

Bernhard Luscher

List of Publications by Year in descending order

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76
papers

8,238
citations

87888

38
h-index

79698

73
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76
all docs

76
docs citations

76
times ranked

7339
citing authors

#	ARTICLE	IF	CITATIONS
1	Postsynaptic clustering of major GABAA receptor subtypes requires the $\hat{\gamma}2$ subunit and gephyrin. Nature Neuroscience, 1998, 1, 563-571.	14.8	775
2	The GABAergic deficit hypothesis of major depressive disorder. Molecular Psychiatry, 2011, 16, 383-406.	7.9	687
3	Cloning and expression of AP-2, a cell-type-specific transcription factor that activates inducible enhancer elements.. Genes and Development, 1988, 2, 1557-1569.	5.9	563
4	Decreased GABAA-receptor clustering results in enhanced anxiety and a bias for threat cues. Nature Neuroscience, 1999, 2, 833-839.	14.8	521
5	Neuronal circuitry mechanism regulating adult quiescent neural stem-cell fate decision. Nature, 2012, 489, 150-154.	27.8	463
6	Benzodiazepine-insensitive mice generated by targeted disruption of the gamma 2 subunit gene of gamma-aminobutyric acid type A receptors.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 7749-7753.	7.1	403
7	GABAA Receptor Trafficking-Mediated Plasticity of Inhibitory Synapses. Neuron, 2011, 70, 385-409.	8.1	371
8	Transcription factor AP-4 contains multiple dimerization domains that regulate dimer specificity.. Genes and Development, 1990, 4, 1741-1752.	5.9	310
9	Regulation of transcription factor AP-2 by the morphogen retinoic acid and by second messengers.. Genes and Development, 1989, 3, 1507-1517.	5.9	254
10	Regulation of GABAA receptor trafficking, channel activity, and functional plasticity of inhibitory synapses. , 2004, 102, 195-221.		245
11	The $\hat{\gamma}2$ subunit of GABAA receptors is required for maintenance of receptors at mature synapses. Molecular and Cellular Neurosciences, 2003, 24, 442-450.	2.2	242
12	The GDP-GTP Exchange Factor Collybistin: An Essential Determinant of Neuronal Gephyrin Clustering. Journal of Neuroscience, 2004, 24, 5816-5826.	3.6	239
13	The $\hat{\gamma}2$ Subunit of GABAA Receptors Is a Substrate for Palmitoylation by GODZ. Journal of Neuroscience, 2004, 24, 5881-5891.	3.6	225
14	GABAergic Control of Adult Hippocampal Neurogenesis in Relation to Behavior Indicative of Trait Anxiety and Depression States. Journal of Neuroscience, 2007, 27, 3845-3854.	3.6	186
15	Disinhibition of somatostatin-positive GABAergic interneurons results in an anxiolytic and antidepressant-like brain state. Molecular Psychiatry, 2017, 22, 920-930.	7.9	153
16	GODZ-Mediated Palmitoylation of GABAA Receptors Is Required for Normal Assembly and Function of GABAergic Inhibitory Synapses. Journal of Neuroscience, 2006, 26, 12758-12768.	3.6	148
17	GABAergic Terminals Are Required for Postsynaptic Clustering of Dystrophin But Not of GABA _A Receptors and Gephyrin. Journal of Neuroscience, 2002, 22, 4805-4813.	3.6	142
18	Faithful cell-cycle regulation of a recombinant mouse histone H4 gene is controlled by sequences in the 3'-terminal part of the gene.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 4389-4393.	7.1	141

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19	Distinct $\alpha 2$ Subunit Domains Mediate Clustering and Synaptic Function of Postsynaptic GABA _A Receptors and Gephyrin. <i>Journal of Neuroscience</i> , 2005, 25, 594-603.	3.6	138
20	A balanced chromosomal translocation disrupting <i>ARHGEF9</i> is associated with epilepsy, anxiety, aggression, and mental retardation. <i>Human Mutation</i> , 2009, 30, 61-68.	2.5	131
21	β -Aminobutyric Acid-Type A Receptor Deficits Cause Hypothalamic-Pituitary-Adrenal Axis Hyperactivity and Antidepressant Drug Sensitivity Reminiscent of Melancholic Forms of Depression. <i>Biological Psychiatry</i> , 2010, 68, 512-520.	1.3	124
22	GABAergic Control of Depression-Related Brain States. <i>Advances in Pharmacology</i> , 2015, 73, 97-144.	2.0	107
23	RNA 3' processing regulates histone mRNA levels in a mammalian cell cycle mutant. A processing factor becomes limiting in G1-arrested cells.. <i>EMBO Journal</i> , 1987, 6, 1721-1726.	7.8	105
24	Bidirectional Homeostatic Regulation of a Depression-Related Brain State by Gamma-Aminobutyric Acidergic Deficits and Ketamine Treatment. <i>Biological Psychiatry</i> , 2016, 80, 457-468.	1.3	94
25	Heterogeneity of GABA _A -receptors: cell-specific expression, pharmacology, and regulation. <i>Neurochemical Research</i> , 1995, 20, 631-636.	3.3	86
26	Palmitoylation of Gephyrin Controls Receptor Clustering and Plasticity of GABAergic Synapses. <i>PLoS Biology</i> , 2014, 12, e1001908.	5.6	79
27	Tissue-specific expression of a FMR1/ β -galactosidase fusion gene in transgenic mice. <i>Human Molecular Genetics</i> , 1995, 4, 359-366.	2.9	70
28	A signal regulating mouse histone H4 mRNA levels in a mammalian cell cycle mutant and sequences controlling RNA 3' processing are both contained within the same 80-bp fragment.. <i>EMBO Journal</i> , 1986, 5, 3297-3303.	7.8	69
29	Multiple molecular mechanisms for a single GABA _A mutation in epilepsy. <i>Neurology</i> , 2013, 80, 1003-1008.	1.1	67
30	Postsynaptic clustering of gamma-aminobutyric acid type A receptors by the gamma 3 subunit in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 12860-12865.	7.1	66
31	Single channel properties of neuronal GABA _A receptors from mice lacking the $\beta 2$ subunit. <i>Journal of Physiology</i> , 2000, 527, 11-31.	2.9	63
32	Brexanolone, a neurosteroid antidepressant, vindicates the GABAergic deficit hypothesis of depression and may foster resilience. <i>F1000Research</i> , 2019, 8, 751.	1.6	56
33	β -Aminobutyric Acid Type A (GABA _A) Receptor α Subunits Play a Direct Role in Synaptic Versus Extrasynaptic Targeting. <i>Journal of Biological Chemistry</i> , 2012, 287, 27417-27430.	3.4	54
34	Brain cell type specificity and gliosis-induced activation of the human cytomegalovirus immediate-early promoter in transgenic mice. <i>Journal of Neuroscience</i> , 1996, 16, 2275-2282.	3.6	52
35	Knockdown of GABA _A Receptor Signaling in GnRH Neurons Has Minimal Effects upon Fertility. <i>Endocrinology</i> , 2010, 151, 4428-4436.	2.8	51
36	Membrane protein topology: amino acid residues in a putative transmembrane .alpha.-helix of bacteriorhodopsin labeled with the hydrophobic carbene-generating reagent 3-(trifluoromethyl)-3-(m-[125I]iodophenyl)diazirine. <i>Biochemistry</i> , 1985, 24, 5422-5430.	2.5	47

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37	Pre- and post-synaptic mechanisms regulating the clustering of type A $\hat{1}^3$ -aminobutyric acid receptors (GABAA receptors). <i>Biochemical Society Transactions</i> , 2003, 31, 889-892.	3.4	45
38	DHHC7 Palmitoylates Glucose Transporter 4 (Glut4) and Regulates Glut4 Membrane Translocation. <i>Journal of Biological Chemistry</i> , 2017, 292, 2979-2991.	3.4	45
39	Behavioural changes produced by transgenic overexpression of $\hat{1}^3$ L and $\hat{1}^3$ S subunits of the GABA _A receptor. <i>European Journal of Neuroscience</i> , 2000, 12, 2634-2638.	2.6	39
40	Defects in dendrite and spine maturation and synaptogenesis associated with an anxious-depressive-like phenotype of GABAA receptor-deficient mice. <i>Neuropharmacology</i> , 2015, 88, 171-179.	4.1	39
41	Sequential Postsynaptic Maturation Governs the Temporal Order of GABAergic and Glutamatergic Synaptogenesis in Rat Embryonic Cultures. <i>Journal of Neuroscience</i> , 2007, 27, 10860-10869.	3.6	37
42	GABAergic Control of Critical Developmental Periods for Anxiety- and Depression-Related Behavior in Mice. <i>PLoS ONE</i> , 2012, 7, e47441.	2.5	37
43	Rescue of $\hat{1}^3$ 2 subunit-deficient mice by transgenic overexpression of the GABA _A receptor $\hat{1}^3$ 2S or $\hat{1}^3$ 2L subunit isoforms. <i>European Journal of Neuroscience</i> , 2000, 12, 2639-2643.	2.6	36
44	Calcium-modulating cyclophilin ligand regulates membrane trafficking of postsynaptic GABAA receptors. <i>Molecular and Cellular Neurosciences</i> , 2008, 38, 277-289.	2.2	36
45	Effect of C-Terminal S-Palmitoylation on D2 Dopamine Receptor Trafficking and Stability. <i>PLoS ONE</i> , 2015, 10, e0140661.	2.5	36
46	Dissociation of Golgi-associated DHHC-type Zinc Finger Protein (GODZ)- and Sertoli Cell Gene with a Zinc Finger Domain- $\hat{1}^2$ (SERZ- $\hat{1}^2$)-mediated Palmitoylation by Loss of Function Analyses in Knock-out Mice. <i>Journal of Biological Chemistry</i> , 2016, 291, 27371-27386.	3.4	31
47	Adolescent Social Stress Increases Anxiety-like Behavior and Alters Synaptic Transmission, Without Influencing Nicotine Responses, in a Sex-Dependent Manner. <i>Neuroscience</i> , 2018, 373, 182-198.	2.3	25
48	Ketamine normalizes binge drinking-induced defects in glutamatergic synaptic transmission and ethanol drinking behavior in female but not male mice. <i>Neuropharmacology</i> , 2019, 149, 35-44.	4.1	25
49	Downregulation of tonic GABA currents following epileptogenic stimulation of rat hippocampal cultures. <i>Journal of Physiology</i> , 2006, 577, 579-590.	2.9	23
50	Role of the GABA _A receptor $\hat{1}^3$ 2 subunit in the development of gonadotropin-releasing hormone neurons in vivo. <i>European Journal of Neuroscience</i> , 2000, 12, 3488-3496.	2.6	22
51	Autoradiographic imaging of altered synaptic $\hat{1}^{\pm}\hat{1}^3$ 2 and extrasynaptic $\hat{1}^{\pm}\hat{1}^2$ GABAA receptors in a genetic mouse model of anxiety. <i>Neurochemistry International</i> , 2004, 44, 539-547.	3.8	19
52	Neuronal subtype-specific expression directed by the GABAA receptor $\hat{1}^{\pm}$ subunit gene promoter/upstream region in transgenic mice and in cultured cells. <i>Molecular Brain Research</i> , 1997, 51, 197-211.	2.3	18
53	Binding of Herpes Simplex Virus 1 UL20 to GODZ (DHHC3) Affects Its Palmitoylation and Is Essential for Infectivity and Proper Targeting and Localization of UL20 and Glycoprotein K. <i>Journal of Virology</i> , 2017, 91, .	3.4	17
54	Histone-specific RNA 3'â€² processing in nuclear extracts from mammalian cells. <i>Methods in Enzymology</i> , 1990, 181, 74-89.	1.0	16

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55	Full function of exon junction complex factor, Rbm8a, is critical for interneuron development. <i>Translational Psychiatry</i> , 2020, 10, 379.	4.8	16
56	GABAA-receptor assembly in vivo: Lessons from subunit mutant mice. <i>Life Sciences</i> , 1998, 62, 1611-1615.	4.3	15
57	Antidepressant mechanisms of ketamine: Focus on GABAergic inhibition. <i>Advances in Pharmacology</i> , 2020, 89, 43-78.	2.0	15
58	Ubiquitination, proteasomes and GABAA receptors. <i>Nature Cell Biology</i> , 2001, 3, E232-E233.	10.3	14
59	Activation of the GABAA-receptor δ -subunit gene promoter following pentylenetetrazole-induced seizures in transgenic mice. <i>Molecular Brain Research</i> , 1997, 51, 212-219.	2.3	13
60	The Absence of DHHC3 Affects Primary and Latent Herpes Simplex Virus 1 Infection. <i>Journal of Virology</i> , 2018, 92, .	3.4	13
61	Influence of GABAA Receptor δ Subunit Isoforms on the Benzodiazepine Binding Site. <i>PLoS ONE</i> , 2012, 7, e42101.	2.5	12
62	Reversal of a Treatment-Resistant, Depression-Related Brain State with the Kv7 Channel Opener Retigabine. <i>Neuroscience</i> , 2019, 406, 109-125.	2.3	10
63	Subcellular localization and regulation of GABAA receptors and associated proteins. <i>International Review of Neurobiology</i> , 2001, 48, 31-64.	2.0	9
64	Disinhibition of somatostatin interneurons confers resilience to stress in male but not female mice. <i>Neurobiology of Stress</i> , 2020, 13, 100238.	4.0	9
65	Increased Motor-Impairing Effects of the Neuroactive Steroid Pregnanolone in Mice with Targeted Inactivation of the GABAA Receptor δ Subunit in the Cerebellum. <i>Frontiers in Pharmacology</i> , 2016, 7, 403.	3.5	6
66	In silico Screening and Behavioral Validation of a Novel Peptide, LCGA-17, With Anxiolytic-Like Properties. <i>Frontiers in Neuroscience</i> , 2021, 15, 705590.	2.8	6
67	Gluconate suppresses seizure activity in developing brains by inhibiting CLC-3 chloride channels. <i>Molecular Brain</i> , 2019, 12, 50.	2.6	5
68	Disinhibition of somatostatin-positive interneurons by deletion of postsynaptic GABAA receptors. <i>Molecular Psychiatry</i> , 2017, 22, 787-787.	7.9	4
69	GABAA and GABAC receptors: regulation of assembly, localization, clustering and turnover. , 2002, , 192-218.		3
70	Hypothalamic Somatostatin and Growth Hormone-Releasing Hormone mRNA Expression Depend upon GABA _A Receptor Expression in the Developing Mouse. <i>Neuroendocrinology</i> , 2002, 76, 93-98.	2.5	3
71	Adult hippocampal neurogenesis in the absence of serotonin (Commentary on Diaz <i>et al.</i>). <i>European Journal of Neuroscience</i> , 2013, 38, 2649-2649.	2.6	3
72	GABA _A receptors in GtoPdb v.2021.3. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2021, 2021, .	0.2	3

#	ARTICLE	IF	CITATIONS
73	Gamma-Aminobutyric Acidergic Deficits Cause Melancholic Depression: A Reply to Markou and Geyer. <i>Biological Psychiatry</i> , 2011, 69, e13-e14.	1.3	2
74	GABAergic Signaling in Health and Disease. <i>Neuropharmacology</i> , 2015, 88, 1.	4.1	2
75	GABA _A receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2019, 2019, .	0.2	2
76	Trafficking of Postsynaptic GABA _A Receptors by Receptor-Associated Proteins. , 2007, , 41-67.		0