

Resource Summary Report

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BioModels

RRID:SCR_001993

Type: Tool

Proper Citation

BioModels (RRID:SCR_001993)

Resource Information

URL: <http://www.ebi.ac.uk/biomodels-main/>

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Description: Repository of mathematical models of biological and biomedical systems. Hosts selection of existing literature based physiologically and pharmaceutically relevant mechanistic models in standard formats. Features programmatic access via Web Services. Each model is curated to verify that it corresponds to reference publication and gives proper numerical results. Curators also annotate components of models with terms from controlled vocabularies and links to other relevant data resources allowing users to search accurately for models they need. Models can be retrieved in SBML format and import/export facilities are being developed to extend spectrum of formats supported by resource.

Abbreviations: BIOMD

Synonyms: BioModels Database - A Database of Annotated Published Models, BioModels Database, BioModels

Resource Type: storage service resource, topical portal, service resource, portal, data or information resource, data repository, database

Defining Citation: [PMID:20587024](#), [PMID:16381960](#)

Keywords: FAIR sharing, mathematical model, computational model, simulation, kinetic model, annotation, web service, data analysis service, systems biology, biological model, biology, molecular biology, nucleotide sequence, gene expression, protein, gene, dna, rna, genetics, gold standard

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NIGMS R01 GM070923

Availability: CC0, Public Domain Dedication, Cf. our terms of use.

Resource Name: BioModels

Resource ID: SCR_001993

Alternate IDs: nif-0000-02609, r3d100010789

Alternate URLs: <http://www.ebi.ac.uk/biomodels/>

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260821T042536+0000

Ratings and Alerts

No rating or validation information has been found for BioModels.

No alerts have been found for BioModels.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 255 mentions in open access literature.

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

Pin C, et al. (2026) A dynamic model of COVID-19 infection quantifies the impact of preventive interventions on the infection of severely immunocompromised subjects in the United Kingdom. PLoS one, 21(2), e0341331.

Pin C, et al. (2026) Intestinal Organoid-Based Mathematical Modeling Predicts Clinical Gastrointestinal Toxicity of Oral Oncology Drugs. CPT: pharmacometrics & systems pharmacology, 15(5), e70256.

Cook M, et al. (2026) A standardized workflow for kinetic metabolic model curation and dissemination. PLoS computational biology, 22(4), e1014227.

Hung SY, et al. (2026) Development and evaluation of Sargassum polysaccharides-algal oil nanoemulsion for intranasal treatment of allergic rhinitis. Bioresources and bioprocessing, 13(1).

van Aalst M, et al. (2026) Web-based collaborative model development in interdisciplinary consortia: Design principles and practical guidance. PLoS biology, 24(6), e3003825.

Masison J, et al. (2025) Mathematical modeling reveals ferritin as the strongest cellular driver of dietary iron transfer block in enterocytes. PLoS computational biology, 21(3), e1012374.

Pigozzi F, et al. (2025) Associative conditioning in gene regulatory network models increases integrative causal emergence. *Communications biology*, 8(1), 1027.

Parera Olm I, et al. (2025) Synthetic Microbial Cocultivation for Targeted Production of Odd-Chain Carboxylates and Alcohols from Carbon Monoxide. *Environmental science & technology*, 59(35), 18706.

Dubey P, et al. (2025) Predicting oxytocin binding dynamics in receptor genetic variants through computational modeling. *npj women's health*, 3(1).

Raajaraam L, et al. (2025) COmmunity and Single Microbe Optimisation System (COSMOS). *NPJ systems biology and applications*, 11(1), 51.

Currie C, et al. (2025) Assessing the potential for in vivo modulation of FTH1 gene expression with small peptides to restore and enhance androgen receptor pathway inhibition in prostate cancer. *Cancer biology & therapy*, 26(1), 2503417.

Meeson KE, et al. (2025) Flux Sampling Suggests Metabolic Signatures of High Antibody-Producing CHO Cells. *Biotechnology and bioengineering*, 122(7), 1898.

Hellerstein JL, et al. (2025) Discovering subnetworks in SBML models. *Bioinformatics (Oxford, England)*, 41(9).

Babaev D, et al. (2025) Mathematical modeling of pharmacokinetics and pharmacodynamics of losartan in relation to CYP2C9 allele variants. *Frontiers in systems biology*, 5, 1504077.

Kumar S P, et al. (2025) Modelling reliable metabolic phenotypes by analysing the context-specific transcriptomics data. *NPJ systems biology and applications*, 11(1), 142.

Park SG, et al. (2025) A systems biology approach to understand temporal evolution of silver nanoparticle toxicity. *NPJ systems biology and applications*, 11(1), 80.

van Lent P, et al. (2025) Jaxkineticmodel: Neural ordinary differential equations inspired parameterization of kinetic models. *PLoS computational biology*, 21(7), e1012733.

Blasco-Roset A, et al. (2025) Acyl CoA-binding protein in brown adipose tissue acts as a negative regulator of adaptive thermogenesis. *Molecular metabolism*, 96, 102153.

Kodate S, et al. (2025) Simulating metabolic pathways to enhance interpretations of metabolome genome-wide association studies. *Scientific reports*, 15(1), 17035.

Renz A, et al. (2025) Metabolic modeling elucidates phenformin and atpenin A5 as broad-spectrum antiviral drugs against RNA viruses. *Communications biology*, 8(1), 791.