

Resource Summary Report

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GenPipes

RRID:SCR_016376

Type: Tool

Proper Citation

GenPipes (RRID:SCR_016376)

Resource Information

URL: <https://bitbucket.org/muggic/genpipes/src/master/>

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Description: Software for genomics and bioinformatics analysis. GenPipes includes several python pipelines that cover many genomics applications, such as RNASeq, ChIPSeq, DNaseSeq, WGBS, HiC, Metagenomics, PacBio assembly, etc.

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

Keywords: workflow, management, system, genomics, bioinformatics, rnaseq, chipseq, dnaseq, hic, metagenomics, WGBS, PacBio, Assembly, C3G

Availability: Free, Available for download, Tutorial available

Resource Name: GenPipes

Resource ID: SCR_016376

Alternate URLs: <http://www.computationalgenomics.ca/tutorials/>

License: GNU GPLv3

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260905T132807+0000

Ratings and Alerts

No rating or validation information has been found for GenPipes.

No alerts have been found for GenPipes.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Shao X, et al. (2025) CpG methylation changes associated with hyperglycemia in type 1 diabetes occur at angiogenic glomerular and retinal gene loci. *Scientific reports*, 15(1), 15999.

Cheung ACT, et al. (2025) Using multiple modalities to confirm diagnosis in patients with suspected peroxisome biogenesis disorders. *Molecular genetics and metabolism*, 145(1), 109080.

Finatto AN, et al. (2025) Porcine α -defensin 5 (pBD-5) modulates the inflammatory and metabolic host intestinal response to infection. *Scientific reports*, 15(1), 7568.

Naderi S, et al. (2025) Within-host genetic diversity of SARS-CoV-2 across animal species. *Virus evolution*, 11(1), veae117.

Sahinyan K, et al. (2025) REST/NRSF Preserves muscle stem cell identity by repressing alternate cell fate. *Nature communications*, 16(1), 7487.

Jessa S, et al. (2024) FOXR2 targets LHX6+/DLX+ neural lineages to drive CNS neuroblastoma. *Cancer research*.

Rahimi S, et al. (2023) Capturing sex-specific and hypofertility-linked effects of assisted reproductive technologies on the cord blood DNA methylome. *Clinical epigenetics*, 15(1), 82.

Hughes CHK, et al. (2023) Steroidogenic factor 1 (SF-1; Nr5a1) regulates the formation of the ovarian reserve. *Proceedings of the National Academy of Sciences of the United States of America*, 120(32), e2220849120.

Ragamin A, et al. (2022) De novo TRPV4 Leu619Pro variant causes a new channelopathy characterised by giant cell lesions of the jaws and skull, skeletal abnormalities and polyneuropathy. *Journal of medical genetics*, 59(3), 305.

Sahinyan K, et al. (2022) Application of ATAC-Seq for genome-wide analysis of the chromatin state at single myofiber resolution. *eLife*, 11.

Lambrot R, et al. (2021) Whole-genome sequencing of H3K4me3 and DNA methylation in human sperm reveals regions of overlap linked to fertility and development. *Cell reports*, 36(3), 109418.

Chaouch A, et al. (2021) Histone H3.3 K27M and K36M mutations de-repress transposable elements through perturbation of antagonistic chromatin marks. *Molecular*

cell, 81(23), 4876.

Sidibé A, et al. (2021) Preharvest UV-C Hormesis Induces Key Genes Associated With Homeostasis, Growth and Defense in Lettuce Inoculated With *Xanthomonas campestris* pv. *vitians*. *Frontiers in plant science*, 12, 793989.

Costa MO, et al. (2020) Putting the microbiota to work: Epigenetic effects of early life antibiotic treatment are associated with immune-related pathways and reduced epithelial necrosis following *Salmonella Typhimurium* challenge in vitro. *PloS one*, 15(4), e0231942.

Chen CCL, et al. (2020) Histone H3.3G34-Mutant Interneuron Progenitors Co-opt PDGFRA for Gliomagenesis. *Cell*, 183(6), 1617.

Costa MO, et al. (2020) Swine dysentery disease mechanism: *Brachyspira hampsonii* impairs the colonic immune and epithelial repair responses to induce lesions. *Microbial pathogenesis*, 148, 104470.

Khazaei S, et al. (2020) H3.3 G34W Promotes Growth and Impedes Differentiation of Osteoblast-Like Mesenchymal Progenitors in Giant Cell Tumor of Bone. *Cancer discovery*, 10(12), 1968.

Bourgey M, et al. (2019) GenPipes: an open-source framework for distributed and scalable genomic analyses. *GigaScience*, 8(6).