

# Resource Summary Report

Generated by [ASWG](#) on Aug 2, 2026

## ropls

RRID:SCR\_016888

Type: Tool

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### Proper Citation

ropls (RRID:SCR\_016888)

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### 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 processing software, data analysis 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:** 20260801T190544+0000

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### Ratings and Alerts

No rating or validation information has been found for ropls.

No alerts have been found for ropls.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 12 mentions in open access literature.

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

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.

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.

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.

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

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.

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) Ethylin 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.