

# CITATION REPORT

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**Viagra for your synapses: Enhancement of hippocampal long-term potentiation by activation of beta-adrenergic receptors**

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#	Paper	IF	Citations
73	'Silent' priming of translation-dependent LTP by $\beta$ -adrenergic receptors involves phosphorylation and recruitment of AMPA receptors. <i>Learning and Memory</i> , <b>2010</b> , 17, 627-38	2.8	49
72	A three-step model for the synaptic recruitment of AMPA receptors. <i>Molecular and Cellular Neurosciences</i> , <b>2011</b> , 46, 1-8	4.8	129
71	Long-Term Potentiation at CA3-CA1 Hippocampal Synapses with Special Emphasis on Aging, Disease, and Stress. <i>Frontiers in Aging Neuroscience</i> , <b>2011</b> , 3, 7	5.3	90
70	Hidden prenatal malnutrition in the rat: role of $\beta$ -adrenoceptors on synaptic plasticity in the frontal cortex. <i>Journal of Neurochemistry</i> , <b>2011</b> , 119, 314-23	6	20
69	Autoregulatory and paracrine control of synaptic and behavioral plasticity by octopaminergic signaling. <i>Nature Neuroscience</i> , <b>2011</b> , 14, 190-9	25.5	95
68	Activation of $\beta$ -adrenergic receptors facilitates heterosynaptic translation-dependent long-term potentiation. <i>Journal of Physiology</i> , <b>2011</b> , 589, 4321-40	3.9	35
67	Synaptic stimulation of mTOR is mediated by Wnt signaling and regulation of glycogen synthetase kinase-3. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 17537-46	6.6	62
66	Beta-adrenergic receptor activation rescues theta frequency stimulation-induced LTP deficits in mice expressing C-terminally truncated NMDA receptor GluN2A subunits. <i>Learning and Memory</i> , <b>2011</b> , 18, 118-27	2.8	9
65	Tonic dopamine induces persistent changes in the transient potassium current through translational regulation. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 13046-56	6.6	18
64	Long-term memory search across the visual brain. <i>Neural Plasticity</i> , <b>2012</b> , 2012, 392695	3.3	1
63	Activity-dependent transport of the transcriptional coactivator CRTC1 from synapse to nucleus. <i>Cell</i> , <b>2012</b> , 150, 207-21	56.2	141
62	Gravin orchestrates protein kinase A and $\beta$ -adrenergic receptor signaling critical for synaptic plasticity and memory. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 18137-49	6.6	47
61	Knockdown of $\beta$ -adrenoceptors in the occipital cortex rescued long-term potentiation in hidden prenatally malnourished rats. <i>Neurobiology of Learning and Memory</i> , <b>2012</b> , 98, 228-34	3.1	7
60	Synaptic tagging and capture in the living rat. <i>Nature Communications</i> , <b>2012</b> , 3, 1246	17.4	41
59	Norepinephrine: a neuromodulator that boosts the function of multiple cell types to optimize CNS performance. <i>Neurochemical Research</i> , <b>2012</b> , 37, 2496-512	4.6	205
58	Melanocortin-4 receptor regulates hippocampal synaptic plasticity through a protein kinase A-dependent mechanism. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 464-72	6.6	55
57	Molecular mechanisms underlying neuronal synaptic plasticity: systems biology meets computational neuroscience in the wilds of synaptic plasticity. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2013</b> , 5, 717-31	6.6	9

56	Environmental novelty activates $\alpha$ -adrenergic signaling to prevent the impairment of hippocampal LTP by A $\beta$ oligomers. <i>Neuron</i> , <b>2013</b> , 77, 929-41	13.9	122
55	Activation of $\alpha$ -adrenoceptor enhances synaptic potentiation and behavioral memory via cAMP-PKA signaling in the medial prefrontal cortex of rats. <i>Learning and Memory</i> , <b>2013</b> , 20, 274-84	2.8	52
54	Hebbian and neuromodulatory mechanisms interact to trigger associative memory formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E5584-92	11.5	130
53	Synaptic Stress and Pathogenesis of Neuropsychiatric Disorders. <b>2014</b> ,		2
52	$\beta$ Adrenoceptors and synaptic plasticity in the perirhinal cortex. <i>Neuroscience</i> , <b>2014</b> , 273, 163-73	3.9	13
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50	Synaptic Tagging and Capture. <b>2015</b> ,		5
49	$\beta$ Arrestin-biased signaling mediates memory reconsolidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4483-8	11.5	39
48	Hippocampal long-term potentiation that is elicited by perforant path stimulation or that occurs in conjunction with spatial learning is tightly controlled by beta-adrenoreceptors and the locus coeruleus. <i>Hippocampus</i> , <b>2015</b> , 25, 1285-98	3.5	48
47	$\beta$ Adrenergic receptor signaling and modulation of long-term potentiation in the mammalian hippocampus. <i>Learning and Memory</i> , <b>2015</b> , 22, 461-71	2.8	84
46	$\alpha$ -adrenoceptor stimulation restores frontal cortex plasticity and improves visuospatial performance in hidden-prenatally-malnourished young-adult rats. <i>Neurobiology of Learning and Memory</i> , <b>2015</b> , 119, 1-9	3.1	8
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43	Bodily arousal differentially impacts stimulus processing and memory: Norepinephrine in interoception. <i>Behavioral and Brain Sciences</i> , <b>2016</b> , 39, e205	0.9	5
42	What do we GANE with age?. <i>Behavioral and Brain Sciences</i> , <b>2016</b> , 39, e218	0.9	1
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39	The role of arousal in predictive coding. <i>Behavioral and Brain Sciences</i> , <b>2016</b> , 39, e207	0.9	5

38	Does arousal enhance apical amplification and disamplification?. <i>Behavioral and Brain Sciences</i> , <b>2016</b> , 39, e215	0.9	5
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35	Interactions of noradrenaline and cortisol and the induction of indelible memories. <i>Behavioral and Brain Sciences</i> , <b>2016</b> , 39, e213	0.9	1
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33	For better or worse, or for a change?. <i>Behavioral and Brain Sciences</i> , <b>2016</b> , 39, e203	0.9	
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31	Cognitive control, dynamic salience, and the imperative toward computational accounts of neuromodulatory function. <i>Behavioral and Brain Sciences</i> , <b>2016</b> , 39, e227	0.9	5
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28	Competition elicits arousal and affect. <i>Behavioral and Brain Sciences</i> , <b>2016</b> , 39, e220	0.9	
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26	Emotional memory: From affective relevance to arousal. <i>Behavioral and Brain Sciences</i> , <b>2016</b> , 39, e216	0.9	6
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24	Convergence of neurotransmissions at synapse on IEG regulation in nucleus. <i>Frontiers in Bioscience - Landmark</i> , <b>2017</b> , 22, 1052-1072	2.8	6
23	Noradrenergic System and Memory: The Role of Astrocytes. <b>2017</b> , 183-200		0
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19	Noradrenergic gating of long-lasting synaptic potentiation in the hippocampus: from neurobiology to translational biomedicine. <i>Journal of Neurogenetics</i> , <b>2018</b> , 32, 171-182	1.6	6
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17	Noradrenergic Regulation of Hippocampus-Dependent Memory. <i>Central Nervous System Agents in Medicinal Chemistry</i> , <b>2019</b> , 19, 187-196	1.8	4
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15	Transcranial direct current stimulation induces hippocampal metaplasticity mediated by brain-derived neurotrophic factor. <i>Neuropharmacology</i> , <b>2019</b> , 144, 358-367	5.5	24
14	Atomoxetine Reestablishes Long Term Potentiation in a Mouse Model of Attention Deficit/Hyperactivity Disorder. <i>Neuroscience</i> , <b>2020</b> , 439, 268-274	3.9	8
13	Noradrenaline Release from Locus Coeruleus Terminals in the Hippocampus Enhances Excitation-Spike Coupling in CA1 Pyramidal Neurons Via $\beta$ Adrenoceptors. <i>Cerebral Cortex</i> , <b>2020</b> , 30, 6135-6151	5.1	10
12	Norepinephrine transporter antagonism prevents dopamine-dependent synaptic plasticity in the mouse dorsal hippocampus. <i>Neuroscience Letters</i> , <b>2021</b> , 740, 135450	3.3	6
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10	Stress-Induced Metaplasticity at GABA Synapses. <b>2014</b> , 125-136		2
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3	Exercise may alleviate age-related spatial memory impairment by rescuing $\beta$ adrenergic receptor dysregulation via both G protein-dependent and $\beta$ arrestin-dependent mechanisms in rat hippocampus. <b>2023</b> , 1804, 148250		0

- 2 The Adrenergic hypothesis of synaptic and microglial impairment in Alzheimer's disease. ○
- 1 Daily biofeedback to modulate heart rate oscillations affects structural volume in hippocampal subregions targeted by the locus coeruleus in older adults but not younger adults. ○