

Corresponding author	Abstract title	Abstract number
Adebimpe, Azeez	Altered brain functional connectivity in patients with benign childhood epilepsy	P56
Ahmed, Zeeshan	Ant-app-database towards neural, behavioral research on deserts ants and approximate solar estimations	D09
Asai, Yoshiyuki	Interoperability between multilevel modeling platform PhysioDesigner and databases in Physiome.jp and Dynamic Brain Platform through Garuda platform	P45
Avella Gonzalez, Oscar Javier	Inter-network interactions: impact of connections between oscillatory neuronal networks on oscillation frequency and pattern	OP03
Bakker, Max	Efficient generation of large-scale neural connectivity matrices using machine-learning techniques	P49
Bakker, Rembrandt	Do gold standards remain gold standards when compiling a large number of published tract-tracing studies into a connectivity database?	P52
Bakker, Rembrandt	eScience Infrastructure for running validated image analysis pipelines: how to best compare MRI scans from different medical centers	D19
Bandrowski, Anita	Identifying research resources in biomedical literature should be easy	OP04
Battaglia, Demian	First neuronal connectomics challenge: from imaging to connectivity	P05
Beul, Sarah	Cortical cytoarchitecture and distance predict corticocortical connectivity	P17
Bjaalie, Jan	Workflow for integration and analysis of histological data in rodent brain Waxholm Space	P19
Bohland, Jason	Classification of cortical areas using gene expression profiles	P41
Boline, Jyl	Growing the INCF Digital Atlasing Infrastructure	P20
Bosman, Conrado	Low-frequency phase-locking of selective human medial temporal lobe neurons to the local field potential of contralateral lateral prefrontal cortex during visual stimulation	P24
Bota, Mihail	The rat cerebral cortex macroconnectome	OP09
Chaitanya Chintaluri, Hanuma	Neuroscience Simulation Data Format (NSDF) : HDF-based format for large simulation datasets	P34
Chavas, Joël	A Docker image for spiking neural network simulators	D05
Chiang, Ann-Shyn	A wiring diagram of protocerebral bridge for visual information processing in the drosophila brain	P30
Davison, Andrew	Model validation using the Mozaik framework	P03
de Bono, Bernard	ApiNATOMY: the generation of interactive circuitboard schematics of multiscale neuroscientific knowledge	P36
Denker, Michael	INCF Workshop Report: New perspectives on workflows and data management for the analysis of electrophysiological data	P27
Djurfeldt, Mikael	Methods for co-simulation of multi-scale models	P50
Djurfeldt, Mikael	MUSIC---a tool for co-simulation of neuronal network models. Current status and future development.	P51
Fredo, Jac	Segmentation and analysis of sub-cortical regions of autistic MR brain images using Gaussian distribution model based reaction diffusion multi-phase level sets and geometric feature	P59
Georgopoulos, Apostolos	Adjusted Brain Measure (ABM): A simple, relative measure of brain status	P31

## Reference index for abstracts

Corresponding author	Abstract title	Abstract number
Głańska, Helena	Collection of simulated data for validation of methods of analysis of extracellular potentials	P07
Glatard, Tristan	Extending provenance information in CBRAIN to address reproducibility issues across computing platforms	P39
Glatard, Tristan	Interoperability between the CBRAIN and VIP web platforms for neuroimage analysis	OP06
Grethe, Jeffrey	SciCrunch: A cooperative and collaborative data and resource discovery platform for scientific communities	D11
Güçlü, Umut	A two-stage approach to estimating voxel-specific encoding models improves prediction of hemodynamic responses to natural images	P64
Haselgrove, Christian	Lessons from a simple tool for neuroimaging data sharing	D17
Hess, Andreas	A new automatic multi seed analysis for fMRI resting state data in animal model: Comparison to ICA	P54
Hyttinen, Jari	Combining spiking neuronal network model with presynaptic and astrocyte interface models	P11
Jeanson, Francis	Brain-CODE: A large-scale neuroinformatics platform for deep and broad data	P43
Kamitani, Yukiyasu	The BrainLiner Platform for sharing and searching time-aligned neurophysiological data	D12
Karthick, PA	Analysis of muscle fatigue progression in biceps brachii using surface electromyography signals and wavelet packet entropies	P26
Keator, David	Developing and using the data models for neuroimaging: the NIDASH Working Group	P33
Kennedy, David	Neuroimaging resources, data and computation: NITRC Revisited	D18
Kirsch, Lior	Human areal expression of most genes is governed by regionalization	OP05
Klein, Arno	Detailed shape analysis of brains with Alzheimer's disease	P55
Lazar, Aurel	A parallel programming model of local processing units in the fruit fly brain	P46
Lazar, Aurel	Neuroarch: a graph-based platform for constructing and querying models of the fruit fly brain architecture	P47
Le Franc, Yann	Describing neurophysiology data and metadata with OEN, the Ontology for Experimental Neurophysiology	P28
Le Franc, Yann	Mobile metadata: bringing Neuroinformatics tools to the bench	D07
Leergaard, Trygve	Registration of serial two-photon data to rodent brain Waxholm Space	P22
Lehtimäki, Mikko	Usability and functionality of NeuroML description language evaluated using three distinct spiking neuron models	P37
Lenk, Kerstin	Simulation of matured in vitro human neuronal cell networks	P13
Lenk, Kerstin	The effect of longer range connections on neuronal network dynamics	P14
Linne, Marja-Leena	Usability and functionality of NeuroML description language evaluated using three distinct spiking neuron models	P37
Linssen, Charl	Can we hear the shape of a neuron? Cell type classification in high density multi-electrode recordings	P23
Lo, Chung-Chuan	The Flysim project – persistent simulation and real-time visualization of fruit fly whole-brain spiking neural network model	D15

Corresponding author	Abstract title	Abstract number
M, Kayalvizhi	Segmentation and analysis of hippocampus and ventricle in Alzheimer's brain MR images using Minkowski weighted K-means clustering and its ratiometric index	P61
Mahan, Margaret	Parallel confidence-weighted classification of large-scale, multimodal neural data on MapReduce	P32
Mahfouz, Ahmed	Predicting targets and signaling pathways of steroid hormones using the Allen Brain Atlas	P40
Majima, Kei	The BrainLiner Platform for sharing and searching time-aligned neurophysiological data	D12
Majka, Piotr	Automated workflow for mapping tracer injection studies of the common marmoset into a reference template	P21
Maumet, Camille	IBMA: An SPM toolbox for neuroImaging Image-Based Meta-Analysis	OP08
Maumet, Camille	Extending NI-DM to share the results and provenance of a neuroimaging study: implementation within SPM and FSL.	D04
Meesters, Stephan	Visualization of synchronized stereoencephalographic recordings in a 3D smart image to aid presurgical evaluation of epilepsy	P62
Meyer, Robert	pypet: a Python toolkit for simulations and numerical experiments	P38
Moctezuma, Juan	Bifurcation analysis in a single-compartment Traub model for hardware based emulation	P12
Moren, Jan	On-line integration of multiple neural network and musculoskeletal models	P48
Morii, Yoko	Neuroinformatics infrastructure for Interoperability of repositories developed by J-Node	D14
Mouček, Roman	Developmental coordination disorder in children – experimental work and data annotation	D02
Nagarajan, Venkateswaran	Growth and development of the postsynaptic active region of an excitatory glutamergic synapse: An integrated model	P18
Nakai, Toshiharu	The dependency of parietal activation on visuospatial operation performance in the elderly – an event-related fMRI study	P63
Obeid, Iyad	A big-data approach to automated EEG labeling	P02
Okamura-Oho, Yuko	Novel genes located in the co-expression networks detected with Transcriptome Tomography	P42
Plantinga, Birgit	Ultra-high field tractography and functional mapping of the subthalamic nucleus	OP07
Pröpper, Robert	Spyke Viewer and the cloud: quick algorithm development and large scale data analysis for electrophysiology	D01
Pyka, Martin	Parametric Anatomical Modeling: A method for modeling the anatomical layout of neurons and their projections	D16
Radojevic, Miroslav	Critical points detection in neuron microscopy images	OP02
Ramaniharan, Anandh	Segmentation and shape analysis of corpus callosum (cc) in Alzheimer brain MR images using improved variational level set method and phase congruency map	P53
Roque, Antonio	Self-sustained activity in cortical network models	P04
Sarica, Alessia	K-Surfer: A KNIME-based tool for the management and analysis of human brain MRI FreeSurfer/FSL Data	D03
Schmitt, Oliver	Central and peripheral monosynaptic, polysynaptic and collaterals connectivity in the rat	OD01

## Reference index for abstracts

Corresponding author	Abstract title	Abstract number
Schnack, Hugo	Separation of patients with schizophrenia and bipolar disorder based on MRI scans: Can machine learning aid in clinical diagnosis?	P58
Schwartz, Yannick	Mapping cognitive ontologies to and from the brain	P66
Siegmund, Janet	Understanding Programmers' Brains with fMRI	P60
Smith, Leslie	The CARMEN data sharing portal project: what have we learned?	P44
Soria-Frisch, Aureli	Advanced Machine Learning for classification of EEG traits as Parkinson's biomarker	P01
Stavrinou, Maria	Computing local field potentials based on spiking cortical networks	P15
Stoewer, Adrian	File format and library for neuroscience data and metadata	P29
Takemiya, Makoto	The BrainLiner Platform for sharing and searching time-aligned neurophysiological data	D12
Teeters, Jeffrey	Towards a common format for storing electrophysiology data	P25
Ter Haar Romeny, Bart	A cortical-inspired multi-orientation geometry model for retinal image analysis	P57
ter Wal, Marije	Interneuron cell types differentially modulate gain in a multi-compartmental pyramidal cell model	P16
Tripathy, Shreejoy	The UrbanLegend Project: a system for cellular neurophysiology data management and exploration	D06
Tsukamoto, Mitsuki	The BrainLiner Platform for sharing and searching time-aligned neurophysiological data	D12
Wagatsuma, Hiroaki	A neurorobotic approach of emotion: implemented neurodynamics mediate a coupling between top-down abductive inference and bottom-up sensations	P08
Wagatsuma, Hiroaki	A working memory mechanism and strategy transition dynamics when solving SUDOKU puzzle	P09
Van Der Velde, Frank	Linking population dynamics and high-level cognition: Ambiguity resolution in a neural sentence processing model	P06
van Pelt, Jaap	Axonal and dendritic density field estimation from incomplete single-slice neuronal reconstructions	P10
Wang, Dongsheng	Linked Neuron Data (LND): A platform for integrating and semantically linking neuroscience data and knowledge	D13
Wang, Yun	Automatic recovery of Z-jumps for neuronal morphology reconstruction	D08
Yamaguchi, Yoko	Neuroinformatics infrastructure for interoperability of repositories developed by J-Node	D14
Zehl, Lyuba	Handling complex metadata in neurophysiological experiments	P35
Zeng, Yi	Automatic recovery of Z-jumps for neuronal morphology reconstruction	D08
Zeng, Yi	Linked Neuron Data (LND): a platform for integrating and semantically linking neuroscience data and knowledge	D13
Zhuge, Xiaodong	Sparse tomographic reconstruction of brain tissue from serial section electron microscopy	P65