

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 8, 2026

## MB-GAN

RRID:SCR\_019289

Type: Tool

---

### Proper Citation

MB-GAN (RRID:SCR\_019289)

---

### Resource Information

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

**Proper Citation:** MB-GAN (RRID:SCR\_019289)

**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:** simulation software, software application, software resource

**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:** 20260905T133010+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 [PRECISE-TBI](#) .

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