Resource Summary Report

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Ikaros Project

RRID:SCR_007391
Type: Tool

Proper Citation

Ikaros Project (RRID:SCR_007391)

Resource Information

URL: http://www.ikaros-project.org/

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Description: Ikaros is an open infrastructure for system level modeling of the brain including databases of experimental data, computational models and functional brain data. The system makes heavy use of the emerging standards for Internet based information and makes all information accessible through an open web-based interface. In addition, Ikaros can be used as a control architecture for robots which in the extension will lead to the development of a brain inspired robot architecture. The main components of the Ikaros systems are: a platform independent simulation kernel; a set of computational brain models; a set of I/O modules for interfacing with data files and peripheral such as robots or video cameras; tools for building systems of interconnected models; a plug-in architecture that allows new models to be easily added to the system; and a database with data from learning experiments that can be used for validation of the computational models.

Synonyms: Ikaros

Resource Type: simulation software, software application, software resource

Keywords: model, computational neuroscience, brain, robot, simulation, FASEB list

Resource Name: Ikaros Project

Resource ID: SCR_007391

Alternate IDs: nif-0000-00426

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260912T195654+0000

Ratings and Alerts

No rating or validation information has been found for Ikaros Project.

No alerts have been found for Ikaros Project.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 89 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Bedei I, et al. (2026) Uncovering the Genetic Landscape of Spinal Dysraphism: A Retrospective Analysis of 150 Fetal Cases. Prenatal diagnosis, 46(5-6), 849.

Peruzzi S, et al. (2026) Genome Size and Karyotype of the Spotted Wolffish (Anarhichas minor). Marine biotechnology (New York, N.Y.), 28(2).

Latal V, et al. (2026) Twenty Years of Therapeutic Leukocytapheresis in Newly Diagnosed Acute Myeloid Leukemia: Insights From A Single Center. Journal of clinical apheresis, 41(2), e70111.

Simanovsky SA, et al. (2025) First karyotype description of Epiplatysspilargyreius (Duméril, 1861) with comments on chromosome evolution in the genus Epiplatys Gill, 1862 (Nothobranchiidae). Comparative cytogenetics, 19, 109.

Wilson A, et al. (2025) Jurkat T-cell lines exhibit marked genomic instability affecting karyotype, mutational profile, gene expression, immunophenotype and function. Scientific reports, 15(1), 22426.

Okawa M, et al. (2025) Establishment of immortalized ovarian stromal cell lines using Sendai virus vectors: a platform for studying tumor-stroma interactions and carcinogenesis. Human cell, 39(1), 15.

Haxhikadrija P, et al. (2025) Inhibition of ceramide synthesis improves the outcome of ischemia/reperfusion injury in cardiomyocytes derived from human induced pluripotent stem cell. Stem cell research & therapy, 16(1), 190.

Spangenberg V, et al. (2025) Tendency towards clonality: deviations of meiosis in parthenogenetic Caucasian rock lizards†. Biology of reproduction, 113(2), 387.

Stedtler S, et al. (2025) Gaze and movement adaptation in response to delayed robotic movement during turn-taking. Scientific reports, 15(1), 34098.

Prasopporn S, et al. (2025) Establishment of novel cholangiocarcinoma cell lines with ARID1A deficiency and preclinical validation of synthetic lethality therapies. Scientific reports, 15(1), 40619.

Kanemura Y, et al. (2024) Human-Induced Pluripotent Stem Cell-Derived Neural Progenitor Cells Showed Neuronal Differentiation, Neurite Extension, and Formation of Synaptic Structures in Rodent Ischemic Stroke Brains. Cells, 13(8).

G C B, et al. (2024) Upregulation of nuclear protein Hemgn by transcriptional repressor Gfi1 through repressing PU.1 contributes to the anti-apoptotic activity of Gfi1. The Journal of biological chemistry, 300(11), 107860.

Lysenkova Wiklander M, et al. (2024) A multiomic characterization of the leukemia cell line REH using short- and long-read sequencing. Life science alliance, 7(8).

Uno N, et al. (2024) Microcell-mediated chromosome transfer between non-identical human iPSCs. Molecular therapy. Nucleic acids, 35(4), 102382.

Thao LTT, et al. (2023) Cytogenetic Characteristics of de novo Acute Myeloid Leukemia in Southern Vietnam. Asian Pacific journal of cancer prevention : APJCP, 24(5), 1789.

Komune N, et al. (2023) Biological and genetic characterization of a newly established human external auditory canal carcinoma cell line, SCEACono2. Scientific reports, 13(1), 19636.

Álvarez I, et al. (2023) Proteomic Analysis of Human iPSC-Derived Neural Stem Cells and Motor Neurons Identifies Proteasome Structural Alterations. Cells, 12(24).

Sun W, et al. (2022) Generation of iPSC line from urine cells of hemophilia A with F8 (p. R814X) mutation. Stem cell research, 60, 102682.

Nguyen Thanh L, et al. (2022) Human Umbilical Cord Mesenchymal Stem Cells for Severe Neurological Sequelae due to Anti-N-Methyl-d-Aspartate Receptor Encephalitis: First Case Report. Cell transplantation, 31, 9636897221110876.

Villarroya-Beltri C, et al. (2022) Biallelic germline mutations in MAD1L1 induce a syndrome of aneuploidy with high tumor susceptibility. Science advances, 8(44), eabq5914.