

Resource Summary Report

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SwissTargetPrediction

RRID:SCR_023756

Type: Tool

Proper Citation

SwissTargetPrediction (RRID:SCR_023756)

Resource Information

URL: <http://www.swisstargetprediction.ch/>

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Description: Web tool to estimate the most probable macromolecular targets of small molecule, assumed as bioactive. Prediction is founded on combination of 2D and 3D similarity with library of known actives on proteins from three different species.

Resource Type: software resource, data access protocol, web service

Defining Citation: [PMID:31106366](#)

Keywords: protein targets, small molecule, bioactive small molecule, macromolecular target estimation, target prediction,

Funding: Swiss Institute of Bioinformatics

Availability: Free, Freely available

Resource Name: SwissTargetPrediction

Resource ID: SCR_023756

Record Creation Time: 20230708T050227+0000

Record Last Update: 20260808T190258+0000

Ratings and Alerts

No rating or validation information has been found for SwissTargetPrediction.

No alerts have been found for SwissTargetPrediction.

Data and Source Information

Usage and Citation Metrics

We found 2774 mentions in open access literature.

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

Sinyavskiy S, et al. (2026) Benzo[e][1,2,4]triazolo[1,5-c][1,2,3]triazines: Design, Synthesis, and Cytotoxic Effects. *Chemistry & biodiversity*, 23(6), e71416.

Jiang YY, et al. (2026) Ze-qi Decoction Inhibits Neutrophil Extracellular Trap Formation to Suppress the Progression and Metastasis of Non-Small Cell Lung Cancer. *Integrative cancer therapies*, 25, 15347354261420750.

Osman ST, et al. (2026) Repurposing SGLT2 and DPP-4 inhibitors for mild cognitive impairment in type 2 diabetes mellitus: Insights from proteomics, target prediction and molecular docking. *British journal of pharmacology*, 183(10), 2533.

Ruankham W, et al. (2026) Unraveling Network Pharmacology-Based Therapeutics of Anthranilate Sulfonamides via Sirtuins/FOXO3a Cascade in Alzheimer's Disease. *Journal of neurochemistry*, 170(2), e70377.

Gu T, et al. (2026) Salidroside ameliorates experimental autoimmune neuritis by dually modulating neuroinflammation and immune homeostasis via PI3K/AKT signaling. *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 23(1), e00769.

Cheng T, et al. (2026) Frog-Derived Peptide RL-RF10 Facilitates Gingival Repair and Regeneration Through the Integrin α 3/p38/Snail1 Axis. *International dental journal*, 76(1), 109337.

Li L, et al. (2026) Hyperoside prevents osteoporosis by activating the PI3K/AKT signaling pathway to inhibit oxidative stress and promote osteogenesis. *Molecular medicine reports*, 33(2).

Vachetta VS, et al. (2026) 2'-Nitroflavone targets PARP1 and alters cytoskeleton to inhibit triple-negative breast cancer progression. *Scientific reports*, 16(1), 4164.

Yan H, et al. (2026) miR-376c-3p mediates icariin's anti-osteoclastogenic effect by targeting Mmp3. *Journal of orthopaedic surgery and research*, 21(1), 80.

Shi Z, et al. (2026) Exploring the toxicological mechanisms of Benzo[a]anthracene (BaA) exposure in lung adenocarcinoma (LUAD) via network toxicology, machine learning, and multi-dimensional bioinformatics analysis. *PloS one*, 21(2), e0340116.

Chen M, et al. (2026) α -sitosterol improves the pathological progression of PCOS by targeting ESR1 to inhibit autophagy activity. *Journal of ovarian research*, 19(1).

Zhang L, et al. (2026) Quercetin upregulates steroid hormone biosynthesis to enhance reproductive performance in roosters. *Poultry science*, 105(4), 106590.

Lu K, et al. (2026) Unveiling the pathways of Xuanbai Chengqi Decoction in obese asthma: from immune modulation to microbial restoration. *Frontiers in nutrition*, 13, 1710739.

Fayez S, et al. (2026) Tissue-specific distribution of cytotoxic triterpene saponins in three Red Sea sea cucumbers. *Scientific reports*, 16(1).

He W, et al. (2026) Ranitidine protects Müller cells against ferroptosis in diabetic retinopathy by regulating the AKT1/GSK3 β pathway. *Indian journal of ophthalmology*, 74(2), 250.

Zheng R, et al. (2026) A tri-scale in silico framework integrating pharmacovigilance and mechanistic modeling suggests tepotinib-associated acute kidney injury risk. *Renal failure*, 48(1), 2610895.

Liu K, et al. (2026) Luteolin Attenuates Asthma Via Inhibiting ALOX15 Mediated Bronchial Epithelial Cell Ferroptosis. *Inflammation*, 49(1), 50.

Meng Z, et al. (2026) Study on the effect and mechanism of Qufushengji hydrogel based on network pharmacology and molecular docking technology in treating phlebitis. *Medicine*, 105(6), e47427.

Vinay CM, et al. (2026) CDMMM: a comprehensive platform of traditional Indian medicinal plant DNA barcodes and metabolite fingerprints database. *Scientific reports*, 16(1).

Yang Y, et al. (2026) Saccharin Aggravates Eosinophilic Esophagitis via MAPK3 Interaction: A Network Toxicology and Machine Learning Study With SPR Analysis. *Food science & nutrition*, 14(1), e71409.