ratings and Alerts

No rating or validation information has been found for LigPlot+.

No alerts have been found for LigPlot+.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 332 mentions in open access literature.

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

Oh KK, et al. (2026) A roadmap to unveil the mechanism(s) of natural indole-derived molecules against NAFLD-derived HCC via systems pharmacology. *Translational oncology*, 63, 102618.

Fatima S, et al. (2026) A novel protein truncating mutation of TTC8 causes Bardet-Biedl Syndrome (BBS) in a Pakistani family. *Genetics and molecular biology*, 49(1), e20250020.

Desveaux JM, et al. (2026) Neutralizing human monoclonal antibodies that target the PcrV component of the type III secretion system of *Pseudomonas aeruginosa* act through distinct mechanisms. *eLife*, 14.

Artiukhov AV, et al. (2026) Investigating Coenzyme Function of Thiamine Triphosphate Using Its Novel Hydrolysis-Resistant Analog and Transketolase. *Biomolecules*, 16(2).

Yu B, et al. (2026) *Houttuynia cordata* Polysaccharide Alleviates Hepatic Ischemia-Reperfusion Injury by Regulating Macrophage Polarization via Inhibiting the TLR4/NF- κ B Signaling Pathway. *Biomedicines*, 14(2).

Chen S, et al. (2026) Gut-Derived Hippuric Acid Alleviates Hepatic Lipid Metabolism via UGDH/FOXK1/CD36 Axis in Obese Mice. *Drug design, development and therapy*, 20, 595588.

Guo Z, et al. (2026) Integrative profiling of lactylation reveals prognostic biomarkers and an immunosuppressive niche in acute myeloid leukemia. *Frontiers in immunology*, 17, 1765979.

Karmakar S, et al. (2026) Acridine-derived small molecule associates with VEGF and is linked to reduced CAM vascularization: a combined in silico and CAM study. *BMC pharmacology & toxicology*, 27(1).

Chatterjee D, et al. (2026) From computational screening to in vitro validation: exploring antimicrobial peptides against *Pseudomonas aeruginosa*. *Frontiers in microbiology*, 17, 1796090.

Ma K, et al. (2026) A POSTN+ CAF/APOE+ TAM Axis is Associated with Tumor Progression and Potential Immunotherapy Resistance in Laryngeal Squamous Cell

Carcinoma. International journal of general medicine, 19, 583478.

Feng Q, et al. (2026) Hexosamine biosynthesis drives hemocyanin O-GlcNAcylation to potentiate antibacterial immunity in shrimp. The Journal of biological chemistry, 302(7), 113213.

Chundru D, et al. (2026) In silico design of a multiepitope subunit vaccine targeting Salmonella enterica serovar Infantis: an immunoinformatics and reverse vaccinology approach. Frontiers in immunology, 17, 1717278.

Montermoso S, et al. (2026) Structures of nucleotide-bound Redondovirus Rep protein link conformation and function. PLoS pathogens, 22(3), e1013997.

Su Y, et al. (2026) Low KIF26B Expression Reduces Paclitaxel Resistance and Predicts Good Prognosis in Ovarian Cancer. Current issues in molecular biology, 48(2).

Santos-Enriquez AK, et al. (2026) Network pharmacology refined with non-ubiquity and decoy-controlled molecular docking reveals insights into Moringa oleifera phytochemicals targeting insulin resistance. Frontiers in bioinformatics, 6, 1756081.

Liang Y, et al. (2026) Epopthilone B stabilizes microtubules via Tau to protect retinal ganglion cells and promote axon regeneration. Cell communication and signaling : CCS, 24(1).

Yan J, et al. (2026) Crocins Ameliorate Experimental Immune Checkpoint Inhibitor-Related Myocarditis by Targeting the Hpx/Nrf2/HO-1 Pathway. International journal of molecular sciences, 27(2).

Wang Y, et al. (2026) Identification of novel therapeutic targets for ovarian hypofunction through hormonal pathway regulation. BMC biotechnology, 26(1).

Ramirez-Cando LJ, et al. (2026) Computational Design and Immunoinformatic Analysis of a Broad-Spectrum Edible Multi-Epitope Vaccine Against Salmonella for Poultry. Veterinary sciences, 13(2).

Kuyumcu M, et al. (2026) Effects of Dexmedetomidine Treatment After Cerebral Ischemia/Reperfusion on Apoptosis and Oxidative Stress: A Rat Model. Life (Basel, Switzerland), 16(2).