Mary Beth Nebel

List of Publications by Year
in descending order

57 papers	**5,339** citations	236612 **25** h-index	155451 **55** g-index
63 all docs	**63** docs citations	**63** times ranked	**6936** citing authors

#	ARTICLE	IF	CITATIONS
1	The autism brain imaging data exchange: towards a large-scale evaluation of the intrinsic brain architecture in autism. Molecular Psychiatry, 2014, 19, 659-667.	4.1	1,882
2	Enhancing studies of the connectome in autism using the autism brain imaging data exchange II. Scientific Data, 2017, 4, 170010.	2.4	422
3	Reduction of motion-related artifacts in resting state fMRI using aCompCor. NeuroImage, 2014, 96, 22-35.	2.1	351
4	Evaluating dynamic bivariate correlations in resting-state fMRI: A comparison study and a new approach. NeuroImage, 2014, 101, 531-546.	2.1	309
5	Altered cerebellar connectivity in autism and cerebellar-mediated rescue of autism-related behaviors in mice. Nature Neuroscience, 2017, 20, 1744-1751.	7.1	275
6	Disruption of functional organization within the primary motor cortex in children with autism. Human Brain Mapping, 2014, 35, 567-580.	1.9	185
7	The impact of T1 versus EPI spatial normalization templates for fMRI data analyses. Human Brain Mapping, 2017, 38, 5331-5342.	1.9	179
8	Comparing test-retest reliability of dynamic functional connectivity methods. NeuroImage, 2017, 158, 155-175.	2.1	156
9	Intrinsic Visual-Motor Synchrony Correlates With Social Deficits in Autism. Biological Psychiatry, 2016, 79, 633-641.	0.7	132
10	Perceptual and Neural Response to Affective Tactile Texture Stimulation in Adults with Autism Spectrum Disorders. Autism Research, 2012, 5, 231-244.	2.1	116
11	Atypical lateralization of motor circuit functional connectivity in children with autism is associated with motor deficits. Molecular Autism, 2016, 7, 35.	2.6	115
12	Automated diagnoses of attention deficit hyperactive disorder using magnetic resonance imaging. Frontiers in Systems Neuroscience, 2012, 6, 61.	1.2	96
13	Quantifying the reliability of image replication studies: The image intraclass correlation coefficient (I2C2). Cognitive, Affective and Behavioral Neuroscience, 2013, 13, 714-724.	1.0	84
14	Models of psychedelic drug action: modulation of cortical-subcortical circuits. Brain, 2022, 145, 441-456.	3.7	82
15	Precentral gyrus functional connectivity signatures of autism. Frontiers in Systems Neuroscience, 2014, 8, 80.	1.2	76
16	Heterogeneity of executive functions among comorbid neurodevelopmental disorders. Scientific Reports, 2016, 6, 36566.	1.6	73
17	Connectivity supporting attention in children with attention deficit hyperactivity disorder. NeuroImage: Clinical, 2015, 7, 68-81.	1.4	66
18	The Relationship of Self-Reported Pain and Functional Impairment to Gait Mechanics in Overweight and Obese Persons With Knee Osteoarthritis. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1874-1879.	0.5	50

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19	ADHD-related sex differences in fronto-subcortical intrinsic functional connectivity and associations with delay discounting. Journal of Neurodevelopmental Disorders, 2018, 10, 34.	1.5	50
20	Which multiband factor should you choose for your resting-state fMRI study?. NeuroImage, 2021, 234, 117965.	2.1	43
21	Neuroimaging of Fibromyalgia. Rheumatic Disease Clinics of North America, 2009, 35, 313-327.	0.8	42
22	Direct and indirect effects of fetal irradiation on cortical gray and white matter volume in the macaque. Biological Psychiatry, 2005, 57, 83-90.	0.7	39
23	Temporomandibular Disorder Modifies Cortical Response to Tactile Stimulation. Journal of Pain, 2010, 11, 1083-1094.	0.7	35
24	Validation of semiautomated methods for quantifying cingulate cortical metrics in schizophrenia. Psychiatry Research - Neuroimaging, 2004, 132, 53-68.	0.9	33
25	Improving reliability of subject-level resting-state fMRI parcellation with shrinkage estimators. NeuroImage, 2015, 112, 14-29.	2.1	32
26	Improved estimation of subject-level functional connectivity using full and partial correlation with empirical Bayes shrinkage. NeuroImage, 2018, 172, 478-491.	2.1	31
27	Neural Correlates of Visuomotor Learning in Autism. Journal of Child Neurology, 2015, 30, 1877-1886.	0.7	29
28	Template Independent Component Analysis: Targeted and Reliable Estimation of Subject-level Brain Networks Using Big Data Population Priors. Journal of the American Statistical Association, 2020, 115, 1151-1177.	1.8	29
29	Ready, Set, Go! Low Anticipatory Response during a Dyadic Task in Infants at High Familial Risk for Autism. Frontiers in Psychology, 2016, 7, 721.	1.1	27
30	Investigating functional brain network integrity using a traditional and novel categorical scheme for neurodevelopmental disorders. NeuroImage: Clinical, 2019, 21, 101678.	1.4	27
31	Shrinkage prediction of seed-voxel brain connectivity using resting state fMRI. NeuroImage, 2014, 102, 938-944.	2.1	26
32	PCA leverage: outlier detection for high-dimensional functional magnetic resonance imaging data. Biostatistics, 2017, 18, 521-536.	0.9	22
33	Altered Inferior Parietal Functional Connectivity is Correlated with Praxis and Social Skill Performance in Children with Autism Spectrum Disorder. Cerebral Cortex, 2021, 31, 2639-2652.	1.6	20
34	Health Effects of Lesion Localization in Multiple Sclerosis: Spatial Registration and Confounding Adjustment. PLoS ONE, 2014, 9, e107263.	1.1	19
35	Response Inhibition Deficits and Altered Motor Network Connectivity in the Chronic Phase of Pediatric Traumatic Brain Injury. Journal of Neurotrauma, 2017, 34, 3117-3123.	1.7	18
36	A Data Driven Approach Reveals That Anomalous Motor System Connectivity is Associated With the Severity of Core Autism Symptoms. Autism Research, 2021, , .	2.1	18

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37	Neuropsychiatric disease classification using functional connectomics - results of the connectomics in neuroimaging transfer learning challenge. Medical Image Analysis, 2021, 70, 101972.	7.0	17
38	Increased integration between default mode and task-relevant networks in children with ADHD is associated with impaired response control. Developmental Cognitive Neuroscience, 2021, 50, 100980.	1.9	16
39	Parsing Heterogeneity in Autism Spectrum Disorder and Attention-Deficit/Hyperactivity Disorder with Individual Connectome Mapping. Brain Connectivity, 2019, 9, 673-691.	0.8	15
40	Accounting for motion in resting-state fMRI: What part of the spectrum are we characterizing in autism spectrum disorder?. NeuroImage, 2022, 257, 119296.	2.1	13
41	Novel automated morphometric and kinematic handwriting assessment: A validity study in children with ASD and ADHD. Journal of Occupational Therapy, Schools, and Early Intervention, 2017, 10, 185-201.	0.4	9
42	Psilocybin induces spatially constrained alterations in thalamic functional organizaton and connectivity. NeuroImage, 2022, 260, 119434.	2.1	9
43	Parallel group independent component analysis for massive fMRI data sets. PLoS ONE, 2017, 12, e0173496.	1.1	8
44	Integrating Neural Networks and Dictionary Learning for Multidimensional Clinical Characterizations from Functional Connectomics Data. Lecture Notes in Computer Science, 2019, , 709-717.	1.0	8
45	Increased interhemispheric somatomotor functional connectivity and mirror overflow in ADHD. NeuroImage: Clinical, 2021, 31, 102759.	1.4	7
46	A joint network optimization framework to predict clinical severity from resting state functional MRI data. NeuroImage, 2020, 206, 116314.	2.1	6
47	A Matrix Autoencoder Framework to Align the Functional and Structural Connectivity Manifolds as Guided by Behavioral Phenotypes. Lecture Notes in Computer Science, 2021, , 625-636.	1.0	5
48	Beyond Massive Univariate Tests: Covariance Regression Reveals Complex Patterns of Functional Connectivity Related to Attention-Deficit/Hyperactivity Disorder, Age, Sex, and Response Control. Biological Psychiatry Global Open Science, 2022, 2, 8-16.	1.0	5
49	Aberrant prefrontal cortical–striatal functional connectivity in children with primary complex motor stereotypies. Cortex, 2021, 142, 272-282.	1.1	5
50	A Generative-Discriminative Basis Learning Framework to Predict Clinical Severity from Resting State Functional MRI Data. Lecture Notes in Computer Science, 2018, , 163-171.	1.0	4
51	Bridging global and local topology in whole-brain networks using the network statistic jackknife. Network Neuroscience, 2020, 4, 70-88.	1.4	4
52	A Prospective Evaluation of Infant Cerebellar-Cerebral Functional Connectivity in Relation to Behavioral Development in Autism Spectrum Disorder. Biological Psychiatry Global Open Science, 2023, 3, 149-161.	1.0	3
53	Edited magnetic resonance spectroscopy in the neonatal brain. Neuroradiology, 2022, 64, 217-232.	1.1	2
54	A Deep-Generative Hybrid Model to Integrate Multimodal and Dynamic Connectivity for Predicting Spectrum-Level Deficits in Autism. Lecture Notes in Computer Science, 2020, , 437-447.	1.0	2

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55	A Coupled Manifold Optimization Framework to Jointly Model the Functional Connectomics and Behavioral Data Spaces. Lecture Notes in Computer Science, 2019, , 605-616.	1.0	1
56	A Unified Bayesian Approach to Extract Network-Based Functional Differences from a Heterogeneous Patient Cohort. Lecture Notes in Computer Science, 2017, , 60-69.	1.0	0
57	Group linear non-Gaussian component analysis with applications to neuroimaging. Computational Statistics and Data Analysis, 2022, 171, 107454.	0.7	0