

Resource Summary Report

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IMG System

RRID:SCR_002965

Type: Tool

Proper Citation

IMG System (RRID:SCR_002965)

Resource Information

URL: <http://img.jgi.doe.gov/cgi-bin/m/main.cgi>

Proper Citation: IMG System (RRID:SCR_002965)

Description: Resource for analysis and annotation of genome and metagenome datasets in comprehensive comparative context. IMG provides users with tools for analyzing publicly available genome datasets and metagenome datasets.

Abbreviations: IMG, IMG/M

Synonyms: Integrated Microbial Genomes System

Resource Type: data or information resource, portal

Defining Citation: [PMID:17932063](#), [PMID:22086953](#)

Keywords: microbiome, microbial genetics, genome and metagenome datasets analysis, genome and metagenome datasets, genome, metagenomics, bio.tools, FASEB list

Availability: Free, Freely available

Resource Name: IMG System

Resource ID: SCR_002965

Alternate IDs: nif-0000-03010, OMICS_01478, SCR_014605, biotools:img_m

Alternate URLs: <http://img.jgi.doe.gov/m>, https://bio.tools/img_m

Record Creation Time: 20220129T080216+0000

Record Last Update: 20260729T044034+0000

Ratings and Alerts

No rating or validation information has been found for IMG System.

No alerts have been found for IMG System.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 199 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Vargas BO, et al. (2025) Engineering *Saccharomyces Cerevisiae* With Novel Functional Xylose Isomerases From Rumen Microbiota for Enhanced Biofuel Production. *Biotechnology journal*, 20(6), e70050.

Cai Y, et al. (2025) Amino acid metabolism of the thermophilic acetogen *Thermacetogenium phaeum*. *PloS one*, 20(12), e0336914.

Dutkiewicz Z, et al. (2025) Proposal of *Patescibacterium danicum* gen. nov., sp. nov. in the ubiquitous bacterial phylum Patescibacteriota phyl. nov. *ISME communications*, 5(1), ycae147.

Teng ZJ, et al. (2025) Inositol phosphates as an overlooked phosphorous source in marine ecosystems. *The ISME journal*, 19(1).

Timsina R, et al. (2025) Proteomic and metabolomic analysis reveals new insights into quaternary amine metabolism in *Citrobacter amalonaticus* CJ25. *mSphere*, 10(9), e0042125.

George NA, et al. (2025) Discarded diversity: novel megaphages, auxiliary metabolic genes, and virally encoded CRISPR-Cas systems in landfills. *Virology journal*, 22(1), 370.

Jin T, et al. (2024) Effects of *Klebsiella michiganensis* LDS17 on *Codonopsis pilosula* growth, rhizosphere soil enzyme activities, and microflora, and genome-wide analysis of plant growth-promoting genes. *Microbiology spectrum*, 12(5), e0405623.

Leunda-Esnaola A, et al. (2024) Harnessing the intragenomic variability of rRNA operons to improve differentiation of *Vibrio* species. *Scientific reports*, 14(1), 9908.

Palevich N, et al. (2024) Complete genome sequence of *Methanosphaera* sp. ISO3-F5, a rumen methylotrophic methanogen. *Microbiology resource announcements*, 13(4), e0004324.

George NA, et al. (2024) Discarded diversity: Novel megaphages, auxiliary metabolic genes, and virally encoded CRISPR-Cas systems in landfills. *bioRxiv : the preprint server for biology*.

O'Banion BS, et al. (2023) Plant myo-inositol transport influences bacterial colonization phenotypes. *Current biology : CB*, 33(15), 3111.

Jameson BD, et al. (2023) Network analysis of 16S rRNA sequences suggests microbial keystone taxa contribute to marine N₂O cycling. *Communications biology*, 6(1), 212.

Botté ES, et al. (2023) Future ocean conditions induce necrosis, microbial dysbiosis and nutrient cycling imbalance in the reef sponge *Stylissa flabelliformis*. *ISME communications*, 3(1), 53.

George NA, et al. (2023) CRISPR-resolved virus-host interactions in a municipal landfill include non-specific viruses, hyper-targeted viral populations, and interviral conflicts. *Scientific reports*, 13(1), 5611.

Pérez-Losada M, et al. (2023) Nasal Bacteriomes of Patients with Asthma and Allergic Rhinitis Show Unique Composition, Structure, Function and Interactions. *Microorganisms*, 11(3).

Al-Jourani O, et al. (2023) Identification of D-arabinan-degrading enzymes in mycobacteria. *Nature communications*, 14(1), 2233.

Chen Q, et al. (2023) Longitudinal Investigation of Enteric Virome Signatures from Parental-Generation to Offspring Pigs. *Microbiology spectrum*, 11(3), e0002323.

Zhang D, et al. (2023) A systematically biosynthetic investigation of lactic acid bacteria reveals diverse antagonistic bacteriocins that potentially shape the human microbiome. *Microbiome*, 11(1), 91.

Miyake M, et al. (2023) Probiotics enhances anti-tumor immune response induced by gemcitabine plus cisplatin chemotherapy for urothelial cancer. *Cancer science*, 114(3), 1118.

Kubota M, et al. (2023) Nitrogen fixation and nifH gene diversity in cyanobacteria living on feather mosses in a subalpine forest of Mt. Fuji. *Oecologia*, 201(3), 749.