

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>

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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 processing software, data analysis 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: 20260728T043523+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 [SPARC SAWG](#) .

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.

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.

Qi L, et al. (2025) Evaluation of the genetic diversity and population structure of 5 pheasant breeds in Shanghai. Poultry science, 104(2), 104819.

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).

Towhid ST, et al. (2025) Draft whole-genome sequence of *Enterococcus faecium* isolate from a clinical sample from Dhaka, Bangladesh. *Microbiology resource announcements*, 14(2), e0119524.

Hirayama M, et al. (2025) A first-in-human clinical study of an allogenic iPSC-derived corneal endothelial cell substitute transplantation for bullous keratopathy. *Cell reports. Medicine*, 6(1), 101847.

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.

Hu W, et al. (2025) Mixotrophic cyanobacteria are critical active diazotrophs in polychlorinated biphenyl-contaminated paddy soil. *ISME communications*, 5(1), ycae160.

Venegas JA, et al. (2025) Divergent PTEN-p53 interaction upon DNA damage in a human thyroid organoid model with germline PTEN mutations. *Endocrine-related cancer*, 32(4).

Zhao Z, et al. (2025) Chemically defined and xeno-free media enables the derivation of human extended pluripotent stem cell lines from discarded blastocysts with a high efficiency. *Cell & bioscience*, 15(1), 72.

Wang X, et al. (2025) Transcriptomic profiles reveal hormonal regulation of sugar-induced stolon initiation in potato. *Scientific reports*, 15(1), 19122.

Liu WC, et al. (2025) Inhibition of tumor-intrinsic NAT10 enhances antitumor immunity by triggering type I interferon response via MYC/CDK2/DNMT1 pathway. *Nature communications*, 16(1), 5154.