Resource Summary Report

Generated by RRID on Sep 10, 2026

HTqPCR

RRID:SCR_003375
Type: Tool

Proper Citation

HTqPCR (RRID:SCR_003375)

Resource Information

URL: http://www.bioconductor.org/packages/release/bioc/html/HTqPCR.html

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Description: Software package for the analysis of Ct values from high throughput quantitative real-time PCR (qPCR) assays across multiple conditions or replicates. The input data can be from spatially-defined formats such ABI TaqMan Low Density Arrays or OpenArray; LightCycler from Roche Applied Science; the CFX plates from Bio-Rad Laboratories; conventional 96- or 384-well plates; or microfluidic devices such as the Dynamic Arrays from Fluidigm Corporation. HTqPCR handles data loading, quality assessment, normalization, visualization and parametric or non-parametric testing for statistical significance in Ct values between features (e.g. genes, microRNAs).

Abbreviations: HTqPCR

Synonyms: HTqPCR - Automated analysis of high-throughput qPCR data

Resource Type: data processing software, software application, software resource

Defining Citation: PMID:19808880

Keywords: data import, differential expression, gene expression, microtitre plate assay, multiple comparison, preprocessing, quality control, visualization, qpcr, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: HTqPCR

Resource ID: SCR_003375

Alternate IDs: biotools:htqpcr, OMICS_02314

Alternate URLs: https://bio.tools/htqpcr

Record Creation Time: 20220129T080218+0000

Record Last Update: 20260905T133039+0000

Ratings and Alerts

No rating or validation information has been found for HTqPCR.

No alerts have been found for HTqPCR.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 74 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Davidovich C, et al. (2025) Occurrence of "under-the-radar" antibiotic resistance in anthropogenically affected produce. The ISME journal, 19(1).

Chelladurai M, et al. (2025) A heterodimer of hemoglobin identifies theranostic targets on brain-metastasizing melanoma cells. International journal of cancer, 157(4), 773.

Winski G, et al. (2025) MicroRNA-15a-5p mediates abdominal aortic aneurysm progression and serves as a potential diagnostic and prognostic circulating biomarker. Communications medicine, 5(1), 218.

Laczmanska I, et al. (2024) Alterations in the expression of homologous recombination repair (HRR) genes in breast cancer tissues considering germline BRCA1/2 mutation status. Breast cancer research and treatment, 208(3), 501.

Brown PM, et al. (2024) Adenosine metabolic signature in circulating CD4+ T cells predicts remission in rheumatoid arthritis. RMD open, 10(1).

Ordaz A, et al. (2023) Paraspinal muscle gene expression across different aetiologies in individuals undergoing surgery for lumbar spine pathology. European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society, 32(4), 1123.

Cioanca AV, et al. (2023) Multiomic integration reveals neuronal-extracellular vesicle coordination of gliotic responses in degeneration. Journal of extracellular vesicles, 12(12), e12393.

Besharat ZM, et al. (2023) Circulating miR-26b-5p and miR-451a as diagnostic biomarkers in medullary thyroid carcinoma patients. Journal of endocrinological investigation, 46(12), 2583.

Kutyna MM, et al. (2023) Solute Carrier Family 29A1 Mediates In Vitro Resistance to Azacitidine in Acute Myeloid Leukemia Cell Lines. International journal of molecular sciences, 24(4).

Ge C, et al. (2022) Hepatocyte phosphatase DUSP22 mitigates NASH-HCC progression by targeting FAK. Nature communications, 13(1), 5945.

Czapiewski R, et al. (2022) Genomic loci mispositioning in Tmem120a knockout mice yields latent lipodystrophy. Nature communications, 13(1), 321.

Bourke NM, et al. (2022) Spatiotemporal regulation of human IFN-?? and innate immunity in the female reproductive tract. JCI insight, 7(18).

Flegel J, et al. (2022) The Highly Potent AhR Agonist Picoberin Modulates Hh-Dependent Osteoblast Differentiation. Journal of medicinal chemistry, 65(24), 16268.

Piotrowski I, et al. (2021) miRNAs as Biomarkers for Diagnosing and Predicting Survival of Head and Neck Squamous Cell Carcinoma Patients. Cancers, 13(16).

McMurray HR, et al. (2021) Gene network modeling via TopNet reveals functional dependencies between diverse tumor-critical mediator genes. Cell reports, 37(12), 110136.

Ramorola BR, et al. (2021) Modulation of Cellular MicroRNA by HIV-1 in Burkitt Lymphoma Cells-A Pathway to Promoting Oncogenesis. Genes, 12(9).

Shin S, et al. (2021) Urinary exosome microRNA signatures as a noninvasive prognostic biomarker for prostate cancer. NPJ genomic medicine, 6(1), 45.

Vlacil AK, et al. (2020) Identification of microRNAs involved in NOD-dependent induction of pro-inflammatory genes in pulmonary endothelial cells. PloS one, 15(4), e0228764.

El-Kehdy H, et al. (2020) Inflammation Differentially Modulates the Biological Features of Adult Derived Human Liver Stem/Progenitor Cells. Cells, 9(7).

Laugier L, et al. (2020) miRNAs may play a major role in the control of gene expression in key pathobiological processes in Chagas disease cardiomyopathy. PLoS neglected tropical diseases, 14(12), e0008889.