

Resource Summary Report

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ddCt

RRID:SCR_003396

Type: Tool

Proper Citation

ddCt (RRID:SCR_003396)

Resource Information

URL: <http://www.bioconductor.org/packages/release/bioc/html/ddCt.html>

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Description: Software package providing an approximation method to determine relative gene expression with quantitative real-time PCR (qRT-PCR) experiments. It requires no standard curve for each primer-target pair, therefore reducing the working load and yet returning accurate enough results as long as the assumptions of the amplification efficiency hold. The package implements a pipeline to collect, analyze and visualize qRT-PCR results, for example those from TaqMan SDM software, mainly using the ddCt method. The pipeline can be either invoked by a script in command-line or through the API consisting of S4-Classes, methods and functions.

Abbreviations: ddCt

Synonyms: Delta-Delta-Ct

Resource Type: software resource

Keywords: differential expression, gene expression, microtitre plate assay, q-pcr

Funding:

Availability: GNU Lesser General Public License, v3

Resource Name: ddCt

Resource ID: SCR_003396

Alternate IDs: OMICS_02312

Record Creation Time: 20220129T080218+0000

Record Last Update: 20250420T014142+0000

Ratings and Alerts

No rating or validation information has been found for ddCt.

No alerts have been found for ddCt.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 314 mentions in open access literature.

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

Tomczak K, et al. (2025) Plasma DNA Methylation-Based Biomarkers for MPNST Detection in Patients With Neurofibromatosis Type 1. *Molecular carcinogenesis*, 64(1), 44.

Sinkó R, et al. (2025) Novel Biomarkers Reveal Mismatch Between Tissue and Serum Thyroid Hormone Status in Amiodarone-Induced Hyperthyroidism. *The Journal of clinical endocrinology and metabolism*, 110(2), 374.

Hernández-Blanco C, et al. (2025) The phase I RELEASE clinical trial to evaluate the safety of NK cells in COVID-19. *iScience*, 28(2), 111698.

Aksoy-Ozer ZB, et al. (2024) The Role of Zinc on Liver Fibrosis by Modulating ZIP14 Expression Throughout Epigenetic Regulatory Mechanisms. *Biological trace element research*, 202(11), 5094.

Xue M, et al. (2024) Increased cellular protein modification by methylglyoxal activates endoplasmic reticulum-based sensors of the unfolded protein response. *Redox biology*, 69, 103025.

Nhu NTQ, et al. (2024) Flagellar switch inverted repeat impacts flagellar invertibility and varies *Clostridioides difficile* RT027/MLST1 virulence. *bioRxiv : the preprint server for biology*.

Sasivilomrattana T, et al. (2024) Upregulation of HPV16E1 and E7 expression and FOXO3a mRNA downregulation in high-grade cervical neoplasia. *PeerJ*, 12, e18601.

Fan G, et al. (2024) Paternal preconception donepezil exposure enhances learning in offspring. *Behavioral and brain functions : BBF*, 20(1), 25.

Kim G, et al. (2024) Tunable translation-level CRISPR interference by dCas13 and engineered gRNA in bacteria. *Nature communications*, 15(1), 5319.

Mendes Felgueira CA, et al. (2024) Growth-phase-dependent control of rRNA synthesis in *Saccharomyces cerevisiae*. *mSphere*, 9(10), e0049324.

Frohwitter J, et al. (2024) A new *Zymomonas mobilis* platform strain for the efficient production of chemicals. *Microbial cell factories*, 23(1), 143.

Ferreira JCCG, et al. (2024) Postnatal Zika virus infection leads to morphological and cellular alterations within the neurogenic niche. *Disease models & mechanisms*, 17(2).

Brown EJ, et al. (2024) PRMT5 inhibition shows in vitro efficacy against H3K27M-altered diffuse midline glioma, but does not extend survival in vivo. *Scientific reports*, 14(1), 328.

Reboussin É, et al. (2024) Evaluation of Rho kinase inhibitor effects on neuroprotection and neuroinflammation in an ex-vivo retinal explant model. *Acta neuropathologica communications*, 12(1), 150.

Kobrossy L, et al. (2024) Unraveling MLL1-fusion leukemia: Epigenetic revelations from an iPSC cell point mutation. *The Journal of biological chemistry*, 300(11), 107825.

Klimaj SD, et al. (2024) Seoul orthohantavirus evades innate immune activation by reservoir endothelial cells. *PLoS pathogens*, 20(11), e1012728.

Smith RC, et al. (2024) Relationship of cognitive measures to mRNA levels in lymphocytes from patients with schizophrenia and controls. *Schizophrenia research. Cognition*, 38, 100321.

Arshad U, et al. (2023) Dose-dependent effects of rumen-protected choline on hepatic metabolism during induction of fatty liver in dry pregnant dairy cows. *PloS one*, 18(10), e0290562.

Khasabova IA, et al. (2023) Exosome-associated lysophosphatidic acid signaling contributes to cancer pain. *Pain*, 164(12), 2684.

Szymański T, et al. (2023) Hyaluronic acid and multiwalled carbon nanotubes as bioink additives for cartilage tissue engineering. *Scientific reports*, 13(1), 646.