

Resource Summary Report

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ropls

RRID:SCR_016888

Type: Tool

Proper Citation

ropls (RRID:SCR_016888)

Resource Information

URL: <http://www.bioconductor.org/packages/release/bioc/html/ropls.html>

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Description: Software R package for multivariate analysis and feature selection of omics data. Used for visualization, regression, classification, and feature selection of omics data where the number of variables exceeds the number of samples and with multicollinearity among variables.

Abbreviations: R OPLS

Synonyms: R Orthogonal Partial Least Squares

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

Keywords: multivariate, analysis, feature, selection, omics, data, visualization, regression, classification, variable, exceeds, number, sample, multicollinearity, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: ropls

Resource ID: SCR_016888

Alternate IDs: BioTools:ropls, biotools:ropls

Alternate URLs: <https://bio.tools/ropls>, <https://bio.tools/ropls>, <https://bio.tools/ropls>

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260821T194102+0000

Ratings and Alerts

No rating or validation information has been found for ropls.

No alerts have been found for ropls.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Speziale R, et al. (2026) Plasma metabolomic profiling identifies a metabolic signature for non-muscle-invasive bladder cancer independent of hematuria. *Biology direct*, 21(1).

Yang C, et al. (2025) Enhancing growth performance in Liangshan black sheep through fermented onion: insights from transcriptomics and metabolomics. *Frontiers in veterinary science*, 12, 1533728.

Lau NS, et al. (2025) Comparative genomics and multiomics analyses reveal the evolution and physiological basis of rubber biosynthesis in *Hevea* species. *GigaScience*, 14.

Suda K, et al. (2025) Low OLFM1 and BMP6 Expression Predicts Recurrence in Early-Stage Nonsquamous NSCLC with Pure Solid Tumor Appearance. *Cancer research communications*, 5(12), 2186.

Hang JW, et al. (2025) Methylene blue treatment of fatal cerebral malaria and identification of potential blood biomarkers. *Nature communications*, 16(1), 10534.

Khan S, et al. (2024) Coal-straw co-digestion-induced biogenic methane production: perspectives on microbial communities and associated metabolic pathways. *Scientific reports*, 14(1), 26554.

Li Y, et al. (2024) Profiles of phenolics and their synthetic pathways in *Asparagus officinalis* L. *Food chemistry. Molecular sciences*, 8, 100187.

Borgmästars E, et al. (2024) Metabolomics for early pancreatic cancer detection in plasma samples from a Swedish prospective population-based biobank. *Journal of gastrointestinal oncology*, 15(2), 755.

Sun C, et al. (2024) Harnessing biosynthesized selenium nanoparticles for recruitment of beneficial soil microbes to plant roots. *Cell host & microbe*, 32(12), 2148.

Lo B, et al. (2022) Slightly different metabolomic profiles are associated with high or low weight duck foie gras. *PloS one*, 17(6), e0255707.

Houël E, et al. (2022) Treating leishmaniasis in Amazonia, part 2: Multi-target evaluation of widely used plants to understand medicinal practices. *Journal of ethnopharmacology*,

289, 115054.

Larkin JR, et al. (2022) Metabolomic Biomarkers in Blood Samples Identify Cancers in a Mixed Population of Patients with Nonspecific Symptoms. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 28(8), 1651.

Duraiswamy J, et al. (2021) Myeloid antigen-presenting cell niches sustain antitumor T cells and license PD-1 blockade via CD28 costimulation. *Cancer cell*, 39(12), 1623.

Zhang S, et al. (2020) Ethylcinnamic Acid Prevents Potato Late Blight by Disrupting Protein Biosynthesis of *Phytophthora infestans*. *Pathogens (Basel, Switzerland)*, 9(4).

Baardman J, et al. (2018) A Defective Pentose Phosphate Pathway Reduces Inflammatory Macrophage Responses during Hypercholesterolemia. *Cell reports*, 25(8), 2044.