

# Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

## 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:** 20260905T132618+0000

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## Ratings and Alerts

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

No alerts have been found for CellML Model Repository.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 6 mentions in open access literature.

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

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.