

# Resource Summary Report

Generated by [dkNET](#) on Apr 27, 2025

## [methylKit](#)

RRID:SCR\_005177

Type: Tool

### Proper Citation

methylKit (RRID:SCR\_005177)

### Resource Information

**URL:** <https://code.google.com/p/methylkit/>

**Proper Citation:** methylKit (RRID:SCR\_005177)

**Description:** An R package for DNA methylation analysis and annotation from high-throughput bisulfite sequencing.

**Abbreviations:** methylKit

**Resource Type:** software resource

**Funding:**

**Resource Name:** methylKit

**Resource ID:** SCR\_005177

**Alternate IDs:** OMICS\_00606

**Record Creation Time:** 20220129T080228+0000

**Record Last Update:** 20250420T014245+0000

### Ratings and Alerts

No rating or validation information has been found for methylKit.

No alerts have been found for methylKit.

## Data and Source Information

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

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## Usage and Citation Metrics

We found 546 mentions in open access literature.

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

Liu Y, et al. (2025) DNA Methylation and Transcriptome Profiling Reveal the Role of the Antioxidant Pathway and Lipid Metabolism in *Plectropomus leopardus* Skin Color Formation. *Antioxidants* (Basel, Switzerland), 14(1).

Chen L, et al. (2025) The DNA demethylase TET1 modifies the impact of maternal folic acid status on embryonic brain development. *EMBO reports*, 26(1), 175.

King SE, et al. (2025) Prenatal maternal stress in rats alters the epigenetic and transcriptomic landscape of the maternal-fetal interface across four generations. *Communications biology*, 8(1), 38.

Nohara K, et al. (2025) Acquired sperm hypomethylation by gestational arsenic exposure is re-established in both the paternal and maternal genomes of post-epigenetic reprogramming embryos. *Epigenetics & chromatin*, 18(1), 4.

Grillo G, et al. (2025) ZBTB24 is a conserved multifaceted transcription factor at genes and centromeres that governs the DNA methylation state and expression of satellite repeats. *Human molecular genetics*, 34(2), 161.

Eulalio T, et al. (2025) regionalpcs improve discovery of DNA methylation associations with complex traits. *Nature communications*, 16(1), 368.

Dai J, et al. (2025) Atezolizumab plus bevacizumab in patients with unresectable or metastatic mucosal melanoma: 3-year survival update and multi-omics analysis. *Clinical and translational medicine*, 15(1), e70169.

Shealy EP, et al. (2025) DNA methylation-based age prediction and sex-specific epigenetic aging in a lizard with female-biased longevity. *Science advances*, 11(5), eadq3589.

Monestime O, et al. (2025) Peripheral Blood DNA Methylation Changes in Response to *Centella asiatica* Treatment in Aged Mice. *Biology*, 14(1).

Dwivedi AK, et al. (2025) High-resolution multimodal profiling of human epileptic brain activity via explanted depth electrodes. *JCI insight*, 10(1).

Mencia R, et al. (2025) Transposon-triggered epigenetic chromatin dynamics modulate EFR-related pathogen response. *Nature structural & molecular biology*, 32(1), 199.

Khodaeiaminjan M, et al. (2024) Impacts of in-vitro zebularine treatment on genome-wide DNA methylation and transcriptomic profiles in *Salix purpurea* L. *Physiologia plantarum*, 176(3), e14403.

Edman S, et al. (2024) The 24-Hour Time Course of Integrated Molecular Responses to Resistance Exercise in Human Skeletal Muscle Implicates MYC as a Hypertrophic Regulator That is Sufficient for Growth. *bioRxiv : the preprint server for biology*.

Cappelluti MA, et al. (2024) Durable and efficient gene silencing in vivo by hit-and-run epigenome editing. *Nature*, 627(8003), 416.

Yagound B, et al. (2024) Is developmental plasticity triggered by DNA methylation changes in the invasive cane toad (*Rhinella marina*)? *Ecology and evolution*, 14(3), e11127.

Lin QXX, et al. (2024) Longitudinal single cell atlas identifies complex temporal relationship between type I interferon response and COVID-19 severity. *Nature communications*, 15(1), 567.

Pekkarinen M, et al. (2024) Aberrant DNA methylation distorts developmental trajectories in atypical teratoid/rhabdoid tumors. *Life science alliance*, 7(6).

Martínez Duncker Rebolledo E, et al. (2024) Sperm DNA methylation defects in a new mouse model of the 5,10-methylenetetrahydrofolate reductase 677C>T variant and correction with moderate dose folic acid supplementation. *Molecular human reproduction*, 30(4).

Guerrero L, et al. (2024) Patterns of methylation and transcriptional plasticity during thermal acclimation in a reef-building coral. *Evolutionary applications*, 17(7), e13757.

Weng J, et al. (2024) Distinct epigenetic modulation of differentially expressed genes in the adult mouse brain following prenatal exposure to low-dose bisphenol A. *Cell biology and toxicology*, 40(1), 37.