

Resource Summary Report

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SOAPnuke

RRID:SCR_015025

Type: Tool

Proper Citation

SOAPnuke (RRID:SCR_015025)

Resource Information

URL: <https://github.com/BGI-flexlab/SOAPnuke>

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Description: Multi-threaded software for rapid quality control and preprocessing of high throughput sequencing data specified for different experiments. It consists of four modules that speed up the report on statistics graphs of raw datasets, preprocessed datasets and preprocessing status.

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

Keywords: sequence data, fastq, dge dataset, rna, metagenomics, bio.tools

Availability: Open Source, Free

Resource Name: SOAPnuke

Resource ID: SCR_015025

Alternate IDs: biotools:soapnuke

Alternate URLs: <https://bio.tools/soapnuke>

License: GPLv3

Record Creation Time: 20220129T080323+0000

Record Last Update: 20260905T132753+0000

Ratings and Alerts

No rating or validation information has been found for SOAPnuke.

No alerts have been found for SOAPnuke.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1698 mentions in open access literature.

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

Ortega-Álvarez D, et al. (2026) Discovery and Evaluation of Biomarkers for Triple-Negative Breast Cancer Subtypes Uncovers Patient Stratification and Targeted Therapeutic Strategies. *Cancer research*, 86(10), 2360.

Liu H, et al. (2026) Long-term outcomes by clinical and molecular risk stratification in patients with medulloblastoma receiving risk-adapted therapy. *Med (New York, N.Y.)*, 7(5), 101076.

Wang S, et al. (2026) The Role of Circulating Tumor Cell as a Promising Biomarker in the Evaluation of Pulmonary Nodules: A Prospective Study. *Cancer research and treatment*, 58(1), 128.

Bao Z, et al. (2026) Transcriptomic analysis identifies CXCL12 as a novel candidate gene for litter size in rabbits. *Animal bioscience*, 39(1), 240640.

Chen Y, et al. (2026) Whole-genome sequencing reveals novel ryanodine receptor mutations P4568L and Y4701D conferring high-level chlorantraniliprole resistance in *Spodoptera litura* (Lepidoptera: Noctuidae). *Pest management science*, 82(1), 815.

Qi D, et al. (2026) α -Adrenergic Signaling Contributes to Circadian and Lipid Dysregulation in Meibomian Glands During Chronic Psychological Stress. *Investigative ophthalmology & visual science*, 67(2), 15.

Dong Z, et al. (2026) Fungal photobiont and microbiome genome composition in the *Cladonia uncialis* tripartite symbiosis. *Scientific data*, 13(1).

Zhao Y, et al. (2026) Inflammation-induced impairment of synaptic plasticity accelerates atherosclerosis co-depression disease: insights from bioinformatics analysis and transcriptomics. *Cell & bioscience*, 16(1).

Huang S, et al. (2026) Sleep deprivation disrupts lacrimal gland homeostasis via hypothalamic-pituitary-adrenal axis and gut dysbiosis in mice. *Communications biology*, 9(1).

Jiang Z, et al. (2026) Vertebral morphological changes driven by *rflna* lead to body shape differentiation in carp. *Zoological research*, 47(1), 128.

Li X, et al. (2026) A tri-omics and machine learning framework identifies prognostic biomarkers and metabolic signatures in sepsis. *Scientific reports*, 16(1), 6648.

Park S, et al. (2026) Chronic PET-Microplastic Exposure: Disruption of Gut-Liver Homeostasis and Risk of Hepatic Steatosis. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(1), e12030.

Shi H, et al. (2026) Emergence and evolution of HoBi-like pestivirus clades a and c in sheep from central China. *BMC veterinary research*, 22(1), 82.

Gan Y, et al. (2026) PLA2G16-Mediated Tetracosatetraenoic Acid Rewires Fatty Acid Oxidation to Impair CD8⁺ T Cell Immune Function in Promoting Breast Cancer Lung Metastasis. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(6), e10224.

Chen C, et al. (2026) Characterization of the Complete Mitochondrial Genome of *Nibea chui*: Resolving a Taxonomic Controversy and New Phylogenetic Insights into Sciaenidae. *Biology*, 15(7).

Song HY, et al. (2026) Functional characterization of 11 novel rhoptry proteins in the type I RH strain of *Toxoplasma gondii* using the CRISPR-Cas9 system. *Parasites & vectors*, 19(1).

Jiang S, et al. (2026) *Panx3* deficiency in mice impairs bone fracture healing and causes transient hypoglycemia in neonatal animals. *Molecular medicine* (Cambridge, Mass.), 32(1).

Bacot T, et al. (2026) Metabolic resistance of the tiger mosquito to pyrethroid insecticides in La Réunion Island likely results from local adaptation. *Genome biology and evolution*, 18(3).

Wang Z, et al. (2026) Kog1 Represses Lipid Accumulation in *Mucor circinelloides*: A Transcriptomic Analysis Across Nitrogen Conditions. *Journal of fungi* (Basel, Switzerland), 12(4).

Ríos I, et al. (2026) Monocytes from inflammatory arthritis patients accumulate methotrexate and their transcriptome predicts methotrexate clinical response. *Cellular and molecular life sciences : CMLS*, 83(1).