Resource Summary Report

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Simons Foundation

RRID:SCR_006735
Type: Tool

Proper Citation

Simons Foundation (RRID:SCR_006735)

Resource Information

URL: https://simonsfoundation.org/

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Description: The Simons Foundation is a private foundation based in New York City, incorporated in 1994 by Jim and Marilyn Simons. The Simons Foundation''s mission is to advance the frontiers of research in mathematics and the basic sciences. We sponsor a range of programs that aim to promote a deeper understanding of our world. The primary focus of the foundation''s Mathematics & the Physical Sciences (MPS) program is on the theoretical sciences radiating from mathematics: in particular, the fields of mathematics, theoretical computer science and theoretical physics. Although we have supported basic research in mathematics and physics for years at institutions around the globe, the mode of our support entered an important new phase in fall 2009 with the introduction of grant opportunities with open application procedures. It is intended that this will become our primary mode of operation. In 2010, the MPS program issued its first requests for grant applications. These requests offered grants to establish post-doctoral fellowships, grants to promote collaboration between researchers, grants to create professorships that combine mathematics with other fields, and a grant to endow an institute for theoretical computer science. Other projects are under way, including the Africa Mathematics Project, intended to bolster mathematics scholarship on the African continent, and an oral history project: a series of interviews with renowned mathematicians and scientists which will be made available to the public for viewing. The Simons Foundation''s initial support of life sciences work has tended to focus on research that promotes synergy between biology and mathematics. Such projects have included quantitative biology programs at Cold Spring Harbor Laboratory, the Institut des Hautes ??tudes Scientifiques, the Institute for Advanced Study, and The Rockefeller University. The Life Sciences program is expected to expand in scope over the next two to three years. To date, the Simons Foundation''s single largest initiative has been in autism research. The Simons Foundation Autism Research Initiative (SFARI) program seeks to improve the diagnosis and treatment of autism spectrum

disorders by funding, catalyzing, and driving innovative research of the greatest quality and relevance. In 2007, SFARI issued its first Request for Applications, its goal being to attract the best researchers to the field. In the years since, SFARI has given grants to 150 investigators in the United States and abroad. Additionally, to facilitate the field as a whole, SFARI has created the Simons Simplex Collection of extensive genetic and phenotypic data from almost 3,000 families with a child affected by autism. Although SFARI''s immediate priority is to benefit individuals challenged by autism spectrum disorders, the program''s research is expected to yield insights into the neural mechanisms of fundamental human capabilities, complementing the mission of the Simons Foundation to advance research in the basic sciences and mathematics.

Abbreviations: Simons Foundation

Synonyms: Simons Foundation - Advancing Research in Basic Science and Mathematics

Resource Type: funding resource

Keywords: mathematics, physical sciences, computer science, physics, autism, autism spectrum disorder

Funding:

Resource Name: Simons Foundation

Resource ID: SCR_006735

Alternate IDs: nlx_144361

Record Creation Time: 20220129T080237+0000

Record Last Update: 20250420T014345+0000

Ratings and Alerts

No rating or validation information has been found for Simons Foundation.

No alerts have been found for Simons Foundation.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 60 mentions in open access literature.

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

Kawakatsu M, et al. (2024) When do stereotypes undermine indirect reciprocity? PLoS computational biology, 20(3), e1011862.

Holt CJ, et al. (2024) The stabilized supralinear network accounts for the contrast dependence of visual cortical gamma oscillations. PLoS computational biology, 20(6), e1012190.

Kumar S, et al. (2024) An inhibitory acetylcholine receptor gates context-dependent mechanosensory processing in C. elegans. iScience, 27(10), 110776.

Avila B, et al. (2024) Fibration symmetries and cluster synchronization in the Caenorhabditis elegans connectome. PloS one, 19(4), e0297669.

K Raval P, et al. (2024) A molecular atlas of plastid and mitochondrial proteins reveals organellar remodeling during plant evolutionary transitions from algae to angiosperms. PLoS biology, 22(5), e3002608.

Lippl S, et al. (2024) Can neural networks benefit from objectives that encourage iterative convergent computations? A case study of ResNets and object classification. PloS one, 19(3), e0293440.

Ertelt M, et al. (2024) Combining machine learning with structure-based protein design to predict and engineer post-translational modifications of proteins. PLoS computational biology, 20(3), e1011939.

Liu P, et al. (2024) Tree polynomials identify a link between co-transcriptional R-loops and nascent RNA folding. PLoS computational biology, 20(12), e1012669.

Kumar S, et al. (2024) An inhibitory acetylcholine receptor gates context dependent mechanosensory processing in C. elegans. bioRxiv : the preprint server for biology.

McInally SG, et al. (2023) Length control emerges from cytoskeletal network geometry. bioRxiv : the preprint server for biology.

Lee MJ, et al. (2023) How well do rudimentary plasticity rules predict adult visual object learning? PLoS computational biology, 19(12), e1011713.

Kumar S, et al. (2023) Inhibitory feedback from the motor circuit gates mechanosensory processing in Caenorhabditis elegans. PLoS biology, 21(9), e3002280.

Havumaki J, et al. (2023) Spatially-targeted tuberculosis screening has limited impact beyond household contact tracing in Lima, Peru: A model-based analysis. PloS one, 18(10), e0293519.

Muñoz-Marín MDC, et al. (2023) Open ocean and coastal strains of the N2-fixing cyanobacterium UCYN-A have distinct transcriptomes. PloS one, 18(5), e0272674.

Timcheck J, et al. (2022) Optimal noise level for coding with tightly balanced networks of spiking neurons in the presence of transmission delays. PLoS computational biology, 18(10), e1010593.

Liu M, et al. (2022) A high-throughput method to deliver targeted optogenetic stimulation to moving C. elegans populations. PLoS biology, 20(1), e3001524.

Elliott KS, et al. (2022) Fine-Scale Genetic Structure in the United Arab Emirates Reflects Endogamous and Consanguineous Culture, Population History, and Geography. Molecular biology and evolution, 39(3).

Sarangi V, et al. (2022) All2: A tool for selecting mosaic mutations from comprehensive multi-cell comparisons. PLoS computational biology, 18(4), e1009487.

Gibbs T, et al. (2022) Stability criteria for the consumption and exchange of essential resources. PLoS computational biology, 18(9), e1010521.

Friedrich J, et al. (2021) Online analysis of microendoscopic 1-photon calcium imaging data streams. PLoS computational biology, 17(1), e1008565.