

Resource Summary Report

Generated by [dkNET](#) on Apr 25, 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>

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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 [dkNET](#).

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.