

Resource Summary Report

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HUMAnN2

RRID:SCR_016280

Type: Tool

Proper Citation

HUMAnN2 (RRID:SCR_016280)

Resource Information

URL: <https://huttenhower.sph.harvard.edu/humann2>

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Description: Software for profiling the presence/absence and abundance of microbial pathways in a community from metagenomic or metatranscriptomic sequencing data Used for millions of short DNA/RNA reads. This process, referred to as functional profiling, aims to describe the metabolic potential of a microbial community and its members.

Abbreviations: HUMAnN2

Synonyms: The HMP Unified Metabolic Analysis Network 2

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

Keywords: microbe, matagenome, metatranscription, sequence, short, read, dna, rna, metabolism

Availability: Free, Available for download, Tutorial available, Acknowledgement requested

Resource Name: HUMAnN2

Resource ID: SCR_016280

Record Creation Time: 20220129T080329+0000

Record Last Update: 20260731T043008+0000

Ratings and Alerts

No rating or validation information has been found for HUMAnN2 .

No alerts have been found for HUMAnN2 .

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 77 mentions in open access literature.

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

Hog L, et al. (2025) ARFID Initiative Sweden (ARIES): study protocol for a large-scale genetic and registry-linked cohort study on avoidant/restrictive food intake disorder. *BMJ open*, 15(4), e095559.

Wang M, et al. (2025) Fecal Microbiome and Metabolomic Profiles of Mixed-Fed Infants Are More Similar to Formula-Fed than Breastfed Infants. *Microorganisms*, 13(1).

Ni D, et al. (2024) Breastfeeding is associated with enhanced intestinal gluconeogenesis in infants. *BMC medicine*, 22(1), 106.

Del Chierico F, et al. (2024) Solute Transporter OCTN1/Slc22a4 Affects Disease Severity and Response to Infliximab in Experimental Colitis: Role of Gut Microbiota and Immune Modulation. *Inflammatory bowel diseases*, 30(12), 2259.

Ma H, et al. (2024) B. thetaiotaomicron-derived acetic acid modulate immune microenvironment and tumor growth in hepatocellular carcinoma. *Gut microbes*, 16(1), 2297846.

Cheng S, et al. (2024) Multi-omics of the gut microbial ecosystem in patients with microsatellite-instability-high gastrointestinal cancer resistant to immunotherapy. *Cell reports. Medicine*, 5(1), 101355.

Griffiths JA, et al. (2024) Peripheral neuronal activation shapes the microbiome and alters gut physiology. *Cell reports*, 43(4), 113953.

Zhu L, et al. (2024) Gut microbiota facilitate chronic spontaneous urticaria. *Nature communications*, 15(1), 112.

Shen Y, et al. (2024) Early microbial intervention reshapes phenotypes of newborn *Bos taurus* through metabolic regulations. *GigaScience*, 13.

Freeman CN, et al. (2024) Temporal metagenomic characterization of microbial community structure and nitrogen modification genes within an activated sludge bioreactor system. *Microbiology spectrum*, 12(1), e0283223.

Leon-Gomez P, et al. (2024) Human papillomavirus, vaginal microbiota and metagenomics: the interplay between development and progression of cervical cancer. *Frontiers in microbiology*, 15, 1515258.

Yu J, et al. (2024) Dietary supplementation with *Lactiplantibacillus plantarum* P-8 improves the growth performance and gut microbiota of weaned piglets. *Microbiology spectrum*, 12(2), e0234522.

Wang S, et al. (2023) Grazing exclusion alters soil methane flux and methanotrophic and methanogenic communities in alpine meadows on the Qinghai-Tibet Plateau. *Frontiers in microbiology*, 14, 1293720.

Sukumar S, et al. (2023) Development of the oral resistome during the first decade of life. *Nature communications*, 14(1), 1291.

Seelbinder B, et al. (2023) *Candida* expansion in the gut of lung cancer patients associates with an ecological signature that supports growth under dysbiotic conditions. *Nature communications*, 14(1), 2673.

Lai S, et al. (2023) Enterotypes of the human gut mycobiome. *Microbiome*, 11(1), 179.

Tran TDB, et al. (2023) The microbial community dynamics of cocaine sensitization in two behaviorally divergent strains of collaborative cross mice. *Genes, brain, and behavior*, e12845.

Binh Tran TD, et al. (2023) Microbial glutamate metabolism predicts intravenous cocaine self-administration in diversity outbred mice. *Neuropharmacology*, 226, 109409.

Zhang XL, et al. (2023) Characterization of Gut Microbiota Compositions along the Intestinal Tract in CD163/pAPN Double Knockout Piglets and Their Potential Roles in Iron Absorption. *Microbiology spectrum*, 11(1), e0190622.

Shuai M, et al. (2022) Human Gut Antibiotic Resistome and Progression of Diabetes. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 9(11), e2104965.