

Resource Summary Report

Generated by [dkNET](#) on Aug 8, 2026

International Union of Physiological Sciences: Physiome Project

RRID:SCR_001760

Type: Tool

Proper Citation

International Union of Physiological Sciences: Physiome Project (RRID:SCR_001760)

Resource Information

URL: <https://physiomeproject.org/>

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Description: The Physiome Project is a worldwide public domain effort to provide a computational framework for understanding human and other eukaryotic physiology. It aims to develop integrative models at all levels of biological organization, from genes to the whole organism via gene regulatory networks, protein pathways, integrative cell function, and tissue and whole organ structure/function relations. Additionally, an important goal of the project is to develop applications for teaching physiology. Current projects include the development of: - ontologies to organize biological knowledge and access to databases - markup languages to encode models of biological structure and function in a standard format for sharing between different application programs and for re-use as components of more comprehensive models - databases of structure at the cell, tissue and organ levels - software to render computational models of cell function such as ion channel electrophysiology, cell signaling and metabolic pathways, transport, motility, the cell cycle, etc. in 2 & 3D graphical form - software for displaying and interacting with the organ models which will allow the user to move across all spatial scales Sponsors: This project is supported by the International Union of Physiological Sciences (IUPS), the IEEE Engineering. in Medicine and Biology (EMBS), and the International Federation for Medical and Biological Engineering (IFMBE)

Synonyms: IUPS Physiome

Resource Type: data or information resource, portal, topical portal

Keywords: electrophysiology, eukaryotic, framework, function, gene, 3d form, biological, cell, cell cycle, channel, computational, human, ion, metabolic, model, motility, network, organ, organism, pathway, physiology, physiome, protein, public domain, regulatory, signaling, software, structure, tissue, transport

Availability: Free, Freely available

Resource Name: International Union of Physiological Sciences: Physiome Project

Resource ID: SCR_001760

Alternate IDs: nif-0000-10266

Old URLs: <http://www.physiome.org.nz/>

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260808T042517+0000

Ratings and Alerts

No rating or validation information has been found for International Union of Physiological Sciences: Physiome Project.

No alerts have been found for International Union of Physiological Sciences: Physiome Project.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Kohl P, et al. (2009) Systems biology and the virtual physiological human. Molecular systems biology, 5, 292.

Cook DL, et al. (2001) A basis for a visual language for describing, archiving and analyzing functional models of complex biological systems. Genome biology, 2(4), RESEARCH0012.