Resource Summary Report

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NIH Blueprint for Neuroscience Research

RRID:SCR_003670
Type: Tool

Proper Citation

NIH Blueprint for Neuroscience Research (RRID:SCR_003670)

Resource Information

URL: http://neuroscienceblueprint.nih.gov/

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Description: Collaborative framework that includes the NIH Office of the Director and the 14 NIH Institutes and Centers that support research on the nervous system. By pooling resources and expertise, the Blueprint identifies cross-cutting areas of research, and confronts challenges too large for any single Institute or Center. The Blueprint makes collaboration a day-to-day part of how the NIH does business in neuroscience, complementing the basic missions of Blueprint partners. During each fiscal year, the partners contribute a small percentage of their funds to a common pool. Since the Blueprint's inception in 2004, this pool has comprised less than 1 percent of the total neuroscience research budget of the partners. In 2009, the Blueprint Grand Challenges were launched to catalyze research with the potential to transform our basic understanding of the brain and our approaches to treating brain disorders. * The Human Connectome Project is an effort to map the connections within the healthy brain. It is expected to help answer questions about how genes influence brain connectivity, and how this in turn relates to mood, personality and behavior. The investigators will collect brain imaging data, plus genetic and behavioral data from 1,200 adults. They are working to optimize brain imaging techniques to see the brain's wiring in unprecedented detail. * The Grand Challenge on Pain supports research to understand the changes in the nervous system that cause acute, temporary pain to become chronic. The initiative is supporting multi-investigator projects to partner researchers in the pain field with researchers in the neuroplasticity field. * The Blueprint Neurotherapeutics Network is helping small labs develop new drugs for nervous system disorders. The Network provides research funding, plus access to millions of dollars worth of services and expertise to assist in every step of the drug development process, from laboratory studies to preparation for clinical trials. Project teams across the U.S. have received funding to pursue drugs for conditions from vision loss to neurodegenerative disease to depression. Since its inception in 2004, the Blueprint has supported the development of new resources, tools and

opportunities for neuroscientists. For example, the Blueprint supports several training programs to help students pursue interdisciplinary areas of neuroscience, and to bring students from underrepresented groups into the neurosciences. The Blueprint also funds efforts to develop new approaches to teaching neuroscience through K-12 instruction, museum exhibits and web-based platforms. From fiscal years 2007 to 2009, the Blueprint focused on three major themes of neuroscience - neurodegeneration, neurodevelopment, and neuroplasticity. These efforts enabled unique funding opportunities and training programs, and helped establish new resources including the Blueprint Non-Human Primate Brain Atlas.

Abbreviations: NIH Blueprint, Blueprint,

Synonyms: Neuroscience Blueprint

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

Keywords: animal model, collaboration, computational biology, imaging tool, initiative, neurodegeneration, neurodevelopment, neuroinformatics, brain, brain disorder, pain, drug, nervous system disorder, neurotherapeutics, neuroplasticity, neuroscience

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Resource Name: NIH Blueprint for Neuroscience Research

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Record Creation Time: 20220129T080220+0000

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Ratings and Alerts

No rating or validation information has been found for NIH Blueprint for Neuroscience Research.

No alerts have been found for NIH Blueprint for Neuroscience Research.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Kraljevi? N, et al. (2021) Behavioral, Anatomical and Heritable Convergence of Affect and Cognition in Superior Frontal Cortex. NeuroImage, 243, 118561.

Jones-London M, et al. (2020) NINDS Strategies for Enhancing the Diversity of Neuroscience Researchers. Neuron, 107(2), 212.

Akil H, et al. (2016) Neuroscience Training for the 21st Century. Neuron, 90(5), 917.

Bersten DC, et al. (2015) Inducible and reversible lentiviral and Recombination Mediated Cassette Exchange (RMCE) systems for controlling gene expression. PloS one, 10(3), e0116373.

Taniguchi H, et al. (2014) Genetic dissection of GABAergic neural circuits in mouse neocortex. Frontiers in cellular neuroscience, 8, 8.

Ciccarese P, et al. (2012) Open semantic annotation of scientific publications using DOMEO. Journal of biomedical semantics, 3 Suppl 1(Suppl 1), S1.

Modo M, et al. (2011) A conceptual framework for interdisciplinary curriculum design: a case study in neuroscience. Journal of undergraduate neuroscience education : JUNE : a publication of FUN, Faculty for Undergraduate Neuroscience, 10(1), A71.

Brumwell CL, et al. (2006) Developmental mouse brain gene expression maps. The Journal of physiology, 575(Pt 2), 343.