

# Laura Lee Colgin

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

4,100  
citations

394421

19  
h-index

552781

26  
g-index

33  
all docs

33  
docs citations

33  
times ranked

3723  
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency of gamma oscillations routes flow of information in the hippocampus. <i>Nature</i> , 2009, 462, 353-357.	27.8	1,206
2	Rhythms of the hippocampal network. <i>Nature Reviews Neuroscience</i> , 2016, 17, 239-249.	10.2	495
3	Mechanisms and Functions of Theta Rhythms. <i>Annual Review of Neuroscience</i> , 2013, 36, 295-312.	10.7	392
4	Understanding memory through hippocampal remapping. <i>Trends in Neurosciences</i> , 2008, 31, 469-477.	8.6	361
5	Gamma Oscillations in the Hippocampus. <i>Physiology</i> , 2010, 25, 319-329.	3.1	260
6	Slow and Fast Gamma Rhythms Coordinate Different Spatial Coding Modes in Hippocampal Place Cells. <i>Neuron</i> , 2014, 82, 670-681.	8.1	182
7	Theta-gamma coupling in the entorhinal-hippocampal system. <i>Current Opinion in Neurobiology</i> , 2015, 31, 45-50.	4.2	166
8	Gamma oscillations in cognitive disorders. <i>Current Opinion in Neurobiology</i> , 2018, 52, 182-187.	4.2	164
9	Spatial Sequence Coding Differs during Slow and Fast Gamma Rhythms in the Hippocampus. <i>Neuron</i> , 2016, 89, 398-408.	8.1	130
10	Long-term potentiation is impaired in rat hippocampal slices that produce spontaneous sharp waves. <i>Journal of Physiology</i> , 2004, 558, 953-961.	2.9	104
11	Impairments in spatial representations and rhythmic coordination of place cells in the 3xTg mouse model of Alzheimer's disease. <i>Hippocampus</i> , 2017, 27, 378-392.	1.9	85
12	Do slow and fast gamma rhythms correspond to distinct functional states in the hippocampal network?. <i>Brain Research</i> , 2015, 1621, 309-315.	2.2	82
13	The relationship between gamma frequency and running speed differs for slow and fast gamma rhythms in freely behaving rats. <i>Hippocampus</i> , 2015, 25, 924-938.	1.9	79
14	Fast Gamma Rhythms in the Hippocampus Promote Encoding of Novel Object-Place Pairings. <i>ENeuro</i> , 2016, 3, ENEURO.0001-16.2016.	1.9	76
15	Grid cell co-activity patterns during sleep reflect spatial overlap of grid fields during active behaviors. <i>Nature Neuroscience</i> , 2019, 22, 609-617.	14.8	67
16	Septal Modulation of Excitatory Transmission in Hippocampus. <i>Journal of Neurophysiology</i> , 2003, 90, 2358-2366.	1.8	32
17	Blockade of NMDA receptors enhances spontaneous sharp waves in rat hippocampal slices. <i>Neuroscience Letters</i> , 2005, 385, 46-51.	2.1	29
18	Beta and Gamma Rhythms Go with the Flow. <i>Neuron</i> , 2015, 85, 236-237.	8.1	29

#	ARTICLE	IF	CITATIONS
19	Slow gamma rhythms in CA3 are entrained by slow gamma activity in the dentate gyrus. <i>Journal of Neurophysiology</i> , 2016, 116, 2594-2603.	1.8	24
20	Hippocampal place cell sequences differ during correct and error trials in a spatial memory task. <i>Nature Communications</i> , 2021, 12, 3373.	12.8	23
21	Hippocampal theta rhythms follow the beat of their own drum. <i>Nature Neuroscience</i> , 2009, 12, 1483-1484.	14.8	22
22	Methodological Caveats in the Detection of Coordinated Replay between Place Cells and Grid Cells. <i>Frontiers in Systems Neuroscience</i> , 2017, 11, 57.	2.5	21
23	CA3 place cells that represent a novel waking experience are preferentially reactivated during sharp wave ripples in subsequent sleep. <i>Hippocampus</i> , 2019, 29, 921-938.	1.9	19
24	Five Decades of Hippocampal Place Cells and EEG Rhythms in Behaving Rats. <i>Journal of Neuroscience</i> , 2020, 40, 54-60.	3.6	18
25	Experience-dependent trends in CA1 theta and slow gamma rhythms in freely behaving mice. <i>Journal of Neurophysiology</i> , 2018, 119, 476-489.	1.8	13
26	Spike Time Synchrony in the Absence of Continuous Oscillations. <i>Neuron</i> , 2018, 100, 527-529.	8.1	3
27	The High Energy Cost of Theta-Gamma Activity during REM Sleep. <i>Trends in Neurosciences</i> , 2019, 42, 239-241.	8.6	2
28	Hippocampal oscillatory dynamics in freely behaving rats during exploration of social and non-social stimuli. <i>Cognitive Neurodynamics</i> , 2023, 17, 411-429.	4.0	2
29	A neuronal mechanism for recall of bad events. <i>Nature Neuroscience</i> , 2017, 20, 501-503.	14.8	0
30	Cover Image, Volume 29, Issue 10. <i>Hippocampus</i> , 2019, 29, C1.	1.9	0