

Resource Summary Report

Generated by [dkNET](#) on Sep 11, 2026

Kismeth

RRID:SCR_005444

Type: Tool

Proper Citation

Kismeth (RRID:SCR_005444)

Resource Information

URL: <http://katahdin.mssm.edu/kismeth/revpage.pl>

Proper Citation: Kismeth (RRID:SCR_005444)

Description: A web-based tool for bisulfite sequencing analysis that was designed to be used with plants, since it considers potential cytosine methylation in any sequence context (CG, CHG, and CHH). It provides a tool for the design of bisulfite primers as well as several tools for the analysis of the bisulfite sequencing results. Kismeth is not limited to data from plants, as it can be used with data from any species.

Abbreviations: Kismeth

Resource Type: analysis service resource, data analysis service, production service resource, service resource

Defining Citation: [PMID:18786255](#)

Keywords: plant, methylation, bisulfite sequencing, bio.tools

Availability: Free for academic use, Contact for commercial use

Resource Name: Kismeth

Resource ID: SCR_005444

Alternate IDs: biotools:kismeth, OMICS_00602

Alternate URLs: <https://bio.tools/kismeth>

Record Creation Time: 20220129T080230+0000

Record Last Update: 20260905T133130+0000

Ratings and Alerts

No rating or validation information has been found for Kismeth.

No alerts have been found for Kismeth.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 55 mentions in open access literature.

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

Li H, et al. (2023) Methionine biosynthesis enzyme MoMet2 is required for rice blast fungus pathogenicity by promoting virulence gene expression via reducing 5mC modification. PLoS genetics, 19(9), e1010927.

Majka M, et al. (2023) The chromatin determinants and Ph1 gene effect at wheat sites with contrasting recombination frequency. Journal of advanced research, 53, 75.

Liu ZW, et al. (2023) Depositing centromere repeats induces heritable intragenic heterochromatin establishment and spreading in Arabidopsis. Nucleic acids research, 51(12), 6039.

Lu Z, et al. (2022) The high-quality genome of pummelo provides insights into the tissue-specific regulation of citric acid and anthocyanin during domestication. Horticulture research, 9, uhac175.

Zhou Z, et al. (2022) Promoter DNA hypermethylation of TaGli-?-2.1 positively regulates gluten strength in bread wheat. Journal of advanced research, 36, 163.

Gui X, et al. (2022) Geminiviruses employ host DNA glycosylases to subvert DNA methylation-mediated defense. Nature communications, 13(1), 575.

Xu JH, et al. (2022) Loss of Function of the RRMF Domain in OsROS1a Causes Sterility in Rice (Oryza sativa L.). International journal of molecular sciences, 23(19).

Wang Z, et al. (2021) ARGONAUTE 2 increases rice susceptibility to rice black-streaked dwarf virus infection by epigenetically regulating HEXOKINASE 1 expression. Molecular plant pathology, 22(9), 1029.

Campo S, et al. (2021) A novel Transposable element-derived microRNA participates in plant immunity to rice blast disease. Plant biotechnology journal, 19(9), 1798.

Sigman MJ, et al. (2021) An siRNA-guided ARGONAUTE protein directs RNA polymerase V to initiate DNA methylation. Nature plants, 7(11), 1461.

Watanabe K, et al. (2021) Mastrevirus Rep and RepA Proteins Suppress de novo Transcriptional Gene Silencing. International journal of molecular sciences, 22(21).

Jiang J, et al. (2021) UVR8 interacts with de novo DNA methyltransferase and suppresses DNA methylation in Arabidopsis. *Nature plants*, 7(2), 184.

Han T, et al. (2021) An epigenetic basis of inbreeding depression in maize. *Science advances*, 7(35).

Guo W, et al. (2021) RNA-directed DNA methylation prevents rapid and heritable reversal of transposon silencing under heat stress in *Zea mays*. *PLoS genetics*, 17(6), e1009326.

Bai M, et al. (2021) KSN heterozygosity is associated with continuous flowering of *Rosa rugosa* Purple branch. *Horticulture research*, 8(1), 26.

Wu Y, et al. (2021) Functional Analysis of the "Green Revolution" Gene Photoperiod-1 and Its Selection Trends During Bread Wheat Breeding. *Frontiers in plant science*, 12, 745411.

Kuriyama K, et al. (2020) Disturbance of floral colour pattern by activation of an endogenous pararetrovirus, petunia vein clearing virus, in aged petunia plants. *The Plant journal : for cell and molecular biology*, 103(2), 497.

Rodríguez-Gandarilla MG, et al. (2020) Superinfection by PHYVV Alters the Recovery Process in PepGMV-Infected Pepper Plants. *Viruses*, 12(3).

Wang L, et al. (2020) A virus-encoded protein suppresses methylation of the viral genome through its interaction with AGO4 in the Cajal body. *eLife*, 9.

Liu J, et al. (2020) A copia-like retrotransposon insertion in the upstream region of the SHATTERPROOF1 gene, BnSHP1.A9, is associated with quantitative variation in pod shattering resistance in oilseed rape. *Journal of experimental botany*, 71(18), 5402.