

Resource Summary Report

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[Fastqtl](#)

RRID:SCR_016093

Type: Tool

Proper Citation

Fastqtl (RRID:SCR_016093)

Resource Information

URL: <http://fastqtl.sourceforge.net/>

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Description: Software for mapping of molecular phenotypes that implements a new permutation scheme to accurately and rapidly correct for multiple-testing at both the genotype and phenotype levels in large-scale datasets. It is used to discover quantitative trait loci, multi-dimensional genomic datasets combining DNA-seq and ChIP-/RNA-seq.

Abbreviations: Fastqtl

Synonyms: Fastqtl: Fast quantitative trait loci

Resource Type: software toolkit, software resource

Defining Citation: [PMID:26708335](#)

Keywords: molecular, phenotype, multiply, testing, genotype, correct, genomic dataset, trait, loci, cis, quantitative, multi dimensional

Funding: European Commission SYSCOL FP7;
European Research Council ;
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Helse Sør Øst

Availability: Free, Available for download

Resource Name: Fastqtl

Resource ID: SCR_016093

Alternate IDs: OMICS_10934

Alternate URLs: <https://sources.debian.org/src/fastqtl/>

Record Creation Time: 20220129T080328+0000

Record Last Update: 20260803T040714+0000

Ratings and Alerts

No rating or validation information has been found for Fastqtl.

No alerts have been found for Fastqtl.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 127 mentions in open access literature.

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

Esmaeili M, et al. (2026) Distinct regulatory elements of SLC6A14 expression contribute to modification of cystic fibrosis phenotypes. Human genetics, 145(1), 8.

Zhang ZE, et al. (2025) Efficient count-based models improve power and robustness for large-scale single-cell eQTL mapping. medRxiv : the preprint server for health sciences.

Zhao Y, et al. (2025) The origin and evolution of cultivated rice and genomic signatures of heterosis for yield traits in super-hybrid rice. BMC biology, 23(1), 153.

Castel SE, et al. (2025) A map of blood regulatory variation in South Africans enables GWAS interpretation. Nature genetics, 57(7), 1628.

Xiao R, et al. (2025) Integrative genomic analysis reveals causal relationships between breast mammary tissue gene expression and breast cancer risk using multi-method Mendelian randomization. Discover oncology, 16(1), 2133.

Zhao K, et al. (2025) Endogenous fine-mapping and prioritization of functional regulatory elements in complex genetic loci. Cell genomics, 100982.

Oliva M, et al. (2025) Integration of GWAS, QTLs and keratinocyte functional assays reveals molecular mechanisms of atopic dermatitis. Nature communications, 16(1), 3101.

Li X, et al. (2025) Integrating genetic regulation and schizophrenia-specific splicing quantitative expression with GWAS prioritizes novel risk genes for schizophrenia. Translational psychiatry, 15(1), 379.

Bian L, et al. (2025) Single-cell eQTL mapping reveals cell-type-specific genes associated with the risk of gastric cancer. *Cell genomics*, 5(4), 100812.

Fang S, et al. (2025) The impact of haplotypes derived from Chinese pigs on genetic variation and economic traits in the Duroc breed. *Genetics, selection, evolution : GSE*, 57(1), 58.

Yu S, et al. (2025) A gene expression atlas of *Nicotiana tabacum* across various tissues at transcript resolution. *Frontiers in plant science*, 16, 1500654.

Xu Z, et al. (2025) Impact of HMGA1 on tumorigenesis, prognosis and immune microenvironment in HNSCC: a multi-omics study. *NPJ precision oncology*, 9(1), 269.

Song X, et al. (2025) Systematically identification of survival-associated eQTLs in a Japanese kidney cancer cohort. *PLoS genetics*, 21(7), e1011770.

Tian W, et al. (2025) Genetic transcriptional regulation profiling of cartilage reveals pathogenesis of osteoarthritis. *EBioMedicine*, 117, 105821.

Niu ??? Q, et al. (2025) Comprehensive Multi-omics Analysis of Regulatory Variants for Body Weight in Cattle. *Genomics, proteomics & bioinformatics*, 23(4).

Zhang T, et al. (2025) Multi-omics dissection of the genetic regulation underlying fatty acid composition in cattle. *Genome biology*, 26(1), 432.

Xu H, et al. (2025) Integrating genetic and transcriptomic data to identify genes underlying obesity risk loci. *International journal of obesity* (2005), 49(11), 2346.

Miliotis C, et al. (2024) Determinants of gastric cancer immune escape identified from non-coding immune-landscape quantitative trait loci. *Nature communications*, 15(1), 4319.

Aschenbrenner D, et al. (2024) An isoform quantitative trait locus in SBNO2 links genetic susceptibility to Crohn's disease with defective antimicrobial activity. *Nature communications*, 15(1), 4529.

Raabe FJ, et al. (2024) Polygenic risk for schizophrenia converges on alternative polyadenylation as molecular mechanism underlying synaptic impairment. *bioRxiv : the preprint server for biology*.