

Resource Summary Report

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fastp

RRID:SCR_016962

Type: Tool

Proper Citation

fastp (RRID:SCR_016962)

Resource Information

URL: <https://github.com/OpenGene/fastp>

Proper Citation: fastp (RRID:SCR_016962)

Description: Software tool to provide fast all in one preprocessing for FastQ files. Developed in C++ with multithreading supported to afford high performance. Performs quality control, adapter trimming, quality filtering, per read quality pruning and many other operations with a single scan of the FASTQ data.

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

Defining Citation: [PMID:30423086](https://pubmed.ncbi.nlm.nih.gov/30423086/)

Keywords: fast, all in one, preprocessing, FastQ, file, data, read, quality, control, adapter, trimming, filtering

Funding: Special Funds for Future Industries of Shenzhen ; National Science Foundation of China

Availability: Free, Available for download, Freely available

Resource Name: fastp

Resource ID: SCR_016962

License: MIT License

Record Creation Time: 20220129T080332+0000

Record Last Update: 20250423T060938+0000

Ratings and Alerts

No rating or validation information has been found for fastp.

No alerts have been found for fastp.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 732 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Wen J, et al. (2025) Complete Mitochondrial Genome of King Threadfin, *Polydactylus macrochir* (Günther, 1867): Genome Characterization and Phylogenetic Analysis. *Genes*, 16(1).

Qin Q, et al. (2025) Microbial Composition Change and Heavy Metal Accumulation in Response to Organic Fertilization Reduction in Greenhouse Soil. *Microorganisms*, 13(1).

Yuan Y, et al. (2025) Dietary Taurine Regulation of the Intestinal Microbiome in Chinese Stripe-Necked Turtle (*Mauremys sinensis*). *International journal of molecular sciences*, 26(2).

Yin W, et al. (2025) Inhibited peroxidase activity of peroxiredoxin 1 by palmitic acid exacerbates nonalcoholic steatohepatitis in male mice. *Nature communications*, 16(1), 598.

Luo X, et al. (2025) Physiological and transcriptomic analysis of the effect of overexpression of the *NTPIP2;4* gene on drought tolerance in tobacco. *BMC plant biology*, 25(1), 63.

Zhang X, et al. (2025) Acid-responsive CST@NPs enhanced diabetic wound healing through rescuing mitochondrial dysfunction. *Bioactive materials*, 44, 269.

Wang X, et al. (2025) Spatial and Single-Cell Analyses Reveal Heterogeneity of DNAM-1 Receptor-Ligand Interactions That Instructs Intratumoral T-cell Activity. *Cancer research*, 85(2), 277.

Tanaka R, et al. (2025) Improved genome sequence of *Geobacillus kaustophilus* GBlys, a lysogenic strain by lysogenic phage phiOH2. *Microbiology resource announcements*, 14(1), e0090624.

Li Y, et al. (2025) Epitranscriptome profiles reveal participation of the RNA methyltransferase

gene OsMTA1 in rice seed germination and salt stress response. *BMC plant biology*, 25(1), 115.

Zhou Z, et al. (2025) The Positive Regulatory Effect of DBT on Lipid Metabolism in Postpartum Dairy Cows. *Metabolites*, 15(1).

Ofosu Appiah F, et al. (2025) Emergence of Carbapenem-Resistant blaPOM-1 Harboring *Pseudomonas otitidis* Isolated from River Water in Ghana. *Antibiotics (Basel, Switzerland)*, 14(1).

Shi M, et al. (2025) Multi-omics mechanical analysis of gut microbiota, carboxylic acids, and cardiac gene expression interaction triggering diabetic cardiomyopathy. *mSystems*, 10(1), e0145024.

Li B, et al. (2025) A practical distribution pattern of α -SMA-positive carcinoma associated fibroblasts indicates poor prognosis of patients with pancreatic ductal adenocarcinoma. *Translational oncology*, 52, 102282.

Wei Y, et al. (2025) Effects of oil pollution on the growth and rhizosphere microbial community of *Calamagrostis epigejos*. *Scientific reports*, 15(1), 1278.

Zeng J, et al. (2025) Protocol for genetic analysis of population-scale ultra-low-depth sequencing data. *STAR protocols*, 6(1), 103579.

Zhou H, et al. (2025) Ionizing radiation-induced disruption of Rela-Bclaf1-spliceosome regulatory axis in primary spermatocytes causing spermatogenesis dysfunction. *Cell communication and signaling : CCS*, 23(1), 58.

Tao S, et al. (2025) Effect of Post-transplant Dietary Restriction on Hematopoietic Reconstitution and Maintenance of Reconstitution Capacity of Hematopoietic Stem Cells. *Stem cell reviews and reports*, 21(1), 80.

Bao Z, et al. (2025) Microbiome dynamics and functional profiles in deep-sea wood-fall micro-ecosystem: insights into drive pattern of community assembly, biogeochemical processes, and lignocellulose degradation. *Applied and environmental microbiology*, 91(1), e0216524.

Zeng Y, et al. (2025) Mapping the chromothripsis landscape in urothelial carcinoma unravels great intratumoral and intertumoral heterogeneity. *iScience*, 28(1), 111510.

Ueda C, et al. (2025) Endothelial activating transcription factor 3 promotes angiogenesis and vascular repair in the mouse retina. *iScience*, 28(1), 111516.