Resource Summary Report

Generated by ASWG on May 3, 2025

ChAMP

RRID:SCR_012891

Type: Tool

Proper Citation

ChAMP (RRID:SCR_012891)

Resource Information

URL: http://www.bioconductor.org/packages/2.13/bioc/html/ChAMP.html

Proper Citation: ChAMP (RRID:SCR_012891)

Description: Software package that includes quality control metrics, a selection of normalization methods and novel methods to identify differentially methylated regions and to highlight copy number aberrations.

Abbreviations: ChAMP

Synonyms: ChAMP - Chip Analysis Methylation Pipeline for Illumina HumanMethylation450

Resource Type: software resource

Funding:

Availability: Free

Resource Name: ChAMP

Resource ID: SCR_012891

Alternate IDs: OMICS_01796

Record Creation Time: 20220129T080313+0000

Record Last Update: 20250420T014623+0000

Ratings and Alerts

No rating or validation information has been found for ChAMP.

No alerts have been found for ChAMP.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 624 mentions in open access literature.

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

Lim H, et al. (2025) DNA Methylation Profile in Buffy Coat Identifies Methylation Differences Between Cirrhosis with and Without Hepatocellular Carcinoma. Cancers, 17(2).

Tejedor JR, et al. (2025) Integration of multi-omics layers empowers precision diagnosis through unveiling pathogenic mechanisms on maple syrup urine disease. Journal of inherited metabolic disease, 48(1), e12829.

Dao B, et al. (2025) Crosstalk between genomic variants and DNA methylation in FLT3 mutant acute myeloid leukemia. Briefings in functional genomics, 24.

Lu X, et al. (2025) Stratification system with dual human endogenous retroviruses for predicting immunotherapy efficacy in metastatic clear-cell renal cell carcinoma. Journal for immunotherapy of cancer, 13(1).

Qian Q, et al. (2025) CVD Atlas: a multi-omics database of cardiovascular disease. Nucleic acids research, 53(D1), D1348.

Paz-López G, et al. (2025) Pre-operative DNA methylation marks as predictors of weight loss outcomes after sleeve gastrectomy. Molecular metabolism, 92, 102087.

Ganguli P, et al. (2025) Context-dependent effects of CDKN2A and other 9p21 gene losses during the evolution of esophageal cancer. Nature cancer, 6(1), 158.

Kuroiwa T, et al. (2025) DNA methylation of bone morphogenetic protein 7 in leukocytes as a possible biomarker for hand osteoarthritis: A pilot study. Journal of orthopaedic research: official publication of the Orthopaedic Research Society, 43(1), 84.

Gianno F, et al. (2025) MicroRNAs Expression Profile in MN1-Altered Astroblastoma. Biomedicines, 13(1).

English KA, et al. (2025) Calcium sensing receptor expression is downregulated in gastroenteropancreatic neuroendocrine tumours via epigenetic mechanisms. International journal of cancer, 156(5), 980.

Tang X, et al. (2025) Causality-driven candidate identification for reliable DNA methylation biomarker discovery. Nature communications, 16(1), 680.

Zheng Y, et al. (2024) Multi-omics data integration using ratio-based quantitative profiling with Quartet reference materials. Nature biotechnology, 42(7), 1133.

Win PW, et al. (2024) Simultaneous assessment of mitochondrial DNA copy number and nuclear epigenetic age towards predictive models of development and aging. BMC research notes, 17(1), 21.

Carvalho Silva R, et al. (2024) DNA methylation changes in association with trauma-focused psychotherapy efficacy in treatment-resistant depression patients: a prospective longitudinal study. European journal of psychotraumatology, 15(1), 2314913.

Wang B, et al. (2024) Pan-cancer analysis reveals potential immunological and prognostic roles of METTL7A in human cancers. Scientific reports, 14(1), 3476.

Alegrete J, et al. (2024) Effectiveness of the KC@H programme compared with clinic-based rehabilitation in patients recovering from ACL reconstruction: a study protocol for a single-centre, two-arm, single-blinded, randomised controlled superiority trial. BMJ open sport & exercise medicine, 10(1), e001868.

Maikos JT, et al. (2024) Effects of a Powered Ankle-Foot Prosthesis and Physical Therapy on Function for Individuals With Transfemoral Limb Loss: Rationale, Design, and Protocol for a Multisite Clinical Trial. JMIR research protocols, 13, e53412.

Wang C, et al. (2024) A multidimensional atlas of human glioblastoma-like organoids reveals highly coordinated molecular networks and effective drugs. NPJ precision oncology, 8(1), 19.

Wortinger LA, et al. (2024) Divergent epigenetic responses to perinatal asphyxia in severe mental disorders. Translational psychiatry, 14(1), 16.

Kibe Y, et al. (2024) Pediatric-type high-grade gliomas with PDGFRA amplification in adult patients with Li-Fraumeni syndrome: clinical and molecular characterization of three cases. Acta neuropathologica communications, 12(1), 57.