

Jean-Claude Lacaille

List of Publications by Year in descending order

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68
papers

6,015
citations

87723

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102304

66
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70
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70
docs citations

70
times ranked

7163
citing authors

#	ARTICLE	IF	CITATIONS
1	Astrocytes Are Endogenous Regulators of Basal Transmission at Central Synapses. <i>Cell</i> , 2011, 146, 785-798.	13.5	536
2	Autism-related deficits via dysregulated eIF4E-dependent translational control. <i>Nature</i> , 2013, 493, 371-377.	13.7	451
3	eIF2 $\hat{\pm}$ Phosphorylation Bidirectionally Regulates the Switch from Short- to Long-Term Synaptic Plasticity and Memory. <i>Cell</i> , 2007, 129, 195-206.	13.5	437
4	GABAergic Network Activation of Glial Cells Underlies Hippocampal Heterosynaptic Depression. <i>Journal of Neuroscience</i> , 2006, 26, 5370-5382.	1.7	348
5	Translational control of hippocampal synaptic plasticity and memory by the eIF2 $\hat{\pm}$ kinase GCN2. <i>Nature</i> , 2005, 436, 1166-1170.	13.7	344
6	Characterization of an RNA Granule from Developing Brain. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 635-651.	2.5	252
7	Mutations in <i>SYNGAP1</i> Cause Intellectual Disability, Autism, and a Specific Form of Epilepsy by Inducing Haploinsufficiency. <i>Human Mutation</i> , 2013, 34, 385-394.	1.1	196
8	Pharmacogenetic Inhibition of eIF4E-Dependent Mmp9 mRNA Translation Reverses Fragile X Syndrome-like Phenotypes. <i>Cell Reports</i> , 2014, 9, 1742-1755.	2.9	174
9	De Novo SYNGAP1 Mutations in Nonsyndromic Intellectual Disability and Autism. <i>Biological Psychiatry</i> , 2011, 69, 898-901.	0.7	164
10	Metformin ameliorates core deficits in a mouse model of fragile X syndrome. <i>Nature Medicine</i> , 2017, 23, 674-677.	15.2	164
11	Axonal Sprouting of CA1 Pyramidal Cells in Hyperexcitable Hippocampal Slices of Kainate-treated Rats. <i>European Journal of Neuroscience</i> , 1996, 8, 736-748.	1.2	154
12	Reactivation of stalled polyribosomes in synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16205-16210.	3.3	149
13	$\hat{\beta}$ -Aminobutyric Acid Type B Receptors with Specific Heterodimer Composition and Postsynaptic Actions in Hippocampal Neurons Are Targets of Anticonvulsant Gabapentin Action. <i>Molecular Pharmacology</i> , 2001, 59, 144-152.	1.0	141
14	Cholinergic Induction of Theta-Frequency Oscillations in Hippocampal Inhibitory Interneurons and Pacing of Pyramidal Cell Firing. <i>Journal of Neuroscience</i> , 1999, 19, 8637-8645.	1.7	128
15	Intrinsic Theta-Frequency Membrane Potential Oscillations in Hippocampal CA1 Interneurons of Stratum Lacunosum-Moleculare. <i>Journal of Neurophysiology</i> , 1999, 81, 1296-1307.	0.9	125
16	mGluR1/5 subtype-specific calcium signalling and induction of long-term potentiation in rat hippocampal oriens/alveus interneurons. <i>Journal of Physiology</i> , 2006, 575, 115-131.	1.3	103
17	Postnatal Deamidation of 4E-BP2 in Brain Enhances Its Association with Raptor and Alters Kinetics of Excitatory Synaptic Transmission. <i>Molecular Cell</i> , 2010, 37, 797-808.	4.5	96
18	Synapse-specific mGluR1-dependent long-term potentiation in interneurons regulates mouse hippocampal inhibition. <i>Journal of Physiology</i> , 2004, 555, 125-135.	1.3	93

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19	GABAB receptor-mediated inhibitory postsynaptic potentials evoked by electrical stimulation and by glutamate stimulation of interneurons in Stratum lacunosum-moleculare in hippocampal CA1 pyramidal cells in vitro. <i>Synapse</i> , 1992, 11, 249-258.	0.6	91
20	Effects of GABAA inhibition on the expression of long-term potentiation in CA1 pyramidal cells are dependent on tetanization parameters. , 1998, 8, 289-298.		82
21	Selective loss of GABA neurons in area CA1 of the rat hippocampus after intraventricular kainate. <i>Epilepsy Research</i> , 1998, 32, 363-369.	0.8	80
22	GABA B Receptor- and Metabotropic Glutamate Receptor-Dependent Cooperative Long-Term Potentiation of Rat Hippocampal GABA A Synaptic Transmission. <i>Journal of Physiology</i> , 2003, 553, 155-167.	1.3	75
23	Staufen1 Regulation of Protein Synthesis-Dependent Long-Term Potentiation and Synaptic Function in Hippocampal Pyramidal Cells. <i>Molecular and Cellular Biology</i> , 2008, 28, 2896-2907.	1.1	75
24	eIF2 \pm controls memory consolidation via excitatory and somatostatin neurons. <i>Nature</i> , 2020, 586, 412-416.	13.7	74
25	Astrocytes detect and upregulate transmission at inhibitory synapses of somatostatin interneurons onto pyramidal cells. <i>Nature Communications</i> , 2018, 9, 4254.	5.8	73
26	Decrease of SYNGAP1 in GABAergic cells impairs inhibitory synapse connectivity, synaptic inhibition and cognitive function. <i>Nature Communications</i> , 2016, 7, 13340.	5.8	70
27	Differential Regulation of Metabotropic Glutamate Receptor- and AMPA Receptor-Mediated Dendritic Ca ²⁺ Signals by Presynaptic and Postsynaptic Activity in Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 2005, 25, 990-1001.	1.7	69
28	Kv4.3-Mediated A-Type K ⁺ Currents Underlie Rhythmic Activity in Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 2007, 27, 1942-1953.	1.7	69
29	Antidepressant actions of ketamine engage cell-specific translation via eIF4E. <i>Nature</i> , 2021, 590, 315-319.	13.7	68
30	Translational control of depression-like behavior via phosphorylation of eukaryotic translation initiation factor 4E. <i>Nature Communications</i> , 2018, 9, 2459.	5.8	65
31	Staufen 2 regulates mGluR long-term depression and Map1b mRNA distribution in hippocampal neurons. <i>Learning and Memory</i> , 2011, 18, 314-326.	0.5	61
32	Both gain-of-function and loss-of-function <i>de novo</i> CACNA1A mutations cause severe developmental epileptic encephalopathies in the spectrum of Lennox-Gastaut syndrome. <i>Epilepsia</i> , 2019, 60, 1881-1894.	2.6	57
33	Differential mechanisms of Ca ²⁺ responses in glial cells evoked by exogenous and endogenous glutamate in rat hippocampus. <i>Hippocampus</i> , 2001, 11, 132-145.	0.9	52
34	Disinhibition in learning and memory circuits: New vistas for somatostatin interneurons and long-term synaptic plasticity. <i>Brain Research Bulletin</i> , 2018, 141, 20-26.	1.4	52
35	Differential NMDA-dependent activation of glial cells in mouse hippocampus. <i>Glia</i> , 2008, 56, 1648-1663.	2.5	51
36	Membrane Potential and Intracellular Ca ²⁺ Oscillations Activated by mGluRs in Hippocampal Stratum Oriens/Alveus Interneurons. <i>Journal of Neurophysiology</i> , 1999, 81, 371-382.	0.9	50

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37	Selective Regulation of GluA Subunit Synthesis and AMPA Receptor-Mediated Synaptic Function and Plasticity by the Translation Repressor 4E-BP2 in Hippocampal Pyramidal Cells. <i>Journal of Neuroscience</i> , 2013, 33, 1872-1886.	1.7	50
38	Gabapentin actions on Kir3 currents and N-type Ca ²⁺ channels via GABAB receptors in hippocampal pyramidal cells. <i>Synapse</i> , 2003, 50, 95-109.	0.6	49
39	Inhibition of Group I Metabotropic Glutamate Receptors Reverses Autistic-Like Phenotypes Caused by Deficiency of the Translation Repressor eIF4E Binding Protein 2. <i>Journal of Neuroscience</i> , 2015, 35, 11125-11132.	1.7	48
40	Persistent Transcription- and Translation-Dependent Long-Term Potentiation Induced by mGluR1 in Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 2009, 29, 5605-5615.	1.7	44
41	Chapter 14 Long-term synaptic plasticity in hippocampal feedback inhibitory networks. <i>Progress in Brain Research</i> , 2008, 169, 241-250.	0.9	42
42	Regulation of Hippocampal Memory by mTORC1 in Somatostatin Interneurons. <i>Journal of Neuroscience</i> , 2019, 39, 8439-8456.	1.7	38
43	Hippocampal Somatostatin Interneurons, Long-Term Synaptic Plasticity and Memory. <i>Frontiers in Neural Circuits</i> , 2021, 15, 687558.	1.4	32
44	Metaplastic Regulation of CA1 Schaffer Collateral Pathway Plasticity by Hebbian mGluR1a-Mediated Plasticity at Excitatory Synapses onto Somatostatin-Expressing Interneurons. <i>ENEURO</i> .0051-15.2015.	0.9	32
45	Unitary synaptic currents between lacunosum-moleculare interneurons and pyramidal cells in rat hippocampus. <i>Journal of Physiology</i> , 2001, 532, 369-384.	1.3	31
46	CREB-Dependent Transcriptional Control and Quantal Changes in Persistent Long-Term Potentiation in Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 2012, 32, 6335-6350.	1.7	30
47	Cell-type specific GABA synaptic transmission and activity-dependent plasticity in rat hippocampal stratum radiatum interneurons. <i>European Journal of Neuroscience</i> , 2005, 22, 179-188.	1.2	29
48	Distinct GABA _B Actions Via Synaptic and Extrasynaptic Receptors in Rat Hippocampus In Vitro. <i>Journal of Neurophysiology</i> , 1998, 80, 297-308.	0.9	28
49	Noradrenergic modulation of intrinsic and synaptic properties of lumbar motoneurons in the neonatal rat spinal cord. <i>Frontiers in Neural Circuits</i> , 2010, 4, 4.	1.4	28
50	Afferent-specific properties of interneuron synapses underlie selective long-term regulation of feedback inhibitory circuits in CA1 hippocampus. <i>Journal of Physiology</i> , 2010, 588, 2091-2107.	1.3	27
51	Short-term Effects of Kainic Acid on CA1 Hippocampal Interneurons Differentially Vulnerable to Excitotoxicity. <i>Epilepsia</i> , 2005, 46, 837-848.	2.6	24
52	UPF1 Governs Synaptic Plasticity through Association with a STAU2 RNA Granule. <i>Journal of Neuroscience</i> , 2017, 37, 9116-9131.	1.7	24
53	Tsc1 haploinsufficiency in Nkx2.1 cells upregulates hippocampal interneuron mTORC1 activity, impairs pyramidal cell synaptic inhibition, and alters contextual fear discrimination and spatial working memory in mice. <i>Molecular Autism</i> , 2020, 11, 29.	2.6	22
54	Interneuron-specific Ca ²⁺ Responses Linked to Metabotropic -and Ionotropic Glutamate Receptors in Rat Hippocampal Slices. <i>European Journal of Neuroscience</i> , 1997, 9, 1625-1635.	1.2	21

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55	Chronic fluoxetine rescues changes in plasma membrane density of 5-HT1A autoreceptors and serotonin transporters in the olfactory bulbectomy rodent model of depression. <i>Neuroscience</i> , 2017, 356, 78-88.	1.1	19
56	Remodeled cortical inhibition prevents motor seizures in generalized epilepsy. <i>Annals of Neurology</i> , 2018, 84, 436-451.	2.8	19
57	Reversing frontal disinhibition rescues behavioural deficits in models of CACNA1A-associated neurodevelopment disorders. <i>Molecular Psychiatry</i> , 2021, 26, 7225-7246.	4.1	16
58	Different actions of Gabapentin and baclofen in hippocampus from weaver mice. <i>Hippocampus</i> , 2003, 13, 525-528.	0.9	14
59	Group I metabotropic glutamate receptor actions in oriens/alveus interneurons of rat hippocampal CA1 region. <i>Brain Research</i> , 2004, 1000, 92-101.	1.1	14
60	4E-BP2-dependent translation in parvalbumin neurons controls epileptic seizure threshold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	10
61	Long-term potentiation at pyramidal cell to somatostatin interneuron synapses controls hippocampal network plasticity and memory. <i>IScience</i> , 2022, 25, 104259.	1.9	9
62	The eIF4E homolog 4EHP (eIF4E2) regulates hippocampal long-term depression and impacts social behavior. <i>Molecular Autism</i> , 2020, 11, 92.	2.6	8
63	Early defects in mucopolysaccharidosis type IIIC disrupt excitatory synaptic transmission. <i>JCI Insight</i> , 2021, 6, .	2.3	8
64	mTORC1 function in hippocampal parvalbumin interneurons: regulation of firing and long-term potentiation of intrinsic excitability but not long-term contextual fear memory and context discrimination. <i>Molecular Brain</i> , 2022, 15, .	1.3	8
65	Cell type-specific changes in spontaneous and minimally evoked excitatory synaptic activity in hippocampal CA1 interneurons of kainate-treated rats. <i>Epilepsy Research</i> , 2006, 68, 241-254.	0.8	7
66	TRPC1 mediates slow excitatory synaptic transmission in hippocampal oriens/alveus interneurons. <i>Molecular Brain</i> , 2020, 13, 12.	1.3	7
67	Somatostatin contributes to long-term potentiation at excitatory synapses onto hippocampal somatostatinergic interneurons. <i>Molecular Brain</i> , 2021, 14, 130.	1.3	6
68	Linking depression, mRNA translation, and serotonin. , 2021, , 79-88.		1