

Resource Summary Report

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

GEMB

RRID:SCR_018904

Type: Tool

Proper Citation

GEMB (RRID:SCR_018904)

Resource Information

URL: <https://github.com/cochran4/GEMB>

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Description: Software tool to introduce gene set enrichment for mathematical biology. Measures association between disease of interest and set of genes related to biological pathway. Used for defining gene contributions based on biophysical properties, by leveraging mathematical models of biology to predict effects of genetic perturbations on particular downstream function.

Synonyms: Gene Set Enrichment for Mathematical Biology

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

Defining Citation: [DOI:10.1101/554212](https://doi.org/10.1101/554212)

Keywords: Gene set enrichment, mathematical biology, disease and gene association, biophysical property, gene perturbation prediction, weighted gene set test, recover p-value, bio.tools

Availability: Free, Freely available

Resource Name: GEMB

Resource ID: SCR_018904

Alternate IDs: biotools:gemb

Alternate URLs: <https://bio.tools/gemb>

License: GNU General Public License v3.0

Record Creation Time: 20220129T080342+0000

Record Last Update: 20260905T132843+0000

Ratings and Alerts

No rating or validation information has been found for GEMB.

No alerts have been found for GEMB.

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](#) .

Cochran AL, et al. (2020) Gene-set Enrichment with Mathematical Biology (GEMB). GigaScience, 9(10).