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: software application, software resource, simulation software

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

Funding:

Resource Name: Ikaros Project

Resource ID: SCR_007391

Alternate IDs: nif-0000-00426

Record Creation Time: 20220129T080241+0000

Record Last Update: 20250522T060407+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 79 mentions in open access literature.

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

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).

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).

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.

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.

Hayashi M, et al. (2022) Robust induction of primordial germ cells of white rhinoceros on the brink of extinction. Science advances, 8(49), eabp9683.

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.

Ma Y, et al. (2022) Generation an induced pluripotent stem cell line SXMUi001-A derived from a hemophilia B patient carries variant F9 c.223C?T(p.R75X). Stem cell research, 60, 102684.

Cha YJ, et al. (2022) Derivation of YCMi005-A, a human-induced pluripotent stem cell line, from a patient with dilated cardiomyopathy carrying missense variant in TPM1 (p. Glu192Lys). Stem cell research, 60, 102707.

Hagner PR, et al. (2022) Interactome of Aiolos/Ikaros Reveals Combination Rationale of Cereblon Modulators with HDAC Inhibitors in DLBCL. Clinical cancer research : an official journal of the American Association for Cancer Research, 28(15), 3367.

Li S, et al. (2021) Generation of UCiPSC-derived neurospheres for cell therapy and its application. Stem cell research & therapy, 12(1), 188.

Dam PTM, et al. (2021) Human Adipose-Derived Mesenchymal Stromal Cells Exhibit High HLA-DR Levels and Altered Cellular Characteristics under a Xeno-free and Serum-free Condition. Stem cell reviews and reports, 17(6), 2291.

Stembalska A, et al. (2021) Prenatal Versus Postnatal Diagnosis of Meckel-Gruber and Joubert Syndrome in Patients with TMEM67 Mutations. Genes, 12(7).

Christofolini DM, et al. (2021) Genetic analysis of products of conception. Should we abandon classic karyotyping methodology? Einstein (Sao Paulo, Brazil), 19, eAO5945.

Imarazene B, et al. (2021) A supernumerary "B-sex" chromosome drives male sex determination in the Pachón cavefish, Astyanax mexicanus. Current biology : CB, 31(21), 4800.

Oh J, et al. (2021) Establishment of a novel human iPSC line (YCMi003-A) from a patient with dilated cardiomyopathy carrying genetic variant LMNA p.Asp364His. Stem cell research, 56, 102508.