

Resource Summary Report

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GOLD

RRID:SCR_000188

Type: Tool

Proper Citation

GOLD (RRID:SCR_000188)

Resource Information

URL: <http://www.ccdc.cam.ac.uk/Solutions/GoldSuite/Pages/GOLD.aspx>

Proper Citation: GOLD (RRID:SCR_000188)

Description: A software for virtual screening and identifying the binding mode of active molecules. It is comprehensively validated, widely used, and allows for high database enrichments. The software utilizes a novel methodology which avoids computationally expensive sequential docking of ligands into multiple protein structures.

Abbreviations: GOLD

Resource Type: software resource

Keywords: virtual screening, binding, active molecules, ligand-protein bonding, computation, protein structures, lead optimization

Funding:

Availability: Public, Open Source

Resource Name: GOLD

Resource ID: SCR_000188

Alternate IDs: OMICS_01602

License URLs: <http://www.ccdc.cam.ac.uk/TermsAndConditions/>

Record Creation Time: 20220129T080200+0000

Record Last Update: 20250420T013933+0000

Ratings and Alerts

No rating or validation information has been found for GOLD.

No alerts have been found for GOLD.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 18 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Kelly G, et al. (2024) Suppressed basal mitophagy drives cellular aging phenotypes that can be reversed by a p62-targeting small molecule. *Developmental cell*, 59(15), 1924.

Bandopadhyay S, et al. (2023) Oncogene-mediated nuclear accumulation of lactate promotes epigenetic alterations to induce cancer cell proliferation. *Journal of cellular biochemistry*, 124(4), 495.

Aboukassim T, et al. (2023) A NRF2 inhibitor selectively sensitizes KEAP1 mutant tumor cells to cisplatin and gefitinib by restoring NRF2-inhibitory function of KEAP1 mutants. *Cell reports*, 42(9), 113104.

Helsen C, et al. (2022) Exploiting Ligand-binding Domain Dimerization for Development of Novel Androgen Receptor Inhibitors. *Molecular cancer therapeutics*, 21(12), 1823.

Bampali K, et al. (2022) Tricyclic antipsychotics and antidepressants can inhibit γ -aminobutyric acid (GABA) receptors by two distinct mechanisms. *British journal of pharmacology*, 179(14), 3675.

Hackl B, et al. (2022) The Bradycardic Agent Ivabradine Acts as an Atypical Inhibitor of Voltage-Gated Sodium Channels. *Frontiers in pharmacology*, 13, 809802.

Geeraerts SL, et al. (2021) Repurposing the Antidepressant Sertraline as SHMT Inhibitor to Suppress Serine/Glycine Synthesis-Addicted Breast Tumor Growth. *Molecular cancer therapeutics*, 20(1), 50.

Qile M, et al. (2019) LUF7244, an allosteric modulator/activator of Kv 11.1 channels, counteracts dofetilide-induced torsades de pointes arrhythmia in the chronic atrioventricular block dog model. *British journal of pharmacology*, 176(19), 3871.

Chua MJ, et al. (2017) Effect of clinically approved HDAC inhibitors on *Plasmodium*, *Leishmania* and *Schistosoma* parasite growth. *International journal for parasitology. Drugs and drug resistance*, 7(1), 42.

Zhang L, et al. (2016) Crystal structure of FabZ-ACP complex reveals a dynamic seesaw-like catalytic mechanism of dehydratase in fatty acid biosynthesis. *Cell research*, 26(12), 1330.

Glaab E, et al. (2016) Building a virtual ligand screening pipeline using free software: a survey. *Briefings in bioinformatics*, 17(2), 352.

Jögi J, et al. (2015) The added value of hybrid ventilation/perfusion SPECT/CT in patients with stable COPD or apparently healthy smokers. Cancer-suspected CT findings in the lungs are common when hybrid imaging is used. *International journal of chronic obstructive pulmonary disease*, 10, 25.

Min DK, et al. (2015) In silico Screening of Chemical Libraries to Develop Inhibitors That Hamper the Interaction of PCSK9 with the LDL Receptor. *Yonsei medical journal*, 56(5), 1251.

Pinto LM, et al. (2014) Derivation of normative data for the COPD assessment test (CAT). *Respiratory research*, 15(1), 68.

Ferrier RC, et al. (2014) Gold nanorod linking to control plasmonic properties in solution and polymer nanocomposites. *Langmuir : the ACS journal of surfaces and colloids*, 30(7), 1906.

Carta V, et al. (2014) A pentasymmetric open channel blocker for Cys-loop receptor channels. *PloS one*, 9(9), e106688.

Hattiholi J, et al. (2014) Prevalence and correlates of osteoporosis in chronic obstructive pulmonary disease patients in India. *Lung India : official organ of Indian Chest Society*, 31(3), 221.

Waugh B, et al. (2014) In silico work flow for scaffold hopping in *Leishmania*. *BMC research notes*, 7, 802.