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Effects of noisy drive on rhythms in networks of excitatory and inhibitory neurons

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167	Population dynamics of spiking neurons: fast transients, asynchronous states, and locking. <i>Neural Computation</i> , 2000 , 12, 43-89	2.9	299
166	Background gamma rhythmicity and attention in cortical local circuits: a computational study. 2005 , 102, 7002-7		235
165	The HVC microcircuit: the synaptic basis for interactions between song motor and vocal plasticity pathways. <i>Journal of Neuroscience</i> , 2005 , 25, 1952-64	6.6	128
164	The geometry of neuronal recruitment. 2006 , 221, 37-57		7
163	Attentional modulation of firing rate and synchrony in a model cortical network. 2006 , 20, 247-64		89
162	Instability of synchronized motion in nonlocally coupled neural oscillators. <i>Physical Review E</i> , 2006 , 73, 031907	2.4	103
161	Mechanism of psychoactive drug action in the brain: simulation modeling of GABAA receptor interactions at non-equilibrium conditions. 2007 , 13, 1437-55		4
160	The gamma cycle. 2007 , 30, 309-16		810
159	Scaling effects in a model of the olfactory bulb. 2007 , 70, 1802-1807		3
158	Muscarinic acetylcholine receptors in macaque V1 are most frequently expressed by parvalbumin-immunoreactive neurons. 2008 , 507, 1748-62		84
157	Periodically-forced finite networks of heterogeneous globally-coupled oscillators: A low-dimensional approach. 2008 , 237, 207-215		13
156	Gamma oscillations and stimulus selection. <i>Neural Computation</i> , 2008 , 20, 383-414	2.9	108
155	NMDA receptor-dependent switching between different gamma rhythm-generating microcircuits in entorhinal cortex. 2008 , 105, 18572-7		92
154	Stochastic model and synchronization analysis for large-scale oscillator networks and their applications. 2008 , 222, 711-720		
153	Gamma oscillations mediate stimulus competition and attentional selection in a cortical network model. 2008 , 105, 18023-8		123
152	Role of interneuron diversity in the cortical microcircuit for attention. 2008 , 99, 2158-82		55
151	Spontaneous firing statistics and information transfer in electroreceptors of paddlefish. <i>Physical Review E</i> , 2008 , 78, 051922	2.4	8

150	The functional consequences of cortical circuit abnormalities on gamma oscillations in schizophrenia: insights from computational modeling. 2009 , 3, 33		69
149	The Dynamics of a Periodically Forced Cortical Microcircuit, With an Application to Schizophrenia. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009 , 8, 710-733	2.8	7
148	Model this! Seven empirical phenomena missing in the models of cortical oscillatory dynamics. 2009 ,		4
147	Spatial profile and differential recruitment of GABAB modulate oscillatory activity in auditory cortex. <i>Journal of Neuroscience</i> , 2009 , 29, 10321-34	6.6	95
146	From Attention to Goal-Directed Behavior. 2009 ,		3
145	Cortical gamma rhythms modulate NMDAR-mediated spike timing dependent plasticity in a biophysical model. <i>PLoS Computational Biology</i> , 2009 , 5, e1000602	5	31
144	Driving fast-spiking cells induces gamma rhythm and controls sensory responses. 2009 , 459, 663-7		1786
143	Spatial attention in area V4 is mediated by circuits in primary visual cortex. 2009 , 22, 1039-54		9
142	Frequency transitions in odor-evoked neural oscillations. <i>Neuron</i> , 2009 , 64, 692-706	13.9	60
141	Shifting the spotlight of attention: evidence for discrete computations in cognition. 2010 , 4, 194		47
140	Noise-induced synchronization in bidirectionally coupled type-I neurons. 2010 , 74, 177-193		3
139	Gamma oscillations as a mechanism for selective information transmission. 2010 , 103, 151-65		26
138	Complete synchronization in coupled type-I neurons. 2010 , 74, 189-205		1
137	The response of a classical Hodgkin-Huxley neuron to an inhibitory input pulse. 2010 , 28, 509-26		18
136	What do we gain from gamma? Local dynamic gain modulation drives enhanced efficacy and efficiency of signal transmission. 2010 , 4, 185		31
135	Computational modeling of distinct neocortical oscillations driven by cell-type selective optogenetic drive: separable resonant circuits controlled by low-threshold spiking and fast-spiking interneurons. 2010 , 4, 198		60
134	Synchronization of the small-world neuronal network with unreliable synapses. 2010 , 7, 036010		22
133	Cascade-induced synchrony in stochastically driven neuronal networks. <i>Physical Review E</i> , 2010 , 82, 041903		26

132	Attention reduces stimulus-driven gamma frequency oscillations and spike field coherence in V1. <i>Neuron</i> , 2010 , 66, 114-25	13.9	215
131	Spatially Localized Synchronous Oscillations in Synaptically Coupled Neuronal Networks: Conductance-based Models and Discrete Maps. <i>SIAM Journal on Applied Dynamical Systems</i> , 2010 , 9, 1019-1060 ²	13.8	1060 ²
130	Neuronal dynamics underlying high- and low-frequency EEG oscillations contribute independently to the human BOLD signal. <i>Neuron</i> , 2011 , 69, 572-83	13.9	335
129	Using the structure of inhibitory networks to unravel mechanisms of spatiotemporal patterning. <i>Neuron</i> , 2011 , 69, 373-86	13.9	33
128	Altered low-frequency sampling in auditory cortex accounts for the three main facets of dyslexia. <i>Neuron</i> , 2011 , 72, 1080-90	13.9	169
127	Quinpirole-induced sensitization to noisy/sparse periodic input: temporal synchronization as a component of obsessive-compulsive disorder. 2011 , 179, 143-50		37
126	Network recruitment to coherent oscillations in a hippocampal computer model. 2011 , 105, 1464-81		16
125	Oscillations in the prefrontal cortex: a gateway to memory and attention. 2011 , 21, 475-85		220
124	Synaptic information transfer in computer models of neocortical columns. 2011 , 30, 69-84		57
123	Statistical-mechanical measure of stochastic spiking coherence in a population of inhibitory subthreshold neurons. 2011 , 31, 667-77		20
122	Local control of non-local information flow in oscillatory neuronal networks. 2011 , 12,		78
121	Tailoring inputs to achieve maximal neuronal firing. 2011 , 1, 3		6
120	Sparse gamma rhythms arising through clustering in adapting neuronal networks. <i>PLoS Computational Biology</i> , 2011 , 7, e1002281	5	42
119	Minimal size of cell assemblies coordinated by gamma oscillations. <i>PLoS Computational Biology</i> , 2012 , 8, e1002362	5	33
118	Inhibitory coherence in a heterogeneous population of subthreshold and suprathreshold type-I neurons. 2012 , 45, 155102		2
117	Excitation, inhibition, local oscillations, or large-scale loops: what causes the symptoms of schizophrenia?. 2012 , 22, 537-44		179
116	Cellular-based modeling of oscillatory dynamics in brain networks. 2012 , 22, 660-9		22
115	How well do oscillator models capture the behaviour of biological neurons?. 2012 ,		7

114	Optogenetic dissection of cortical information processing-shining light on schizophrenia. 2012 , 1476, 31-7		9
113	External drive to inhibitory cells induces alternating episodes of high- and low-amplitude oscillations. <i>PLoS Computational Biology</i> , 2012 , 8, e1002666	5	9
112	Establishing Communication between Neuronal Populations through Competitive Entrainment. <i>Frontiers in Computational Neuroscience</i> , 2011 , 5, 62	3.5	13
111	Synaptic inhibition controls transient oscillatory synchronization in a model of the insect olfactory system. 2012 , 5, 7		10
110	Motifs in health and disease: the promise of circuit interrogation by optogenetics. <i>European Journal of Neuroscience</i> , 2012 , 36, 2260-72	3.5	12
109	Coupling-induced population synchronization in an excitatory population of subthreshold Izhikevich neurons. <i>Cognitive Neurodynamics</i> , 2013 , 7, 495-503	4.2	19
108	Analytical insights on theta-gamma coupled neural oscillators. 2013 , 3, 16		8
107	Attentional modulation of cell-class-specific gamma-band synchronization in awake monkey area v4. <i>Neuron</i> , 2013 , 80, 1077-89	13.9	129
106	STDP produces robust oscillatory architectures that exhibit precise collective synchronization. 2013 ,		1
105	Top-down beta rhythms support selective attention via interlaminar interaction: a model. <i>PLoS Computational Biology</i> , 2013 , 9, e1003164	5	104
104	Neural network modeling of EEG patterns in encephalopathy. 2013 , 30, 545-52		10
103	Metastability and inter-band frequency modulation in networks of oscillating spiking neuron populations. <i>PLoS ONE</i> , 2013 , 8, e62234	3.7	19
102	Toggling between gamma-frequency activity and suppression of cell assemblies. <i>Frontiers in Computational Neuroscience</i> , 2013 , 7, 33	3.5	21
101	Interplay of intrinsic and synaptic conductances in the generation of high-frequency oscillations in interneuronal networks with irregular spiking. <i>PLoS Computational Biology</i> , 2014 , 10, e1003574	5	14
100	Neurosystems: brain rhythms and cognitive processing. <i>European Journal of Neuroscience</i> , 2014 , 39, 705-19	3.9	136
99	Beyond the connectome: the dynamome. <i>Neuron</i> , 2014 , 83, 1319-28	13.9	214
98	The binding problem. 2014 , 5, 305-15		13
97	Adaptation and shunting inhibition leads to pyramidal/interneuron gamma with sparse firing of pyramidal cells. 2014 , 37, 357-76		16

96	Realistic thermodynamic and statistical-mechanical measures for neural synchronization. 2014 , 226, 161-170	20
95	Perturbation of Brain Oscillations after Ischemic Stroke: A Potential Biomarker for Post-Stroke Function and Therapy. 2015 , 16, 25605-40	45
94	H-Channels Affect Frequency, Power and Amplitude Fluctuations of Neuronal Network Oscillations. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 141	3.5 6
93	Speech encoding by coupled cortical theta and gamma oscillations. 2015 , 4, e06213	98
92	Neural Cross-Frequency Coupling: Connecting Architectures, Mechanisms, and Functions. 2015 , 38, 725-740	225
91	Noise-induced burst and spike synchronizations in an inhibitory small-world network of subthreshold bursting neurons. <i>Cognitive Neurodynamics</i> , 2015 , 9, 179-200	4.2 12
90	Thermodynamic order parameters and statistical-mechanical measures for characterization of the burst and spike synchronizations of bursting neurons. 2015 , 438, 544-559	11
89	Attentional Bias Through Oscillatory Coherence Between Excitatory Activity and Inhibitory Minima. <i>Neural Computation</i> , 2015 , 27, 1405-37	2.9 1
88	Parametric variation of gamma frequency and power with luminance contrast: A comparative study of human MEG and monkey LFP and spike responses. <i>NeuroImage</i> , 2015 , 112, 327-340	7.9 41
87	Frequency-domain order parameters for the burst and spike synchronization transitions of bursting neurons. <i>Cognitive Neurodynamics</i> , 2015 , 9, 411-21	4.2 4
86	The brain's code and its canonical computational motifs. From sensory cortex to the default mode network: A multi-scale model of brain function in health and disease. <i>Neuroscience and Biobehavioral Reviews</i> , 2015 , 55, 211-22	9 35
85	From Behavior to Neural Dynamics: An Integrated Theory of Attention. <i>Neuron</i> , 2015 , 88, 127-44	13.9 152
84	The Leaky Oscillator: Properties of Inhibition-Based Rhythms Revealed through the Singular Phase Response Curve. <i>SIAM Journal on Applied Dynamical Systems</i> , 2015 , 14, 1930-1977	2.8 10
83	Potential Mechanisms Underlying Intercortical Signal Regulation via Cholinergic Neuromodulators. <i>Journal of Neuroscience</i> , 2015 , 35, 15000-14	6.6 13
82	Emergent spike patterns in neuronal populations. 2015 , 38, 203-20	18
81	Virtual Electrode Recording Tool for EXtracellular potentials (VERTEX): comparing multi-electrode recordings from simulated and biological mammalian cortical tissue. 2015 , 220, 2333-53	28
80	Bumps in Small-World Networks. <i>Frontiers in Computational Neuroscience</i> , 2016 , 10, 53	3.5 9
79	On the Phase Relationship between Excitatory and Inhibitory Neurons in Oscillation. <i>Frontiers in Computational Neuroscience</i> , 2016 , 10, 138	3.5 2

78	Cell-Type and State-Dependent Synchronization among Rodent Somatosensory, Visual, Perirhinal Cortex, and Hippocampus CA1. 2015 , 9, 187		26
77	Cooperation and competition of gamma oscillation mechanisms. 2016 , 116, 232-51		19
76	Coherent and intermittent ensemble oscillations emerge from networks of irregular spiking neurons. 2016 , 115, 457-69		8
75	Cortical Spike Synchrony as a Measure of Input Familiarity. <i>Neural Computation</i> , 2017 , 29, 2491-2510	2.9	7
74	Strength and Diversity of Inhibitory Signaling Differentiates Primate Anterior Cingulate from Lateral Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2017 , 37, 4717-4734	6.6	28
73	Phase Oscillator Network Models of Brain Dynamics. 2017 , 505-517		13
72	Selective Interareal Synchronization through Gamma Frequency Differences and Slower-Rhythm Gamma Phase Reset. <i>Neural Computation</i> , 2017 , 29, 643-678	2.9	1
71	Network Formation Through Activity-Dependent Neurite Outgrowth: A Review of a Simple Model of Homeostatic Structural Plasticity. 2017 , 95-121		3
70	Dichotomous Dynamics in E-I Networks with Strongly and Weakly Intra-connected Inhibitory Neurons. 2017 , 11, 104		8
69	Cannabinoid-glutamate interactions and neural oscillations: implications for psychosis. <i>European Journal of Neuroscience</i> , 2018 , 48, 2890-2902	3.5	8
68	On Rhythms in Neuronal Networks with Recurrent Excitation. <i>Neural Computation</i> , 2018 , 30, 333-377	2.9	1
67	Modeling of Synchronous Behaviors of Excitatory and Inhibitory Neurons in Complex Neuronal Networks. 2018 ,		1
66	Neural gain control measured through cortical gamma oscillations is associated with sensory sensitivity. <i>Human Brain Mapping</i> , 2019 , 40, 1583-1593	5.9	9
65	A New Frame for an Old (Phase) Portrait: Finding Rivers and Other Flow Features in the Plane. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018 , 17, 2414-2445	2.8	9
64	Delay-induced stochastic bursting in excitable noisy systems. <i>Physical Review E</i> , 2018 , 98,	2.4	4
63	Input-dependent modulation of MEG gamma oscillations reflects gain control in the visual cortex. <i>Scientific Reports</i> , 2018 , 8, 8451	4.9	11
62	Chaos in small networks of theta neurons. <i>Chaos</i> , 2018 , 28, 073101	3.3	1
61	DynaSim: A MATLAB Toolbox for Neural Modeling and Simulation. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 10	3.9	21

60	Analyzing the competition of gamma rhythms with delayed pulse-coupled oscillators in phase representation. <i>Physical Review E</i> , 2018 , 98, 022217	2.4	5
59	Flexible resonance in prefrontal networks with strong feedback inhibition. <i>PLoS Computational Biology</i> , 2018 , 14, e1006357	5	15
58	Stochastic neural field model: multiple firing events and correlations. <i>Journal of Mathematical Biology</i> , 2019 , 79, 1169-1204	2	2
57	Conflicting emergences. Weak vs. strong emergence for the modelling of brain function. <i>Neuroscience and Biobehavioral Reviews</i> , 2019 , 99, 3-10	9	11
56	Stochastic sensitivity analysis of noise-induced oscillations in Adler model. 2019 ,		
55	Circuit Models of Low-Dimensional Shared Variability in Cortical Networks. <i>Neuron</i> , 2019 , 101, 337-348.e4	3.9	70
54	Modules for Automated Validation and Comparison of Models of Neurophysiological and Neurocognitive Biomarkers of Psychiatric Disorders: ASSRUnitA Case Study. <i>Computational Psychiatry</i> , 2020 , 2, 74	3.8	5
53	Effects of Neuromodulation on Excitatory/Inhibitory Neural Network Dynamics Depend on Network Connectivity Structure. <i>Journal of Nonlinear Science</i> , 2020 , 30, 2171-2194	2.8	7
52	A Distinct Class of Bursting Neurons with Strong Gamma Synchronization and Stimulus Selectivity in Monkey V1. <i>Neuron</i> , 2020 , 105, 180-197.e5	13.9	22
51	Neurostimulation stabilizes spiking neural networks by disrupting seizure-like oscillatory transitions. <i>Scientific Reports</i> , 2020 , 10, 15408	4.9	5
50	Neuronal Oscillations of Wakefulness and Sleep. 2020 ,		
49	Prefrontal oscillations modulate the propagation of neuronal activity required for working memory. <i>Neurobiology of Learning and Memory</i> , 2020 , 173, 107228	3.1	6
48	Spatial suppression in visual motion perception is driven by inhibition: Evidence from MEG gamma oscillations. <i>NeuroImage</i> , 2020 , 213, 116753	7.9	7
47	Additive effect of contrast and velocity suggests the role of strong excitatory drive in suppression of visual gamma response. <i>PLoS ONE</i> , 2020 , 15, e0228937	3.7	2
46	Phasic cholinergic signaling promotes emergence of local gamma rhythms in excitatory-inhibitory networks. <i>European Journal of Neuroscience</i> , 2020 , 52, 3545-3560	3.5	6
45	Network mechanism for insect olfaction. <i>Cognitive Neurodynamics</i> , 2021 , 15, 103-129	4.2	0
44	Network Asynchrony Underlying Increased Broadband Gamma Power. <i>Journal of Neuroscience</i> , 2021 , 41, 2944-2963	6.6	13
43	Resilience through diversity: Lost neuronal heterogeneity in human epilepsy renders networks vulnerable to synchronous transitions.		

42	Effects of Several Classes of Voltage-Gated Ion Channel Conductances on Gamma and Theta Oscillations in a Hippocampal Microcircuit Model. <i>Frontiers in Computational Neuroscience</i> , 2021 , 15, 630271	3.5	0
41	Empirically constrained network models for contrast-dependent modulation of gamma rhythm in V1. <i>NeuroImage</i> , 2021 , 229, 117748	7.9	2
40	Model neocortical microcircuit supports beta and gamma rhythms.. <i>International IEEE/EMBS Conference on Neural Engineering: [proceedings]</i> , 2021 , 2021, 91-94	1.3	
39	Phase-amplitude coupling in neuronal oscillator networks. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
38	Double Two-State Opsin Model With Autonomous Parameter Inference. <i>Frontiers in Computational Neuroscience</i> , 2021 , 15, 688331	3.5	
37	Visual gamma oscillations predict sensory sensitivity in females as they do in males. <i>Scientific Reports</i> , 2021 , 11, 12013	4.9	0
36	Theta-gamma coupling emerges from spatially heterogeneous cholinergic neuromodulation. <i>PLoS Computational Biology</i> , 2021 , 17, e1009235	5	1
35	Gamma and Theta Rhythms in Biophysical Models of Hippocampal Circuits. 2010 , 423-457		46
34	Encyclopedia of Computational Neuroscience. 2014 , 1-9		1
33	Neuronal Signatures of Selective Attention Synchronization and Gain Modulation as Mechanisms for Selective Sensory Information Processing. 2009 , 3-28		2
32	Modulation of Synchrony by Interneurons. 2008 , 317-332		1
31	Network asynchrony underlying increased broadband gamma power.		1
30	Stimulus-specific plasticity of macaque V1 spike rates and gamma.		2
29	Prefrontal oscillations modulate the propagation of neuronal activity required for working memory.		1
28	A distinct class of bursting neurons with strong gamma synchronization and stimulus selectivity in monkey V1.		2
27	Empirically Constrained Network Models for Contrast-dependent Modulation of Gamma Rhythm in V1.		1
26	Identifying Anatomical Origins of Coexisting Oscillations in the Cortical Microcircuit. <i>PLoS Computational Biology</i> , 2016 , 12, e1005132	5	25
25	Inter-network interactions: impact of connections between oscillatory neuronal networks on oscillation frequency and pattern. <i>PLoS ONE</i> , 2014 , 9, e100899	3.7	9

24	Temporal Coding Is Not Only About Cooperation It Is Also About Competition. 2012 , 33-56		
23	The PING Model of Gamma Rhythms. <i>Texts in Applied Mathematics</i> , 2017 , 255-267	2.1	1
22	Rhythmic vs. Tonic Inhibition. <i>Texts in Applied Mathematics</i> , 2017 , 313-321	2.1	
21	Approximate Synchronization by a Single Inhibitory Pulse. <i>Texts in Applied Mathematics</i> , 2017 , 243-254	2.1	
20	Input-dependent modulation of MEG gamma oscillations reflects gain control in the visual cortex.		0
19	Neural gain control measured through cortical gamma oscillations is associated with individual variations in sensory sensitivity.		
18	Flexible resonance in prefrontal networks with strong feedback inhibition.		
17	Surface color and predictability determine contextual modulation of V1 firing and gamma oscillations.		1
16	Additive effect of contrast and velocity proves the role of strong excitatory drive in suppression of visual gamma response.		1
15	Spatial suppression in visual motion perception is driven by inhibition: evidence from MEG gamma oscillations.		1
14	Oscillations and Synchrony in Attention. 2020 , 71-97		
13	Stimulus-Specific Plasticity of Macaque V1 Spike Rates and Gamma. <i>SSRN Electronic Journal</i> ,	1	1
12	Hodgkin and Huxley Opsin Model for Computationally Efficient Optogenetic Neurostimulation in Cells and Networks.		
11	Synaptic Variability and Cortical Gamma Oscillation Power in Schizophrenia.. <i>American Journal of Psychiatry</i> , 2022 , 179, 277-287	11.9	2
10	Stimulus-specific plasticity of macaque V1 spike rates and gamma. <i>Cell Reports</i> , 2021 , 37, 110086	10.6	0
9	The Role of Noise in Brain Function. 2022 , 99-110		
8	Cross-frequency Coupling in Psychiatric Disorders: A Systematic Review.. <i>Neuroscience and Biobehavioral Reviews</i> , 2022 , 104690	9	1
7	Loss of neuronal heterogeneity in epileptogenic human tissue impairs network resilience to sudden changes in synchrony. <i>Cell Reports</i> , 2022 , 39, 110863	10.6	0

- 6 Spike-Gamma Phase Relationship in the Visual Cortex. *Annual Review of Vision Science*, **2022**, 8, 8.2 ○
- 5 Theta Neuron Model. **2022**, 3412-3419
- 4 Altered visual cortex excitability in premenstrual dysphoric disorder: evidence from magnetoencephalographic gamma oscillations and perceptual suppression. ○
- 3 Interictal localization of the epileptogenic zone: Utilizing the observed resonance behavior in the spectral band of surrounding inhibition. 16, ○
- 2 Altered visual cortex excitability in premenstrual dysphoric disorder: Evidence from magnetoencephalographic gamma oscillations and perceptual suppression. **2022**, 17, e0279868 ○
- 1 Gamma oscillations point to the role of primary visual cortex in atypical motion processing in autism. **2023**, 18, e0281531 ○