

# Resource Summary Report

Generated by SPARC SAWG on Sep 16, 2026

## libSBML

RRID:SCR\_014134

Type: Tool

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### Proper Citation

libSBML (RRID:SCR\_014134)

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### Resource Information

**URL:** <http://www.nitrc.org/projects/libsbml>

**Proper Citation:** libSBML (RRID:SCR\_014134)

**Description:** A programming library to help users read, write, manipulate, translate, and validate SBML files and data streams. Specifically, it is a library that users may embed into their own applications.

**Synonyms:** Systems Biology Markup Language Library, Library for Systems Biology Markup Language

**Resource Type:** catalog, data or information resource, database

**Keywords:** markup language, systems biology, programming library, catalog

**Availability:** Open source

**Resource Name:** libSBML

**Resource ID:** SCR\_014134

**Alternate URLs:** <http://sourceforge.net/p/sbml/code/HEAD/tree/>

**License:** GNU Lesser General Public License

**Record Creation Time:** 20220129T080319+0000

**Record Last Update:** 20260912T195812+0000

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### Ratings and Alerts

No rating or validation information has been found for libSBML.

No alerts have been found for libSBML.

## Data and Source Information

**Source:** [SciCrunch Registry](#)

## Usage and Citation Metrics

We found 40 mentions in open access literature.

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

Moretti S, et al. (2026) MetaNetX: a bridge between metabolic resources for enhanced curation and multi-omics data harmonization. *Nucleic acids research*, 54(D1), D617.

Hu M, et al. (2025) Parameterization of cell-free systems with time-series data using KETCHUP. *PLoS computational biology*, 21(11), e1013724.

Xu J, et al. (2024) Curating models from BioModels: Developing a workflow for creating OMEX files. *bioRxiv : the preprint server for biology*.

Leonidou N, et al. (2024) Exploring the metabolic profile of *A. baumannii* for antimicrobial development using genome-scale modeling. *PLoS pathogens*, 20(9), e1012528.

Versluis DM, et al. (2024) 2'-Fucosyllactose helps butyrate producers outgrow competitors in infant gut microbiota simulations. *iScience*, 27(3), 109085.

Xu J, et al. (2024) Curating models from BioModels: Developing a workflow for creating OMEX files. *PloS one*, 19(12), e0314875.

Bleker C, et al. (2024) Stress Knowledge Map: A knowledge graph resource for systems biology analysis of plant stress responses. *Plant communications*, 5(6), 100920.

Leonidou N, et al. (2024) Genome-scale model of *Rothia mucilaginosa* predicts gene essentialities and reveals metabolic capabilities. *Microbiology spectrum*, 12(6), e0400623.

N??gre D, et al. (2023) Reconciliation and evolution of *Penicillium rubens* genome-scale metabolic networks-What about specialised metabolism? *PloS one*, 18(8), e0289757.

Pinto J, et al. (2023) SBML2HYB: a Python interface for SBML compatible hybrid modeling. *Bioinformatics (Oxford, England)*, 39(1).

Versluis DM, et al. (2022) A Multiscale Spatiotemporal Model Including a Switch from Aerobic to Anaerobic Metabolism Reproduces Succession in the Early Infant Gut Microbiota. *mSystems*, 7(5), e0044622.

Santos JPG, et al. (2022) A Modular Workflow for Model Building, Analysis, and Parameter Estimation in Systems Biology and Neuroscience. *Neuroinformatics*, 20(1), 241.

Renz A, et al. (2021) First Genome-Scale Metabolic Model of *Dolosigranulum pigrum* Confirms Multiple Auxotrophies. *Metabolites*, 11(4).

Payne DD, et al. (2021) An updated genome-scale metabolic network reconstruction of *Pseudomonas aeruginosa* PA14 to characterize mucin-driven shifts in bacterial metabolism. *NPJ systems biology and applications*, 7(1), 37.

Moretti S, et al. (2021) MetaNetX/MNXref: unified namespace for metabolites and biochemical reactions in the context of metabolic models. *Nucleic acids research*, 49(D1), D570.

Gong C, et al. (2021) A Spatial Quantitative Systems Pharmacology Platform spQSP-IO for Simulations of Tumor-Immune Interactions and Effects of Checkpoint Inhibitor Immunotherapy. *Cancers*, 13(15).

Larsson I, et al. (2020) Genome-Scale Metabolic Modeling of Glioblastoma Reveals Promising Targets for Drug Development. *Frontiers in genetics*, 11, 381.

Glont M, et al. (2020) BioModels Parameters: a treasure trove of parameter values from published systems biology models. *Bioinformatics (Oxford, England)*, 36(17), 4649.

diCenzo GC, et al. (2020) Genome-scale metabolic reconstruction of the symbiosis between a leguminous plant and a nitrogen-fixing bacterium. *Nature communications*, 11(1), 2574.

Zoledowska S, et al. (2019) Metabolic Modeling of *Pectobacterium parmentieri* SCC3193 Provides Insights into Metabolic Pathways of Plant Pathogenic Bacteria. *Microorganisms*, 7(4).