

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

Defining Citation: [PMID: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: 20260729T044425+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 1070 mentions in open access literature.

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

Miglierina E, et al. (2026) DIS3 licenses B cells for plasma cell differentiation in humans. Cellular & molecular immunology, 23(1), 31.

Li X, et al. (2026) Coinfection with fowl adenovirus serotypes 1 and 4 (FAdV-1 and -4) enhances FAdV-4 replication through FAdV-1-mediated upregulation of HSPA2 expression. Virulence, 17(1), 2605751.

Ma Y, et al. (2026) Lactobacillus rhamnosus and Xylo-oligosaccharides improve meat quality and modulate the microbiota composition of Magang geese aged 22-50 days. Poultry science, 105(1), 106090.

Zhang B, et al. (2026) Human papillomavirus E7 inhibits immune responses in keratinocytes by activating HTRA1-mediated mitophagy. International journal of molecular medicine, 57(1).

Devapatla P, et al. (2026) Multi-Target Effects of Novel Synthetic Indanedione-Based Spirotransdicalinol Compound 4I in Autosomal Dominant Polycystic Kidney Disease. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 40(1), e71409.

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.

Yang W, et al. (2026) Multi-omics reveals co-regulation of hepatic bile acid metabolism in laying hens by host genetics and the cecal Anaerostipes. Poultry science, 105(3), 106388.

Grzejda D, et al. (2025) Pumilio differentially binds to mRNA 3' UTR isoforms to regulate localization of synaptic proteins. EMBO reports, 26(7), 1792.

Chen XX, et al. (2025) Microbial dysbiosis with tryptophan metabolites alteration in lower respiratory tract is associated with clinical responses to anti-PD-1 immunotherapy in advanced non-small cell lung cancer. Cancer immunology, immunotherapy : CII, 74(4), 140.

- Zhu Z, et al. (2025) Dynamic profiling of Cell-free DNA fragmentation uncovers postprandial metabolic and immune alterations. *Human genomics*, 19(1), 27.
- Lin X, et al. (2025) Natural-selected plastics biodegradation species and enzymes in landfills. *PNAS nexus*, 4(3), pgaf066.
- Zhu S, et al. (2025) Complex Probiotics Relieve Constipation Through Regulation of the Intestinal Microbiota in Kittens. *Microorganisms*, 13(3).
- Mao C, et al. (2025) Comprehensive characterization of lncRNA N6-methyladenosine modification dynamics throughout bovine skeletal muscle development. *Journal of animal science and biotechnology*, 16(1), 36.
- 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).
- Shi M, et al. (2025) Salt stress alters the selectivity of mature pecan for the rhizosphere community and its associated functional traits. *Frontiers in plant science*, 16, 1473473.
- Jia Y, et al. (2025) Integrated metabolomics and metagenomics reveal plant-microbe interactions driving aroma differentiation in flue-cured tobacco leaves. *Frontiers in plant science*, 16, 1588888.
- You Y, et al. (2025) Ecological effects of water and fertilizer addition on poplar-planting soil. *mSystems*, 10(7), e0050125.
- 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.