Resource Summary Report

Generated by ASWG on Sep 18, 2026

X2K Web

RRID:SCR_023624
Type: Tool

Proper Citation

X2K Web (RRID:SCR_023624)

Resource Information

URL: https://maayanlab.cloud/X2K

Proper Citation: X2K Web (RRID:SCR_023624)

Description: Web service to predict involvement of upstream cell signaling pathways, given signature of differentially expressed genes. Used to linking expression signatures to upstream cell signaling networks.

Abbreviations: X2K

Synonyms: eXpression2Kinases (X2K) Web

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

Defining Citation: PMID:29800326

Keywords: predicts involvement of upstream cell signaling pathways, differentially expressed genes, linking expression signatures, upstream cell signaling networks,

Funding: NCI U24 CA224260;
NHLBI U54 HL127624;
NIH Office of the Director OT3 OD025467

Availability: Free, Freely available

Resource Name: X2K Web

Resource ID: SCR_023624

Alternate URLs: https://github.com/MaayanLab/x2k_web

Record Creation Time: 20230527T050216+0000

Record Last Update: 20260912T200040+0000

Ratings and Alerts

No rating or validation information has been found for X2K Web.

No alerts have been found for X2K Web.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Piroozmand S, et al. (2026) Suboptimal Responses to Anti-VEGF in Retinal Neurovascular Diseases: Linking Aging and Alternative Angioinflammatory Pathways. Investigative ophthalmology & visual science, 67(5), 4.

Aljasir MA, et al. (2026) An Integrated Network Biology and Molecular Dynamics Approach Identifies CD44 as a Promising Therapeutic Target in Multiple Sclerosis. Pharmaceuticals (Basel, Switzerland), 19(2).

Zaimi M, et al. (2026) Gene Expression as a Guide for the Development of Novel Therapies in Hypertensive and Diabetic Kidney Disease. Journal of clinical medicine, 15(2).

Bokhari BT, et al. (2026) System biology and network-based approach to identify the therapeutic signatures and potential inhibitors against polycystic lipomembranous osteodysplasia with Sclerosing Leukoencephalopathy. PloS one, 21(2), e0343274.

Kafita D, et al. (2026) Decoding the dark genome reveals its organisation into modular disease networks. Scientific reports, 16(1).

Fatima T, et al. (2025) Unlocking the Antioxidant, Enzyme Inhibitory and Acaricidal Potential of Azadirachta indica Phytoconstituents Using In Vitro and In Silico Approaches. Food science & nutrition, 13(12), e71204.

Dos Santos FM, et al. (2025) Dynamic Cellular Proteome Remodeling during SARS-CoV-2 Infection. Identification of Plasma Protein Readouts. Journal of proteome research, 24(1), 171.

Rikhari D, et al. (2025) Whole transcriptome analysis identifies ALB-EEF1A1 fusion as a novel biomarker in metastatic colorectal cancer. Cancer pathogenesis and therapy, 3(5), 420.

Liu H, et al. (2025) Optineurin Cooperates With NRF2 to Regulate Tooth Root Morphogenesis by Controlling Mitochondrial Dynamics and Apoptosis. Cell proliferation, 58(5), e13799.

Elbatarny M, et al. (2025) Systems biology approaches investigating mitochondrial dysfunction in cyanotic heart disease: a systematic review. EBioMedicine, 118, 105839.

Payva F, et al. (2025) Systems biology approach delineates critical pathways associated with papillary thyroid cancer: a multi-omics data analysis. Thyroid research, 18(1), 15.

Ayaz H, et al. (2025) Exploring the hub gene CERS6 as a therapeutic target in type 1 diabetes through a bioinformatics and network analyst approach. Scientific reports, 16(1), 428.

Ajiboye BO, et al. (2024) In silico exploration of anti-prostate cancer compounds from differential expressed genes. BMC urology, 24(1), 138.

Bhuiyan P, et al. (2024) System biology approaches to identify hub genes linked with ECM organization and inflammatory signaling pathways in schizophrenia pathogenesis. Heliyon, 10(3), e25191.

Alharbi M, et al. (2024) The ameliorative effect of pioglitazone against colistin-induced nephrotoxicity is mediated by inhibition of NF-?B and restoration of Nrf2 signaling: An integrative bioinformatics prediction-guided in vitro study. PloS one, 19(12), e0314092.

Liu L, et al. (2024) Suppression of DNMT1 combined with ATM or ATR inhibitor as a therapeutic combination of acute myeloid leukemia. Anti-cancer drugs, 35(3), 251.

Wang M, et al. (2024) KIF18A and CDK1 as combined therapeutic targets in cervical and endometrial carcinomas: based on bioinformatics analysis and in vitro experiments. Translational cancer research, 13(12), 6880.

Wang J, et al. (2024) Targeting c-Myc transactivation by LMNA inhibits tRNA processing essential for malate-aspartate shuttle and tumour progression. Clinical and translational medicine, 14(5), e1680.

Mahjoubin-Tehran M, et al. (2024) The differential expression of adipose tissue genes in short, medium and long-term periods after bariatric surgery. Scientific reports, 14(1), 19991.

Tavassolifar MJ, et al. (2023) New insights into extracellular and intracellular redox status in COVID-19 patients. Redox biology, 59, 102563.