

Resource Summary Report

Generated by [ASWG](#) on Aug 26, 2026

[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 application, software resource

Defining Citation: [PMID:30423086](#)

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

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

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: 20260821T194113+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 1745 mentions in open access literature.

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

Li Z, et al. (2026) Mouse chymase mast cell protease-4 facilitates blood feeding of *Aedes aegypti* (Diptera: Culicidae) mosquitoes. *Journal of medical entomology*, 63(1).

Du S, et al. (2026) Characterization and genomic analysis of DSF2: a novel lytic phage infecting multidrug-resistant *Shigella*. *Frontiers in microbiology*, 17, 1740847.

Zhang J, et al. (2026) Gut microbiota dysbiosis drives depression-like behavior in adolescent rats via lysine-regulated mTOR autophagy pathway. *Translational psychiatry*, 16(1).

Chen C, et al. (2026) Consecutive monoculture of sweet potato reduces yield due to deteriorated soil health and disrupted nutrient cycling. *Frontiers in microbiology*, 17, 1747390.

Wei D, et al. (2026) The crayfish-rice coculture model contributes to regulating the soil fertility of rice fields and maintaining the stability of soil microbial community composition and function. *Advanced biotechnology*, 4(2).

Sun J, et al. (2026) A chromosome-level genome assembly of *Rhizopus stolonifer* associated with passion fruit flower rot. *Frontiers in microbiology*, 17, 1757919.

Deng B, et al. (2026) Spatiotemporal dynamics of culturable endophytic microorganisms in *Peucedanum praeruptorum* Dunn and screening for plant growth-promoting strains. *Frontiers in plant science*, 17, 1811872.

Kartashov MY, et al. (2026) Expanding diversity of tick-borne phleboviruses (*Phlebovirus mukawaense*, *Mudanjiang phlebovirus*, *Gomselga Virus*, and *Onega tick phlebovirus*) in Russia. *PloS one*, 21(6), e0349564.

Orcel E, et al. (2026) UMI-guided single locus sequence typing method for phylotyping *Cutibacterium acnes* from skin samples. *Frontiers in cellular and infection microbiology*, 16, 1807759.

Du H, et al. (2026) Niacin promotes motor function recovery after spinal cord injury via Hcar2-dependent microglia immunometabolic regulation. *Clinical and translational medicine*, 16(5), e70683.

Luo C, et al. (2026) Identification of *Campylobacter coli* as a key pathogen in Jinhua piglet diarrhea and its the probiotic control by *Enterococcus faecium*. *BMC microbiology*, 26(1).

Li J, et al. (2026) Ability of the Chinese herbal residue to alleviate short-distance transportation stress in sheep through the remodeling of the rumen microbiome-metabolism axis. *Journal of animal science and biotechnology*, 17(1).

Yuan G, et al. (2026) Shading affects the nitrogen cycling process and plant nitrogen uptake by altering the rhizosphere microbial community. *Frontiers in plant science*, 17, 1780344.

Chu D, et al. (2026) Diet-Driven Divergence in Gut Microbiota Variation Between Two Sympatric Gerbil Species. *Ecology and evolution*, 16(4), e73367.

Naitchede LHS, et al. (2026) Microbial community characterization in semi-hydroponic systems of Starbor kale (*Brassica oleracea* L.) grown under normal gravity and simulated microgravity. *Current research in microbial sciences*, 10, 100592.

Xu Y, et al. (2026) The complete chloroplast genome sequence of *Thaumatococcus* *bipinnatifidum*. *Mitochondrial DNA. Part B, Resources*, 11(1), 150.

Yang Q, et al. (2026) Molecular mechanism of resistance to lonafarnib conferred by mutations in the cysteine-rich region of respiratory syncytial virus fusion glycoprotein and discovery of a lonafarnib-derived antiviral PROTAC. *Journal of virology*, 100(1), e0148725.

Ali H, et al. (2026) Seasonal shifts in vegetation, soil properties, and microbial communities in Western Himalayan forests. *Environmental microbiome*, 21(1), 22.

Lorenzo K, et al. (2026) Redundant cytokines license IL-1-driven neutrophil inflammation through MEK/ERK convergence. *bioRxiv : the preprint server for biology*.

Li P, et al. (2026) Inc015013-CsMYB30-CsJAZ4/6 Module Co-Regulates JA Synthesis and Enhances Cold Hardiness in Tea Plants. *International journal of molecular sciences*, 27(11).