Resource Summary Report

Generated by NIF on Apr 21, 2025

MOCAT

RRID:SCR_011943
Type: Tool

Proper Citation

MOCAT (RRID:SCR_011943)

Resource Information

URL: http://vm-lux.embl.de/~kultima/MOCAT//

Proper Citation: MOCAT (RRID:SCR_011943)

Description: Software package for analyzing metagenomics datasets.

Abbreviations: MOCAT

Resource Type: software resource

Funding:

Resource Name: MOCAT

Resource ID: SCR_011943

Alternate IDs: OMICS_01517

Record Creation Time: 20220129T080307+0000

Record Last Update: 20250420T014602+0000

Ratings and Alerts

No rating or validation information has been found for MOCAT.

No alerts have been found for MOCAT.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 40 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Lee S, et al. (2024) Global compositional and functional states of the human gut microbiome in health and disease. Genome research, 34(6), 967.

Yao X, et al. (2024) MOCAT: multi-omics integration with auxiliary classifiers enhanced autoencoder. BioData mining, 17(1), 9.

Cheng K, et al. (2023) MetaLab-MAG: A Metaproteomic Data Analysis Platform for Genome-Level Characterization of Microbiomes from the Metagenome-Assembled Genomes Database. Journal of proteome research, 22(2), 387.

Bar-Shalom R, et al. (2023) Rhodopsin-mediated nutrient uptake by cultivated photoheterotrophic Verrucomicrobiota. The ISME journal, 17(7), 1063.

Li L, et al. (2023) Revealing proteome-level functional redundancy in the human gut microbiome using ultra-deep metaproteomics. Nature communications, 14(1), 3428.

Chen J, et al. (2022) Osteopontin Exacerbates High-Fat Diet-Induced Metabolic Disorders in a Microbiome-Dependent Manner. mBio, 13(6), e0253122.

Davies M, et al. (2022) Enterobacteriaceae and Bacteroidaceae provide resistance to travel-associated intestinal colonization by multi-drug resistant Escherichia coli. Gut microbes, 14(1), 2060676.

Ye X, et al. (2021) Effect of host breeds on gut microbiome and serum metabolome in meat rabbits. BMC veterinary research, 17(1), 24.

Simonet C, et al. (2021) Kin selection explains the evolution of cooperation in the gut microbiota. Proceedings of the National Academy of Sciences of the United States of America, 118(6).

Ye F, et al. (2021) Comparison of gut microbiota in autism spectrum disorders and neurotypical boys in China: A case-control study. Synthetic and systems biotechnology, 6(2), 120.

Chevalier G, et al. (2021) Blockage of bacterial FimH prevents mucosal inflammation associated with Crohn's disease. Microbiome, 9(1), 176.

Lyu X, et al. (2021) Oral Microbiota Composition and Function Changes During Chronic Erythematous Candidiasis. Frontiers in cellular and infection microbiology, 11, 691092.

Mikan MP, et al. (2020) Metaproteomics reveal that rapid perturbations in organic matter prioritize functional restructuring over taxonomy in western Arctic Ocean microbiomes. The ISME journal, 14(1), 39.

Sun J, et al. (2020) Environmental remodeling of human gut microbiota and antibiotic resistome in livestock farms. Nature communications, 11(1), 1427.

Fang S, et al. (2020) Effects of Gut Microbiome and Short-Chain Fatty Acids (SCFAs) on Finishing Weight of Meat Rabbits. Frontiers in microbiology, 11, 1835.

Li J, et al. (2020) A catalog of microbial genes from the bovine rumen unveils a specialized and diverse biomass-degrading environment. GigaScience, 9(6).

Cao J, et al. (2020) Metagenomic analysis reveals the microbiome and resistome in migratory birds. Microbiome, 8(1), 26.

Norouzi-Beirami MH, et al. (2019) Beyond Taxonomic Analysis of Microbiomes: A Functional Approach for Revisiting Microbiome Changes in Colorectal Cancer. Frontiers in microbiology, 10, 3117.

Salazar G, et al. (2019) Gene Expression Changes and Community Turnover Differentially Shape the Global Ocean Metatranscriptome. Cell, 179(5), 1068.

Cui J, et al. (2019) Tongue coating microbiome as a potential biomarker for gastritis including precancerous cascade. Protein & cell, 10(7), 496.