

Resource Summary Report

Generated by [NIF](#) on Aug 18, 2026

BEAT

RRID:SCR_002387

Type: Tool

Proper Citation

BEAT (RRID:SCR_002387)

Resource Information

URL: <http://www.bioconductor.org/packages/devel/bioc/html/BEAT.html>

Proper Citation: BEAT (RRID:SCR_002387)

Description: Software that implements all bioinformatics steps required for the quantitative, high-resolution analysis of DNA methylation patterns from bisulfite sequencing data.

Synonyms: BS-Seq Epimutation Analysis Toolkit, BEAT - BS-Seq Epimutation Analysis Toolkit

Resource Type: software resource

Defining Citation: [PMID:24618468](#)

Keywords: standalone software, unix/linux, mac os x, windows, r, dna methylation, epigenetics, genetics, methyl-seq

Availability: GNU Lesser General Public License, v3 or greater

Resource Name: BEAT

Resource ID: SCR_002387

Alternate IDs: OMICS_03425

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260815T182215+0000

Ratings and Alerts

No rating or validation information has been found for BEAT.

No alerts have been found for BEAT.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 130 mentions in open access literature.

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

Dauphin B, et al. (2026) Chromosome-scale Genome Assembly of the Most Abundant Ectomycorrhizal Fungus Cenococcum Geophilum Reveals Massive TE Expansion and RIP Defense Mechanism. *Genome biology and evolution*, 18(2).

Kim S, et al. (2026) Tetraopes Milkweed Beetle Genomes Elucidate the Adaptive Basis of a Temperate Coevolutionary Radiation. *Molecular ecology resources*, 26(3), e70117.

Liu C, et al. (2026) The potential of methylation signal detection in eDNA toward functional ecological monitoring. *Communications biology*, 9(1).

Popescu B, et al. (2025) Multi-selective RAS(ON) Inhibition Targets Oncogenic RAS Mutations and Overcomes RAS/MAPK-Mediated Resistance to FLT3 and BCL2 Inhibitors in Acute Myeloid Leukemia. *bioRxiv : the preprint server for biology*.

Kim S, et al. (2025) Chromosome-level genome assembly of the white-spotted sawyer *Monochamus scutellatus* (Coleoptera: Cerambycidae). *Scientific data*, 12(1), 2009.

Ajonu CI, et al. (2025) Application of a high-throughput swarm-based deep neural network Algorithm reveals SPAG5 downregulation as a potential therapeutic target in adult AML. *Functional & integrative genomics*, 25(1), 8.

Li J, et al. (2025) Integrative analysis of epigenetic subtypes in acute myeloid Leukemia: A multi-center study combining machine learning for prognostic and therapeutic insights. *PloS one*, 20(5), e0324380.

Mohal JS, et al. (2025) High-Precision Hemodynamic and Echocardiographic Assessment of Pacing in Obstructive Hypertrophic Cardiomyopathy. *Pacing and clinical electrophysiology : PACE*, 48(10), 1138.

Bektas S, et al. (2025) An investigation of the specificity and vividness of autobiographical memories and future events produced in response to disgust-related cues among individuals with eating disorders. *Journal of eating disorders*, 13(1), 39.

McCluskey D, et al. (2025) IgA2+ B cells and IgA2 anti-dsDNA antibodies are selectively targeted by belimumab after rituximab therapy in systemic lupus erythematosus. *Cell reports. Medicine*, 6(8), 102247.

Passarotto A, et al. (2025) Experimental noise and light pollution alter prey detection in a nocturnal bird of prey. *The Journal of animal ecology*, 94(7), 1398.

Muniyandi M, et al. (2025) Comparing cost-effectiveness of short-course regimens for drug-resistant tuberculosis treatment in India. *International journal of technology assessment in health care*, 41(1), e48.

Beusch CM, et al. (2025) A scalable proteogenomic framework for dissecting phospho-signaling pathways in primary immune cells. *bioRxiv : the preprint server for biology*.

Choudhary MK, et al. (2025) Impact of aging on cardiovascular dynamics and heart rate variability during passive head-up tilt. *Physiological reports*, 13(14), e70477.

Peng JQ, et al. (2025) Targeted M-Channel Activation in the Left Stellate Ganglion Protects Against Ischemia-Induced Ventricular Arrhythmias in Canines. *Journal of the American Heart Association*, 14(6), e039059.

Lytvyn Y, et al. (2025) Mechanistic evaluation of ertugliflozin in patients with type 2 diabetes and heart failure. *Physiological reports*, 13(7), e70275.

Leeming D, et al. (2025) Infant feeding for women with an eating disorder: An interpretative phenomenological analysis. *Maternal & child nutrition*, 21(1), e13710.

Sayegh ALC, et al. (2025) Peripheral chemoreflex restrains skeletal muscle blood flow during exercise in participants with treated hypertension. *The Journal of physiology*, 603(18), 5091.

Pan X, et al. (2025) Causal relationship between breast cancer and acute myeloid leukemia based on two-sample bidirectional Mendelian randomization and transcriptome overlap analysis. *Discover oncology*, 16(1), 492.

Cadefau-Fabregat M, et al. (2025) Mutant CEBPA promotes tolerance to inflammatory stress through deficient AP-1 activation. *Nature communications*, 16(1), 3492.