

Resource Summary Report

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CellML Model Repository

RRID:SCR_008113

Type: Tool

Proper Citation

CellML Model Repository (RRID:SCR_008113)

Resource Information

URL: <http://www.cellml.org/models>

Proper Citation: CellML Model Repository (RRID:SCR_008113)

Description: Repository of biological models created using CellML, a free, open-source, eXtensible markup language based standard for defining mathematical models of cellular function. Models may be browsed by category, which include: Calcium Dynamics, Cardiovascular Circulation, Cell Cycle, Cell Migration, Circadian Rhythms, Electrophysiology, Endocrine, Excitation-Contraction Coupling, Gene Regulation, Hepatology, Immunology, Ion Transport, Mechanical Constitutive Laws, Metabolism, Myofilament Mechanics, Neurobiology, pH Regulation, PKPD, Signal Transduction, Synthetic Biology. The community can contribute their models to this resource.

Abbreviations: CellML Repository

Resource Type: data repository, service resource, software repository, software resource, storage service resource

Defining Citation: [PMID:21216774](#), [PMID:18658182](#), [PMID:17947072](#), [PMID:19162720](#), [PMID:19380315](#)

Keywords: cell function, cell model, model, cell, calcium dynamics, cardiovascular circulation, cell cycle, cell migration, circadian rhythm, electrophysiology, endocrine, excitation-contraction coupling, gene regulation, hepatology, immunology, ion transport, mechanical constitutive law, metabolism, myofilament mechanics, neurobiology, ph regulation, pkpd, signal transduction, synthetic biology, image, exposure

Funding: Wellcome Trust ;
Royal Society of New Zealand ;
Maurice Wilkins Centre for Molecular Biodiscovery

Availability: The community can contribute to this resource

Resource Name: CellML Model Repository

Resource ID: SCR_008113

Alternate IDs: nif-0000-20828

Record Creation Time: 20220129T080245+0000

Record Last Update: 20260919T195135+0000

Ratings and Alerts

No rating or validation information has been found for CellML Model Repository.

No alerts have been found for CellML Model Repository.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Koenig X, et al. (2013) Anti-addiction drug ibogaine inhibits voltage-gated ionic currents: a study to assess the drug's cardiac ion channel profile. Toxicology and applied pharmacology, 273(2), 259.

Cooling MT, et al. (2009) Sensitivity of NFAT cycling to cytosolic calcium concentration: implications for hypertrophic signals in cardiac myocytes. Biophysical journal, 96(6), 2095.

Beard DA, et al. (2009) CellML metadata standards, associated tools and repositories. Philosophical transactions. Series A, Mathematical, physical, and engineering sciences, 367(1895), 1845.

Deisboeck TS, et al. (2007) Advancing cancer systems biology: introducing the Center for the Development of a Virtual Tumor, CViT. Cancer informatics, 5, 1.

Materi W, et al. (2007) Computational systems biology in cancer: modeling methods and applications. Gene regulation and systems biology, 1, 91.

Cooling M, et al. (2007) Modeling hypertrophic IP3 transients in the cardiac myocyte. Biophysical journal, 93(10), 3421.