

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
1	PMC3508475 25048627	1000 Functional Connectomes INDI Project	The era of discovery science for human brain function was inaugurated by the collaborative launch of the 1000 Functional Connectomes Project (FCP) on December 11,2009,by leading members of the functional magnetic resonance imaging (fMRI) community. Following the precedent of full unrestricted data sharing, which has become the norm in molecular genetics, the FCP entailed the aggregation and public release (via www.nitrc.org) of over 1200 resting state fMRI (R-fMRI) datasets collected from 33 sites.	whole	primates	database ontology & data mngmt.*	functional	visualization* data analysis	cogn. & behav. neurosci. neuroinformatics*	user manual user forum citations	freeware	ABIDE, ADHD-200 (ADHD200), INDI	
2	23943281	3d Brain Atlas Reconstructor	3d Brain Atlas Reconstructor on-line service is a repository of three dimensional reconstructions of brain structures.	whole* regions	rodents* primates others	atlas* software	anatomical	visualization	neuroinformatics	user manual citations	freeware	Nencki Institute of Experimental Biology	infrastructural grant from the Polish Ministry of Regional Development POIG
3	23408326	4D SPA	Here we present a supervised 4D Structural Plasticity Analysis (4D SPA) computer method to align and match 3-Dimensional neuronal structures across different time points on a semi-automated basis.	cellular	all	software	anatomical	annotation data analysis*	neuroanatomy neuroinformatics*	user manual citations	freeware	National Chiao Tung University, Hsin Chu, Taiwan	National Institutes of Health, Hahn Family Foundation, Nancy Lurie Marks Family Foundation, National Science Council
4	nif-0000-00386	ABCD: Avian Brain Circuitry Database	Database developed for storing, retrieving and cross-referencing neuroscience information about the connectivity of the avian brain. It contains entries about the new and old terminology of the areas and their hierarchy, data on connections between brain regions, as well as a functional keyword system linked to brain regions and connections.	regions	others	database* ontology & data mngmt. atlas	anatomical* functional	annotation	neuroanatomy* neuroinformatics comput. neurosci. cogn. & behav. neurosci.	FAQs user manual citations	freeware	Szent Istvan University Faculty of Veterinary Science; Budapest; Hungary	OTKA Foundation
5	PMC3986524	A-Brain	Joint genetic and neuroimaging data analysis on large cohorts of subjects is a new approach used to assess and understand the variability that exists between individuals. The project relies on Microsoft's Azure cloud platform and leverages the complementary expertise of KerData in the area of scalable cloud data management and Parietal team (Saclay) in the field of neuroimaging.	macromol. whole*	primates	software instrumentation*	functional	data analysis* modeling & simulation	cogn. & behav. neurosci.* cell., mol., & syst. neurosci.	user manual		KerData Team, INRIA Rennes	
6	24993814	ACID - Artefact correction in diffusion MRI	The Artefact correction in diffusion MRI (ACID) toolbox is an academic software toolkit for pre-processing of diffusion MRI data, estimation of DTI indices and spatially normalization of DTI index maps, which fully integrates into the batch system of SPM8.	regions	primates	software	anatomical	visualization* data analysis	comput. neurosci.* cogn. & behav. neurosci.	user manual citations	open source	UCL Institute of Neurology, London	Wellcome Trust

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7	nif-0000-11872	Addgene - plasmid sharing portal	Non-profit plasmid repository dedicated to helping scientists around the world share high-quality plasmids. They work with laboratories to assemble a high-quality library of published and useful plasmids and their associated cloning / sequence data for use in research and discovery. By linking plasmids with articles, scientists can always find data related to the materials they request.	macromol.	mammals* insects	database* topical portal	biochemical* functional	data analysis	cell., mol., & syst. neurosci.	FAQs user manual citations	freeware* licensed		Fees collected from plasmid sales support operation of the repository.
8	24338729 PMC4058415	ADNI	Since 2005, the longitudinal Alzheimer's Disease Neuroimaging Initiative (ADNI) has been validating the use of biomarkers including blood tests, tests of cerebrospinal fluid, and MRI/ PET imaging for Alzheimer's disease (AD) clinical trials and diagnosis.	whole	primates	database	anatomical	visualization	clinical & dev. neurobiol.	user manual citations	freeware	University of California, San Francisco	National Institute on Aging; National Institute of Biomedical Imaging and Bioengineering; Alzheimer's Association and Alzheimer's Drug Discovery Foundation; U.S. Food and Drug Administration
9	PMC3578208	AFNI/SUMA Software	SUMA is a program that adds cortical surface based functional imaging analysis to the AFNI suite of programs.	regions* whole	primates	software	functional* anatomical	visualization* data analysis	neuroinformatics* cogn. & behav. neurosci.	FAQs user manual user forum citations	freeware	NIMH, NIH, DHHS	
10	nif-0000-23326	Aging Genes Database	A database of genes and interventions connected with aging phenotypes including those with respect to their effects on life-span or age-related neurological diseases.	macromol.	all	database	functional	annotation	neuroinformatics clinical & dev. neurobiol.*	user manual citations	freeware	University of Washington; Washington; USA	Ellison Medical Foundation
11	PMC2525865	Allen Brain Atlas	A data portal of Allen brain institute to access the high-resolution genome wide atlases for developing and adult mouse and human brains together with neural connectivity maps.	whole* regions	rodents* primates	atlas* database ontology & data mngmt.	anatomical	visualization* data analysis annotation	cell., mol., & syst. neurosci.* neuroanatomy neuroinformatics clinical & dev. neurobiol.	FAQs user manual user forum blog/social networking citations	freeware	Allen institute	Allen institute
12	PMC4033128	Allen Brain Atlas-Driven Visualizations (ABADV)	A web-based application created for visualizing expression energy data from the Allen Brain Atlas (ABA).	macromol.	rodents	software	functional	visualization	neuroinformatics cell., mol., & syst. neurosci.*	user manual	open source	University of California, Irvine	Intelligence Advanced Research Projects Activity (IARPA)
13	PMC3374366	Allman lab: microscopic anatomy of cerebral cortex	In our laboratory, we are mainly concerned with brain evolution as revealed through the comparative study of brain structure and with the neural mechanisms of economic and social decision-making.	cellular* regions whole	mammals	topical portal	anatomical* functional	visualization* annotation	neuroanatomy* cogn. & behav. neurosci. clinical & dev. neurobiol.	user manual citations	freeware	California Institute of Technology, Pasadena, CA, USA	James S. McDonnell Foundation
14	nif-0000-20935	AmiGO	AmiGO 2 is a project to create the next generation of AmiGO--the current official web-based set of tools for searching and browsing the Gene Ontology database.	macromol.	all	database* ontology & data mngmt.	biochemical* physiological	annotation* visualization	neuroinformatics* cell., mol., & syst. neurosci.	user manual user forum citations	freeware	GO	National primates Genome Research Institute
15	nif-0000-07730	Antibody Registry	Public registry of antibodies with unique identifiers for commercial and non-commercial antibody reagents to give researchers a way to universally identify antibodies used in publications.	macromol.	all	database* ontology & data mngmt. topical portal	biochemical	annotation	neuroinformatics* cell., mol., & syst. neurosci.	user manual citations	freeware	NIF	

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16	PMC4009425	ANTS	Advanced Normalization Tools (ANTS) extracts information from complex datasets that include imaging. ANTs development is led by Brian Avants and supported by other researchers and developers at PICSL and other institutions.	whole regions*	primates	software ontology & data mngmt.*	anatomical	data analysis annotation*	neuroinformatics clinical & dev. neurobiol.*	user manual user forum citations	open source	Penn Image Computing & Science Lab	
17	25433513	ANTsR	To interface the supervised learning capabilities of the random forest model with regularized probabilistic segmentation using the recently developed ANTsR package a comprehensive statistical and visualization interface between the popular Advanced Normalization Tools (ANTS) and the R statistical project.	whole* regions	primates	software	anatomical	annotation data analysis visualization*	clinical & dev. neurobiol.* cogn. & behav. neurosci. neuroinformatics	user manual	open source	University of Virginia	NIH
18	24234916	AphasiaBank	AphasiaBank is construction of a shared database of multimedia interactions for the study of communication in aphasia. The ultimate goal of this work is the improvement of evidence-based therapy for aphasia.	whole	primates	database* ontology & data mngmt.	functional	visualization* annotation	cogn. & behav. neurosci. clinical & dev. neurobiol.* neuroinformatics	user manual citations	freeware	AphasiaBank consortium	NIH-NIDCD
19	10.4249/scholarpedia.1463	ARGoS	ARGoS is a state-of-the-art, open source robot simulator. Its main design focus is the simulation of large heterogeneous swarms of robots.	whole	all	software	functional	neurotechnology	cognitive & behavioral neuroscience	user manual user forum citations	freeware	Swarmanoid project	ERC Advanced Grant E-SWARM
20	PMC3427544	Artifact Detection Tools (ART)	Toolbox for post-processing fMRI data. Includes software for comprehensive analysis of sources of artifacts in timeseries data including spiking and motion. Most compatible with SPM processing, but adaptable for FSL as well.	whole regions*	primates	software	functional* anatomical	data analysis* visualization	cogn. & behav. neurosci.* neuroinformatics	user manual user forum citations	open source	MIT	NIH
21	PMC3741535	AtlasWerks	AtlasWerks is an open-source (BSD license) software package for medical image atlas generation.	whole regions*	primates	software	anatomical	visualization	neuroanatomy clinical & dev. neurobiol.* neuroinformatics	user manual	open source	Scientific Computing and Imaging Institute (SCI)	
22	PMC4174732	Audacity	Audacity is free, open source, cross-platform software for recording and editing sounds.	whole	primates	software* instrumentation	functional	neurotechnology	cogn. & behav. neurosci.	user manual user forum FAQs citations	open source		runs on donations
23	21573886	Automated Reconstruction of Complex Curvilinear Structures	A novel probabilistic approach to fully automated delineation of tree structures in noisy 2D images and 3D image stacks. Unlike earlier methods that rely mostly on local evidence, ours builds a set of candidate trees over many different subsets of points likely to belong to the optimal tree and then chooses the best one according to a global objective function that combines image evidence with geometric priors.	cellular	rodents	software	anatomical	visualization* data analysis	neuroanatomy* comput. neurosci. neuroinformatics	user manual citations		Cole Polytechnique Fedarale de Lausanne, Switzerland	
24	PMC3885811	AutoSeg	AutoSeg is a novel C++ based application developped at UNC-Chapel Hill that performs automatic brain tissue classification and structural segmentation.	regions whole*	primates	software atlas*	anatomical	visualization* annotation	neuroinformatics* neuroanatomy	user manual user forum citations	open source	University of north carolina chapell hill	NIH
25	nif-0000-90175	BAMS Cells	BAMS is an online resource for information about neural circuitry.	cellular* regions	rodents	database* ontology & data mngmt.	anatomical	annotation	neuroanatomy* neuroinformatics	user manual citations	freeware	Brain Architecture Management System	NIMH, NINDS, NIBIB

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26	PMC4224204	Batch Entrez	Allows to upload a file of GIs or accession numbers from the Nucleotide or Protein databases, or upload a list of record identifiers from other Entrez databases	macromol.	all	software	functional	data analysis	cell., mol., & syst. neurosci. neuroinformatics*	user manual citations	freeware	NCBI	NIH
27	PMC3499764	BCI2000	BCI2000 is a general-purpose system for brain-computer interface (BCI) research. It can also be used for data acquisition, stimulus presentation, and brain monitoring applications.	whole	primates	software instrumentation*	physiological	neurotechnology* data analysis	cell., mol., & syst. neurosci.	user manual user forum citations	freeware	Wadsworth Center of the New York State Department of Health	NIH/NIBIB
28	PMC4224204	Berkeley Drosophila Genome Project (BDGP)	We use high throughput 96-well plate RNA in situ protocol to determine patterns of gene expression during embryogenesis for Drosophila genes represented in non-redundant sets of Drosophila ESTs, the DGC collections and the Drosophila Gold Collection.	macromol.	insects	database* ontology & data mngmt.	anatomical* functional	annotation visualization data analysis*	cell., mol., & syst. neurosci.* neuroinformatics	user manual FAQs citations	freeware	Lawrence Berkeley National Laboratory, Berkeley CA	
29	PMC3437523	BESA: Brain Electrical Source Analysis	BESA GmbH consists of three business units: BESA Research, BESA Clinical and BESA Systems. The first two business units continuously develop state-of-the-art software for researchers and clinicians in the field of EEG/MEG. Our tools provide the latest technology in a user-friendly, workflow-orientated environment. BESA Systems offers individual software solutions for customers.	whole* regions	primates	software	physiological* anatomical	data analysis* visualization	clinical & dev. neurobiol.* cogn. & behav. neurosci.	user manual citations	licensed		
30	nif-0000-24919	Biocompare	A web catalog of over 1M antibodies from hundreds of different companies and other research supplies. Biocompare has made large quantities of data available to the antibodyregistry.org facilitating tagging important research reagents to literature and continues to work with the antibody registry.	macromol.* cellular	all	database* ontology & data mngmt.	biochemical	annotation* visualization	neuroinformatics* cell., mol., & syst. neurosci.	FAQs user manual user forum blog/social networking citations	licensed* freeware	NA	NA
31	nif-0000-00432	BioGRID	A curated protein-protein and genetic interaction repository of raw protein and genetic interactions from major model organism species, with data compiled through comprehensive curation efforts.	macromol.	all	database* software	biochemical	annotation	cell., mol., & syst. neurosci. neuroinformatics*	user manual user forum citations	freeware	Princeton University; New Jersey; USA, University of Edinburgh; Scotland; United Kingdom, Mount Sinai Hospital; Ontario; Canada, University of Montreal; Montreal; Canada	NIH, BBSRC, CIHR, IRSC
32	23319241	BioImage Suite	BioImage Suite is an integrated image analysis software suite developed at Yale University. BioImage Suite has extensive capabilities for both neuro/cardiac and abdominal image analysis and state of the art visualization.	whole* regions	primates	software	anatomical* functional	visualization	clinical & dev. neurobiol.* cogn. & behav. neurosci. neuroinformatics	user manual user forum citations	freeware	Yale University	NIH, NIBIB
33	10.4249/scholarpedia.3036	BioModels Database	BioModels Database is a repository of computational models of biological processes. Models described from literature are manually curated and enriched with cross-references.	macromol.	all	database ontology & data mngmt.*	biochemical	modeling & simulation* annotation	cell., mol., & syst. neurosci.* neuroinformatics comput. neurosci.	user manual FAQs citations	freeware	EMBL-EBI	EMBL-EBI

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34	PMC3338117 Nif-0000-23346	Bioportal	Open repository of biomedical ontologies that provides access via Web browsers and Web services to ontologies.	all	all	ontology & data mngmt.	all	annotation	clinical & dev. neurobiol.* neuroinformatics cogn. & behav. neurosci.	user manual user forum blog/social networking citations	freeware	National Center for Biomedical Ontology, Stanford University; California; USA	NHGRI, the NHLBI, and the NIH Common Fund
35	PMC3437523	BioSemi ActiveTwo system	ActiveTwo: 280-channel, DC amplifier, 24-bit resolution, biopotential measurement system with Active Electrodes	whole	primates	instrumentation* software	physiological	data analysis* neurotechnology	cogn. & behav. neurosci.* cell., mol., & syst. neurosci.	FAQs user manual user forum citations	licensed* freeware open source		
36	PMC3930095	BioSig	BioSig is an open source software library for biomedical signal processing, featuring for example the analysis of biosignals such as the electroencephalogram (EEG), electrocorticogram (ECoG), electrocardiogram (ECG), electrooculogram (EOG), electromyogram (EMG), respiration, and so on.	whole	primates	software	physiological	data analysis	neuroinformatics* cogn. & behav. neurosci. clinical & dev. neurobiol.	user manual user forum citations	open source		
37	nif-0000-00241	Bloomington Drosophila Stock Center	Collects, maintains and distributes Drosophila melanogaster strains for research. Emphasis is placed on genetic tools that are useful to a broad range of investigations.	whole* cellular macromol.	insects	database* ontology & data mngmt.	anatomical functional*	annotation	cell., mol., & syst. neurosci.* neuroinformatics	user manual citations	licensed* freeware	Indiana University	NIH
38	nif-0000-10378	BMI-Platform	Brain Machine Interface Platform (BMI PF) accumulates BMI(Brain Machine Interface)-related data that are useful for education and experiment.	whole	primates	database* software	physiological* functional	modeling & simulation	cogn. & behav. neurosci.* comput. neurosci.	user manual citations	freeware	Neuroinformatics Japan Center, RIKEN Brain Science Institute	
39	PMC3539731	Boston Retinal Implant Project	The Boston Retinal Implant Project is dedicated to helping patients with any form of visual impairment. Our"Smart"glasses can be used to help patients with congenital or acquired blindness. Our retinal prosthesis is designed to help patients with certain forms of acquired blindness, specifically"outer retinal blindness"like RP and AMD.	regions* whole	primates	instrumentation* software	functional	neurotechnology	clinical & dev. neurobiol.* cell., mol., & syst. neurosci. cogn. & behav. neurosci.	user manual citations	licensed		
40	23893006	BRAID: Brain Image Database	The BRAIn Image Database (BRAID) is a large-scale archive of normalized digital spatial and functional data with an analytical query mechanism.	whole regions*	primates	database* software	anatomical	visualization* data analysis	clinical & dev. neurobiol.* neuroinformatics	user manual citations	open source	Department of Radiology University of Pennsylvania	NIH
41	20882369	Brain Connectivity Toolbox	contains a large selection of complex network measures in Matlab. These measures are increasingly used to characterize structural and functional brain connectivity datasets.	regions* whole	primates Others*	software* ontology & data mngmt.	anatomical	visualization modeling & simulation data analysis*	neuroinformatics* cogn. & behav. neurosci.	user manual citations	open source	Indiana University	
42	PMC3515865 nif-0000-00019 21789500	Brain Info	Portal to neuroanatomical information on the Web that helps you identify structures in the brain and provides a variety of information about each structure by porting you to the best of 1500 web pages at 100 other neuroscience sites.	regions* whole	mammals	ontology & data mngmt.* database	anatomical	annotation* visualization	neuroanatomy* neuroinformatics	user manual citations	freeware	University of Washington; Washington; USA, University of California at San Diego; California; USA	NLM, NIH Office of the Director, The primates Brain Project., NCRR, NIMH, NIBIB

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43	24085487	Brain Operations Database (BODB)	An environment for documenting how a model for cognitive or systems neuroscience is linked to relevant Brain Operating Principles (BOPs), brain regions modeled, Summaries of the Experimental Data (SEDs) used to design the model, and comparisons between Summaries of Simulation Results (SSRs) and SEDs used to test the model.	whole* regions	primates	database	physiological	modeling & simulation* visualization	cogn. & behav. neurosci.* comput. neurosci. neuroinformatics	user manual citations	freeware	University of Southern California Brain Project (USCBP)	NSF
44	10.1007/s12021-014-9219-4	BrainBase	The BrainBase database, the web application BrainBaseWeb and the desktop application BrainGazer that can be used to access its content is the result of several joint projects of the Dickson Group	cellular* regions	insects	software	anatomical	data analysis* visualization	neuroinformatics* comput. neurosci. neuroanatomy	user manual citations	freeware	CIR Lab, Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Vienna, Austria	the European Union, the Austrian Sciences Fund
45	10.1007/s12021-012-9171-0	Brain-Computer Interfaces competition III	The goal of the"BCI Competition III" is to validate signal processing and classification methods for Brain-Computer Interfaces (BCIs).	whole	primates	ontology & data mngmt.* instrumentation topical portal	physiological	data analysis* neurotechnology	neuroinformatics* cell., mol., & syst. neurosci. cogn. & behav. neurosci.	user manual citations	freeware	Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen, The Netherlands	BrainGain Smart Mix Programme of the Netherlands Ministry of Economic Affairs and the Netherlands Ministry of Education, Culture and Science
46	nlx_149360 21373993	brain-development.org	Data set of nearly 600 MR images from normal, healthy subjects, along with demographic characteristics, collected as part of the Information extraction from Images (IXI) project available for download. Tar files containing T1, T2, PD, MRA and DTI (15 directions) scans from these subjects are available.	whole* regions	primates	software* atlas ontology & data mngmt.	anatomical	data analysis* annotation	clinical & dev. neurobiol.* neuroinformatics	user manual citations	freeware	Imperial College London; London; United Kingdom	EPSRC
47	10.1007/s12021-010-9083-9	BrainKnowledge: A Human Brain Function Mapping Knowledge-Base System	We present a human brain function mapping knowledge-base (BrainKnowledge) system that integrates the fMRI results and information in the fMRI literature together.	whole* regions	primates	software* ontology & data mngmt.	functional* anatomical	visualization* annotation	neuroinformatics	user manual citations	freeware	Department of Electrical Engineering, National Taiwan University, Taiwan	National Science Council (Taiwan)
48	10.1007/s12021-013-9182-5 nlx_91840	BrainLiner	Portal and tools for sharing and editing neurophysiological and behavioral data for brain-machine interface research.	whole* regions cellular	mammals	database* software	physiological* functional anatomical	modeling & simulation* data analysis	cogn. & behav. neurosci.* comput. neurosci.	user manual blog/social networking citations	freeware	ATR; Kyoto; Japan	Japanese Ministry of Education Culture Sports Science and Technology (MEXT)
49	10.1007/s12021-011-9125-y	Brainmap.org	BrainMap is a database of published functional and structural neuroimaging experiments with coordinate-based results (x,y,z) in Talairach or MNI space. The goal of BrainMap is to develop software and tools to share neuroimaging results and enable meta-analysis of studies of human brain function and structure in healthy and diseased subjects.	whole* regions	primates	database* software ontology & data mngmt.	anatomical* functional	modeling & simulation* data analysis annotation	cogn. & behav. neurosci.* neuroinformatics	user manual user forum citations	freeware	University of Texas Health Science Center San Antonio.	NIMH

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50	nif-0000-00093	BrainMaps.org	An interactive multiresolution brain atlas that is based on over 20 million megapixels of sub-micron resolution, annotated, scanned images of serial sections of both primate and non-primate brains and integrated with a high-speed database for querying and retrieving data about brain structure and function. Currently featured are complete brain atlas datasets for various species, including Macaca mulatta, Chlorocebus aethiops, Felis catus, Mus musculus, Rattus norvegicus, Tyto alba and many other vertebrates. BrainMaps is currently accepting histochemical, immunocytochemical, and tracer connectivity data, preferably whole-brain. In addition, they are interested in EM, MRI, and DTI data.	whole* regions	primates* rodents others	database* atlas ontology & data mngmt.	anatomical	visualization* annotation	neuroanatomy* neuroinformatics	user manual citations	freeware	University of California at Davis; California; USA	NIH
51	PMC3607831	BrainNet Viewer	BrainNet Viewer is a brain network visualization tool, which can help researchers to visualize structural and functional connectivity patterns from different levels in a quick, easy, and flexible way.	regions whole*	primates	software	anatomical* functional	visualization	neuroinformatics neuroanatomy* clinical & dev. neurobiol.	user manual user forum citations	open source	Beijing Normal University	Beijing Natural Science Foundation
52	24081830	Brainography	A customizable network visualization tool that creates three-dimensional brain representations based on any choice of cortical or subcortical parcellation of a brain.	regions	primates* rodents	software	anatomical	visualization* data analysis modeling & simulation	neuroanatomy* neuroinformatics	user manual	open source	Weill Cornell Medical College, New York, NY	Leon Levy Foundation Neuroscience Fellowship, NIH
53	23836390	BrainParser	Brain Parser software uses a novel statistical-learning technique to segment brain regions of interest (ROIs) based on a training set of data and generates 3D MRI volumes.	regions* whole	primates	software	anatomical	visualization	neuroinformatics* neuroanatomy	user manual user forum citations	open source	University of California, San Diego	
54	PMC3539731	BrainScaleS	The BrainScaleS project aims at understanding function and interaction of multiple spatial and temporal scales in brain information processing.	regions	all	instrumentation* software	functional	neurotechnology	cell., mol., & syst. neurosci.* cogn. & behav. neurosci.	user manual citations	freeware* licensed	Ruprecht-Karls-Universitat Heidelberg	EU FET-Proactive FP7
55	nlx_23971	BrainSpan: Exon microarray summarized to genes	BrainSpan, an atlas of the developing human brain, is designed as a foundational resource for studying transcriptional mechanisms involved in human brain development. One of the BrainSpan datasets, Exon microarray summarized to genes, is presented. It is a downloadable archive of files containing normalized RNA-Seq expression values for analysis.	regions	primates	atlas* database ontology & data mngmt.	biochemical	visualization* data analysis annotation	clinical & dev. neurobiol.* neuroanatomy neuroinformatics	user manual blog/social networking citations	freeware	Brainspan consortium	NIMH
56	PMC4052339	Brainstorm Toolbox	Brainstorm is a collaborative, open-source application dedicated to MEG/EEG/sEEG/ECOG data analysis (visualization, processing and advanced source modeling).	whole	primates	software* instrumentation ontology & data mngmt.	physiological* anatomical	data analysis	cogn. & behav. neurosci.* cell., mol., & syst. neurosci.	user manual user forum blog/social networking citations	open source	McGill University, Montreal, QC Canada	NIH
57	21698393	BrainVisa	It contains tools to measure global and regional gyrification, gray matter thickness and sulcal and gyral white matter spans.	regions	primates	software	anatomical	visualization data analysis*	neuroinformatics neuroanatomy*	user manual user forum citations	open source	Department of Psychiatry, University of Maryland School of Medicine, Baltimore, MD, USA	National Institute of Biomedical Imaging and Bioengineering

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58	nif-0000-00064	Brede Database	A database of human data from functional neuroimaging scientific articles containing Talairach coordinates that provides data for novel information retrieval techniques and automated meta-analyses.	whole	primates	database* ontology & data mngmt.	functional* anatomical	annotation* data analysis	cogn. & behav. neurosci. neuroinformatics*	user manual citations	freeware	Technical University of Denmark; Lyngby; Denmark	EU, (Project MAPAWAMO)
59	20857234	BrianSimulator.Org	Brian is a simulator for spiking neural networks available on almost all platforms. The motivation for this project is that a simulator should not only save the time of processors, but also the time of scientists.	all	all	software	functional	modeling & simulation	cell., mol., & syst. neurosci.* comput. neurosci.	FAQs user manual user forum blog/social networking citations	open source	Universitat Paris Descartes, Paris, France	European Research Council
60	10.1007/s12021-014-9232-7	BTMorph	Small Python library containing a data structure and tools to represent and analyze neuronal morphologies stored in the de facto standard SWC format	cellular	all	software	anatomical	data analysis* visualization	neuroinformatics* neuroanatomy	user manual user forum citations	open source	Computational Neuroscience Unit, Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan	
61	25129841	CADDementia	The Biomedical Imaging Group Rotterdam aims at developing and validating advanced techniques for the processing and analysis of large, complex, and heterogeneous medical and biological image data sets.	whole* regions	primates	topical portal software*	anatomical	data analysis modeling & simulation*	clinical & dev. neurobiol.* cogn. & behav. neurosci. neuroinformatics	user manual	freeware	Erasmus MC: University Medical Center Rotterdam	Netherlands Organization for Scientific Research
62	nif-0000-00240	Caenorhabditis Genetics Center	Acquires, maintains, and distributes genetic stocks and information about stocks of the small free-living nematode Caenorhabditis elegans for use by investigators initiating or continuing research on this genetic model organism.	whole	others	ontology & data mngmt.* database	biochemical	annotation	clinical & dev. neurobiol.* neuroinformatics	user manual FAQs	freeware licensed*	University of Minnesota; Minnesota; USA	NIH
63	PMC3417225	CANDI Neuroimaging Access Point	The Child and Adolescent NeuroDevelopment Initiative (CANDI) at UMass Medical School is making available a series of structural brain images, as well as their anatomic segmentations, demographic and behavioral data and a set of related morphometric resources (static and dynamic atlases).	regions	primates	software atlas*	anatomical	visualization	neuroinformatics clinical & dev. neurobiol.* neuroanatomy cogn. & behav. neurosci.	user manual user forum	open source	University of Massachusetts Medical School	NIH-NIMH
64	PMC4038780	Canonical Block/Canonical PDC/DC Module	Partial directed coherence (PDC) and directed coherence (DC) which describe complementary aspects of the directed information flow between pairs of univariate components that belong to a vector of simultaneously observed time series have recently been generalized as bPDC/bDC, respectively	regions	all	software	functional	modeling & simulation	cell., mol., & syst. neurosci.* comput. neurosci.	user manual	open source	Princeton University	
65	PMC4152885	Capo Caccia Cognitive Neuromorphic Engineering Workshop	This is a very unconventional and exciting workshop where we bring together experts in neuroscience, neuromorphic engineering, cognitive sciences and robotics to discuss about the open problems in these fields and attempt to find routes to their resolution.	whole	all	topical portal ontology & data mngmt.*	functional	annotation neurotechnology*	cell., mol., & syst. neurosci. neuroinformatics*	user manual citations	freeware	ETH Zurich	iniForum

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
66	PMC3546310 nif-0000-00016	Caret	Caret is a free, open-source, software package for structural and functional analyses of the cerebral and cerebellar cortex. Caret runs on Apple (Mac OSX), Linux, and Microsoft Windows operating systems.	whole* regions	primates	software	functional* anatomical	visualization	cogn. & behav. neurosci.	user forum blog/social networking citations	freeware	Washington University School of Medicine, Saint Louis, Missouri	primates Brain Project, NSF, NIMH, NCI, NLM, NASA, National Partnership for Advanced Computational Infrastructure
67	24497233	CARLsim	CARLsim is an efficient C/C++-based Spiking Neural Network (SNN) simulator that allows execution on both generic x86 CPUs and standard off-the-shelf GPUs.	whole regions*	all	software	functional	modeling & simulation	comput. neurosci.* cogn. & behav. neurosci.	user manual citations	open source	University of California, Irvine	Defense Advanced Research Projects Agency (DARPA)
68	PMC4005939	CARMEN	CARMEN is an online collaborative Virtual Laboratory (VL) for neurophysiology that provides data and analysis resources.	cellular* regions whole	all	software* ontology & data mngmt. topical portal	physiological	data analysis* annotation modeling & simulation	cell., mol., & syst. neurosci.* neuroinformatics comput. neurosci.	user manual citations	freeware	Computer Science Department at the University of York, UK,	Biotechnology and Biological Sciences Research Council (UK)
69	PMC4224098	Cascaded Hierarchical Model (CHM)	Cascaded hierarchical model is an image segmentation framework, which learns contextual information in a hierarchical framework.	cellular macromol.*	all	software	anatomical	annotation* visualization modeling & simulation	neuroinformatics comput. neurosci.*	user manual citations	open source	The University of Utah	
70	nif-0000-00007	Cell centered database (CCDB)	Database for high resolution 2D, 3D and 4D data from light and electron microscopy, including correlated imaging that makes unique and valuable datasets available to the scientific community for visualization, reuse and reanalysis.	cellular	rodents* primates insects others	database* ontology & data mngmt.	anatomical	visualization* annotation	cell., mol., & syst. neurosci.* neuroanatomy neuroinformatics	user manual citations	freeware	University of California at San Diego; California; USA	NCRR, The primates Brain Project., NSF, NIDA, NIMH, NIBIB
71	nif-0000-20828 10.4249/scholarpedia.3036	CellML	Repository of biological models created using CellML, a free, open-source, extensible markup language based standard for defining mathematical models of cellular function.	cellular	all	software* database ontology & data mngmt.	anatomical functional physiological*	modeling & simulation	comput. neurosci.* cell., mol., & syst. neurosci. neuroinformatics	user manual citations	open source	CellML	Wellcome Trust, Royal Society of New Zealand, (Maurice Wilkins Centre for Molecular Biodiscovery)
72	20361275	Cellular Dynamic Simulator (CDS)	CDS was designed to simulate diffusion and chemical reactions within crowded molecular environments. CDS employs an event driven algorithm that allows precise calculation of the timing of collisions, reactions and other events for each molecule in the environment.	macromol.	all	software	biochemical	modeling & simulation* visualization	comput. neurosci.* cell., mol., & syst. neurosci.	user manual citations	open source	University of Texas	NIH
73	10.4249/scholarpedia.3036	Cellular Open Resource (COR)	COR (Cellular Open Resource) is a Microsoft Windows environment for cellular modeling that is built CellML (except for reactions and metadata which are not supported). It offers, through CellML, an "out of the box" access to a large database of single cell models.	cellular	all	software	physiological	modeling & simulation	comput. neurosci.* cell., mol., & syst. neurosci. neuroinformatics	user manual FAQs citations	open source	University of Oxford	
74	10.4249/scholarpedia.5749	Center for network neuroscience	The UNT Center for Network Neuroscience was established January 1, 1987 to facilitate transdisciplinary studies of the self-organization and electrophysiological dynamics of mammalian networks in cell culture.	cellular	all	instrumentation	physiological	modeling & simulation	comput. neurosci.* cell., mol., & syst. neurosci.	user manual citations	licensed	University of north texas	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
75	PMC3572679	Centro E.piaggio software	A collection of software including NeMO, an image processing and morphometrics extraction software that performs 3-way PCA on neuronal images.	cellular	all	software	anatomical	visualization data analysis*	neuroanatomy* comput. neurosci. neuroinformatics	user manual citations	open source	Interdepartmental Research Center E. Piaggio, University of Pisa	
76	nif-0000-10193	Cerebellar Platform	Cerebellar Platform is a digital research archive for cerebellar research. Available resources include mini-reviews of contemporary cerebellar research, list of papers and mathematical models for cerebellar operation.	regions	mammals	topical portal* database	anatomical* physiological	modeling & simulation* annotation	neuroinformatics neuroanatomy*	user manual user forum citations	freeware	RIKEN BSI	Japan Society for the Promotion of Science
77	nif-0000-02655	ChEBI	Freely available dictionary of molecular entities focused on 'small' chemical compounds. The term molecular entity refers to any constitutionally or isotopically distinct atom, molecule, ion, ion pair, radical, radical ion, complex, conformer, etc., identifiable as a separately distinguishable entity. The molecular entities in question are either products of nature or synthetic products used to intervene in the processes of living organisms.	macromol.	all	database ontology & data mngmt.* software	biochemical	data analysis annotation*	cell., mol., & syst. neurosci.* neuroinformatics	user manual user forum FAQs citations	freeware	European Bioinformatics Institute	European Commission, (SLING, FELICS, BioBabel), BBSRC
78	2380278	CHILDES	CHILDES is the child language component of the TalkBank system. TalkBank is a system for sharing and studying conversational interactions	whole	primates	database* software ontology & data mngmt. topical portal	functional	data analysis* annotation	cogn. & behav. neurosci.* neuroinformatics	user manual citations	freeware	Carnegie Mellon University	NIH
79	PMC4053074	Chronux	Chronux is an open-source software package for the analysis of neural data. It was originally developed through a collaborative research effort based at the Mitra Lab in Cold Spring Harbor Laboratory. This software includes several specialized mini-packages for spike sorting, local regression, audio segmentation, and other data-analysis tasks typically encountered by a neuroscientist. This software is now maintained by medametrics, LLC.	whole	all	software	functional* physiological	data analysis	cell., mol., & syst. neurosci.	user manual citations	open source	Cold Spring Harbor Laboratory, Cold Spring Harbor, NY	NIMH, medametrics LLC
80	nif-0000-37639	CIL-Cell Image Library	Freely accessible, public repository of vetted and annotated microscopic images, videos, and animations of cells from a variety of organisms, showcasing cell architecture, intracellular functionalities, and both normal and abnormal processes. Explore by Cell Process, Cell Component, Cell Type or Organism. The Cell includes images acquired from historical and modern collections, publications, and by recruitment. Contributions are welcome.	cellular	all	database* ontology & data mngmt.	anatomical* biochemical	visualization* annotation	cell., mol., & syst. neurosci.* neuroanatomy clinical & dev. neurobiol. neuroinformatics	user manual citations	freeware	American Society for Cell Biology	NIGMS

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
81	nlx_152559	CLARITY resources	Protocols and other training materials related to the CLARITY protocol, a technique for the transformation of intact tissue into a nanoporous hydrogel-hybridized form (cross-linked to a three-dimensional network of hydrophilic polymers) that is fully assembled but optically transparent and macromolecule-permeable.	whole macromol.*	rodents* primates	topical portal	anatomical* biochemical	visualization	neuroanatomy* cell., mol., & syst. neurosci.	user manual citations	freeware	Stanford University; California; USA	NIMH, NSF, Simons Foundation, Stanford University; California; USA, NIDA, DARPA, (REPAIR program), Wiegers Foundation, Snyder Foundation, Christopher and Dana Reeve Foundation, Gatsby Charitable Foundation, Yu Foundation, Burroughs Wellcome Fund, Samsung, Helen Hay Whitney Foundation, NIH, (MSTP)
82	25048627	Clinical Predictions from Structural Brain MRI	This website is dedicated to support and disseminate the empirical data employed in a large-scale experiment, where clinical variables are predicted from structural brain MRI scans.	whole* regions	primates	ontology & data mngmt.* software	anatomical	data analysis	clinical & dev. neurobiol.* cogn. & behav. neurosci. neuroinformatics	user manual	freeware	Massachusetts General Hospital	NIH
83	nif-0000-21091 PMC3594762	Clinicaltrials.gov	ClinicalTrials.gov offers up-to-date information for locating federally and privately supported clinical trials for a wide range of diseases and conditions. A clinical trial (also clinical research) is a research study in human volunteers to answer specific health questions. Interventional trials determine whether experimental treatments or new ways of using known therapies are safe and effective under controlled environments.	whole	primates	database* ontology & data mngmt.	functional	annotation* data analysis	clinical & dev. neurobiol.* neuroinformatics cogn. & behav. neurosci.	user manual citations	freeware	NLM	NLM
84	nlx_151671	ClinVar	Freely accessible, public archive of aggregated information about sequence variation and its relationship to human health that provides reports of the relationships among human variations and phenotypes along with supporting evidence.	macromol.	all	database* ontology & data mngmt.	functional	data analysis* annotation	neuroinformatics* clinical & dev. neurobiol. cell., mol., & syst. neurosci.	user manual FAQs citations	freeware	NCBI	
85	nif-0000-00022 PMC3530798	CoCoMac 2nd edition	Online access (html or xml) to structural connectivity ('wiring') data on the Macaque brain. The database has become by far the largest of its kind, with data extracted from more than four hundred published tracing studies.	regions* whole	primates	database	anatomical* physiological	visualization* data analysis modeling & simulation	cell., mol., & syst. neurosci. cogn. & behav. neurosci. comput. neurosci.* neuroinformatics	user manual citations	freeware	German Neuroinformatics Node	German neuroinformatics node, Computational and Systems Neuroscience group at the Juelich research institute
86	25240319	Cognitive Atlas	The Cognitive Atlas is a collaborative knowledge building project that aims to develop a knowledge base (or ontology) that characterizes the state of current thought in cognitive science.	whole* regions	primates	ontology & data mngmt.	functional anatomical*	annotation	cogn. & behav. neurosci.* neuroinformatics	user manual	freeware	Stanford University	NIMH

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87	21643732	CogPO Wiki	The goal of CogPO is to develop, evaluate, and distribute a domain ontology of cognitive paradigms for application and use in the functional neuroimaging community	whole regions*	primates	ontology & data mngmt.	functional	annotation* visualization	neuroinformatics cogn. & behav. neurosci.*	user manual citations	freeware	UT Health Science Center	NIMH
88	PMC3727653	COINS	As neuroimaging research continues to grow, dynamic neuroinformatics systems are necessary to store, retrieve, mine, and share the massive amounts of data. The Collaborative Informatics and Neuroimaging Suite (COINS) has been created to facilitate communication and cultivate a data community.	whole* regions	primates	database	anatomical* functional	data analysis	clinical & dev. neurobiol.* cogn. & behav. neurosci. neuroinformatics	user manual FAQs citations	freeware	Mind Research Network	NIH
89	10.3389/frobt.2014.00009	Compumedics Neuroscan	Compumedics Neuroscan is a world-leading developer of research software for neurophysiology, neuroimaging, and neurodiagnostic systems. Neuroscan provides tools to increase understanding and improve treatment of this most complex and least understood system of the human body; the brain.	whole* regions	primates	software instrumentation*	functional* physiological	data analysis neurotechnology*	cogn. & behav. neurosci.* cell., mol., & syst. neurosci. clinical & dev. neurobiol. neuroinformatics	user manual citations	licensed	Australia Corporate HQ	
90	PMC4026698	CONN : functional connectivity toolbox	CONN is a Matlab-based cross-platform software for the computation, display, and analysis of functional connectivity in fMRI (fcMRI).	regions whole*	primates	software	functional	visualization data analysis*	cogn. & behav. neurosci. clinical & dev. neurobiol.* neuroinformatics	user manual user forum FAQs citations	freeware	MIT	
91	22437992	Connection-Set Algebra	The connection-set algebra (CSA) is a novel and general formalism for the description of connectivity in neuronal network models, from small-scale to large-scale structure.	whole	all	software ontology & data mngmt.*	functional	modeling & simulation	comput. neurosci. cogn. & behav. neurosci.*	user manual citations	freeware	School of Computer Science and Communication, KTH, 10044 Stockholm, Sweden	European Union
92	PMC3381445	CONN-fMRI connectivity toolbox	The toolbox performs seeded voxel correlations by estimating maps showing temporal correlations between the BOLD signal from given seed and that at every brain vox	whole regions*	primates	software	anatomical functional*	visualization* data analysis	cogn. & behav. neurosci. neuroinformatics*	user manual citations	open source	Massachusetts Institute of Technology (MIT)	
93	24968872	Corpus Callosum Thickness Profile Analysis Pipeline	An end-to-end pipeline for corpus callosum processing that provides automated midsagittal alignment, CC segmentation with a quality control tool, and thickness profile generation.	regions	primates	software	anatomical	visualization* data analysis	clinical & dev. neurobiol.* neuroinformatics	user manual user forum	open source	Murdoch Childrens Research Institute	Murdoch Childrens Research Institute
94	nif-0000-00255	CRCNS - Collaborative Research in Computational Neuroscience	Host and make available high quality experimental data sets valuable for testing computational models of the brain and new analysis methods.	whole* regions cellular	primates rodents* insects others	ontology & data mngmt.* topical portal	physiological	data analysis* modeling & simulation	cogn. & behav. neurosci. neuroinformatics* comput. neurosci.	user forum citations	freeware	University of California at Berkeley; California; USA	NIH, NSF
95	PMC3516126	Database for Annotation, Visualization, and Integrated Discovery (DAVID)	DAVID now provides a comprehensive set of functional annotation tools for investigators to understand biological meaning behind large list of genes.	macromol.	primates	database* software ontology & data mngmt.	functional	data analysis* annotation	neuroinformatics	user manual FAQs citations	freeware	SAIC, NIAID	NIH
96	PMC4053686	Dataspace	The purpose of the INCF Dataspace is to enable collaboration between researchers through the sharing of neuroscience data, text, images, sounds, movies, models and simulations.	all	all	database* software ontology & data mngmt.	functional	modeling & simulation* data analysis	neuroinformatics* comput. neurosci.	user manual citations	freeware	INCF	

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97	24952892	Dementia-Specific [18F]FDG-PET template for SPM normalization	The Dementia-Specific [18F]-FDG-PET template is intended for use as templates for SPM automated normalization. Created for SPM5 but compatible with previous SPM99, SPM2 and with following SPM8 and SPM12b.	regions* whole	primates	software	anatomical	visualization* data analysis	clinical & dev. neurobiol.* comput. neurosci. neuroinformatics	user manual	freeware	University College London; London; United Kingdom	wellcome trust
98	20838938	DFBIdb	DFBIdb is a suite of tools for efficient management of neuroimaging project data. Specifically, DFBIdb was designed to allow users to quickly perform routine management tasks of sorting, archiving, exploring, exporting and organising raw data.	regions* whole	primates	ontology & data mngmt.* software	anatomical	annotation data analysis*	cogn. & behav. neurosci.* neuroinformatics	user manual user forum citations	open source	Murdoch Childrens Research Institute	
99	PMC3385559	DIADEM	This site is a resource for those wishing to engage in the DIADEM challenge to create algorithmic methods for automated neuronal tracing.	cellular	all	software* topical portal	anatomical	visualization* modeling & simulation	neuroinformatics* cell., mol., & syst. neurosci. neuroanatomy	user manual FAQs citations	open source	Howard Hughes Medical Institute	Howard Hughes Medical Institute, Allen Brain Institute, George Mason University
100	PMC3880907	DICOM	Digital Imaging and Communication in Medicine (DICOM) is a data sharing standard that facilitates sharing of neuroimaging data.	whole* regions	primates	ontology & data mngmt.	anatomical	annotation	clinical & dev. neurobiol.* neuroinformatics cogn. & behav. neurosci.	user manual citations	freeware	Medical Imaging & Technology Alliance	
101	22932976	Diffusion-Oriented Tract Segmentation (DOTS)	DOTS is a fast, scalable tool developed at the Johns Hopkins University to automatically segment the major anatomical fiber tracts within the human brain from clinical quality diffusion tensor MR imaging.	regions* whole	primates	software	anatomical	visualization* annotation	cogn. & behav. neurosci. neuroanatomy* neuroinformatics	user manual user forum	open source	Johns Hopkins University	NIH
102	PMC3342677	DirectRT	DirectRT--when milliseconds really matter, this extraordinary software provides you with the accuracy you need. DirectRT was designed specifically for experiments requiring high precision stimulus presentation and reaction times from a wide variety of input hardware.	whole	primates	instrumentation* software	physiological* functional	data analysis	cogn. & behav. neurosci.	user manual FAQs citations	licensed	Empirisoft Corp.	
103	nlx_143827	DISCO: Extensible Web resource DISCOvery, registration and interoperation framework	DISCO is an information integration approach designed to facilitate interoperation among Internet resources. It consists of a set of tools and services that allows resource providers who maintain information to share it with automated systems such as NIF. NIF is then able to harvest the information and keep those sets of information up-to-date.	all	all	software ontology & data mngmt.*	all	data analysis* annotation	neuroinformatics	user manual citations	open source	Yale University School of Medicine	NIH
104	10.4249/scholarpedia.3036	DOQCS - Database of Quantitative Cellular Signaling	The Database of Quantitative Cellular Signaling is a repository of models of signaling pathways. It includes reaction schemes, concentrations, rate constants, as well as annotations on the models. The database provides a range of search, navigation, and comparison functions.	macromol.	mammals	database* ontology & data mngmt.	biochemical	modeling & simulation	comput. neurosci.* cell., mol., & syst. neurosci. neuroinformatics	user manual FAQs citations	open source	NCBS, Bangalore, India	NCBS, TIFR India
105	PMC3885811	DTIAtlasBuilder	This tool creates an Atlas image as an average of several DTI images that will be registered	regions	primates	software atlas*	anatomical	visualization data analysis*	neuroinformatics* cogn. & behav. neurosci.	user manual user forum	open source	University of North Carolina at Chapel Hill (UNC-CH)	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
106	PMC3885811	DTIAtlasFiberAnalyzer	This is a software which allows the user to study the behavior of water diffusion (using DTI data) along the length of the white matter fiber-tracts.	regions	primates	software atlas*	anatomical	visualization data analysis*	cogn. & behav. neurosci.* neuroinformatics	user manual user forum	open source	University of Utah - UNC Chapel Hill	NIH, NSF
107	PMC3885811	DTIPrep	DTIPrep performs a"Study-specific Protocol"based automatic pipeline for DWI/DTI quality control and preparation. This is both a GUI and command line tool.	whole	primates	software	anatomical	visualization* data analysis	neuroinformatics* cogn. & behav. neurosci.	user manual user forum	open source		
108	22467471	DTIWeb Application	Automatically obtain bundles of fibers grouped into anatomical regions using information-theoretic approach for automated white matter fiber tracts reconstruction	regions* whole	primates	software* atlas ontology & data mngmt.	anatomical	visualization* annotation	neuroanatomy neuroinformatics* comput. neurosci.	user manual	open source	University of Girona, Girona, Spain	
109	PMC4162418	DUKE CENTER for IN VIVO MICROSCOPY (CIVM)	Small animal imaging includes MRI, CT, x-ray, ultrasound, confocal, optical, and SPECT, all at the highest possible spatial resolution.	whole regions*	all	atlas	anatomical	visualization* annotation	neuroinformatics neuroanatomy*	user manual citations	freeware	Duke university	NIH/NBIB
110	PMC3437523	Easycap	Easy-to-order complete cap sets for EEG from 19/21, 32/40 and 64/80 channels. The electrode arrangements are based on the international 10%-system. The chosen electrode positions allow equidistant setups, suitable for all basic and advanced data analysis methods.	whole	primates	instrumentation	physiological	data analysis neurotechnology*	cogn. & behav. neurosci.* cell., mol., & syst. neurosci.	user manual citations	licensed		
111	20872095	EEG.PL	Open Database of Epileptic EEG with MRI and Post operational Assessment of Foci a Real World Verification for the EEG Inverse Solutions	whole	primates	database	physiological* anatomical	data analysis* visualization	clinical & dev. neurobiol.* neuroinformatics cell., mol., & syst. neurosci.	user manual citations	freeware	Memorial Child Hospital, Warsaw, Poland	Polish funds for science
112	nif-0000-08190	EEGbase	EEG base is a system for storage and management of EEG/ERP resources - data, metadata, tools and materials related to EEG/ERP experiments.	whole	primates	database* ontology & data mngmt.	physiological	data analysis	cogn. & behav. neurosci.	user manual	open source	University of West Bohemia; Pilsen; Czech Republic	Ministry of Education, Czech Science Foundation
113	PMC3578351	EEGLAB	EEGLAB is an interactive Matlab toolbox for processing continuous and event-related EEG, MEG and other electrophysiological data incorporating independent component analysis (ICA), time/frequency analysis, artifact rejection, event-related statistics, and several useful modes of visualization of the averaged and single-trial data.	whole	primates	software	physiological	visualization* data analysis	neuroinformatics cell., mol., & syst. neurosci.* cogn. & behav. neurosci.	user manual user forum citations	open source	The Swartz Center for Computational Neuroscience (SCCN), UCSD	
114	PMC4050739	Effect size calculator	Calculate Cohen's d and the effect-size correlation	whole	primates	software	functional	data analysis	comput. neurosci.	user manual citations	freeware	University of colarado	
115	PMC4162418	EMAP	EMA, the e-Mouse Atlas. A 3-D anatomical atlas of mouse embryo development including detailed histology. EMA includes the EMAP ontology of anatomical structure.	whole	rodents	atlas* ontology & data mngmt.	anatomical	visualization* annotation	neuroinformatics neuroanatomy clinical & dev. neurobiol.*	user manual FAQs citations	freeware	Western General Hospital, Edinburg, UK	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
116	nif-0000-21145 PMC3620563	ensembl	Freely available genome databases for vertebrates and other eukaryotic species. Users can browse or search genomes as well as DNA and protein sequences. The site also links to the Ensembl blog with updates on new species and sequences as they are added to the database.	macromol.	all	database	biochemical	data analysis	neuroinformatics	user manual FAQs blog/social networking citations	freeware	European Bioinformatics Institute, Wellcome Trust Sanger Institute; Hinxton; United Kingdom	Wellcome Trust, EMBL, EU, (FP7, FP6), MRC, NHGRI, BBSRC
117	10.4249/scholarpedia.1463	E-SWARM: Engineering Swarm Intelligence Systems	The main goals of E-SWARM are: the development of scientific foundations for the engineering of artificial swarm intelligence systems the creation of an engineering methodology for the construction of swarm intelligence systems the development of concrete tools and techniques with which to construct swarm intelligence systems	whole	all	software topical portal*	functional	modeling & simulation neurotechnology*	cell., mol., & syst. neurosci. cogn. & behav. neurosci. comput. neurosci.* neuroinformatics	user manual citations	freeware	IRIDIA, UniversiteLibre de Bruxelles, Brussels, Belgium	European Research Council
118	nlx_151313	EU Clinical Trials Register	Database of European clinical trials containing information on interventional clinical trials on medicines. The information available dates from 1 May 2004 when national medicine regulatory authorities began populating the EudraCT database, the application that is used by national medicine regulatory authorities to enter clinical trial data.	whole	primates	database	functional	annotation* data analysis	clinical & dev. neurobiol.	user manual citations	freeware	European Medicines Agency	
119	nif-0000-04375	Extensible Neuroimaging Archive Toolkit CENTRAL	Online repository of open access images including MR Sessions, MRI, Freesurfer APARC, Freesurfer ASEGs, Clinical Assessments, Atlas Scaling Factors, and Fast Segmentations data. CENTRAL currently contains 374 Projects, 3808 Subjects, and 5174 Imaging Sessions (June 2014). Central is powered by XNAT (The Extensible Neuroimaging Archive Toolkit), an open source software platform designed to facilitate management and exploration of neuroimaging and related data.	whole	primates	database* software	anatomical* physiological functional	visualization data analysis* annotation	cogn. & behav. neurosci.* neuroinformatics clinical & dev. neurobiol.	user manual citations	freeware	Washington University School of Medicine in St. Louis; Missouri; USA	
120	PMC3885811	FADTTS	A functional analysis of diffusion tensor tract statistics (FADTTS) pipeline was developed for delineating the association between multiple diffusion properties along major white matter fiber bundles with a set of covariates of interest, such as age, diagnostic status, genetic marker (e.g., SNP), and gender, and the structure of the variability of these white matter tract properties in various diffusion tensor imaging studies.	whole	primates	software	functional	visualization	clinical & dev. neurobiol.* neuroinformatics	user manual user forum	open source		
121	21487683	FARSIGHT	The goal of the FARSIGHT project is to develop and disseminate a next-generation toolkit of image analysis methods to enable quantitative studies of complex & dynamic tissue microenvironments that are imaged by modern optical microscopes.	cellular	all	software	anatomical biochemical*	visualization* data analysis	neuroinformatics* neuroanatomy	user manual citations	open source	University of Houston, Houston, Texas	NIBIB, DARPA, NSF

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
122	PMC3885811	FiberViewerLight	Fiber ViewerLight is an open-source C++ application to analyze fiber bundles.	whole	primates	software	anatomical	data analysis* visualization	neuroanatomy* neuroinformatics	user manual user forum	open source		NIH Roadmap for Medical Research
123	24323305	Filament Editor	The Filament Editor allows for simultaneous visualization of complex neuronal tracings and image data in a 3D viewer, proof-editing of neuronal tracings, alignment and interconnection across sections, and morphometric analysis in relation to 3D anatomical reference structures.	cellular	all	software	anatomical	visualization* data analysis	neuroinformatics* neuroanatomy cell., mol., & syst. neurosci.	user manual citations	freeware	Max Planck Florida Institute	
124	22258828	findv1	A model of cells in primary visual cortex fitted to electrophysiological data.	cellular	primates	software	physiological	modeling & simulation	comput. neurosci.* neuroinformatics cogn. & behav. neurosci.	user manual	open source	University of Nottingham	Welcome Trust grant
125	25129841	FLIRT	FLIRT (FMRIB's Linear Image Registration Tool) is a fully automated robust and accurate tool for linear (affine) intra- and inter-modal brain image registration.	whole* regions	primates	software	anatomical	visualization* data analysis	cogn. & behav. neurosci. neuroinformatics*	user manual FAQs citations	freeware	FMRIB, Oxford, UK	UK EPSRC and the Wellcome Trust
126	nif-0000-00558	FlyBase	Database of Drosophila genetic and genomic information with information about stock collections and fly genetic tools. Gene Ontology (GO) terms are used to describe three attributes of wild-type gene products: their molecular function, the biological processes in which they play a role, and their subcellular location. Additionally, FlyBase accepts data submissions.	macromol.	insects	database ontology & data mngmt.* software	biochemical	annotation	cell., mol., & syst. neurosci.* neuroinformatics	user manual user forum citations	freeware	Harvard University; Massachusetts; USA, University of Cambridge; Cambridge; United Kingdom, Indiana University; Indiana; USA, University of New Mexico; New Mexico; USA	NHGRI, NIH, British Medical Research Council, NSF
127	24692020	FlyCircuit	FlyCircuit is a public database for online archiving, cell type inventory, browsing, searching, analysis and 3D visualization of individual neurons in the Drosophila brain.	cellular	insects	database* ontology & data mngmt. software	anatomical* biochemical	visualization* data analysis	cell., mol., & syst. neurosci.* neuroinformatics neuroanatomy	user manual citations	freeware	NCHC (National Center for High-performance Computing)?and NTHU (National Tsing Hua University), Hsinchu, Taiwan	
128	PMC3411070	FlyFly	FlyFly is a free, high level interface, written in MatLab and Psychophysics toolbox, for use in motion vision research.	whole	insects	software	physiological	visualization	cell., mol., & syst. neurosci.	user manual FAQs	freeware	Uppsala University	
129	PMC4224204	FlyTrap Protein Trapping Project	Drosophila proteins tagged with Green Flourescent Protein (GFP) were created by insertion into genes of an artificial exon encoding GFP flanked by splice acceptor (SA) and splice donor (SD) sequences so that expression of GFP relies on splicing into mature mRNAs and in-frame fusion	macromol.	insects	ontology & data mngmt.	functional	visualization* annotation	neuroinformatics neuroanatomy*	user manual citations	freeware	Yale school of Medicine	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
130	24664409	FORCE11	Force11 is a community of scholars, librarians, archivists, publishers and research funders that has arisen organically to help facilitate the change toward improved knowledge creation and sharing. Individually and collectively, we aim to bring about a change in modern scholarly communications through the effective use of information technology.	all	all	ontology & data mngmt.* topical portal	functional	annotation	neuroinformatics* comput. neurosci.	user manual blog/social networking citations	open source		Gordon and Betty Moore Foundation
131	PMC3303090	Foundation for the National Institute of Health (FNIH)	The Foundation for NIH, as part of its portfolio, manages several large biomedical research partnerships or Key Initiatives. These partnerships leverage the resources of the National Institutes of Health with the public and private sectors, including government agencies, industry, academia, foundations, associations, and the philanthropic community.	all	all	topical portal	all	data analysis* modeling & simulation	clinical & dev. neurobiol.* cogn. & behav. neurosci. comput. neurosci.	user manual citations	freeware	NIH	NIH
132	23504659	Free softwares from IDEAgrou	The IDEA lab is devoted to the development of novel image analysis methods and tools, and their applications to various clinical research and trials. The developed methods include deformable registration (HAMMER), deformable segmentation (AFDM), and multivariate pattern classification algorithms. These methods have been applied to various studies on brain diseases and development (including MCI, AD, Schizophrenia, and Neonate Development Study), heart, breast cancer, and prostate cancer.	whole* regions	primates	software	anatomical* functional	visualization* data analysis	cogn. & behav. neurosci.* clinical & dev. neurobiol. neuroanatomy	user manual citations	freeware	UNC chapel hill, NC	NIH
133	23712897	FreeBorN (FBN) consortium	The FreeBorN (FBN) consortium is a free association of scientists working on the French territory. The consortium aims at promoting the interaction and visibility of the research teams studying brain connectivity and network theory.	whole regions*	primates	software	functional physiological* anatomical	visualization modeling & simulation*	neuroinformatics comput. neurosci.*	user manual	open source	CNRS UMR-7225, Hopital de la Salpetriere, Paris, France	Cochlear Inc.
134	PMC3880907 20502987	FreeSurfer Software Suite	An open source software suite for processing and analyzing (human) brain MRI images.	regions* whole	primates	software atlas*	anatomical	visualization data analysis* annotation	neuroinformatics cogn. & behav. neurosci.*	user manual user forum FAQs citations	freeware		NCCR, BIRN, NINDS, NIBIB, MIND, NIH
135	nlx_64373	Gait Dynamics in Neuro-Degenerative Disease Data Base	Database of records from patients with Parkinson's disease (n = 15), Huntington's disease (n = 20), or amyotrophic lateral sclerosis (n = 13). Records from 16 healthy control subjects are also included here.	whole	primates	database	functional physiological*	data analysis	neuroinformatics clinical & dev. neurobiol.*	user manual user manual citations		Physiobank	
136	PMC3644699	Galry	High-performance interactive visualization in Python based on OpenGL. It allows to interactively visualize very large plots (tens of millions of points) in real time, by using the graphics card as much as possible.	whole	all	software	anatomical physiological*	visualization	neuroinformatics comput. neurosci.*	user manual user forum FAQs citations	open source	by Cyrille Rossant	
137	21882083	GAMMA	GAMMA suite is an open-source cross-platform data mining software package designed to analyze neuroimaging data. A neuroimaging study often focuses on biomarker detection and classification.	regions* whole	primates	software	anatomical* functional	data analysis* visualization	clinical & dev. neurobiol.* neuroanatomy neuroinformatics	user manual user forum	open source		NIH

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
138	nif-0000-08127	Gemma	Database and a set of tools for the meta-analysis, re-use and sharing of genomics data, currently primarily targeted at the analysis of gene expression profiles. Gemma contains data from thousands of public studies, referencing thousands of published papers. Users can search, access and visualize coexpression and differential expression results.	macromol.	primates* rodents insects others	database* ontology & data mngmt.	biochemical* functional	visualization* data analysis annotation	neuroinformatics	user manual citations	freeware	University of British Columbia; British Columbia; Canada	NIH
139	nif-0000-02915	Gene Ontology Consortium	A community-based bioinformatics resource consisting of three structured controlled vocabularies (ontologies) for the annotation of gene products with respect to their molecular function, cellular component, and biological role in a species-independent manner.	macromol.* cellular	all	ontology & data mngmt.* database	functional* biochemical	visualization* data analysis	cell., mol., & syst. neurosci.* neuroinformatics	user manual FAQs citations	freeware	Gene Ontology Consortium	NHGRI, European Union, (RTD Programme Quality of Life and Management of Living Resources), AstraZeneca
140	nif-0000-00517	Gene Weaver	A freely accessible phenotype-centered database with integrated analysis and visualization tools. It combines diverse data sets from multiple species and experiment types, and allows data sharing across collaborative groups or to public users.	macromol.	all	database* ontology & data mngmt.	functional	annotation data analysis*	cell., mol., & syst. neurosci.* clinical & dev. neurobiol. neuroinformatics	user manual citations	freeware	Jackson Laboratory	NIAAA, Integrative Neuroscience Initiative on Alcoholism
141	nif-0000-00380	GeneNetwork	A group of linked data sets and tools used to study complex networks of genes, molecules, and higher order gene function and phenotypes. It combines more than 25 years of legacy data generated by hundreds of scientists together with sequence data (SNPs) and massive transcriptome data sets (expression genetic or eQTL data sets).	macromol.	rodents* primates insects	database	functional* biochemical	visualization data analysis*	cell., mol., & syst. neurosci.* neuroinformatics	user manual citations	freeware	University of Tennessee Health Science Center; Tennessee; USA	UT Center for Integrative and Translational Genomics, NIAAA, NIDA, NIMH, NCI, NCRR
142	PMC4162418	Genepaint	GenePaint.org is a digital atlas of gene expression patterns in the mouse.	whole regions* macromol.	rodents	atlas* database	anatomical	visualization* annotation	neuroinformatics clinical & dev. neurobiol.* neuroanatomy	user manual citations	freeware	Max-Planck-Institute of Biophysical Chemistry, Germany	
143	10.4249/scholarpedia.1378 10.4249/scholarpedia.1383	Genesis 2	GENESIS (short for GEneral NEural Simulation System) is a general purpose simulation platform that was developed to support the simulation of neural systems ranging from subcellular components and biochemical reactions to complex models of single neurons, simulations of large networks, and systems-level models.	macromol. cellular*	all	software	all	modeling & simulation	cell., mol., & syst. neurosci.* comput. neurosci. neuroinformatics	user manual citations	open source	James Bower lab at caltech	NIH, Health Affairs of the University of Texas System, NCRR
144	nif-0000-33506	Genetic Analysis Software (GAS)	Listing of computer software for the gene mapping community on the following topics: genetic linkage analysis for human pedigree data, QTL analysis for animal/plant breeding data, genetic marker ordering, genetic association analysis, haplotype construction, pedigree drawing, and population genetics.	macromol.	all	software	functional	data analysis	cell., mol., & syst. neurosci.* neuroinformatics	user manual citations	open source	North Shore LIJ Research Institute	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
145	nif-0000-00130 PMC4091307	GENSAT	Publicly available gene expression atlas of the developing and adult central nervous system in the mouse, using both in situ hybridization and transgenic mouse techniques. It is a collection of pictorial gene expression maps of the brain and spinal cord of the mouse.	macromol. cellular*	rodents	database* atlas ontology & data mngmt.	anatomical functional*	visualization* annotation	cell., mol., & syst. neurosci. neuroinformatics*	user manual citations	freeware licensed*	Rockefeller University; New York; USA	NINDS, NIMH, NIH Blueprint for Neuroscience Research
146	PMC3001749	Geometry algorithms home	The purpose of this site is to provide practical geometric algorithms for the software developer.	cellular	all	software	anatomical	visualization* modeling & simulation	neuroanatomy* comput. neurosci. neuroinformatics	user manual citations	open source	by Dan Sunday	
147	PMC4053686	GinJang project	Neural basis of auditory processing in the honeybee: Neurocomputational modeling and simulation for the deciphering neuron morphology and development	cellular* regions	insects	topical portal	anatomical physiological*	modeling & simulation	comput. neurosci. neuroinformatics*	user manual	freeware	Japan Science and Technology Agency (JST)	Japan Science and Technology Agency (JST), German Federal Ministry of Education and Research
148	10.1007/s12021-013-9198-x	Ginnungagap-Code	A computational model for analyzing and constructing sentence-level meaning from the experimentally derived EEG input data	whole	primates	software	physiological	modeling & simulation* data analysis	comput. neurosci.* cogn. & behav. neurosci.	user manual user forum citations	open source	Department of Germanic Linguistics, University of Marburg, Deutschhausstr, Germany	German Research Foundation
149	nif-0000-00339	Glomerular Activity Response Archive	This database of images depicts the spatial distribution of 2-deoxyglucose uptake evoked in the glomerular layer of the rat olfactory bulb in response to a wide range of defined odorant stimuli, an archive that is being provided as a service to the olfactory research community.	regions	rodents	database	anatomical biochemical*	visualization* data analysis	cell., mol., & syst. neurosci.* neuroinformatics	user manual FAQs citations	freeware	University of California at Irvine; California; USA	primates Brain Project, NIMH, NIDCD
150	PMC3246589	GlovePie	GlovePIE stands for Glove Programmable Input Emulator. It doesn't have to be used with VR Gloves, but it was originally started as a system for emulating Joystick and Keyboard Input using the Essential Reality P5 Glove. Now it supports emulating all kinds of input, using all kinds of devices, including Polhemus, Intersense, Ascension, WorldViz, 5DT, and eMagin products. It can also control MIDI or OSC output.	whole	primates	instrumentation* software	functional	neurotechnology	cogn. & behav. neurosci.	user manual user forum blog/social networking citations	freeware	by Carl Kenner	
151	24085487	HAMMER	Advancing intelligent robotics for the physical, cognitive and social well-being of humans, through intelligent perception, machine learning, user modelling, cognitive control architectures, and personalised assistance generation.	whole	primates	instrumentation* software	anatomical functional*	visualization modeling & simulation data analysis neurotechnology*	cogn. & behav. neurosci.* neuroinformatics comput. neurosci.	user manual citations	open source	Imperial college, London	
152	nlx_40070	HHMI's Biointeractive	A rich variety of videos, interactive modules, and animations to teach about the nervous system.	all	all	topical portal	functional	visualization* annotation	neuroinformatics	user manual	freeware	HHMI	HHMI
153	PMC4162418	High Resolutions Mouse Brain Atlas	Construct atlases of 3D reconstruction of the brain of the mouse from integration of multidisciplinary data, serial slices, and of data dissemination.	whole regions*	rodents	atlas* ontology & data mngmt.	anatomical	visualization annotation*	neuroanatomy* neuroinformatics	user manual citations	freeware		NIH

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
154	PMC3539731	Human Brain Project (HBP)	HBP researchers will simulate the human brain, develop brain-inspired computing technologies, map brain diseases, perform targeted mapping of the mouse and human brain, develop six Information and and Communications Technology (ICT) platforms, drive translation of research into products and services, and implement programmes of education and knowledge management. All these efforts will be made in the context of a responsible research and innovation (RRI) strategy.	whole	primates* rodents	topical portal	functional	visualization modeling & simulation* data analysis	neuroinformatics	user manual citations	freeware	Brain Mind Institute, EPFL	European commission
155	24777386	Human Connectome Project (HCP)	Comprehensively mapping human brain circuitry in a target number of 1200 healthy adults using cutting-edge methods of noninvasive neuroimaging. It will yield invaluable information about brain connectivity, its relationship to behavior, and the contributions of genetic and environmental factors to individual differences in brain circuitry and behavior.	whole	primates	database* software topical portal	anatomical functional*	visualization data analysis*	neuroinformatics cogn. & behav. neurosci. cell., mol., & syst. neurosci.*	user manual FAQs citations	freeware	Washington University in Saint Louis, University of Minnesota, Oxford University	NIH Blueprint
156	20567938	Human Imaging Database (HID)	HID is an extensible database management system developed to handle the increasingly large and diverse datasets collected as part of the MBIRN and FBIRN collaboratories and throughout clinical imaging communities at large.	whole	primates	database* software	anatomical	data analysis	clinical & dev. neurobiol.* neuroinformatics	user manual user forum	open source	BIRN	NIH
157	23055044	iBEAT	iBEAT (Infant Brain Extraction and Analysis Toolbox, previously called LIBRA) is a toolbox with graphical user interfaces for processing infant brain MR images.	whole	primates	software	anatomical	visualization* data analysis	clinical & dev. neurobiol.* neuroinformatics	user manual user forum citations	freeware	University of North Carolina - Chapel Hill	NIH
158	23836390	IBSR	The Internet Brain Segmentation Repository (IBSR) provides manually-guided expert segmentation results along with magnetic resonance brain image data.	whole	primates	database* software	anatomical	visualization* data analysis	neuroanatomy* neuroinformatics	user manual user forum citations	freeware		primates brain project
159	PMC3459005	IGOR Pro	IGOR Pro 6 is an extraordinarily powerful and extensible scientific graphing, data analysis, image processing and programming software tool for scientists and engineers.	cellular* regions	all	software	physiological	visualization data analysis*	comput. neurosci.* cell., mol., & syst. neurosci. neuroinformatics	user manual user forum citations	licensed	Wavemetrics, inc	
160	PMC3276361	ImageJ	ImageJ can display, edit, analyze, process, save and print 8-bit, 16-bit and 32-bit images. It can read many image formats including TIFF, GIF, JPEG, BMP, DICOM, FITS and"raw". It supports"stacks", a series of images that share a single window. It is multithreaded, so time-consuming operations such as image file reading can be performed in parallel with other operations.	whole* cellular	all	software	anatomical* functional	visualization* data analysis	cogn. & behav. neurosci. neuroinformatics* comput. neurosci.	user forum FAQs blog/social networking citations	open source	NIH image	NIH

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
161	nlx_151660	International mouse Phenotype Consortium (IMPC)	Produce knockout mouse and carry out high-throughput phenotyping of each line in order to determine the function of every gene in the mouse genome.	whole	rodents	ontology & data mngmt.* database	functional	annotation	neuroinformatics* clinical & dev. neurobiol.	user manual user forum citations	freeware	International rodents Phenotyping Consortium	
162	nif-0000-09876	International Mouse Strain Resource	Database of mouse strains and stocks available worldwide, that will assist the international research community in finding the mouse resources they need, including inbred, mutant, and genetically engineered mice.	whole* macromol. cellular	rodents	ontology & data mngmt.* topical portal	biochemical* functional	annotation	neuroinformatics	user manual citations	freeware	MGI, MRC Mammalian Genetics Unit	NLM
163	21931990	Internet Brain Volume Database (IBVD)	The IBVD provides a web-based searchable database of brain neuroanatomic volumetric observations. This is designed to access both group volumetric results as well as volume observations in individual cases.	whole	primates	database* ontology & data mngmt.	anatomical	data analysis* annotation	neuroanatomy* neuroinformatics	user manual user forum citations	freeware	University of Massachusetts Medical School	primates Brain Project
164	21409556	inverse Current Source Density (iCSD 2D)	The MATLAB toolbox allows to apply different variants of CSD to voltage data recorded on 2D regular grids.	cellular	rodents	software	physiological	data analysis	cell., mol., & syst. neurosci. neuroinformatics*	user manual citations	open source	Nencki Institute of Experimental Biology of the Polish Academy of Sciences	Polish Ministry of Science and Higher Education research grants
165	20502987	iqr	iqr is a simulation software to graphically design and control large-scale neuronal models. Simulations in iqr can control real-world devices in real-time. iqr can be extended by new neuron, and synapse types, and custom interfaces to hardware.	cellular	all	software	functional* physiological	modeling & simulation neurotechnology*	cell., mol., & syst. neurosci. neuroinformatics* comput. neurosci.	user manual citations	open source	Universitat Pompeu Fabra, Roc Boronat, Barcelona, Spain	Synthetic Forager project
166	PMC4053686 21373993	itk-SNAP	ITK-SNAP provides semi-automatic segmentation using active contour methods, as well as manual delineation and image navigation.	regions	all	software	anatomical	visualization	neuroanatomy* neuroinformatics comput. neurosci.	user manual citations	open source	University of Pennsylvania, University of Utah	NIH
167	PMC3924322	JIDT: an information-theoretic toolkit	JIDT provides a stand-alone, open-source code Java implementation (also usable in Matlab, Octave, Python, R, Julia and Clojure) of information-theoretic measures of distributed computation in complex systems: i.e. information storage, transfer and modification.	all	primates	software	all	data analysis* modeling & simulation	comput. neurosci.* cell., mol., & syst. neurosci. clinical & dev. neurobiol.	user manual citations	open source	Computational Informatics, Marsfield, NSW, Australia	
168	22932976	JIST: Java Image Science Toolkit	(JIST provides a native Java-based imaging processing environment similar to the ITK/VTK paradigm.	whole regions*	primates	software	anatomical	data analysis	neuroanatomy neuroinformatics*	user manual user forum citations	open source	Neurodebian	
169	PMC4058593	Jwatcher	JWatcher is a powerful tool for the quantitative analysis of behavior. It can be used to address any theoretical problem that requires a complex sequence of actions to be scored by a human observer.	whole	primates	software* instrumentation	functional	visualization* data analysis	cogn. & behav. neurosci.	user manual citations	freeware	University of California Los Angeles, Macquarie University	National Institute of Mental Health, The Australian Research Council, Macquarie University
170	PMC4162418	KESM Brain atlas	Knife-Edge Scanning Microscopy Brain Atlas	regions	rodents	atlas software*	anatomical	visualization	neuroinformatics neuroanatomy*	user manual citations	freeware	Texas A&M University	NIH, NSF

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
171	nlx_31015	Kyoto Encyclopedia of Genes and Genomes (KEGG)	KEGG is a database resource for understanding high-level functions and utilities of the biological system, such as the cell, the organism and the ecosystem, from molecular-level information.	macromol.	all	database ontology & data mngmt.* software	functional	data analysis	clinical & dev. neurobiol.* neuroinformatics	user manual citations	freeware	Institute for Chemical Research, Kyoto University, Institute of Medical Science, University of Tokyo	Japanese Ministry of Education Culture Sports Science and Technology (MEXT), JST - Japan Science and Technology Agency
172	nlx_143941	Laboratory for Visual Neuroscience	Devise better ways to prevent and treat vision loss due to amblyopia and strabismus, and to advance medical science by understanding the human visual system.	whole regions*	primates	topical portal	functional	visualization	clinical & dev. neurobiol.* cogn. & behav. neurosci. neuroinformatics	user manual		University of California at San Francisco; California; USA	
173	PMC3653101	LAMHDI	LAMHDI, the initiative to Link Animal Models to human Disease, is designed to accelerate the research process by providing biomedical researchers with a simple, comprehensive Web-based resource to find the best animal models for their research	whole	all	database ontology & data mngmt.*	functional	annotation	neuroinformatics* clinical & dev. neurobiol.	user manual	freeware	University of Washington, University of Wisconsin-Madison, University of California, San Diego	NIH/NCRR
174	PMC4174883	LEMS	A compact, hierarchical, XML-based language called LEMS (Low Entropy Model Specification), that can define the structure and dynamics of a wide range of biological models in a fully machine readable format.	cellular	all	ontology & data mngmt.	anatomical* functional	modeling & simulation* annotation	neuroinformatics* cell., mol., & syst. neurosci.	user manual citations	freeware	University College London, London, UK	Wellcome Trust
175	PMC4001034	Libneurosim	Libneurosim is intended as a place to put standard API:s and common smaller utility code for the computational neuroscience community.	cellular	all	software	functional	modeling & simulation	cell., mol., & syst. neurosci. neuroinformatics*	user manual	open source	INCF	
176	10.4249/scholarpedia.131325086878	L-Measure	Neuroinformatics tool that allows researchers to extract quantitative morphological measurements from neuronal reconstructions.	cellular	all	software	anatomical	data analysis	neuroanatomy* neuroinformatics	user manual user forum FAQs citations	freeware	Krasnow institute for Advanced study, George mason university	N IH
177	24692020	Machine Learning Toolbox (MLT)	Provides a number of essential functions for machine learning, especially for data clustering and pattern recognition. The full version of MLT is published by the Terasoft.	cellular	insects	software	anatomical	modeling & simulation* data analysis	neuroanatomy* comput. neurosci. neuroinformatics	user manual citations	freeware licensed*	by Roger Jang	
178	PMC354732922426994	Mango	Mango short for Multi-image Analysis GUI is a viewer for medical research images. It provides analysis tools and a user interface to navigate image volumes.	whole	primates	software* ontology & data mngmt.	anatomical functional*	visualization* annotation data analysis	neuroinformatics cogn. & behav. neurosci.*	user manual user forum citations	freeware	University of Texas Health Science Center	NIH/NIMH, NIH/NIBIB
179	10.1007/s12021-014-9223-8	MANIA: Machine learning Application for Neuroimaging Analyses	A Pattern Classification Toolbox for Neuroimaging Data	whole* regions	primates	software	functional* anatomical	data analysis	neuroinformatics* cogn. & behav. neurosci.	citations	open source	Department of Psychiatry, University of Münster, Albert-Schweitzer-Campus Münster, Germany	
180	22068921	MEG-SIM	Aims to construct realistic simulated data sets in formats used by each of the 3 major MEG manufacturers. These can then be directly tested using various algorithms which include multidipole, spatiotemporal modeling, current reconstruction, minimum norm, and beamforming methods.	whole	primates	database* software	physiological	modeling & simulation	cell., mol., & syst. neurosci.	user manual citations	freeware	The Mind Research Network, Albuquerque, NM	NIH

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181	PMC3629334	mfinder: Network motifs detection tool	mfinder is a software tool for network motifs detection.	cellular	all	software	anatomical	visualization data analysis* modeling & simulation	comput. neurosci. neuroinformatics*	user manual citations	open source	Weizmann Institute of Science, Rehovot Israel	
182	PMC3468957	MIALAB - Medical image analysis lab	Fusion ICA toolbox is a MATLAB toolbox which implements the jointICA, parallel ICA and CCA with joint ICA methods. It is used to examine the shared information between the features (SPM contrast image, EEG signal or SNPdata).	regions	primates	software	anatomical physiological*	visualization data analysis*	cogn. & behav. neurosci.* neuroinformatics	user manual citations	freeware	The Mind Research Network, University of new mexico	National Institutes of Health Blueprint
183	PMC4115634	Mice-build-model	Its goal is to use image registration to bring all scans from a particular study into correspondence in order to derive measures about anatomical variation or changes in tissue intensities.	whole regions*	rodents	ontology & data mngmt.	anatomical	data analysis visualization*	clinical & dev. neurobiol.* neuroanatomy neuroinformatics	user manual citations	freeware	The Hospital for Sick Children, Toronto, Ontario	
184	PMC4115634	MINC	MINC is a comprehensive medical imaging data format and an associated set of tools and libraries	whole regions*	primates	ontology & data mngmt.	anatomical	data analysis* annotation	cogn. & behav. neurosci.* neuroinformatics	user manual citations	open source	McGill University	
185	22932976	MIPAV (Medical Image Processing, Analysis, and Visualization)	MIPAV enables quantitative analysis and visualization of medical images of numerous modalities such as PET, MRI, CT, or microscopy.	whole	primates	software ontology & data mngmt.*	anatomical* functional	visualization* data analysis	clinical & dev. neurobiol.* neuroinformatics	user manual citations	open source	NIH	National Institutes of Health Center for Information Technology
186	nif-0000-00004	ModelDB	ModelDB provides an accessible location for storing and efficiently retrieving computational neuroscience models.	cellular	all	database* software ontology & data mngmt.	physiological* functional	modeling & simulation	comput. neurosci.	user manual blog/social networking citations	freeware* open source	Yale University; Connecticut; USA	NIMH, NINDS, NCI
187	21305364	Models and Simulation of 3D Neuronal Dendritic Trees Using Bayesian Networks	A class of probabilistic graphical models called Bayesian networks to generate virtual dendrites from layer III pyramidal neurons from three different regions of the neocortex of the mouse.	cellular	rodents	software	anatomical	modeling & simulation* visualization	comput. neurosci.* neuroanatomy neuroinformatics	user manual citations	open source	Universidad Politecnica de Madrid	Cajal Blue Brain Project
188	nlx_152525	Monarch Initiative	Repository of information about model organisms, in vitro models, genes, pathways, gene expression, protein and genetic interactions, orthology, disease, phenotypes, publications, and authors, and the the ability to navigate multi-scale spatial and temporal phenotypes across in vivo and in vitro model systems in the context of genetic and genomic data, using semantics and statistics.	whole	all	ontology & data mngmt.* database	functional	annotation	neuroinformatics	user manual user forum	open source	Oregon Health and Science University; Oregon; USA, Lawrence Berkeley National Laboratory, University of California at San Diego; California; USA, University of Pittsburgh; Pennsylvania; USA	NIH Office of the Director

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
189	PMC4162418	Mouse Atlas Project 2.0	MAP2.0 seeks to gather multimodal image datatypes from a large collection of C57BL/6J mouse brains, including: MRI, DTI, blockface, histochemical, and tract-tracing. Each set of brain data will be co-registered into a common atlas framework with detailed labeling of anatomical structures.	whole regions*	rodents	atlas* ontology & data mngmt.	anatomical	visualization* annotation	neuroinformatics neuroanatomy*	user manual citations	freeware	Laboratory of Neuroimaging (LONI), UCLA	
190	PMC4162418	Mouse Brain Atlases	Coronal and horizontal atlases of different Mouse species	whole	rodents	atlas* database ontology & data mngmt. software	anatomical	visualization* annotation	neuroanatomy* clinical & dev. neurobiol. neuroinformatics	user manual citations	freeware		NIMH, NIDA, NSF
191	PMC3632786 nif-0000-00096	Mouse Genome Informatics (MGI)	International database for the laboratory mouse, providing integrated genetic, genomic, and biological data to facilitate the study of human health and disease. Its primary mission is to facilitate the use of the mouse as a model system for understanding human biology and disease.	whole	rodents	database ontology & data mngmt.* software	anatomical functional*	annotation	neuroinformatics* clinical & dev. neurobiol.	user manual citations	freeware	Jackson Laboratory	NHGRI, NICHD, NCI
192	nlx_152633	Mouse Metabolic Phenotyping Centers	Biomaterial analysis service for the scientific community with standardized, high quality metabolic and physiologic phenotyping services for mouse models of diabetes, diabetic complications, obesity and related disorders.	whole	rodents	database* topical portal	biochemical	annotation	neuroinformatics* clinical & dev. neurobiol.	user manual citations	freeware licensed*	Georgia Regents University; Georgia	The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Heart, Lung, and Blood Institute (NHLBI)
193	nif-0000-03160	Mouse Phenome Database	Characterizes strains of laboratory mouse to assist in selection of mouse strains for experimental studies and to facilitate translational discoveries.	whole	rodents	ontology & data mngmt.	functional	annotation* data analysis	neuroinformatics cell., mol., & syst. neurosci.*	user manual citations	freeware	Jackson Laboratory	NIDA, NIH
194	PMC3462416	Mouse Phenotype Database	The mouse Phenotype Database consists of the raw data of behavioral tests from the mouse strain that are published in articles.	whole	rodents	database* ontology & data mngmt. software	functional	annotation	cogn. & behav. neurosci.	user forum citations	freeware		
195	22194186	MRlcro	A simple image viewer with basic drawing tools. While we suggest people consider using the more advanced MRlcron, this older software remains popular	whole regions*	primates	software ontology & data mngmt.*	anatomical	visualization data analysis* annotation	cogn. & behav. neurosci. clinical & dev. neurobiol.*	user manual user forum FAQs citations	freeware	University of South Carolina, Columbia SC, USA	
196	PMC3885811	MriWatcher	This simple visualization tool allows to load several images at the same time. The cursor across all windows are coupled and you can move/zoom on all the images at the same time.	whole* regions	primates	software	anatomical	visualization annotation data analysis*	neuroanatomy* neuroinformatics	user manual user forum citations	open source		
197	PMC4162418	MRM NeAT (Neurological atlas)	3D Digital MRM (magnetic resonance microscopy) imaging Atlas of Adult C57BL/6J mouse Brains	whole regions*	rodents	atlas	anatomical	visualization* data analysis	neuroinformatics neuroanatomy*	user manual citations	freeware	University of Florida	NIH
198	PMC4019854	Multi-Modal MRI Reproducibility Resource	This is intended to be a resource for statisticians and imaging scientists to be able to quantify the reproducibility of their imaging methods using data available from a generic"1 hour"session at 3T.	whole	primates	ontology & data mngmt.	anatomical	visualization* annotation	cogn. & behav. neurosci. neuroinformatics neuroanatomy*	user manual user forum citations	open source		NIH/NCRR, NIH/NINDS

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
199	24395057	Musical Representation of Dendritic Spine Distribution	A new method with musical feedback for exploring dendritic spine morphology and distribution patterns in pyramidal neurons.	cellular	primates	software	anatomical	data analysis	cell., mol., & syst. neurosci.* neuroanatomy	user manual	freeware	Universidad Rey Juan Carlos (URJC), Madrid, Spain	Cajal Blue Brain Project
200	PMC3901007	N2A	"Neurons to Algorithms"(N2A) is a language for modeling neural systems, along with a software tool for editing models and simulating them.	cellular	all	software	functional anatomical* physiological	modeling & simulation	neuroinformatics* comput. neurosci.	user manual	open source	Sandia National Laboratories, Albuquerque, NM, USA	Sandia National Laboratories
201	22622767	National Database for Autism Research (NDAR)	The National Database for Autism Research (NDAR) is an NIH-funded research data repository that aims to accelerate progress in autism spectrum disorders (ASD) research through data sharing, data harmonization, and the reporting of research results.	whole	primates	database* software	functional	data analysis	neuroinformatics* clinical & dev. neurobiol.	user manual FAQs citations	freeware	NIH	NIMH, NINDS, NIEHS, NICHD, CIT
202	nlx_86401	National Institute of Neurological Disorders and Stroke (NINDS)	The mission of the National Institute of Neurological Disorders and Stroke is to seek fundamental knowledge about the brain and nervous system and to use that knowledge to reduce the burden of neurological disease	all	primates	topical portal* ontology & data mngmt.	all	annotation	clinical & dev. neurobiol. neuroinformatics*	user manual FAQs citations	freeware	NIH	NIH
203	nif-0000-02801	NCBI Gene	Database of genes, from RefSeq genomes, and defined by sequence and/or located in the NCBI Map Viewer.	macromol.	all	database* software ontology & data mngmt.	functional	data analysis* annotation	neuroinformatics* cell., mol., & syst. neurosci.	user manual FAQs citations	freeware	NCBI	
204	23274962	NeMo	NeMo is a high-performance spiking neural network simulator which simulates networks of Izhikevich neurons on CUDA-enabled GPUs, aiming for real-time simulation of 100 000s of realistically connected spiking neurons.	cellular* whole	all	software instrumentation*	functional* anatomical	modeling & simulation	comput. neurosci.* neuroinformatics neuroanatomy	user manual user forum	open source	Imperial College London	EPSRC
205	PMC3880998	Nengo: Large-scale brain modelling in Python	Nengo is a software tool that can be used to build and simulate large-scale models based on the Neural Engineering Framework (NEF); currently, it is the primary resource for both teaching how the NEF is used, and for doing research that generates specific NEF models to explain experimental data.	whole	all	software	functional	modeling & simulation	comput. neurosci. cell., mol., & syst. neurosci.* neuroinformatics	user manual user forum	open source	University of Waterloo, Waterloo, ON, Canada	NSERC Discovery, NSERC Graduate Fellowships, NSERC Banting Fellowship, ONR
206	22644867	Neron Reconstruction Viewer (NeRV)	NeRV is the research code developed by Jurrus et. a. that enables users to view large EM datasets, evaluate the segmentations, and make corrections to both the 2D membrane detection and the joining of regions through the sections to segment a neuron in 3D.	cellular	all	software	anatomical	visualization	neuroanatomy neuroinformatics*	user manual citations	open source	Scientific Computing and Imaging Institute, University of Utah	NIH
207	10.4249/scholarpedia.1430	NEST (NEural Simulation Tool)	The Neural Simulation Tool NEST is a computer program for simulating large heterogeneous networks of point neurons or neurons with a small number of compartments.	cellular	all	software	anatomical physiological*	modeling & simulation	comput. neurosci.* neuroinformatics	user manual user forum	open source	École Polytechnique Fédérale de Lausanne	DAAD, DIP, EU, BMBF
208	23111491	NeuGen	NeuGen is made for generation of dendritic and axonal morphology of realistic neurons and networks in 3D	cellular* regions	all	software	anatomical	modeling & simulation	comput. neurosci.* neuroinformatics	user manual citations	open source	Goethe-Universität Frankfurt	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
209	21562803	Neural Circuit Tracer	Neural Circuit Tracer (NCTracer) is open source software for automated and manual tracing of neurites from light microscopy stacks of images.	cellular	all	software	anatomical	visualization	cell., mol., & syst. neurosci. comput. neurosci. neuroinformatics*	user manual citations	open source	Northeastern university, Boston, MA	NIH
210	23893006	Neural ElectroMagnetic Ontologies (NEMO)	EEG and MEG ontology for ERP and ERF databasing.	whole	primates	ontology & data mngmt.* software database	physiological	data analysis annotation*	neuroinformatics* cell., mol., & syst. neurosci. cogn. & behav. neurosci.	user manual user forum citations	freeware	Univeristy of oregon	NIH
211	PMC3930095	NeuralEnsemble	NeuralEnsemble is a multilateral effort to coordinate and organize Neuroscience software development efforts into a larger meta-simulator software system, a natural and alternate approach to incrementally address what is known as the complexity bottleneck, presently a major roadblock for neural modelling.	cellular	all	software ontology & data mngmt.*	physiological	data analysis modeling & simulation*	comput. neurosci.* neuroinformatics	user manual user forum FAQs citations	open source	Centre de Recherche en Neurosciences de Lyon, CNRS, France	BrainScaleS project
212	PMC3322488	neurobehavioralsystems	Presentation is a stimulus delivery and experimental control program for neuroscience. It runs on any Windows PC, and delivers auditory, visual and multimodal stimuli with sub-millisecond temporal precision.	whole	primates	software instrumentation*	physiological* functional	data analysis	cogn. & behav. neurosci.* neuroinformatics	user manual FAQs citations	licensed	Neurobehavioral Systems, Inc	
213	nlx_151885	NeuroElectro	The goal of the NeuroElectro Project is to extract information about the electrophysiological properties (e.g. resting membrane potentials and membrane time constants) of diverse neuron types from the existing literature and place it into a centralized database.	cellular	all	database* ontology & data mngmt.	physiological	annotation data analysis*	cell., mol., & syst. neurosci.* neuroinformatics	user manual FAQs citations	freeware	University of British Columbia and Carnegie Mellon University	
214	10.4249/scholarpedia.1903	Neurofitter	Neurofitter is a parameter tuning package for electrophysiological neuron models.	cellular	all	software	functional physiological*	modeling & simulation* data analysis	comput. neurosci.* cell., mol., & syst. neurosci. neuroinformatics	user manual citations	open source	Okinawa Institute of Science and Technology, University of Antwerp	
215	10.4249/scholarpedia.1313	Neurolucida	Neurolucida is a powerful tool for creating and analyzing realistic, meaningful, and quantifiable neuron reconstructions from microscope images.	cellular	all	software instrumentation*	anatomical	visualization data analysis*	cell., mol., & syst. neurosci.* neuroinformatics neuroanatomy	user manual blog/social networking citations	freeware licensed*	MBF Bioscience	
216	nif-0000-00175	NeuroMab	A national mouse monoclonal antibody generating resource for biochemical and immunohistochemical applications in mammalian brain.	macromol.	mammals* others	database* ontology & data mngmt.	biochemical	visualization* annotation	cell., mol., & syst. neurosci.* clinical & dev. neurobiol.	user manual citations	freeware	University of California at Davis; California; USA	NINDS, NIMH, NIH Blueprint for Neuroscience Research, NIH Roadmap for Medical Research, Office of Rare Diseases Research, Antibodies Inc., NIH
217	PMC3305991 10.4249/scholarpedia.1313	Neuromantic	Neuromantic is a free application for the semi-manual or semi-automatic reconstruction of neurons for single images or image stacks.	cellular	all	software* ontology & data mngmt.	anatomical	annotation visualization*	neuroinformatics* neuroanatomy	user manual blog/social networking citations	open source	University of Reading, Reading, UK	EPSRC grant, statistics/graphing aspects by Nuffield Foundation grant
218	PMC3459005	NeuroMatic	NeuroMatic is a collection of Igor Pro functions for analyzing and acquiring electrophysiological data.	cellular	all	software	physiological	visualization* data analysis	cell., mol., & syst. neurosci.* comput. neurosci.		open source	University College London	MRC, wellcome trust

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
219	10.1002/cnm.2486	Neuromechanic	NEUROMECHANIC is a simulated physical environment for developing and testing neural control models. Rigid body dynamic equations of motion, phenomenological muscle models, and simplified neuron models are incorporated.	whole	all	software instrumentation*	anatomical functional*	neurotechnology* modeling & simulation	cell., mol., & syst. neurosci.* comput. neurosci.	user manual user forum	freeware	Emory University and Georgia Institute of Technology	
220	10.4249/scholarpedia.3036 PMC4174883	NeuroML	The NeuroML project focuses on the development of an XML (eXtensible Markup Language) based description language that provides a common data format for defining and exchanging descriptions of neuronal cell and network models.	cellular* regions whole	all	software	anatomical physiological*	modeling & simulation* visualization	cell., mol., & syst. neurosci. comput. neurosci. neuroinformatics*	user manual user forum citations	open source	University College London, United Kingdom	UK Medical Research Council, NIH, NSF, Wellcome Trust, INCF
221	nif-0000-00006 10.4249/scholarpedia.1313 PMC4053686 21181305	NeuroMorpho.Org	A centrally curated inventory of digitally reconstructed neurons that contains some of the most complete axonal arborizations digitally available in the community.	cellular	all	database* ontology & data mngmt.	anatomical	visualization* annotation data analysis	neuroinformatics* neuroanatomy cell., mol., & syst. neurosci.	user manual FAQs citations	freeware	George mason university, fairfax, VA	NIH
222	10.4249/scholarpedia.1378	NEURON	The NEURON Simulation Environment is designed for modeling individual neurons and networks of neurons, and is widely used by experimental and theoretical neuroscientists.	cellular	all	software ontology & data mngmt.*	anatomical physiological*	visualization modeling & simulation* data analysis	neuroinformatics* comput. neurosci. cell., mol., & syst. neurosci.	user manual user forum FAQs blog/social networking citations	freeware	Yale university	
223	PMC4053686	Neuronland	Neuronland provides free software tools for the experimental neuroscience and neuron mathematical modeling communities.	cellular	all	software* ontology & data mngmt.	anatomical	visualization* annotation	neuroinformatics neuroanatomy*	user manual citations	freeware		
224	23765606	NeuronStudio	NeuronStudio provides tools for manual, semi-manual, and automatic tracing of the dendritic arbor as well as manual and automatic detection and classification of dendritic spines.	cellular	all	software	anatomical	visualization	neuroinformatics neuroanatomy*	user manual citations	freeware	CNIC, Mount Sinai School of Medicine	
225	PMC3368231	Neuronvisio	Neuronvisio is a Graphical User Interface for NEURON simulator environment with 3D capabilities. Neuronvisio makes easy to select and investigate sections properties and it offers easy integration with matplotlib for plotting the results.	cellular	all	software* ontology & data mngmt.	anatomical* physiological	visualization* modeling & simulation	neuroinformatics comput. neurosci.*	user manual user forum	open source	Wellcome Trust Genome Campus	
226	PMC3351760	NeuroRighter	NeuroRighter is an open-source electrophysiology platform for conducting closed-loop, multichannel neural recording and stimulation experiments.	whole* regions	primates rodents*	instrumentation* software	physiological* functional	data analysis	cell., mol., & syst. neurosci.	user manual citations	open source	Georgia Tech	NSF
227	PMC3930095	neuroshare.org	Neuroshare.org is a site created to support the collaborative development of open library and data file format specifications for neurophysiology and distribute open-source data handling software tools for neuroscientists.	cellular	all	ontology & data mngmt.* software	physiological	annotation	neuroinformatics comput. neurosci.*	user manual citations	open source		
228	23828255	neuRosim	The package allows users to generate fMRI time series or 4D data. Some high-level functions are created for fast data generation with only a few arguments and a diversity of functions to define activation and noise. For more advanced users it is possible to use the low-level functions and manipulate the arguments.	whole	primates	software	functional	modeling & simulation* data analysis	comput. neurosci.* neuroinformatics	user manual citations	open source	Ghent University	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
229	nlx_55906	NeuroSynth.org	Platform for large-scale, automated synthesis of functional magnetic resonance imaging (fMRI) data extracted from published articles. It's a website wrapped around a set of open-source Python and JavaScript packages. Neurosynth lets you run crude but useful analyses of fMRI data on a very large scale.	regions* whole	primates	database* software ontology & data mngmt.	anatomical* functional	visualization data analysis*	neuroinformatics cogn. & behav. neurosci.*	user manual FAQs user forum citations	open source	University of Colorado Boulder; Colorado; USA	NIH
230	22350719	neuroVIISAS	neuroVIISAS (neuro Visualization, Imagemapping, Information System for Analysis and Simulation) is an open framework for integrative data analysis, visualization and population simulations.	regions* whole	rodents* primates	atlas ontology & data mngmt. software*	anatomical	visualization modeling & simulation* annotation data analysis	neuroinformatics cogn. & behav. neurosci. cell., mol., & syst. neurosci.*	user manual citations	freeware	University of Rostock, Germany	University of Rostock
231	PMC4132371	NEVESIM	NEVESIM is a software package for event-driven simulation of networks of spiking neurons with a fast simulation core in C++, and a scripting user interface in the Python programming language.	regions cellular*	all	software	functional	modeling & simulation	cell., mol., & syst. neurosci.* comput. neurosci. neuroinformatics	user manual FAQs	open source	Graz University of Technology	
232	PMC4010752	NewBehavior AG	Company develops state-of-the art technology for automated measuring and shaping of animal behavior.	whole	rodents	instrumentation	functional	visualization* data analysis	cogn. & behav. neurosci.	user manual citations	licensed	Zurich Switzerland	
233	nif-0000-21981	NIDA Data Share	The NIDA Data Share web site is an electronic environment that allows data from completed clinical trials to be distributed to investigators and the public in order to promote new research, encourage further analyses, and disseminate information to the community. Secondary analyses produced from data sharing multiply the scientific contribution of the original research.	macromol.	primates	database* ontology & data mngmt.	functional biochemical*	data analysis	clinical & dev. neurobiol.* neuroinformatics	user manual FAQs citations	freeware	NIDA	NIH
234	23912507	NIDB (NeuroInformatics DataBase)	Its a database designed to store your neuroimaging data, make it easily accessible to you, and allow you to easily share your data with collaborators.	whole* regions	primates	database ontology & data mngmt.*	functional anatomical*	visualization* annotation	cogn. & behav. neurosci. neuroinformatics*	user manual	open source	Hartford Hospital, Hartford, CT, USA	NIH, NIMH, NHLBI
235	PMC3402830	Nimrod	Nimrod uses a simple declarative parametric modeling language to express a parametric experiment and provides machinery that automates the task of formulating, running, monitoring, and collating the results from the multiple individual experiments.	regions	rodents	software	anatomical physiological*	modeling & simulation* data analysis	cell., mol., & syst. neurosci.* neuroinformatics comput. neurosci.	user manual citations	freeware		Australian Research Council
236	nlx_18447	NITRC-IR	XNAT-based Image Registry that supports both NiftI and DICOM images to promote re-use and integration of valuable NIH-funded data. NITRC-IR currently contains 7 Projects, 4764 Subjects, and 4779 Imaging Sessions.	whole	primates	ontology & data mngmt.	functional* anatomical	data analysis* visualization	clinical & dev. neurobiol.* cogn. & behav. neurosci. neuroinformatics	user manual FAQs citations	freeware	NITRC	NIH
237	PMC3427544	NordicNeuroLab	NordicNeuroLab provides products and solutions that define the field of functional MR imaging.	whole regions*	primates	instrumentation	anatomical* functional	neurotechnology* data analysis visualization	cogn. & behav. neurosci.* neuroinformatics clinical & dev. neurobiol.	user manual citations	licensed	NordicNeuroLab	
238	nlx_143665	Novus Biologicals	Novus Biologicals was organized to provide the biological research community with a mechanism for commercializing unique biological materials.	macromol.	rodents primates*	ontology & data mngmt.* database	biochemical	annotation	cell., mol., & syst. neurosci.* neuroinformatics	user manual FAQs Blog/social networking citations	licensed	Novus	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
239	nif-0000-00387	OASIS - Open Access Series of Imaging Studies	Freely available MRI data sets of the brain including: Cross-sectional MRI Data in Young, Middle Aged, Nondemented and Demented Older Adults, Longitudinal MRI Data in Nondemented and Demented Older Adults, and Resting State Functional MRI Data in Young Adults.	whole* regions	primates	ontology & data mngmt.	anatomical	annotation visualization*	cogn. & behav. neurosci.* neuroinformatics	user manual citations	freeware	Washington University Alzheimer's Disease Research Center, Washington University School of Medicine, Biomedical Informatics Research Network (BIRN)	
240	19787067	OBART	The Online Brain Atlas Reconciliation Tool (OBART) aims to provide a quantitative solution to the so-called neuroanatomical nomenclature problem by comparing overlap relations between regions defined as spatial entities in different digital human brain atlases.	whole regions*	primates	atlas* ontology & data mngmt.	anatomical	annotation visualization*	neuroinformatics* neuroanatomy	user manual citations		Brain architecture project	WM Keck Foundation
241	PMC3385559	Olympus microscopy resource center	Confocal and wide field microscopy imaging	cellular	all	instrumentation* topical portal	anatomical	neurotechnology	cell., mol., & syst. neurosci.* clinical & dev. neurobiol.	user manual FAQs citations	licensed	Columbia University, New York, NY, USA	
242	25240319	ONL-MSA	This ontology is a module of the OntoNeuroLOG ontology, developed in the context of the NeuroLOG project, a french project supported by ANR (ANR-06-TLOG-024 grant) aiming at integrating distributed heterogeneous resources in neuroimaging.	whole* regions	primates	software ontology & data mngmt.*	anatomical	annotation* data analysis	cogn. & behav. neurosci. clinical & dev. neurobiol. neuroinformatics*	user manual	freeware	Sorbonne Universites, UPMC Univ Paris	french ANR
243	PMC3338117	Open Biological and Biomedical Ontologies	The OBO Foundry is a collaborative experiment involving developers of science-based ontologies who are establishing a set of principles for ontology development with the goal of creating a suite of orthogonal interoperable reference ontologies in the biomedical domain.	all	all	ontology & data mngmt.	all	annotation visualization*	neuroinformatics* cell., mol., & syst. neurosci.	user manual FAQs citations		Berkeley Bioinformatics Open Source Project (BBOP)	OBO Foundry Operations Committee
244	PMC3945519	Open Metadata Markup Language (odML)	odML is an initiative to define and establish an open, flexible and easy-to-use format to transport metadata.	cellular	all	ontology & data mngmt.* software	physiological	annotation	neuroinformatics	user manual citations	freeware	German Neuroinformatics Node	German Federal Ministry of Education and Research and hosted by Ludwig-Maximilians-Universitat Munchen

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
245	nlx_152590	Open Source Brain	A resource for sharing and collaboratively developing computational models of neural systems. While models can be submitted and developed in any format, the use of open standards such as NeuroML and PyNN is encouraged, to ensure transparency, modularity, accessibility and cross simulator portability. OSB will provide advanced facilities to analyze, visualize and transform models in these formats, and to connect researchers interested in models of specific neurons, brain regions and disease states.	regions* whole cellular	mammals* others	ontology & data mngmt.* software	physiological* functional	modeling & simulation* Annotation	comput. neurosci.* neuroinformatics	user manual blog/social networking citations	open source	University College London; London; United Kingdom	Wellcome Trust
246	25129841	Open Source Clinical Image and Object Management	dcm4che is a collection of open source applications and utilities for the healthcare enterprise. These applications have been developed in the Java programming language for performance and portability, supporting deployment on JDK 1.4 and up.	whole* regions	primates	database* software	anatomical	data analysis	cogn. & behav. neurosci. neuroinformatics*	user manual user forum citations	open source		
247	PMC3945519	OpenCL	OpenCL is the first open, royalty-free standard for cross-platform, parallel programming of modern processors found in personal computers, servers and handheld/embedded devices. OpenCL (Open Computing Language) greatly improves speed and responsiveness for a wide spectrum of applications.	cellular	all	software instrumentation*	physiological* functional	modeling & simulation	neuroinformatics comput. neurosci.*	user manual user forum citations	open source	by Kyle Lutz	
248	PMC3703526	OpenfMRI project	Aims to provide the neuroimaging community with a resource to support open sharing of task-based fMRI studies.	whole	primates	database* ontology & data mngmt.	functional* anatomical	annotation visualization*	neuroinformatics* cogn. & behav. neurosci.	user manual FAQs citations	open source	University of Texas at Austin	NSF
249	PMC4017157	Oxford-GSK-Imanova Striatal Connectivity Atlas	Probabilistic maps of the cortical striatal connectivity profiles, calculated from 26 subjects. The probabilities stored in these maps are calculated for each cortical zone and each striatal voxel, with one map/image of the striatum provided for each zone.	whole* regions	primates	atlas* software topical portal	anatomical* functional	visualization* data analysis annotation	cogn. & behav. neurosci.	user manual user forum FAQs citations	freeware	FMRIB, Oxford, UK	UK EPSRC and the Wellcome Trust
250	23828255	Package"fmri"for R	The R-package"fmri"provides functions for analyzing single run fmri data with structure adaptive smoothing procedure. This includes I/O function for ANALYZE, AFNI, or DICOM files, linear modeling with hemodynamic response functions, signal detection using Random Field Theory. Additionally, the structural adaptive segmentation method from Polzehl et al. 2010 is implemented.	regions* whole	primates	software	functional* anatomical	data analysis	cogn. & behav. neurosci.* comput. neurosci. neuroinformatics	user manual citations	open source	Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany.	DFG Research Center Matheon and support from the Cervical Spine Research Society
251	PMC3949323	PainResearchForum	PRF is a community of chronic pain researchers, established with the goal of fostering collaboration and communication among pain researchers.	whole	primates	ontology & data mngmt.* topical portal	functional	annotation	neuroinformatics clinical & dev. neurobiol.* cell., mol., & syst. neurosci.	user manual user forum FAQs citations	freeware	Harvard NeuroDiscovery Center	Curvey Family Foundation, the Mayday Fund, the Guthart Family Foundation, Purdue Pharma L.P. and Genentech.

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
252	PMC3578208	PANDA - Pipeline for Analyzing brain Diffusion imAges	A matlab toolbox for pipeline processing of diffusion MRI images. For each subject, PANDA can provide outputs in 2 types: i) diffusion parameter data that is ready for statistical analysis; ii) brain anatomical networks constructed by using diffusion tractography.	whole	primates	software	anatomical	visualization data analysis*	cogn. & behav. neurosci. neuroinformatics*	user manual	open source	Beijing Normal University	
253	nlx_84521	PANTHER	Classification system that classifies genes by their functions, using published scientific experimental evidence and evolutionary relationships to predict function even in the absence of direct experimental evidence.	macromol.	all	database* ontology & data mngmt.	biochemical* functional	annotation data analysis*	neuroinformatics* cell., mol., & syst. neurosci.	user manual citations	freeware	University of Southern California; California; USA	NIGMS
254	PMC3437523	Patriot Digitizer	The PATRIOT Digitizer is a high-end, full 6DOF digitizer, and is the most cost effective digitizer on the market. This easy-to-use system allows you to move freely--around, under and behind objects--and has the capability to digitize both big and small items.	whole	primates	instrumentation	physiological	data analysis neurotechnology*	neuroinformatics* cogn. & behav. neurosci.	user manual citations	licensed	Polhemus	
255	nif-0000-00135	PDB	An Information Portal to 105839 Biological Macromolecular Structures	macromol.	all	database* ontology & data mngmt. software	anatomical biochemical*	visualization data analysis* annotation	neuroinformatics* cell., mol., & syst. neurosci.	user manual	freeware	University of California at San Diego; California; USA, Rutgers University; New Jersey; USA	NSF, NIGMS, DOE, NLM, NCI, NINDS, NIDDK
256	nif-0000-01866	PDSP Ki Database, Ki Database	Database of information on the abilities of drugs to interact with an expanding number of molecular targets.	macromol.	all	database	biochemical* anatomical functional	annotation data analysis*	neuroinformatics cell., mol., & syst. neurosci.*	user manual citations	freeware	University of North Carolina at Chapel Hill; North Carolina; USA	NIMH, Heffter Research Institute
257	nif-0000-03266	PeptideAtlas	Multi-organism, publicly accessible compendium of peptides identified in a large set of tandem mass spectrometry proteomics experiments.	macromol.	all	database* atlas ontology & data mngmt.	biochemical* functional	annotation data analysis*	neuroinformatics	user manual FAQs	freeware	Institute for Systems Biology; Washington; USA	EU, NCI, NHGRI, NIGMS
258	PMC4019854	Petiole	This module incorporates and extends an existing implementation of a graph class (Tustison et al., 2008) and provides ITK functions for a variety of graph metrics while using the Matlab-based Brain Connectivity Toolkit (Rubinov and Sporns, 2010) for algorithmic guidance.	regions* whole	primates	software	anatomical	visualization* data analysis modeling & simulation	neuroanatomy* neuroinformatics	user manual	open source	Penn Image Computing and Science Laboratory, Department of Radiology, University of Pennsylvania	
259	PMC3284145	PLINK	PLINK is a free, open-source whole genome association analysis toolset, designed to perform a range of basic, large-scale analyses in a computationally efficient manner.	macromol.	primates	software	functional	data analysis annotation*	neuroinformatics cogn. & behav. neurosci.*	user manual user forum FAQs citations	freeware	Primates Genetic Research (CHGR), Massachusetts General Hospital (MGH)	
260	22644868	PowerMap	A power calculator for medical imaging studies. Implements theoretical power calculation algorithms based on non-central random field theory. It can also calculate power for statistical analyses with FDR (false discovery rate) corrections.	whole regions*	all	software	functional	data analysis	cogn. & behav. neurosci.* neuroinformatics	user manual citations		Wake Forest School of Medicine, Winston-Salem, NC,	National Institute of Neurological Disorders and Stroke (NINDS)

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
261	23417655	PRoNT: pattern recognition for neuroimaging toolbox	Is a software toolbox based on pattern recognition techniques for the analysis of neuroimaging data. Statistical pattern recognition is a field within the area of machine learning which is concerned with automatic discovery of regularities in data through the use of computer algorithms.	whole	primates	software	anatomical	visualization* data analysis	cogn. & behav. neurosci. clinical & dev. neurobiol.* neuroinformatics	user manual user forum citations	freeware	University College London	PASCAL Harvest framework, The Wellcome Trust
262	24163114	Protege ontology editor	A free, open-source ontology editor and framework for building intelligent systems	all	all	software ontology & data mngmt.*	functional	visualization annotation*	neuroinformatics clinical & dev. neurobiol.* comput. neurosci.	user manual user forum blog/social networking citations	freeware	Stanford Center for Biomedical Informatics Research at the Stanford University School of Medicine	National Institute of General Medical Science
263	PMC3411070	Psychtoolbox	Psychophysics Toolbox Version 3 (PTB-3) is a free set of Matlab and GNU Octave functions for vision and neuroscience research.	whole	insects	software	functional physiological*	visualization	cell., mol., & syst. neurosci.* neuroinformatics	user manual user forum FAQs citations	open source	by Mario Kleiner	
264	nlx_86401	PubMed Health	Clinical effectiveness research finds answers to the question What works in medical and health care.	whole	all	database* ontology & data mngmt.	functional	annotation	neuroinformatics* clinical & dev. neurobiol.	user manual citations	freeware	NCBI	
265	23893006	Purdue ASL Database	Database of American Sign Language (ASL) videos and transcriptions	whole* regions	primates	database	functional	visualization	cogn. & behav. neurosci.* neuroinformatics	user manual citations	freeware	Purdue University	NSF
266	10.1007/s12021-013-9188-z	Py3DN	Py3DN, is an open-source solution providing novel tools to analyze and visualize 3D data collected with the widely used Neurolucida (MBF) system.	cellular	all	software	anatomical	visualization* data analysis	neuroinformatics	user manual citations	open source	Centro de Matemática da Universidade do Porto	European Regional Development Fund
267	PMC4115634	pydpiper	pydpiper is a set of python modules that offers programmatic control over pipelines.	all	all	software	functional	data analysis* visualization	neuroinformatics* cogn. & behav. neurosci.	user manual	open source	Rodents Imaging Centre, Hospital for Sick Children, Toronto, ON, Canada	Canadian Institutes of Health Research
268	PMC3989728	PyHRF	PyHRF is a set of tools for within-subject fMRI data analysis, which focuses on the characterization of the hemodynamics.	whole regions*	primates	software	functional* anatomical	data analysis* visualization	cogn. & behav. neurosci.	user manual	freeware	LNAO, Gif-Sur-Yvette, France	
269	PMC3426793	PyMVPA - Multivariate Pattern Analysis in Python	PyMVPA is a Python package intended to ease statistical learning analyses of large datasets. It offers an extensible framework with a high-level interface to a broad range of algorithms for classification, regression, feature selection, data import and export. It is designed to integrate well with related software packages, such as scikit-learn, and MDP	whole regions*	primates	software	functional anatomical*	data analysis	cogn. & behav. neurosci. neuroinformatics*	user manual user forum citations	open source	University of Magdeburg, Germany	CIMEC, the Autonomous Province of Trento, the Fondazione Cassa di Risparmio di Trento e Rovereto
270	24777387	r2aGUI	The R2AGUI converts raw data from PHILIPS MRI scanners (PAR/REC format) to the popular ANALYZE 7.5 format, which is used in SPM and many other imaging software packages.	whole regions*	primates	software ontology & data mngmt.*	anatomical	visualization annotation*	cogn. & behav. neurosci.* neuroinformatics	user manual citations	open source		

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
271	nif-0000-10407	Rafael Yustes Laboratory	Laboratory that aims to understand the function of the cortical microcircuit by reverse-engineering of the cortical microcircuit using the mouse neocortex in vitro and in vivo as their experimental preparations.	regions* whole cellular	rodents	database* topical portal	physiological* anatomical functional	visualization* modeling & simulation	cell., mol., & syst. neurosci.* comput. neurosci.	user manual citations	freeware	Columbia University; New York; USA	
272	nif-0000-00134	Rat Genome Database (RGD)	Centralized database that collects, manages, and distributes data generated from ongoing rat genetic and genomic research efforts and makes these data widely available to the scientific community.	macromol.	rodents	database ontology & data mngmt.*	functional	annotation* visualization data analysis	neuroinformatics* cell., mol., & syst. neurosci.	user manual user forum citations	freeware	Bioinformatics Research Center, Medical College of Wisconsin	NIH
273	nif-0000-03390	Reactome	Open-source, open access, manually curated and peer-reviewed pathway database with pathway annotations authored by expert biologists.	macromol.	all	database* ontology & data mngmt.	biochemical* anatomical functional	annotation modeling & simulation* visualization	neuroinformatics* cell., mol., & syst. neurosci.	user manual user forum blog/social networking citations	freeware	Ontario Institute for Cancer Research, Cold Spring Harbor Laboratory, European Bioinformatics Institute, New York University School of Medicine; New York; USA	NHGRI, European Union, (FP6, ENFIN), Ontario Research Fund, European Molecular Biology Laboratory
274	PMC4228977	Representational Similarity Analysis (RSA)	A matlab toolbox for RSA. RSA characterizes the representation in each brain region by a representational dissimilarity matrix	whole* regions	primates	software	anatomical physiological*	data analysis visualization*	neuroanatomy* neuroinformatics	user manual user forum citations	freeware	MRC Cognition and Brain Sciences Unit	European Research Council
275	PMC4137278	Research Domain Criteria (RDoC) of the National Institute of Mental Health	The structure of the RDoC is described as a matrix in which the rows represent various constructs grouped hierarchically into broad domains of function. The columns of the matrix denote different levels of analysis, from genetic, molecular, and cellular levels, proceeding to the circuit-level to the level of the individual, family environment, and social context	all	primates	topical portal	functional	data analysis annotation*	cogn. & behav. neurosci. clinical & dev. neurobiol.* neuroinformatics	user manual	freeware	NIMH	
276	PMC4046318	Resting-State fMRI	Resting-State fMRI Data Analysis Toolkit (REST) is a convenient toolkit to calculate Functional Connectivity (FC), Regional Homogeneity (ReHo), Amplitude of Low-Frequency Fluctuation (ALFF), Fractional ALFF (fALFF), Granger causality, degree centrality, voxel-mirrored homotopic connectivity (VMHC) and perform statistical analysis.	whole	primates	software	functional* anatomical	visualization modeling & simulation*	cogn. & behav. neurosci. neuroinformatics*	user manual user forum blog/social networking citations	open source	State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China	
277	22281931	ROI Optimization	A novel methodology to computationally optimize ROIs locations derived from task-based fMRI data for individuals so that the optimized ROIs are more consistent, reproducible and predictable across brains.	whole	primates	software	functional anatomical*	visualization data analysis*	cogn. & behav. neurosci.	user manual	open source	Northwestern Polytechnical University, Xian, China	NIH
278	24777387	Rosetta Bit	The Rosetta Bit project will house public datasets that have been transcoded into multiple formats. This library of valid file format conversions (DICOM->NIFTI, DICOM->PAR/REC, etc.) will provide a reference for tool developers seeking to support multiple sources of data.	whole regions*	primates	software ontology & data mngmt.*	anatomical	visualization annotation* data analysis	cogn. & behav. neurosci. neuroinformatics*	user manual user forum	open source	Vanderbilt University, Nashville, TN, USA	NIH

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
279	PMC3284145	Schizophrenia Research Forum (SRF)	The mission of the SRF is to help in the search for causes, treatments, and understanding of the devastating disease of schizophrenia.	macromol.	primates	topical portal	all	annotation data analysis*	cogn. & behav. neurosci. clinical & dev. neurobiol.* cell., mol., & syst. neurosci. neuroinformatics	user manual user forum citations	freeware		NIMH, Brain & Behavior Research Foundation (BBRF)
280	10.4249/scholarpedia.2929	Scilab	Scilab is free and open source software for numerical computation providing a powerful computing environment for engineering and scientific applications.	whole	all	software	anatomical functional*	visualization modeling & simulation* data analysis	neuroinformatics comput. neurosci.*	user manual blog/social networking citations	open source	Scilab Enterprises	
281	PMC3439738	SciMedia	High speed membrane potential imaging of rat in vivo preparation stained with voltage-sensitive dye.	cellular macromol.*	rodents	software instrumentation* ontology & data mngmt.	anatomical	visualization* data analysis	neuroinformatics* comput. neurosci.	user manual user forum FAQs citations	licensed	SciMedia Ltd.	
282	nif-0000-10427	SFARI Gene: AutDB	Curated public database for autism research built on information extracted from the studies on molecular genetics and biology of Autism Spectrum Disorders (ASD). The genetic information includes data from linkage and association studies, cytogenetic abnormalities, and specific mutations associated with ASD.	macromol.	rodents primates*	database* ontology & data mngmt.	functional biochemical*	annotation* data analysis	clinical & dev. neurobiol.* neuroinformatics	user manual citations	freeware	SFARI - Simons Foundation Autism Research Initiative	MindSpec: Informatics for Neurodevelopmental Conditions
283	PMC4172099	SIMA	SIMA (Sequential IMage Analysis) is an Open Source package for analysis of time-series imaging data arising from fluorescence microscopy.	cellular	all	software	anatomical	visualization* data analysis	neuroinformatics cell., mol., & syst. neurosci.*	user manual	freeware	Columbia University in the City of New York, New York, NY, USA	Howard Hughes Medical Institute International Student Research fellowship
284	10.4249/scholarpedia.1738	SimBio	The SimBio software consists of two subpackages: IPM (Inverse Problem Method) toolbox containing algorithms for inverse EEG and MEG source analysis. NeuroFEM, which allows Finite Element Method (FEM) based EEG and MEG forward solutions.	whole	primates	software	physiological	modeling & simulation* visualization	comput. neurosci.* cell., mol., & syst. neurosci. neuroinformatics	user manual user forum citations	open source		
285	nif-0000-23302	Simtk.org	A National NIH Center for Biomedical Computing that focuses on physics-based simulation of biological structures and provides open access to high quality simulation tools, accurate models and the people behind them.	macromol.* whole	all	software	functional biochemical*	visualization modeling & simulation*	neuroinformatics* comput. neurosci.	user manual user forum citations	open source	Simbios	NIH
286	23949335	SLDB - Speech/Language Disorders Database	Genes implicated in speech and language phenotypes	macromol.	rodents	database* software	functional	visualization* data analysis annotation	neuroinformatics* cell., mol., & syst. neurosci. cogn. & behav. neurosci.	user manual citations	freeware	Boston University	National Science Foundation
287	22194186	Slicer	Slicer, or 3D Slicer, is a free, open source software package for visualization and image analysis. 3D Slicer is natively designed to be available on multiple platforms, including Windows, Linux and Mac OS X.	whole regions*	primates	software ontology & data mngmt.*	anatomical	visualization* data analysis annotation	clinical & dev. neurobiol.* neuroinformatics	user manual user forum FAQs citations	open source	Brigham and Women's Hospital, Harvard Medical School, Boston, MA	NIH, Neuroimage Analysis Center (NAC)

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
288	10.4249/scholarpedia.1568	SOM_PAK and LVQ_PAK	Two public-domain software packages, SOM_PAK for the Self-Organizing Map algorithm and LVQ_PAK for the Learning Vector Quantization algorithms are developed to demonstrate the implementation of these algorithms and to ease first experiments.	all	all	software	anatomical functional*	modeling & simulation	comput. neurosci.* cell., mol., & syst. neurosci.	user manual citations	open source	Academy of Finland and Helsinki University of Technology	
289	23504659	Sparse Bayesian Models (and the RVM)	Sparse Bayesian Models (and the RVM)	regions	primates	software	anatomical functional*	modeling & simulation	cogn. & behav. neurosci. clinical & dev. neurobiol.* comput. neurosci.	user manual citations	open source	By Mike Tipping	
290	24338729	Sparse Learning and Efficient Projections (SLEP)	A toolkit for finding sparse representation. The main functions were written in Matlab The main functions are written in MATLAB, while the codes for key subroutines the related Euclidean projections were written in C.	whole	primates	software	anatomical	data analysis	neuroinformatics* clinical & dev. neurobiol.	user manual citations	open source	Arizona State University	
291	PMC3620507	spatstat:Open source software for spatial statistics	spatstat is a package for analyzing spatial point pattern data. Its functionality includes exploratory data analysis, model-fitting, and simulation.	regions* cellular	all	software	anatomical	data analysis* modeling & simulation visualization	neuroanatomy comput. neurosci.* neuroinformatics	user manual FAQs citations	open source	University of Western Australia, University of New Brunswick	
292	23274962	SpikeStream	SpikeStream is a tool for the creation, visualization, storage and analysis of spiking neural networks, with a plugin architecture that enables it to wrap neural simulators, such as NeMo, and interface with external devices.	regions* cellular	all	software* database	anatomical* physiological	visualization* modeling & simulation neurotechnology	comput. neurosci.* neuroinformatics	user manual citations		Imperial College London	EPSRC grant, NVIDIA University Program
293	24692020	SPIN: a method of Skeleton-based Polarity Identification for Neurons	SPIN was designed to work with large-scale neuronal databases in which tracing-line data are available. In SPIN, a classifier is first trained by neurons with known polarity in two steps: 1) identifying morphological features that most correlate with the polarity and 2) constructing a linear classifier by determining a discriminant axis (a specific combination of the features) and decision boundaries.	cellular	insects	software	anatomical	annotation* data analysis	neuroanatomy* neuroinformatics	user manual	open source	NCHC (National Center for High-performance Computing) and NTHU (National Tsing Hua University), Hsinchu, Taiwan	
294	24253973	SpineML: Spiking Neural Mark-up Language	The Spiking Neural Mark-up Language (SpineML) is a declarative XML based model description language for large scale neural network models. It is partially based upon on the INCF NineML syntax utilizing the LEMS (Low Entropy Model Specification) common model specification syntax which is proposed to unite a range of INCF supported simulators including NeuroML v2.0 and PyNN.	whole* regions cellular	all	ontology & data mngmt.	physiological* anatomical biochemical	modeling & simulation	neuroinformatics* comput. neurosci.	user manual user forum citations	freeware	Department of Automatic Control and Systems Engineering, University of Sheffield, Sheffield, UK	ESPRC via the Biologically-Inspire Massively Parallel Architectures (BIMPA) EPSRC Delivery Plan Kickstart funding

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
295	PMC3350955	Stanford Encyclopedia of Philosophy	Welcome to the Stanford Encyclopedia of Philosophy (SEP). From its inception, the SEP was designed so that each entry is maintained and kept up-to-date by an expert or group of experts in the field. All entries and substantive updates are refereed by the members of a distinguished Editorial Board before they are made public.	whole	primates	topical portal	functional	visualization* annotation	cogn. & behav. neurosci.	user manual citations	freeware	Stanford	
296	24446234	Structure-based neuron retrieval	Code for Structure-based neuron retrieval across Drosophila brains	regions* cellular	insects	software	anatomical	data analysis* visualization	neuroanatomy* comput. neurosci. neuroinformatics	user manual	open source	Medical University of Vienna, Vienna, Austria	European Union, Austrian Sciences Fund
297	PMC3508475 nif-0000-00016	SumsDB (Surface Management System Database)	SumsDB is a repository of brain-mapping data (surfaces & volumes; structural & functional data) from many laboratories.	regions* whole	primates rodents*	atlas* software database	anatomical	visualization* annotation	neuroinformatics comput. neurosci.* cogn. & behav. neurosci.	user manual citations	freeware	Washington University in St. Louis??School Of Medicine	HBP
298	10.4249/scholarpedia.1463	Swarmanoid	The main scientific objective of this research project is the design, implementation and control of a novel distributed robotic system. The system will be made up of heterogeneous, dynamically connected, small autonomous robots.	whole	all	instrumentation* software topical portal	functional	neurotechnology	cogn. & behav. neurosci.	user manual citations	freeware		European Commission
299	21181305	SynapseWeb	SynapseWeb is a portal into the 3D ultrastructure of the brain	macromol.	all	topical portal ontology & data mngmt.*	anatomical	visualization* annotation	cell., mol., & syst. neurosci.	user manual	freeware	The University of Texas at Austin	NIH/NIBIB/NIMH
300	PMC3701254	Synaptic Apposition Surface (SAS)	Software for visualizing geometrical features of chemical synapses from morphological studies of active zone (AZ) and the postsynaptic density (PSD) components of the synaptic junction	cellular	all	software	anatomical	visualization	cell., mol., & syst. neurosci.* neuroanatomy	user manual	freeware	Universidad Politecnica de Madrid, Madrid, Spain	Cajal Blue Brain Project
301	10.4249/scholarpedia.3036	Systems Biology Markup Language (SBML)	A free and open interchange format for computer models of biological processes. SBML is useful for models of metabolism, cell signaling, and more.	macromol.	all	ontology & data mngmt.* software	physiological	annotation modeling & simulation* visualization	neuroinformatics cell., mol., & syst. neurosci.*	user manual user forum citations	freeware	Caltech	NIH/NIGMS, Caltech, EBML-EBI
302	23161265	TD model simulator	Temporal Difference (TD) (Sutton and Barto, 19871) is a real-time error correction model in which learning is computed according to the difference between successive predictions and a discount factor that decays exponentially, reflecting the fact that predictors closer to a reinforce (the unconditioned stimulus, US) are based on more recent information and thus more accurate.	all	all	software	functional	modeling & simulation	cogn. & behav. neurosci.* clinical & dev. neurobiol.	user manual citations	open source	Centre for Computational and Animal Learning Research, St Albans, UK	
303	nif-0000-24805	Temporal-lobe.com	In the connectome featured on this website, the three-dimensional organization of the projection patterns between and within the hippocampal formation, the parahippocampal region and the retrosplenial cortex are visualized in an interactive connectome. All reported projections concerning this system for the rat were collected and stored in a database and visualized in an interactive pdf document.	regions* cellular	rodents* primates	atlas* ontology & data mngmt.	anatomical	visualization* annotation	neuroanatomy* neuroinformatics	user manual citations	freeware	Norwegian University of Science and Technology; Trondheim; Norway	Norwegian Research Council

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
304	10.1007/s12021-010-9075-9	The Biopsychology Nonlinear Analysis Toolbox	The major goal of this project was to provide a toolbox for non-linear time series analysis that is easily accessible to a wide range of neuroscientists.	whole	primates	software	physiological* functional	data analysis	cogn. & behav. neurosci.* cell., mol., & syst. neurosci. neuroinformatics	user manual user forum citations	open source	Institute for Cognitive Neuroscience, Department of Biopsychology, Ruhr-Universitat Bochum, Germany	Research Department Neuroscience of Ruhr-University Bochum
305	PMC3942659	The Brain Initiative	Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative is part of a new Presidential focus aimed at revolutionizing our understanding of the human brain.	cellular* whole	all	topical portal	functional	neurotechnology	neuroinformatics clinical & dev. neurobiol. cell., mol., & syst. neurosci.*	user manual citations	open source	NIH	NIH
306	PMC3112315	The connectome mapping toolkit	A python-based open source toolkit for magnetic resonance connectome mapping, data management, visualization and analysis.	whole* regions	primates	ontology & data mngmt.* software	anatomical* functional	data analysis* visualization	neuroinformatics* neuroanatomy cogn. & behav. neurosci.	user manual citations	open source	EPFL & UNIL-CHUV	
307	PMC3585434	The FoodCast research image database (FRIDa)	The Foodcast Research Image Database (FRIDa) is a comprehensive collection of both food and nonfood items that can be used for non-commercial purposes. FRIDa has been validated and the results have been published in Frontiers in human Neuroscience (Foroni, Pergola, Argiris, Rumiat, 2013).	whole	primates	database	functional	visualization* annotation	cogn. & behav. neurosci.* neuroinformatics	user manual	open source	Cognitive Neuroscience Sector, SISSA - Trieste, Trieste, Italy	SISSA
308	nif-0000-00088	The Human Brain Atlas	A labeled three-dimensional atlas of the human brain created from MRI images.	whole* cellular	primates	atlas* ontology & data mngmt.	anatomical	visualization	neuroanatomy* neuroinformatics	user manual citations	freeware	Michigan State University; Michigan; USA	NSF
309	10.4249/scholarpedia.1463	The Kilobot Project	A low-cost robot designed to make testing collective algorithms on hundreds or thousands ("kilos") of robots accessible to robotics researchers. Each robot has the basic capabilities required for a swarm robot, but is made with low-cost parts, and is mostly assembled by an automated process.	whole	all	software instrumentation*	functional	neurotechnology* visualization	cell., mol., & syst. neurosci.* comput. neurosci.	user manual citations	licensed	Wyss Institute for Biologically Inspired Engineering	WYSS Institute for Biologically Inspired Engineering, NSF
310	23250668	The Multimedia Signal Processing Group (MMSPG)	The group is active in research and teaching in the field of multimedia signal processing. Research topics span over three highly interconnected disciplines of multimedia signal processing, namely multimedia coding, multimodal processing, analysis and interpretation, and media security.	whole regions*	primates	instrumentation* software	physiological	data analysis neurotechnology*	cell., mol., & syst. neurosci.* comput. neurosci. neuroinformatics	user manual citations	freeware	Swiss Federal Institute of Technology (EPFL)	Swiss National Foundation for Scientific Research
311	23893006	The Penn Treebank Project	The Penn Treebank Project annotates naturally-occurring text for linguistic structure.	whole* regions	primates	database ontology & data mngmt.*	functional	data analysis	cogn. & behav. neurosci.* neuroinformatics	user manual citations	freeware	University of Pennsylvania	
312	PMC4162418	The Rodent Brain Workbench	The Rodent Brain WorkBench presents a collection of brain mapping and atlas oriented resources	whole regions*	rodents	atlas* database software ontology & data mngmt.	anatomical	visualization* annotation	neuroinformatics* neuroanatomy clinical & dev. neurobiol.	user manual citations	freeware licensed*	University of Oslo, Oslo, Norway	primates Brain Project

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
313	PMC3678125	The Virtual Brain (TVB)	This simulation environment enables the model-based inference of neurophysiological mechanisms across different brain scales that underlie the generation of macroscopic neuroimaging signals including functional MRI (fMRI), EEG and MEG.	whole regions*	all	software	physiological* anatomical functional	modeling & simulation* data analysis	comput. neurosci. cell., mol., & syst. neurosci.* neuroinformatics	user manual blog/social networking citations	open source	Aix Marseille Universitat, Marseille, France	James S. McDonnell Foundation
314	PMC3159951	Topic modeling	Topic models are a suite of algorithms that uncover the hidden thematic structure in document collections. These algorithms help us develop new ways to search, browse and summarize large archives of texts.	whole regions*	primates	software* topical portal ontology & data mngmt.	functional	data analysis visualization annotation modeling & simulation*	neuroinformatics cogn. & behav. neurosci.* comput. neurosci.	user manual user forum citations	open source	Princeton University	
315	PMC3578208	TrackVis	Diffusion Toolkit is a set of command-line tools with a GUI frontend that performs data reconstruction and fiber tracking on diffusion MR images. Basically, it does the preparation work for TrackVis.	whole	primates	software* ontology & data mngmt.	anatomical	visualization* data analysis	cogn. & behav. neurosci. neuroinformatics*	user manual user forum FAQs citations	freeware	Department of Radiology, Massachusetts General Hospital	MGH GCRC and NIMH
316	21222051	Trees Toolbox	A freely distributed open-source software package, the TREES toolbox, written in Matlab (Mathworks, Natick, MA), in order to help to pool together the resources offered by a wide variety of novel approaches to studying dendritic and axonal branching that have recently become available.	cellular	all	software	anatomical	visualization data analysis*	neuroanatomy* neuroinformatics	user manual citations	open source	University College London, London, UK	
317	22426994	Tulip	Tulip aims to provide the developer with a complete library, supporting the design of interactive information visualization applications for relational data that can be tailored to the problems he or she is addressing.	all	all	software* database	functional	visualization* annotation	neuroinformatics	user manual user forum	open source		
318	PMC4026698	Turtleseg	TurtleSeg is an interactive segmentation tool designed for 3D medical images.	whole* regions	primates	software	anatomical	visualization* data analysis	neuroinformatics clinical & dev. neurobiol.*	user manual FAQs blog/social networking citations	licensed	Turtleseg	
319	PMC3620563	UCSC Genome Bioinformatics	This site contains the reference sequence and working draft assemblies for a large collection of genomes. It also provides portals to ENCODE data at UCSC (2003 to 2012) and to the Neandertal project.	macromol.	all	database* software	functional	visualization data analysis*	cell., mol., & syst. neurosci. clinical & dev. neurobiol.* neuroinformatics	user manual blog/social networking FAQs citations	freeware licensed*	Genome Bioinformatics Group of UC Santa Cruz	NHGRI, HHMI, California institute of science & innovation
320	nlx_53981	UniProt	The UniProt Knowledgebase (UniProtKB) is the central hub for the collection of functional information on proteins, with accurate, consistent and rich annotation.	macromol.	all	database* software ontology & data mngmt.	functional	visualization data analysis* annotation	neuroinformatics cell., mol., & syst. neurosci.* clinical & dev. neurobiol.	user manual FAQs citations	freeware	UniProt	
321	PMC3508475 nlx_83091	USC Multimodal Connectivity Database (UMCD)	A web-based repository and analysis site for connectivity matrices that have been derived from de-identified neuroimaging data. Users can analyze connectivity matrices that have been shared publicly and upload their own matrices to share or analyze privately.	whole	primates	database* software	anatomical functional*	data analysis visualization* annotation	neuroinformatics* cogn. & behav. neurosci.	user manual	freeware	University of California Los Angeles	
322	25310965	Vaa3D	A Swiss army knife for bioimage visualization & analysis	cellular	all	software	anatomical	visualization* data analysis	neuroinformatics comput. neurosci.*	user manual citations	freeware	HHMI	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
323	PMC3607831	VBM toolboxes	The VBM toolboxes are a collection of extensions to the segmentation algorithm of SPM2, SPM5, and SPM8 (Wellcome Department of Cognitive Neurology) to provide voxel-based morphometry (VBM). The toolboxes are named according to the SPM version.	regions	primates	software	anatomical* functional	visualization data analysis* modeling & simulation	comput. neurosci.* clinical & dev. neurobiol. neuroinformatics	user manual citations	freeware* licensed	University of Jena, Department of Psychiatry	
324	PMC3381445	VCode & Vdata	VCode and VData are a suite of "open source" applications which create a set of effective interfaces supporting the video annotation workflow .	whole	primates	software	functional	visualization	neuroinformatics cogn. & behav. neurosci.*	user manual citations	open source	University of Illinois at Urbana Champaign	NSF
325	PMC4222236	Venn diagram tool	With this tool you can calculate the intersection(s) of list of elements. It will generate a textual output indicating which elements are in each intersection or are unique to a certain list. If the number of lists is lower than 6 it will also produce a graphical output in the form of a venn diagram. You have the choice between symmetric (default) or non symmetric venn diagrams. Currently you are able to calculate the intersections of at maximum 30 lists.	all	all	software	functional	visualization* annotation	neuroinformatics	user manual citations	freeware		
326	24234916	VerbNet	VerbNet (VN) (Kipper-Schuler 2006) is the largest on-line verb lexicon currently available for English. It is a hierarchical domain-independent, broad-coverage verb lexicon with mappings to other lexical resources such as WordNet (Miller, 1990; Fellbaum, 1998), Xtag (XTAG Research Group, 2001), and FrameNet (Baker et al., 1998).	whole	primates	database ontology & data mngmt.*	functional	data analysis* annotation	neuroinformatics comput. neurosci.* cogn. & behav. neurosci.	user manual citations	freeware	Department of Linguistics University of Colorado Boulder	
327	PMC3176413	Vidrio technologies	Vidrio Technologies launched January 2014 to further the development, maintenance, and support of software for neuroscience imaging. Our core product is ScanImage, software for the control of experiments using two-photon laser scanning microscopy.	cellular	all	software* instrumentation	physiological	visualization* data analysis	cell., mol., & syst. neurosci.* neuroinformatics	user manual	open source	vidrio technologies, LLC	Atlassian
328	PMC4053686	Virtual Atlas of the Honeybee Brain	The Honeybee Standard Brain Atlas is calculated from 20 individual bee brain images that were immuno-stained, imaged as whole-mounts with the confocal microscope, and segmented along the borderlines of 22 neuropils.	whole* regions	insects	atlas* ontology & data mngmt.	anatomical* physiological	annotation visualization*	neuroanatomy* neuroinformatics	user manual citations	freeware	Freie Universitat Berlin	Berlin School of Mind & Brain
329	nif-0000-00048	Visiome Platform	Data sharing platform with a variety of digital research resources in vision science such as Experimental data, Mathematical model, Illusion stimulus, and Analytical tools.	regions	all	database* software topical portal	anatomical physiological*	modeling & simulation* visualization	neuroinformatics comput. neurosci.*	user manual citations	freeware	INCF Japan Node, RIKEN Brain Science Institute	

rid	external rid	resource name	description	scale	species	resource type	measurement	application	area of study	user support	resource availability	parent org	funding agency
330	PMC4033674	VolRoverN	VolRoverN is a software package that offers comprehensive functionality for geometric and electrophysiological neuronal simulation at multiple scales. It produces spatially realistic surface models of neuronal processes, glia, and intracellular organelles from cross-sectional traces.	cellular	rodents	software	anatomical	visualization* data analysis	neuroanatomy comput. neurosci.* neuroinformatics	user manual citations	open source	University of Texas, Austin, TX, USA	NIH, NSF
331	nif-0000-20925	WikiPathways	Open, collaborative platform dedicated to the curation of biological pathways. Each pathway has a dedicated wiki page, displaying the current diagram, description, references, download options, version history, and component gene and protein lists.	macromol.	all	ontology & data mngmt.	biochemical functional*	visualization* annotation modeling & simulation	neuroinformatics cell., mol., & syst. neurosci.*	user manual citations	freeware	University of California at San Francisco; California; USA, Maastricht University; Maastricht; Netherlands	NIH, Netherlands Bioinformatics Centre, Google Summer of Code program, NWO - Netherlands Organization for Scientific Research, NIGMS
332	24234916	WordNet	WordNet is a large lexical database of English. Nouns, verbs, adjectives and adverbs are grouped into sets of cognitive synonyms (synsets), each expressing a distinct concept.	whole	primates	ontology & data mngmt.	functional	visualization data analysis*	comput. neurosci. neuroinformatics*	user manual FAQs citations	freeware	Princeton University	
333	PMC3602642	WUtech	Wu Technologies is a company specialized in Surveying and Engineering industries. We are dealers from the most recognized brands in the market such as Nikon, Spectra, Astech & Geosurv.	cellular regions*	rodents	instrumentation	physiological	visualization	cell., mol., & syst. neurosci.* neuroinformatics	user manual blog/social networking citations	licensed	Wu-technologies store	
334	21479735	XCEDE	XML-based Clinical and Experimental Data Exchange (XCEDE) provides an extensive metadata hierarchy for storing, describing and documenting the data generated by scientific studies	whole	primates	ontology & data mngmt.	anatomical	annotation	cogn. & behav. neurosci.* neuroinformatics	user manual citations	freeware	BIRN	NIH/NCRR
335	PMC3483622	Xiview:A viewing program for spm	Software for viewing and analyzing fMRI images	whole* regions	primates	software	functional* anatomical	visualization* data analysis annotation	neuroinformatics* cogn. & behav. neurosci.	user manual FAQs citations	freeware* licensed	Baylor College of Medicine	
336	nif-0000-00242	Zebrafish International Resource Center	Supplies access to wild-type, mutant, and transgenic zebrafish lines, EST's/cDNAs, antibodies and fish health services.	whole	others	ontology & data mngmt.	functional	annotation	neuroinformatics	user manual FAQs citations	licensed	University of Oregon; Oregon; USA	NCRR, NIH Blueprint for Neuroscience Research
337	nif-0000-21427	ZFIN	The Zebrafish Model Organism Database	whole	others	database* ontology & data mngmt. atlas	functional	visualization data analysis*	neuroinformatics* neuroanatomy cell., mol., & syst. neurosci.	user manual user forum citations	freeware	University of Oregon; Oregon; USA	NHGRI