Dynamic coupling of whole-brain neuronal and neurotr

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#	Article	IF	CITATIONS
1	Brain States and Transitions: Insights from Computational Neuroscience. Cell Reports, 2020, 32, 108128.	6.4	139
3	Psychological mechanisms and functions of 5-HT and SSRIs in potential therapeutic change: Lessons from the serotonergic modulation of action selection, learning, affect, and social cognition. Neuroscience and Biobehavioral Reviews, 2020, 119, 138-167.	6.1	23
4	Tapping into Multi-Faceted Human Behavior and Psychopathology Using fMRI Brain Dynamics. Trends in Neurosciences, 2020, 43, 667-680.	8.6	63
5	Whole-Brain Models to Explore Altered States of Consciousness from the Bottom Up. Brain Sciences, 2020, 10, 626.	2.3	40
6	Diffuse neural coupling mediates complex network dynamics through the formation of quasi-critical brain states. Nature Communications, 2020, 11, 6337.	12.8	32
7	Turbulent-like Dynamics in the Human Brain. Cell Reports, 2020, 33, 108471.	6.4	62
8	Psychedelicâ€essisted therapy for functional neurological disorders: A theoretical framework and review of prior reports. Pharmacology Research and Perspectives, 2020, 8, e00688.	2.4	8
9	Fluctuations of consciousness, mood, and science: The interhemispheric switch and sticky switch models two decades on. Journal of Comparative Neurology, 2020, 528, 3171-3197.	1.6	3
10	Closing the gap between mind and brain with the dynamic connectome. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9677-9678.	7.1	2
11	Intrinsic Connectivity Patterns of Task-Defined Brain Networks Allow Individual Prediction of Cognitive Symptom Dimension of Schizophrenia and Are Linked to Molecular Architecture. Biological Psychiatry, 2021, 89, 308-319.	1.3	42
12	Psychedelics in Psychiatry: Neuroplastic, Immunomodulatory, and Neurotransmitter Mechanisms. Pharmacological Reviews, 2021, 73, 202-277.	16.0	110
13	LSD alters dynamic integration and segregation in the human brain. Neurolmage, 2021, 227, 117653.	4.2	98
15	Graph neural fields: A framework for spatiotemporal dynamical models on the human connectome. PLoS Computational Biology, 2021, 17, e1008310.	3.2	14
16	Towards new concepts for a biological neuroscience of consciousness. Cognitive Neurodynamics, 2021, 15, 783-804.	4.0	9
17	Explanatory profiles of models of consciousness - towards a systematic classification. Neuroscience of Consciousness, 2021, 2021, niab021.	2.6	33
18	The natural axis of transmitter receptor distribution in the human cerebral cortex. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118 , .	7.1	66
19	Revisiting the global workspace orchestrating the hierarchical organization of the human brain. Nature Human Behaviour, 2021, 5, 497-511.	12.0	61
21	Noise-driven multistability vs deterministic chaos in phenomenological semi-empirical models of whole-brain activity. Chaos, 2021, 31, 023127.	2.5	16

#	Article	IF	Citations
23	Cholinergic neuromodulation of inhibitory interneurons facilitates functional integration in whole-brain models. PLoS Computational Biology, 2021, 17, e1008737.	3.2	11
24	Structural control energy of restingâ€state functional brain states reveals less costâ€effective brain dynamics in psychosis vulnerability. Human Brain Mapping, 2021, 42, 2181-2200.	3.6	18
27	Neural and subjective effects of inhaled N,N-dimethyltryptamine in natural settings. Journal of Psychopharmacology, 2021, 35, 406-420.	4.0	29
29	Dynamic behavior in a pair of Lorenz systems interacting via positive-negative coupling. Chaos, Solitons and Fractals, 2021, 145, 110808.	5.1	7
30	Bridging the gap between single receptor type activity and wholeâ€brain dynamics. FEBS Journal, 2022, 289, 2067-2084.	4.7	10
31	Perception-driven dynamics of mimicry based on attractor field model. Interface Focus, 2021, 11, 20200052.	3.0	3
36	Structural Features of the Human Connectome That Facilitate the Switching of Brain Dynamics via Noradrenergic Neuromodulation. Frontiers in Computational Neuroscience, 2021, 15, 687075.	2.1	11
37	Dynamical consequences of regional heterogeneity in the brain's transcriptional landscape. Science Advances, 2021, 7, .	10.3	69
38	Perturbations in dynamical models of whole-brain activity dissociate between the level and stability of consciousness. PLoS Computational Biology, 2021, 17, e1009139.	3.2	45
39	Mechanisms Underlying Disorders of Consciousness: Bridging Gaps to Move Toward an Integrated Translational Science. Neurocritical Care, 2021, 35, 37-54.	2.4	38
40	Transcriptomics-informed large-scale cortical model captures topography of pharmacological neuroimaging effects of LSD. ELife, 2021, 10, .	6.0	22
41	Computational exploration of dynamic mechanisms of steady state visual evoked potentials at the whole brain level. Neurolmage, 2021, 237, 118166.	4.2	15
43	A Transcriptome Community-and-Module Approach of the Human Mesoconnectome. Entropy, 2021, 23, 1031.	2.2	5
44	Rare long-range cortical connections enhance human information processing. Current Biology, 2021, 31, 4436-4448.e5.	3.9	46
46	Patient-Specific Network Connectivity Combined With a Next Generation Neural Mass Model to Test Clinical Hypothesis of Seizure Propagation. Frontiers in Systems Neuroscience, 2021, 15, 675272.	2.5	12
47	Whole-brain modeling to predict optimal deep brain stimulation targeting., 2022,, 543-559.		2
53	neurolib: A Simulation Framework for Whole-Brain Neural Mass Modeling. Cognitive Computation, 2023, 15, 1132-1152.	5.2	22
54	Kuramoto Model-Based Analysis Reveals Oxytocin Effects on Brain Network Dynamics. International Journal of Neural Systems, 2022, 32, 2250002.	5.2	8

#	Article	IF	Citations
58	Modular origins of high-amplitude cofluctuations in fine-scale functional connectivity dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	37
64	Exploring Covert States of Brain Dynamics via Fuzzy Inference Encoding. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2464-2473.	4.9	4
65	Spatiotemporal Patterns of Adaptation-Induced Slow Oscillations in a Whole-Brain Model of Slow-Wave Sleep. Frontiers in Computational Neuroscience, 2021, 15, 800101.	2.1	17
66	Psychedelics hold promise for primary care research. Family Practice, 2022, , .	1.9	O
67	It's about time: Linking dynamical systems with human neuroimaging to understand the brain. Network Neuroscience, 2022, 6, 960-979.	2.6	15
69	Arginine Vasopressin, Synaptic Plasticity, and Brain Networks. Current Neuropharmacology, 2022, 20, 2292-2302.	2.9	4
70	Integrative Functional, Molecular, and Transcriptomic Analyses of Altered Intrinsic Timescale Gradient in Depression. Frontiers in Neuroscience, 2022, 16, 826609.	2.8	6
71	ACTIVER SES RESSOURCES POUR BÃ,TIR SON AVENIR PROFESSIONNEL : Apport des neurosciences de l'éducation pour soutenir un projet de formation au-delà des troubles d'apprentissage. , 2022, 1, 132-160.		0
72	The effect of external stimulation on functional networks in the aging healthy human brain. Cerebral Cortex, 2022, 33, 235-245.	2.9	8
73	Fixing Functional GI Disorders Using Microbes: Easier Said Than Done. Frontiers in Endocrinology, 2022, 13, 804179.	3.5	0
74	Effects of virtual lesions on temporal dynamics in cortical networks based on personalized dynamic models. Neurolmage, 2022, 254, 119087.	4.2	2
75	Whole-brain modelling identifies distinct but convergent paths to unconsciousness in anaesthesia and disorders of consciousness. Communications Biology, 2022, 5, 384.	4.4	23
77	Whole-Brain Modelling: Past, Present, and Future. Advances in Experimental Medicine and Biology, 2022, 1359, 313-355.	1.6	2
78	Meditation-induced effects on whole-brain structural and effective connectivity. Brain Structure and Function, 2022, 227, 2087-2102.	2.3	3
79	Reliability and subject specificity of personalized whole-brain dynamical models. NeuroImage, 2022, 257, 119321.	4.2	12
80	Psychedelic resting-state neuroimaging: A review and perspective on balancing replication and novel analyses. Neuroscience and Biobehavioral Reviews, 2022, 138, 104689.	6.1	45
82	Understanding brain states across spacetime informed by whole-brain modelling. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	3.4	19
83	Whole-Brain Network Models: From Physics to Bedside. Frontiers in Computational Neuroscience, 0, 16, .	2.1	18

#	Article	IF	CITATIONS
84	Application of positron emission tomography in psychiatry—methodological developments and future directions. Translational Psychiatry, 2022, 12, .	4.8	8
86	The INSIDEOUT framework provides precise signatures of the balance of intrinsic and extrinsic dynamics in brain states. Communications Biology, 2022, 5, .	4.4	23
87	Driving brain state transitions in major depressive disorder through external stimulation. Human Brain Mapping, 2022, 43, 5326-5339.	3.6	7
91	Changes in dynamic transitions between integrated and segregated states underlie visual hallucinations in Parkinson's disease. Communications Biology, 2022, 5, .	4.4	6
92	From brain-body function to conscious interactions. Neuroscience and Biobehavioral Reviews, 2022, 141, 104833.	6.1	2
93	Synaptosomal Preparation and Its Application in Preclinical Studies. Neuromethods, 2022, , 19-42.	0.3	1
94	Serotonin modulation in the male Aedes aegypti ear influences hearing. Frontiers in Physiology, 0, 13, .	2.8	5
98	Receptor-informed network control theory links LSD and psilocybin to a flattening of the brain's control energy landscape. Nature Communications, 2022, 13, .	12.8	43
99	Association of Visual Health With Depressive Symptoms and Brain Imaging Phenotypes Among Middle-Aged and Older Adults. JAMA Network Open, 2022, 5, e2235017.	5.9	2
100	Inferring the dynamical effects of stroke lesions through whole-brain modeling. NeuroImage: Clinical, 2022, 36, 103233.	2.7	6
102	Mapping neurotransmitter systems to the structural and functional organization of the human neocortex. Nature Neuroscience, 2022, 25, 1569-1581.	14.8	130
103	The neural basis of psychedelic action. Nature Neuroscience, 2022, 25, 1407-1419.	14.8	85
104	Data-driven discovery of canonical large-scale brain dynamics. Cerebral Cortex Communications, 2022, 3, .	1.6	4
105	Strength-dependent perturbation of whole-brain model working in different regimes reveals the role of fluctuations in brain dynamics. PLoS Computational Biology, 2022, 18, e1010662.	3.2	12
106	The promise of a model-based psychiatry: building computational models of mental ill health. The Lancet Digital Health, 2022, 4, e816-e828.	12.3	17
107	Scale matters: The nested human connectome. Science, 2022, 378, 500-504.	12.6	32
108	Psilocybin modulation of time-varying functional connectivity is associated with plasma psilocin and subjective effects. Neurolmage, 2022, 264, 119716.	4.2	12
109	First few seconds for flow: A comprehensive proposal of the neurobiology and neurodynamics of state onset. Neuroscience and Biobehavioral Reviews, 2022, 143, 104956.	6.1	6

#	Article	IF	CITATIONS
110	Integrative brain structural and molecular analyses of interaction between tobacco use disorder and overweight among male adults. Journal of Neuroscience Research, 2023, 101, 232-244.	2.9	0
111	More than meets the eye: The role of sensory dimensions in psychedelic brain dynamics, experience, and therapeutics. Neuropharmacology, 2023, 223, 109300.	4.1	15
112	Brain-State Transitions, Responsibility, and Personal Identity. Cambridge Quarterly of Healthcare Ethics, 2022, 31, 453-463.	0.8	0
114	Brain connectomics: time for a molecular imaging perspective?. Trends in Cognitive Sciences, 2023, 27, 353-366.	7.8	20
116	Lead-DBS v3.0: Mapping deep brain stimulation effects to local anatomy and global networks. NeuroImage, 2023, 268, 119862.	4.2	21
117	The interaction between first-episode drug-na \tilde{A} -ve schizophrenia and age based on gray matter volume and its molecular analysis: a multimodal magnetic resonance imaging study. Psychopharmacology, 2023, 240, 813-826.	3.1	1
118	Molecular brain differences and cannabis involvement: A systematic review of positron emission tomography studies. Journal of Psychiatric Research, 2023, 162, 44-56.	3.1	0
119	Task-based differences in brain state dynamics and their relation to cognitive ability. NeuroImage, 2023, 271, 119945.	4.2	2
120	Analysis two types of K complexes on the human EEG based on classical continuous wavelet transform. Chaos, 2023, 33, .	2.5	1
122	Human brain effects of DMT assessed via EEG-fMRI. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.1	47
123	A whole-brain model of the neural entropy increase elicited by psychedelic drugs. Scientific Reports, 2023, 13, .	3.3	12
124	From neurotransmitters to networks: Transcending organisational hierarchies with molecular-informed functional imaging. Neuroscience and Biobehavioral Reviews, 2023, 150, 105193.	6.1	10
126	Structure and function in artificial, zebrafish and human neural networks. Physics of Life Reviews, 2023, 45, 74-111.	2.8	10
127	One ring to rule them all: The unifying role of prefrontal cortex in steering task-related brain dynamics. Progress in Neurobiology, 2023, 227, 102468.	5.7	2
128	In vivo mapping of pharmacologically induced functional reorganization onto the human brainâ \in ^{MS} neurotransmitter landscape. Science Advances, 2023, 9, .	10.3	7
129	Research Contexts., 2023,, 29-64.		0
130	Low-dimensional organization of global brain states of reduced consciousness. Cell Reports, 2023, 42, 112491.	6.4	7
131	Computational modelling in disorders of consciousness: Closing the gap towards personalised models for restoring consciousness. Neurolmage, 2023, 275, 120162.	4.2	2

#	Article	IF	CITATIONS
133	Functional connectome predicting individual gait function and its relationship with molecular architecture in Parkinson's disease. Neurobiology of Disease, 2023, 184, 106216.	4.4	2
137	Afterword: The road ahead for connectomics. , 2023, , 433-437.		0
138	Dynamic functional connectivity., 2023,, 219-245.		1
139	Adaptation Shapes Local Cortical Reactivity: From Bifurcation Diagram and Simulations to Human Physiological and Pathological Responses. ENeuro, 2023, 10, ENEURO.0435-22.2023.	1.9	3
140	Modeling the role of the thalamus in resting-state functional connectivity: Nature or structure. PLoS Computational Biology, 2023, 19, e1011007.	3.2	0
142	Alzheimer's Disease: Insights from Large-Scale Brain Dynamics Models. Brain Sciences, 2023, 13, 1133.	2.3	0
143	Cortical structural differences following repeated ayahuasca use hold molecular signatures. Frontiers in Neuroscience, 0, 17, .	2.8	0
144	Musical synchrony, dynamical systems and information processing: Merger or redundancy?. Trends in Cognitive Sciences, 2023, , .	7.8	0
145	Controlling brain dynamics: Landscape and transition path for working memory. PLoS Computational Biology, 2023, 19, e1011446.	3.2	4
146	Associating Multimodal Neuroimaging Abnormalities With the Transcriptome and Neurotransmitter Signatures in Schizophrenia. Schizophrenia Bulletin, 2023, 49, 1554-1567.	4.3	3
147	The Digital Twin Brain: A Bridge between Biological and Artificial Intelligence. , 2023, 2, .		2
149	A role for the serotonin 2A receptor in the expansion and functioning of human transmodal cortex. Brain, 0, , .	7.6	1
151	The virtual aging brain: Causal inference supports interhemispheric dedifferentiation in healthy aging. NeuroImage, 2023, 283, 120403.	4.2	4
152	Psychedelia: The interplay of music and psychedelics. Annals of the New York Academy of Sciences, 2024, 1531, 12-28.	3.8	0
153	Effect of cognitive training on brain dynamics. Chinese Physics B, 2024, 33, 028704.	1.4	0
154	Brain states., 2023,,.		0
155	Towards Understanding Persons and Their Personalities with Cybernetic Big 5 Theory and the Free Energy Principle and Active Inference (FEP-AI) Framework. Communications in Computer and Information Science, 2024, , 73-90.	0.5	0
157	Violations of the fluctuation-dissipation theorem reveal distinct nonequilibrium dynamics of brain states. Physical Review E, 2023, 108, .	2.1	2

#	Article	IF	CITATIONS
159	Global-brain functional connectivity related with trait anxiety and its association with neurotransmitters and gene expression profiles. Journal of Affective Disorders, 2023, , .	4.1	0
161	A synergetic turn in cognitive neuroscience of brain diseases. Trends in Cognitive Sciences, 2024, 28, 319-338.	7.8	1
162	Inference of network connectivity from temporally binned spike trains. Journal of Neuroscience Methods, 2024, 404, 110073.	2.5	0
163	Time-varying phase synchronization of resting-state functional magnetic resonance imaging reveals a shift toward self-referential processes during sustained pain. Pain, 0, , .	4.2	0
165	Neural Geometrodynamics, Complexity, and Plasticity: A Psychedelics Perspective. Entropy, 2024, 26, 90.	2.2	0
168	How brain structure–function decoupling supports individual cognition and its molecular mechanism. Human Brain Mapping, 2024, 45, .	3.6	0
169	Manifold alteration between major depressive disorder and healthy control subjects using dynamic mode decomposition in resting-state fMRI data. Frontiers in Psychiatry, 0, 15, .	2.6	0
170	The resting-state brain activity signatures for addictive disorders. Med, 2024, 5, 201-223.e6.	4.4	O
171	Brain dynamics predictive of response to psilocybin for treatment-resistant depression. Brain Communications, 2024, 6, .	3.3	0
172	Insomnia disorder characterized by probabilistic metastable substates using blood-oxygenation-level-dependent (BOLD) phase signals. Sleep and Breathing, 0, , .	1.7	0
173	Vertebral Subluxation and Systems Biology: An Integrative Review Exploring the Salutogenic Influence of Chiropractic Care on the Neuroendocrine-Immune System. Cureus, 2024, , .	0.5	0