

Bernhard Luscher

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71
papers

7,025
citations

37
h-index

76
g-index

76
ext. papers

7,628
ext. citations

7.5
avg, IF

5.58
L-index

#	Paper	IF	Citations
71	Postsynaptic clustering of major GABAA receptor subtypes requires the gamma 2 subunit and gephyrin. <i>Nature Neuroscience</i> , 1998 , 1, 563-71	25.5	709
70	The GABAergic deficit hypothesis of major depressive disorder. <i>Molecular Psychiatry</i> , 2011 , 16, 383-406	15.1	515
69	Cloning and expression of AP-2, a cell-type-specific transcription factor that activates inducible enhancer elements. <i>Genes and Development</i> , 1988 , 2, 1557-69	12.6	503
68	Decreased GABAA-receptor clustering results in enhanced anxiety and a bias for threat cues. <i>Nature Neuroscience</i> , 1999 , 2, 833-9	25.5	468
67	Neuronal circuitry mechanism regulating adult quiescent neural stem-cell fate decision. <i>Nature</i> , 2012 , 489, 150-4	50.4	359
66	Benzodiazepine-insensitive mice generated by targeted disruption of the gamma 2 subunit gene of gamma-aminobutyric acid type A receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 7749-53	11.5	353
65	GABAA receptor trafficking-mediated plasticity of inhibitory synapses. <i>Neuron</i> , 2011 , 70, 385-409	13.9	311
64	Transcription factor AP-4 contains multiple dimerization domains that regulate dimer specificity. <i>Genes and Development</i> , 1990 , 4, 1741-52	12.6	279
63	Regulation of GABAA receptor trafficking, channel activity, and functional plasticity of inhibitory synapses 2004 , 102, 195-221		226
62	Regulation of transcription factor AP-2 by the morphogen retinoic acid and by second messengers. <i>Genes and Development</i> , 1989 , 3, 1507-17	12.6	224
61	The gamma 2 subunit of GABA(A) receptors is required for maintenance of receptors at mature synapses. <i>Molecular and Cellular Neurosciences</i> , 2003 , 24, 442-50	4.8	221
60	The GDP-GTP exchange factor collybistin: an essential determinant of neuronal gephyrin clustering. <i>Journal of Neuroscience</i> , 2004 , 24, 5816-26	6.6	210
59	The gamma2 subunit of GABA(A) receptors is a substrate for palmitoylation by GODZ. <i>Journal of Neuroscience</i> , 2004 , 24, 5881-91	6.6	203
58	GABAergic control of adult hippocampal neurogenesis in relation to behavior indicative of trait anxiety and depression states. <i>Journal of Neuroscience</i> , 2007 , 27, 3845-54	6.6	164
57	GODZ-mediated palmitoylation of GABA(A) receptors is required for normal assembly and function of GABAergic inhibitory synapses. <i>Journal of Neuroscience</i> , 2006 , 26, 12758-68	6.6	137
56	Faithful cell-cycle regulation of a recombinant mouse histone H4 gene is controlled by sequences in the 3' terminal part of the gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 4389-93	11.5	133
55	GABAergic terminals are required for postsynaptic clustering of dystrophin but not of GABA(A) receptors and gephyrin. <i>Journal of Neuroscience</i> , 2002 , 22, 4805-13	6.6	131

54	Distinct gamma2 subunit domains mediate clustering and synaptic function of postsynaptic GABAA receptors and gephyrin. <i>Journal of Neuroscience</i> , 2005 , 25, 594-603	6.6	122
53	A balanced chromosomal translocation disrupting ARHGEF9 is associated with epilepsy, anxiety, aggression, and mental retardation. <i>Human Mutation</i> , 2009 , 30, 61-8	4.7	108
52	gamma-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, 512-20	7.9	107
51	Disinhibition of somatostatin-positive GABAergic interneurons results in an anxiolytic and antidepressant-like brain state. <i>Molecular Psychiatry</i> , 2017 , 22, 920-930	15.1	106
50	Heterogeneity of GABAA-receptors: cell-specific expression, pharmacology, and regulation. <i>Neurochemical Research</i> , 1995 , 20, 631-6	4.6	80
49	GABAergic control of depression-related brain states. <i>Advances in Pharmacology</i> , 2015 , 73, 97-144	5.7	79
48	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	13	77
47	Tissue-specific expression of a FMR1/beta-galactosidase fusion gene in transgenic mice. <i>Human Molecular Genetics</i> , 1995 , 4, 359-66	5.6	66
46	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	7.9	64
45	Postsynaptic clustering of gamma-aminobutyric acid type A receptors by the gamma3 subunit in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 12860-5	11.5	62
44	Multiple molecular mechanisms for a single GABAA mutation in epilepsy. <i>Neurology</i> , 2013 , 80, 1003-8	6.5	58
43	Palmitoylation of gephyrin controls receptor clustering and plasticity of GABAergic synapses. <i>PLoS Biology</i> , 2014 , 12, e1001908	9.7	57
42	Single-channel properties of neuronal GABAA receptors from mice lacking the 2 subunit. <i>Journal of Physiology</i> , 2000 , 527 Pt 1, 11-31	3.9	56
41	Gamma-Aminobutyric acid type A (GABAA) receptor subunits play a direct role in synaptic versus extrasynaptic targeting. <i>Journal of Biological Chemistry</i> , 2012 , 287, 27417-30	5.4	50
40	Knockdown of GABA(A) receptor signaling in GnRH neurons has minimal effects upon fertility. <i>Endocrinology</i> , 2010 , 151, 4428-36	4.8	49
39	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, 2275-82	6.6	48
38	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	3.2	47
37	Pre- and post-synaptic mechanisms regulating the clustering of type A gamma-aminobutyric acid receptors (GABAA receptors). <i>Biochemical Society Transactions</i> , 2003 , 31, 889-92	5.1	43

36	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	13	41
35	Brexanolone, a neurosteroid antidepressant, vindicates the GABAergic deficit hypothesis of depression and may foster resilience. <i>F1000Research</i> , 2019 , 8,	3.6	39
34	Behavioural changes produced by transgenic overexpression of gamma2L and gamma2S subunits of the GABAA receptor. <i>European Journal of Neuroscience</i> , 2000 , 12, 2634-8	3.5	34
33	Calcium-modulating cyclophilin ligand regulates membrane trafficking of postsynaptic GABA(A) receptors. <i>Molecular and Cellular Neurosciences</i> , 2008 , 38, 277-89	4.8	33
32	Sequential postsynaptic maturation governs the temporal order of GABAergic and glutamatergic synaptogenesis in rat embryonic cultures. <i>Journal of Neuroscience</i> , 2007 , 27, 10860-9	6.6	32
31	Rescue of gamma2 subunit-deficient mice by transgenic overexpression of the GABAA receptor gamma2S or gamma2L subunit isoforms. <i>European Journal of Neuroscience</i> , 2000 , 12, 2639-43	3.5	32
30	GABAergic control of critical developmental periods for anxiety- and depression-related behavior in mice. <i>PLoS ONE</i> , 2012 , 7, e47441	3.7	32
29	DHHC7 Palmitoylates Glucose Transporter 4 (Glut4) and Regulates Glut4 Membrane Translocation. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2979-2991	5.4	31
28	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, 171-9	5.5	27
27	Effect of C-Terminal S-Palmitoylation on D2 Dopamine Receptor Trafficking and Stability. <i>PLoS ONE</i> , 2015 , 10, e0140661	3.7	27
26	Dissociation of Golgi-associated DHHC-type Zinc Finger Protein (GODZ)- and Sertoli Cell Gene with a Zinc Finger Domain-[SERZ-]-mediated Palmitoylation by Loss of Function Analyses in Knock-out Mice. <i>Journal of Biological Chemistry</i> , 2016 , 291, 27371-27386	5.4	24
25	Downregulation of tonic GABA currents following epileptogenic stimulation of rat hippocampal cultures. <i>Journal of Physiology</i> , 2006 , 577, 579-90	3.9	22
24	Role of the GABA(A) receptor gamma2 subunit in the development of gonadotropin-releasing hormone neurons in vivo. <i>European Journal of Neuroscience</i> , 2000 , 12, 3488-96	3.5	19
23	Neuronal subtype-specific expression directed by the GABA(A) receptor delta subunit gene promoter/upstream region in transgenic mice and in cultured cells. <i>Molecular Brain Research</i> , 1997 , 51, 197-211		18
22	Autoradiographic imaging of altered synaptic alphabeta2 and extrasynaptic alphabeta GABAA receptors in a genetic mouse model of anxiety. <i>Neurochemistry International</i> , 2004 , 44, 539-47	4.4	18
21	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,	6.6	16
20	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	3.9	14
19	GABA(A)-receptor assembly in vivo: lessons from subunit mutant mice. <i>Life Sciences</i> , 1998 , 62, 1611-5	6.8	14

18	Histone-specific RNA 3Tprocessing in nuclear extracts from mammalian cells. <i>Methods in Enzymology</i> , 1990 , 181, 74-89	1.7	14
17	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	5.5	12
16	Activation of the GABA(A)-receptor delta-subunit gene promoter following pentylenetetrazole-induced seizures in transgenic mice. <i>Molecular Brain Research</i> , 1997 , 51, 212-9		12
15	Influence of GABA(A) receptor β subunit isoforms on the benzodiazepine binding site. <i>PLoS ONE</i> , 2012 , 7, e42101	3.7	12
14	The Absence of DHHC3 Affects Primary and Latent Herpes Simplex Virus 1 Infection. <i>Journal of Virology</i> , 2018 , 92,	6.6	11
13	Reversal of a Treatment-Resistant, Depression-Related Brain State with the Kv7 Channel Opener Retigabine. <i>Neuroscience</i> , 2019 , 406, 109-125	3.9	9
12	Subcellular localization and regulation of GABAA receptors and associated proteins. <i>International Review of Neurobiology</i> , 2001 , 48, 31-64	4.4	9
11	Antidepressant mechanisms of ketamine: Focus on GABAergic inhibition. <i>Advances in Pharmacology</i> , 2020 , 89, 43-78	5.7	6
10	Disinhibition of somatostatin-positive interneurons by deletion of postsynaptic GABA receptors. <i>Molecular Psychiatry</i> , 2017 , 22, 787	15.1	4
9	Gluconate suppresses seizure activity in developing brains by inhibiting CLC-3 chloride channels. <i>Molecular Brain</i> , 2019 , 12, 50	4.5	4
8	Full function of exon junction complex factor, Rbm8a, is critical for interneuron development. <i>Translational Psychiatry</i> , 2020 , 10, 379	8.6	4
7	Increased Motor-Impairing Effects of the Neuroactive Steroid Pregnanolone in Mice with Targeted Inactivation of the GABA Receptor δ Subunit in the Cerebellum. <i>Frontiers in Pharmacology</i> , 2016 , 7, 403	5.6	3
6	Adult hippocampal neurogenesis in the absence of serotonin (Commentary on Diaz et al.). <i>European Journal of Neuroscience</i> , 2013 , 38, 2649	3.5	2
5	Gamma-aminobutyric acidergic deficits cause melancholic depression: a reply to Markou and Geyer. <i>Biological Psychiatry</i> , 2011 , 69, e13-4; author reply e15-6	7.9	2
4	Hypothalamic somatostatin and growth hormone-releasing hormone mRNA expression depend upon GABA(A) receptor expression in the developing mouse. <i>Neuroendocrinology</i> , 2002 , 76, 93-8	5.6	2
3	Disinhibition of somatostatin interneurons confers resilience to stress in male but not female mice. <i>Neurobiology of Stress</i> , 2020 , 13, 100238	7.6	2
2	Screening and Behavioral Validation of a Novel Peptide, LCGA-17, With Anxiolytic-Like Properties. <i>Frontiers in Neuroscience</i> , 2021 , 15, 705590	5.1	2
1	Trafficking of Postsynaptic GABAA Receptors by Receptor-Associated Proteins 2007 , 41-67		

