

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

MB-GAN

RRID:SCR_019289

Type: Tool

Proper Citation

MB-GAN (RRID:SCR_019289)

Resource Information

URL: <https://github.com/zhanxw/MB-GAN>

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Description: Software tool as deep learning simulation framework for simulating realistic microbiome data. Can automatically learn from given microbial abundances and compute simulated abundances that are indistinguishable from it.

Synonyms: Microbiome Simulation via Generative Adversarial Network

Resource Type: software resource, software application, simulation software

Defining Citation: [DOI:10.1101/863977](https://doi.org/10.1101/863977)

Keywords: Metagenomics, deep learning, generative adversarial network, microbiome data simulation, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: MB-GAN

Resource ID: SCR_019289

Alternate IDs: biotools:mb-gan

Alternate URLs: <https://bio.tools/mb-gan>

License: GNU General Public License v3.0

Record Creation Time: 20220129T080344+0000

Record Last Update: 20260808T190242+0000

Ratings and Alerts

No rating or validation information has been found for MB-GAN.

No alerts have been found for MB-GAN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Rong R, et al. (2021) MB-GAN: Microbiome Simulation via Generative Adversarial Network. GigaScience, 10(2).