

Topographic organization of the human subcortex unveils gradients

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Dispersion of functional gradients across the adult lifespan. <i>NeuroImage</i> , 2020, 222, 117299.	2.1	123
2	Network communication models improve the behavioral and functional predictive utility of the human structural connectome. <i>Network Neuroscience</i> , 2020, 4, 980-1006.	1.4	70
3	Structure-function coupling in the human connectome: A machine learning approach. <i>NeuroImage</i> , 2021, 226, 117609.	2.1	69
4	LSD alters dynamic integration and segregation in the human brain. <i>NeuroImage</i> , 2021, 227, 117653.	2.1	98
5	Combining network topology and information theory to construct representative brain networks. <i>Network Neuroscience</i> , 2021, 5, 96-124.	1.4	52
6	Boost in Test-Retest Reliability in Resting State fMRI with Predictive Modeling. <i>Cerebral Cortex</i> , 2021, 31, 2822-2833.	1.6	40
7	Controllability over stressor decreases responses in key threat-related brain areas. <i>Communications Biology</i> , 2021, 4, 42.	2.0	31
8	Brain responses during delay discounting in youth at high-risk for substance use disorders. <i>NeuroImage: Clinical</i> , 2021, 32, 102772.	1.4	4
9	A morphospace of functional configuration to assess configural breadth based on brain functional networks. <i>Network Neuroscience</i> , 2021, 5, 666-688.	1.4	5
10	Virtual Reality for Neurorehabilitation and Cognitive Enhancement. <i>Brain Sciences</i> , 2021, 11, 221.	1.1	53
11	Mapping the Human Brain: What Is the Next Frontier?. <i>Innovation(China)</i> , 2021, 2, 100073.	5.2	8
12	Brain network integration dynamics are associated with loss and recovery of consciousness induced by sevoflurane. <i>Human Brain Mapping</i> , 2021, 42, 2802-2822.	1.9	29
13	Automatic classification of idiopathic Parkinson's disease and atypical Parkinsonian syndromes combining [¹¹ C]raclopride PET uptake and MRI grey matter morphometry. <i>Journal of Neural Engineering</i> , 2021, 18, 046037.	1.8	15
15	Emotional imagination of negative situations: Functional neuroimaging in anorexia and bulimia. <i>PLoS ONE</i> , 2021, 16, e0231684.	1.1	2
16	High-resolution connectomic fingerprints: Mapping neural identity and behavior. <i>NeuroImage</i> , 2021, 229, 117695.	2.1	65
18	Sex-related human brain asymmetry in hemispheric functional gradients. <i>NeuroImage</i> , 2021, 229, 117761.	2.1	29
20	The functional connectome in posttraumatic stress disorder. <i>Neurobiology of Stress</i> , 2021, 14, 100321.	1.9	15
22	Cortical plasticity is correlated with cognitive improvement in Alzheimer's disease patients after rTMS treatment. <i>Brain Stimulation</i> , 2021, 14, 503-510.	0.7	62

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24	Synaptic density in carriers of C9orf72 mutations: a [¹¹ C]UCBâ€¦ PET study. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 1515-1523.	1.7	27
26	A feature-based network analysis and fMRI meta-analysis reveal three distinct types of prosocial decisions. <i>Social Cognitive and Affective Neuroscience</i> , 2021, 16, 1214-1233.	1.5	13
27	A generative network model of neurodevelopmental diversity in structural brain organization. <i>Nature Communications</i> , 2021, 12, 4216.	5.8	34
31	Shifting gradients of macroscale cortical organization mark the transition from childhood to adolescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	120
32	Functional parcellation of human and macaque striatum reveals human-specific connectivity in the dorsal caudate. <i>NeuroImage</i> , 2021, 235, 118006.	2.1	29
33	Functional harmonics reveal multi-dimensional basis functions underlying cortical organization. <i>Cell Reports</i> , 2021, 36, 109554.	2.9	24
35	Intracranial brain stimulation modulates fMRI-based network switching. <i>Neurobiology of Disease</i> , 2021, 156, 105401.	2.1	3
37	DPABISurf: data processing & analysis for brain imaging on surface. <i>Science Bulletin</i> , 2021, 66, 2453-2455.	4.3	35
38	Impact of exogenous estradiol on task-based and resting-state neural signature during and after fear extinction in healthy women. <i>Neuropsychopharmacology</i> , 2021, 46, 2278-2287.	2.8	11
39	Striatal Subdivisions Estimated via Deep Embedded Clustering With Application to Parkinson's Disease. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3564-3575.	3.9	6
40	Functional Connectivity in Antipsychotic-Treated and Antipsychotic-Naive Patients With First-Episode Psychosis and Low Risk of Self-harm or Aggression. <i>JAMA Psychiatry</i> , 2021, 78, 994.	6.0	40
43	Fear extinction learning modulates large-scale brain connectivity. <i>NeuroImage</i> , 2021, 238, 118261.	2.1	23
44	Decomposition of individual-specific and individual-shared components from resting-state functional connectivity using a multi-task machine learning method. <i>NeuroImage</i> , 2021, 238, 118252.	2.1	10
45	Parallel cognitive processing streams in human prefrontal cortex: Parsing areal-level brain network for response inhibition. <i>Cell Reports</i> , 2021, 36, 109732.	2.9	15
46	Structural and resting state functional connectivity beyond the cortex. <i>NeuroImage</i> , 2021, 240, 118379.	2.1	25
47	What have we really learned from functional connectivity in clinical populations?. <i>NeuroImage</i> , 2021, 242, 118466.	2.1	55
49	The functional neural architecture of dysfunctional reward processing in autism. <i>NeuroImage: Clinical</i> , 2021, 31, 102700.	1.4	21
52	Convergence of cortical types and functional motifs in the human mesiotemporal lobe. <i>ELife</i> , 2020, 9, .	2.8	46

#	ARTICLE	IF	CITATIONS
53	Atypically high influence of subcortical activity on primary sensory regions in autism. <i>NeuroImage: Clinical</i> , 2021, 32, 102839.	1.4	9
54	Striatal topographical organization: Bridging the gap between molecules, connectivity and behavior. <i>European Journal of Histochemistry</i> , 2021, 65, .	0.6	7
55	Machine learning prediction of cognition from functional connectivity: Are feature weights reliable?. <i>NeuroImage</i> , 2021, 245, 118648.	2.1	53
56	The many dimensions of human hippocampal organization and (dys)function. <i>Trends in Neurosciences</i> , 2021, 44, 977-989.	4.2	57
58	Imaging human engrams using 7 Tesla magnetic resonance imaging. <i>Hippocampus</i> , 2021, 31, 1257-1270.	0.9	7
60	Intrinsic functional connectivity in the default mode network predicts mnemonic discrimination: A connectome-based modeling approach. <i>Hippocampus</i> , 2022, 32, 21-37.	0.9	5
61	White matter association tracts underlying language and theory of mind: An investigation of 809 brains from the Human Connectome Project. <i>NeuroImage</i> , 2022, 246, 118739.	2.1	18
62	An extended Human Connectome Project multimodal parcellation atlas of the human cortex and subcortical areas. <i>Brain Structure and Function</i> , 2022, 227, 763-778.	1.2	51
63	Widespread attenuating changes in brain connectivity associated with the general factor of psychopathology in 9- and 10-year olds. <i>Translational Psychiatry</i> , 2021, 11, 575.	2.4	7
64	Inside information: Systematic within-node functional connectivity changes observed across tasks or groups. <i>NeuroImage</i> , 2022, 247, 118792.	2.1	4
65	How sleep disturbances affect internet gaming disorder: The mediating effect of hippocampal functional connectivity. <i>Journal of Affective Disorders</i> , 2022, 300, 84-90.	2.0	3
66	Big Data-Driven Brain Parcellation from fMRI: Impact of Cohort Heterogeneity on Functional Connectivity Maps. , 2021, 2021, 3133-3136.		1
67	BrainIAK: The Brain Imaging Analysis Kit. , 2022, 2021, .		18
69	The Role of the Human Hypothalamus in Food Intake Networks: An MRI Perspective. <i>Frontiers in Nutrition</i> , 2021, 8, 760914.	1.6	7
70	Navigating a Complex Landscape: Using Transcriptomics to Parcellate the Human Cortex. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2022, 7, 3-4.	1.1	1
72	Distributed and Multifaceted Effects of Threat and Safety. <i>Journal of Cognitive Neuroscience</i> , 2022, 34, 495-516.	1.1	11
73	Charting human subcortical maturation across the adult lifespan with in vivo 7T MRI. <i>NeuroImage</i> , 2022, 249, 118872.	2.1	13
74	Connectome spatial smoothing (CSS): Concepts, methods, and evaluation. <i>NeuroImage</i> , 2022, 250, 118930.	2.1	5

#	ARTICLE	IF	CITATIONS
75	Lower Socioeconomic Position Is Associated with Greater Activity in and Integration within an Allostatic-Interoceptive Brain Network in Response to Affective Stimuli. <i>Journal of Cognitive Neuroscience</i> , 2022, 34, 1906-1927.	1.1	6
76	Abnormal dynamic functional connectivity during fear extinction learning in PTSD and anxiety disorders. <i>Molecular Psychiatry</i> , 2022, 27, 2216-2224.	4.1	22
77	Mapping dopaminergic projections in the human brain with resting-state fMRI. <i>ELife</i> , 2022, 11, .	2.8	9
78	Gradients in brain organization. <i>NeuroImage</i> , 2022, 251, 118987.	2.1	42
79	Cortico-subcortical interactions in overlapping communities of edge functional connectivity. <i>NeuroImage</i> , 2022, 250, 118971.	2.1	14
83	Tau deposition patterns are associated with functional connectivity in primary tauopathies. <i>Nature Communications</i> , 2022, 13, 1362.	5.8	34
85	Past, Present, and Future of Deep Brain Stimulation: Hardware, Software, Imaging, Physiology and Novel Approaches. <i>Frontiers in Neurology</i> , 2022, 13, 825178.	1.1	28
89	The influence of the subcortex and brain stem on overeating: How advances in functional neuroimaging can be applied to expand neurobiological models to beyond the cortex. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2022, 23, 719-731.	2.6	5
90	Graph analysis of nonlinear fMRI connectivity dynamics reveals distinct brain network configurations for integrative and segregated information processing. <i>Nonlinear Dynamics</i> , 2022, 108, 4287-4299.	2.7	3
91	Multimodal gradient mapping of rodent hippocampus. <i>NeuroImage</i> , 2022, 253, 119082.	2.1	3
92	A Fineset Cortex Atlas of Human Brain Based On Boundary Mapping Technique: An 7T fMRI Study. , 2021, ,		0
95	The Optimal Target and Connectivity for <scp>Deep Brain Stimulation</scp> in <scp>Lennoxâ€Gastaut</scp> Syndrome. <i>Annals of Neurology</i> , 2022, 92, 61-74.	2.8	20
96	Functional Parcellation of Human Brain Using Localized Topo-Connectivity Mapping. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 2670-2680.	5.4	3
97	Dissociable multi-scale patterns of development in personalized brain networks. <i>Nature Communications</i> , 2022, 13, 2647.	5.8	27
98	Patterns of functional connectivity alterations induced by alcohol reflect somatostatin interneuron expression in the human cerebral cortex. <i>Scientific Reports</i> , 2022, 12, 7896.	1.6	8
99	Meditation-induced effects on whole-brain structural and effective connectivity. <i>Brain Structure and Function</i> , 2022, 227, 2087-2102.	1.2	3
100	Predictive Value of Acute Neuroplastic Response to rTMS in Treatment Outcome in Depression: A Concurrent TMS-fMRI Trial. <i>American Journal of Psychiatry</i> , 2022, 179, 500-508.	4.0	20
101	A synergistic core for human brain evolution and cognition. <i>Nature Neuroscience</i> , 2022, 25, 771-782.	7.1	80

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102	Graph Theoretical Analysis of Structural Covariance Reveals the Relevance of Visuospatial and Attentional Areas in Essential Tremor Recovery After Stereotactic Radiosurgical Thalamotomy. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, .	1.7	7
105	Temporally and anatomically specific contributions of the human amygdala to threat and safety learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	26
106	Longitudinal trimodal imaging of midbrain-associated network degeneration in Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2022, 8, .	2.5	7
107	Structural insight into the individual variability architecture of the functional brain connectome. <i>NeuroImage</i> , 2022, 259, 119387.	2.1	12
108	Differential grey matter structure in women with premenstrual dysphoric disorder: evidence from brain morphometry and data-driven classification. <i>Translational Psychiatry</i> , 2022, 12, .	2.4	9
109	A Robust Modular Automated Neuroimaging Pipeline for Model Inputs to TheVirtualBrain. <i>Frontiers in Neuroinformatics</i> , 0, 16, .	1.3	3
110	Are Brain Responses to Emotion a Reliable Endophenotype of Schizophrenia? An Image-Based Functional Magnetic Resonance Imaging Meta-analysis. <i>Biological Psychiatry</i> , 2023, 93, 167-177.	0.7	5
112	Detection of functional activity in brain white matter using fiber architecture informed synchrony mapping. <i>NeuroImage</i> , 2022, 258, 119399.	2.1	3
113	Dynamic and stationary brain connectivity during movie watching as revealed by functional MRI. <i>Brain Structure and Function</i> , 2022, 227, 2299-2312.	1.2	3
114	Brain Metabolic Connectivity Patterns in Patients with Prolonged Disorder of Consciousness after Hypoxic-Ischemic Injury: A Preliminary Study. <i>Brain Sciences</i> , 2022, 12, 892.	1.1	2
115	Psilocybin induces spatially constrained alterations in thalamic functional organization and connectivity. <i>NeuroImage</i> , 2022, 260, 119434.	2.1	9
117	Mapping microstructural gradients of the human striatum in normal aging and Parkinson's disease. <i>Science Advances</i> , 2022, 8, .	4.7	12
118	Cytoarchitecture, probability maps and segregation of the human insula. <i>NeuroImage</i> , 2022, 260, 119453.	2.1	9
122	One session of fMRI-Neurofeedback training on motor imagery modulates whole-brain effective connectivity and dynamical complexity. <i>Cerebral Cortex Communications</i> , 2022, 3, .	0.7	2
124	Parcellating the human brain using resting-state dynamic functional connectivity. <i>Cerebral Cortex</i> , 2023, 33, 3575-3590.	1.6	5
125	A Dynamical Systems Perspective on Thalamic Circuit Function. , 2022, , 401-415.		0
126	A dynamic gradient architecture generates brain activity states. <i>NeuroImage</i> , 2022, 261, 119526.	2.1	11
127	Mapping the subcortical connectome using in vivo diffusion MRI: Feasibility and reliability. <i>NeuroImage</i> , 2022, 262, 119553.	2.1	4

#	ARTICLE	IF	CITATIONS
128	Cross-cohort replicability and generalizability of connectivity-based psychometric prediction patterns. <i>NeuroImage</i> , 2022, 262, 119569.	2.1	4
129	Revisiting sex differences in the acquisition and extinction of threat conditioning in humans. <i>Learning and Memory</i> , 2022, 29, 274-282.	0.5	5
130	Changes in dynamic transitions between integrated and segregated states underlie visual hallucinations in Parkinson's disease. <i>Communications Biology</i> , 2022, 5, .	2.0	6
131	High-resolution atlasing and segmentation of the subcortex: Review and perspective on challenges and opportunities created by machine learning. <i>NeuroImage</i> , 2022, 263, 119616.	2.1	0
132	Micapipe: A pipeline for multimodal neuroimaging and connectome analysis. <i>NeuroImage</i> , 2022, 263, 119612.	2.1	25
133	Disconnection Syndromes. <i>Noropsikiyatri Arsivi</i> , 2022, , .	0.2	0
134	A Joint Constrained CCA Model for Network-Dependent Brain Subregion Parcellation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 5641-5652.	3.9	3
135	Brain network analysis between Parkinson's Disease and Health Control based on edge functional connectivity. , 2022, , .		1
136	Subcortical-cortical dynamical states of the human brain and their breakdown in stroke. <i>Nature Communications</i> , 2022, 13, .	5.8	24
139	Receptor-informed network control theory links LSD and psilocybin to a flattening of the brain's control energy landscape. <i>Nature Communications</i> , 2022, 13, .	5.8	43
141	A comparison of the functional connectome in mild traumatic brain injury and post-traumatic stress disorder. <i>Human Brain Mapping</i> , 2023, 44, 813-824.	1.9	4
142	Altered brain responses to noxious dentoalveolar stimuli in high-impact temporomandibular disorder pain patients. <i>PLoS ONE</i> , 2022, 17, e0266349.	1.1	0
144	Aberrant resting-state functional connectivity and topological properties of the subcortical network in functional dyspepsia patients. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	2
145	Aberrant intrinsic functional brain networks in patients with functional constipation. <i>Neuroradiology</i> , 0, , .	1.1	1
146	Complex network measures reveal optimal targets for deep brain stimulation and identify clusters of collective brain dynamics. <i>Frontiers in Physics</i> , 0, 10, .	1.0	4
149	Connectivity-Based Brain Parcellation for Parkinson's Disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 1539-1552.	2.5	5
151	Representations and decodability of diverse cognitive functions are preserved across the human cortex, cerebellum, and subcortex. <i>Communications Biology</i> , 2022, 5, .	2.0	4
153	A cross-cohort replicable and heritable latent dimension linking behaviour to multi-featured brain structure. <i>Communications Biology</i> , 2022, 5, .	2.0	1

#	ARTICLE	IF	CITATIONS
154	Topological disruption of γ -band functional networks in cognitively preserved Parkinson's disease. <i>CNS Neuroscience and Therapeutics</i> , 2023, 29, 566-576.	1.9	10
155	Disrupted subcortical functional connectome gradient in drug-naïve first-episode schizophrenia and the normalization effects after antipsychotic treatment. <i>Neuropsychopharmacology</i> , 2023, 48, 789-796.	2.8	4
156	Chronic Mild Traumatic Brain Injury: Aberrant Static and Dynamic Connectomic Features Identified Through Machine Learning Model Fusion. <i>Neuroinformatics</i> , 2023, 21, 427-442.	1.5	2
157	Dysfunction of the Lenticular Nucleus Is Associated with Dystonia in Wilson's Disease. <i>Brain Sciences</i> , 2023, 13, 7.	1.1	1
158	Revealing the neurobiology underlying interpersonal neural synchronization with multimodal data fusion. <i>Neuroscience and Biobehavioral Reviews</i> , 2023, 146, 105042.	2.9	7
160	Psychological and neurological predictors of acupuncture effect in patients with chronic pain: a randomized controlled neuroimaging trial. <i>Pain</i> , 2023, 164, 1578-1592.	2.0	2
161	Functional geometry of the cortex encodes dimensions of consciousness. <i>Nature Communications</i> , 2023, 14, .	5.8	23
163	Exploring the latent structure of behavior using the Human Connectome Project's data. <i>Scientific Reports</i> , 2023, 13, .	1.6	2
164	Human motor sequence learning drives transient changes in network topology and hippocampal connectivity early during memory consolidation. <i>Cerebral Cortex</i> , 2023, 33, 6120-6131.	1.6	2
167	Internal control of brain networks via sparse feedback. <i>AICHE Journal</i> , 2023, 69, .	1.8	1
168	Neural substrates of verbal memory impairment in schizophrenia: A multimodal connectomics study. <i>Human Brain Mapping</i> , 2023, 44, 2829-2840.	1.9	1
169	Dysconnection and cognition in schizophrenia: A spectral dynamic causal modeling study. <i>Human Brain Mapping</i> , 2023, 44, 2873-2896.	1.9	4
170	Altered brain activity in unipolar depression unveiled using connectomics. , 2023, 1, 174-185.		17
171	Cortical gradients during naturalistic processing are hierarchical and modality-specific. <i>NeuroImage</i> , 2023, 271, 120023.	2.1	8
172	Identifying patients with cognitive motor dissociation using resting-state temporal stability. <i>NeuroImage</i> , 2023, 272, 120050.	2.1	4
173	Trait absorption is not reliably associated with brain structure or resting-state functional connectivity. <i>NeuroImage Reports</i> , 2023, 3, 100171.	0.5	0
174	Comparison between gradients and parcellations for functional connectivity prediction of behavior. <i>NeuroImage</i> , 2023, 273, 120044.	2.1	6
175	Homotopic local-global parcellation of the human cerebral cortex from resting-state functional connectivity. <i>NeuroImage</i> , 2023, 273, 120010.	2.1	20

#	ARTICLE	IF	CITATIONS
176	Revising a Self-Regulation Phenotype for Depression Through Individual Differences in Macroscale Brain Organization. <i>Current Directions in Psychological Science</i> , 0, , 096372142211497.	2.8	0
179	Functional connectivity profiles of the default mode and visual networks reflect temporal accumulative effects of sustained naturalistic emotional experience. <i>NeuroImage</i> , 2023, 269, 119941.	2.1	6
180	Development of top-down cortical propagations in youth. <i>Neuron</i> , 2023, 111, 1316-1330.e5.	3.8	10
183	Functional re-organization of hippocampal-cortical gradients during naturalistic memory processes. <i>NeuroImage</i> , 2023, 271, 119996.	2.1	10
184	Functional hierarchy of the angular gyrus and its underlying genetic architecture. <i>Human Brain Mapping</i> , 2023, 44, 2815-2828.	1.9	6
188	Identifying Replicable Subgroups in Neurodevelopmental Conditions Using Resting-State Functional Magnetic Resonance Imaging Data. <i>JAMA Network Open</i> , 2023, 6, e232066.	2.8	8
189	Threat and Reward Imminence Processing in the Human Brain. <i>Journal of Neuroscience</i> , 2023, 43, 2973-2987.	1.7	6
190	Joint-embeddings reveal functional differences in default-mode network architecture between marmosets and humans. <i>NeuroImage</i> , 2023, 272, 120035.	2.1	6
191	Why the clock ticks differently in Parkinson's disease: Insights from motor imagery and resting-state functional magnetic resonance imaging. <i>Heliyon</i> , 2023, 9, e14741.	1.4	0
196	Intra and inter-individual variability in functional connectomes of patients with First Episode of Psychosis. <i>NeuroImage: Clinical</i> , 2023, 38, 103391.	1.4	1
197	Human habit neural circuitry may be perturbed in eating disorders. <i>Science Translational Medicine</i> , 2023, 15, .	5.8	4
198	Hippocampal metabolic subregions and networks: Behavioral, molecular, and pathological aging profiles. <i>Alzheimer's and Dementia</i> , 2023, 19, 4787-4804.	0.4	1
201	Correspondence of functional connectivity gradients across human isocortex, cerebellum, and hippocampus. <i>Communications Biology</i> , 2023, 6, .	2.0	12
202	Gradients of striatal function in antipsychotic-free first-episode psychosis and schizotypy. <i>Translational Psychiatry</i> , 2023, 13, .	2.4	2
214	Maladies neurodÃ©gÃ©nÃ©ratives. , 2023, , 253-271.		0
225	Brain networks atlases. , 2023, , 59-85.		0
248	How Can I Integrate iEEG Recordings with Patients's Brain Anatomy?. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2023, , 435-449.	0.1	0