Resource Summary Report

Generated by SPARC SAWG on Sep 16, 2026

FastQC

RRID:SCR_014583
Type: Tool

Proper Citation

FastQC (RRID:SCR_014583)

Resource Information

URL: http://www.bioinformatics.babraham.ac.uk/projects/fastqc/

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Description: Quality control software that perform checks on raw sequence data coming from high throughput sequencing pipelines. This software also provides a modular set of analyses which can give a quick impression of the quality of the data prior to further analysis.

Synonyms: FastQC v0.11.5

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

Keywords: quality control, sequence data, sequencing, analysis, data quality, pipeline, raw sequence data, modular set, bio.tools

Availability: Open source, Available for download

Resource Name: FastQC

Resource ID: SCR_014583

Alternate IDs: biotools:fastqc, SCR_005539, OMICS_01043

Alternate URLs: https://omictools.com/fastqc-tool, https://bio.tools/fastqc, https://sources.debian.org/src/fastqc/

License: GPL v3

Record Creation Time: 20220129T080321+0000

Record Last Update: 20260912T195818+0000

Ratings and Alerts

- Used for sequencing service by the Human Islet Research Network community. Contact(s): Golnaz Vahedi, Klaus Kaestner - Human Islets Research Network https://hirnetwork.org/

No alerts have been found for FastQC.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 19827 mentions in open access literature.

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

Barajas JM, et al. (2026) Tandem Duplications in UBTF Create XPO1-Dependent Nuclear Export Signals that Reveal a Leukemic Therapeutic Dependency. Blood cancer discovery, 7(1), 51.

Li M, et al. (2026) SAICAR Drives T Regulatory Cell Differentiation and FOXP3 Maintenance to Promote Immunotherapy Resistance. Cancer research, 86(9), 2218.

Hajka D, et al. (2026) Bidirectional Communication Between Astrocytes and Neurons via Extracellular Vesicles: A Multi-Omics Approach. Journal of neurochemistry, 170(2), e70373.

Williams EC, et al. (2026) Expression of endogenous retroviral elements is associated with extracellular matrix remodeling in prostate cancer. Mobile DNA, 17(1), 1.

Jiang Y, et al. (2026) HDAC6 orchestrates metastatic and immunosuppressive programs in small cell lung cancer through S100A2-TGF-?/SMAD and CSF1R signaling. Molecular cancer, 25(1), 33.

Gatz SA, et al. (2026) Phase I/II Study of the PARP Inhibitor Olaparib and Irinotecan in Children and Young Adults with Recurrent/Refractory Malignancies: Arm D of the AcSé-ESMART Trial. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(7), 1210.

Gadad SS, et al. (2026) X-linked cancer-associated polypeptide (XCP) from lncRNA1456 modulates PHF8 histone demethylase activity to regulate the epigenome, gene expression, and cellular pathways in breast cancer. Oncogene, 45(17), 1557.

Wang Z, et al. (2026) Gemella morbillorum Promotes Colorectal Carcinogenesis: LPBDCP-Mediated Invasion Activates Ras Signaling and Destabilizes p53. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(34), e17245.

Alvaro-Espinosa L, et al. (2026) MIF-Induced CD74+ Microglia and Macrophages Promote Progression of Brain Metastasis and Are Clinically Relevant across Central Nervous

System Disorders. Cancer research, 86(13), 3249.

Wang C, et al. (2026) A Deep Learning-Driven Framework Integrating Organoid-Based Functional Validation Identifies Universal Neoantigens from Recurrent Glioma Mutations. Cancer research, 86(12), 3074.

Thompson JM, et al. (2026) Nuclei isolation from rat and cow white adipose tissues for single-nucleus RNA sequencing; rat WAT remains a challenge. Frontiers in physiology, 17, 1741037.

Wang CY, et al. (2026) Heart failure pleural fluid impairs endothelial barrier through miR 501-3p mediated ZO 1 remodeling. iScience, 29(5), 115549.

Fernandez Garcia M, et al. (2026) Transcriptomic and phenotypic convergence of neurodevelopmental disorder risk genes in vitro and in vivo. Nature neuroscience, 29(5), 1079.

Chen F, et al. (2026) q orA shapes organ-specific adaptation of ST59-MRSA via balancing immune evasion and metabolic trade-off. iScience, 29(7), 116272.

Werner L, et al. (2026) Antibiotic disruption of the gut microbiome triggers IBD-like proteolytic activity. Cell reports, 45(6), 117478.

Kumar H, et al. (2026) FusionTarget: Computational framework for drug repurposing against modeled fusion protein structures from genomic breakpoints. iScience, 29(6), 116076.

Lucioli A, et al. (2026) Imprecise Cas12a/ssODN-Mediated Editing of eIF4E1 Confers Dominant-Negative Resistance to Potato Virus Y in Solanum tuberosum. Molecular plant pathology, 27(7), e70305.

Lawas MM, et al. (2026) The importance of HPV testing in oropharyngeal cancer in two US populations. Neoplasia (New York, N.Y.), 79, 101323.

Farag JA, et al. (2026) Topical vascular organoid therapy promotes microvascular regeneration and functional recovery in porcine ischemic cardiomyopathy. Stem cell reports, 21(7), 102999.

Wang Z, et al. (2026) Spatial multi-omics unveils the monoclonal origin, neuroendocrine plasticity, and microenvironment niches in combined small-cell lung cancer. Cell reports. Medicine, 7(4), 102741.