Jos Prickaerts

List of Publications by Year
in descending order

74 papers	2,942 citations	201674 27 h-index	182427 51 g-index
79 all docs	79 docs citations	79 times ranked	3656 citing authors

#	Article	IF	Citations
1	The sGC stimulator BAY-747 and activator runcaciguat can enhance memory in vivo via differential hippocampal plasticity mechanisms. Scientific Reports, 2022, 12, 3589.	3.3	5
2	Biased 5-HT1A receptor agonists F13714 and NLX-101 differentially affect pattern separation and neuronal plasticity in rats after acute and chronic treatment. Molecular and Cellular Neurosciences, 2022, 120, 103719.	2.2	3
3	Inhibition of PDE2 and PDE4 synergistically improves memory consolidation processes. Neuropharmacology, 2021, 184, 108414.	4.1	9
4	Increased isoform-specific phosphodiesterase 4D expression is associated with pathology and cognitive impairment in Alzheimerâ€™s disease. Neurobiology of Aging, 2021, 97, 56-64.	3.1	15
5	The 5-HT1A receptor as a serotonergic target for neuroprotection in cerebral ischemia. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2021, 109, 110210.	4.8	9
6	Roflumilast protects against spatial memory impairments and exerts antiâ€inflammatory effects after transient global cerebral ischemia. European Journal of Neuroscience, 2021, 53, 1171-1188.	2.6	11
7	Pharmacological inhibition of phosphodiesterase 7 enhances consolidation processes of spatial memory. Neurobiology of Learning and Memory, 2021, 177, 107357.	1.9	8
8	PDE inhibition in distinct cell types to reclaim the balance of synaptic plasticity. Theranostics, 2021, 11, 2080-2097.	10.0	13
9	Protein kinase G phosphorylates the Alzheimer's diseaseâ€associated tau protein at distinct Ser/Thr sites. BioFactors, 2021, 47, 126-134.	5.4	5
10	The Molecular Biology of Phosphodiesterase 4 Enzymes as Pharmacological Targets: An Interplay of Isoforms, Conformational States, and Inhibitors. Pharmacological Reviews, 2021, 73, 1016-1049.	16.0	33
11	Positive effects of roflumilast on behavior, neuroinflammation, and white matter injury in mice with global cerebral ischemia. Behavioural Pharmacology, 2021, 32, 459-471.	1.7	6
12	Andrographolide blocks 50-kHz ultrasonic vocalizations, hyperlocomotion and oxidative stress in an animal model of mania. Journal of Psychiatric Research, 2021, 139, 91-98.	3.1	5
13	Facilitation of TRKB Activation by the Angiotensin II Receptor Type-2 (AT2R) Agonist C21. Pharmaceuticals, 2021, 14, 773.	3.8	3
14	Soluble Guanylate Cyclase Stimulator Vericiguat Enhances Long-Term Memory in Rats without Altering Cerebral Blood Volume. Biomedicines, 2021, 9, 1047.	3.2	10
15	DNA methylation regulates the expression of the negative transcriptional regulators ID2 and ID4 during OPC differentiation. Cellular and Molecular Life Sciences, 2021, 78, 6631-6644.	5.4	20
16	Pro-cognitive effect of upregulating cyclic guanosine monophosphate signalling during memory acquisition or early consolidation is mediated by increased AMPA receptor trafficking. Journal of Psychopharmacology, 2020, 34, 103-114.	4.0	12
17	Activation of 5-HT1A postsynaptic receptors by NLX-101 results in functional recovery and an increase in neuroplasticity in mice with brain ischemia. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2020, 99, 109832.	4.8	26
18	Sphingosine-1-Phosphate Receptor Modulators and Oligodendroglial Cells: Beyond Immunomodulation. International Journal of Molecular Sciences, 2020, 21, 7537.	4.1	23

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19	Pharmacological depletion of microglia and perivascular macrophages prevents vascular Cognitive Impairment in Ang II-induced Hypertension. Theranostics, 2020, 10, 9512-9527.	10.0	48
20	Persistence of the extinction of fear memory requires late-phase cAMP/PKA signaling in the infralimbic cortex. Neurobiology of Learning and Memory, 2020, 172, 107244.	1.9	14
21	Role of cyclic nucleotides and their downstream signaling cascades in memory function: Being at the right time at the right spot. Neuroscience and Biobehavioral Reviews, 2020, 113, 12-38.	6.1	36
22	Phosphodiesterase inhibitors roflumilast and vardenafil prevent sleep deprivationâ€induced deficits in spatial pattern separation. Synapse, 2020, 74, e22150.	1.2	9
23	Dietary plant stanol ester supplementation reduces peripheral symptoms in a mouse model of Niemann-Pick type C1 disease. Journal of Lipid Research, 2020, 61, 830-839.	4.2	5
24	Targeting Phosphodiesterasesâ€"Towards a Tailor-Made Approach in Multiple Sclerosis Treatment. Frontiers in Immunology, 2019, 10, 1727.	4.8	28
25	Phosphodiesterase Type 4 Inhibition in CNS Diseases. Trends in Pharmacological Sciences, 2019, 40, 971-985.	8.7	41
26	From OPC to Oligodendrocyte: An Epigenetic Journey. Cells, 2019, 8, 1236.	4.1	74
27	Acute treatment with the PDE4 inhibitor roflumilast improves verbal word memory in healthy old individuals: a double-blind placebo-controlled study. Neurobiology of Aging, 2019, 77, 37-43.	3.1	43
28	Validation of the xylazine/ketamine anesthesia test as a predictor of the emetic potential of pharmacological compounds in rats. Neuroscience Letters, 2019, 699, 41-46.	2.1	15
29	Antagonizing Î±7 nicotinic receptors with methyllycaconitine (MLA) potentiates receptor activity and memory acquisition. Cellular Signalling, 2019, 62, 109338.	3.6	21
30	Effects of DNA methyltransferase inhibition on pattern separation performance in mice. Neurobiology of Learning and Memory, 2019, 159, 6-15.	1.9	5
31	Gestational stress in mouse dams negatively affects gestation and postpartum hippocampal BDNF and P11 protein levels. Molecular and Cellular Neurosciences, 2018, 88, 292-299.	2.2	9
32	Acute stress negatively affects object recognition early memory consolidation and memory retrieval unrelated to state-dependency. Behavioural Brain Research, 2018, 345, 9-12.	2.2	11
33	Acute administration of roflumilast enhances sensory gating in healthy young humans in a randomized trial. Psychopharmacology, 2018, 235, 301-308.	3.1	12
34	Roflumilast promotes memory recovery and attenuates white matter injury in aged rats subjected to chronic cerebral hypoperfusion. Neuropharmacology, 2018, 138, 360-370.	4.1	37
35	Assessing spatial pattern separation in rodents using the object pattern separation task. Nature Protocols, 2018, 13, 1763-1792.	12.0	20
36	Hypertension-induced cognitive impairment: insights from prolonged angiotensin II infusion in mice. Hypertension Research, 2018, 41, 817-827.	2.7	36

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37	The effects of the soluble guanylate cyclase stimulator riociguat on memory performance in healthy volunteers with a biperiden-induced memory impairment. Psychopharmacology, 2018, 235, 2407-2416.	3.1	10
38	Pneumococcal Immunization Reduces Neurological and Hepatic Symptoms in a Mouse Model for Niemann-Pick Type C1 Disease. Frontiers in Immunology, 2018, 9, 3089.	4.8	8
39	Memory-enhancing effects of GEBR-32a, a new PDE4D inhibitor holding promise for the treatment of Alzheimerâ€™s disease. Scientific Reports, 2017, 7, 46320.	3.3	63
40	Earlyâ€postnatal iron deficiency impacts plasticity in the dorsal and ventral hippocampus in piglets. International Journal of Developmental Neuroscience, 2017, 59, 47-51.	1.6	11
41	From Age-Related Cognitive Decline to Alzheimerâ€™s Disease: A Translational Overview of the Potential Role for Phosphodiesterases. Advances in Neurobiology, 2017, 17, 135-168.	1.8	22
42	Investigational phosphodiesterase inhibitors in phase I and phase II clinical trials for Alzheimerâ€™s disease. Expert Opinion on Investigational Drugs, 2017, 26, 1033-1048.	4.1	128
43	The phosphodiesterase type 2 inhibitor BAY 60â€7550 reverses functional impairments induced by brain ischemia by decreasing hippocampal neurodegeneration and enhancing hippocampal neuronal plasticity. European Journal of Neuroscience, 2017, 45, 510-520.	2.6	21
44	Physiological and pathological processes of synaptic plasticity and memory in drug discovery: Do not forget the dose-response curve. European Journal of Pharmacology, 2017, 817, 59-70.	3.5	6
45	Fluoxetine Treatment Induces Seizure Behavior and Premature Death in APPswe/PS1dE9 Mice. Journal of Alzheimer's Disease, 2016, 51, 677-682.	2.6	13
46	Rolipram improves cognition, reduces anxiety- and despair-like behaviors and impacts hippocampal neuroplasticity after transient global cerebral ischemia. Neuroscience, 2016, 326, 69-83.	2.3	56
47	New insights into selective PDE4D inhibitors: 3-(Cyclopentyloxy)-4-methoxybenzaldehyde O-(2-(2,6-dimethylmorpholino)-2-oxoethyl) oxime (GEBR-7b) structural development and promising activities to restore memory impairment. European Journal of Medicinal Chemistry, 2016, 124, 82-102.	5.5	31
48	Preclinical profile of ITI-214, an inhibitor of phosphodiesterase 1, for enhancement of memory performance in rats. Psychopharmacology, 2016, 233, 3113-3124.	3.1	51
49	The PDE4 inhibitor roflumilast improves memory in rodents at non-emetic doses. Behavioural Brain Research, 2016, 303, 26-33.	2.2	94
50	TrkB in the hippocampus and nucleus accumbens differentially modulates depression-like behavior in mice. Behavioural Brain Research, 2016, 296, 15-25.	2.2	22
51	Differential susceptibility to chronic social defeat stress relates to the number of Dnmt3a-immunoreactive neurons in the hippocampal dentate gyrus. Psychoneuroendocrinology, 2015, 51, 547-556.	2.7	27
52	The use of EEG parameters as predictors of drug effects on cognition. European Journal of Pharmacology, 2015, 759, 163-168.	3.5	14
53	Defeat stress in rodents: From behavior to molecules. Neuroscience and Biobehavioral Reviews, 2015, 59, 111-140.	6.1	185
54	Treatment of Cognitive Impairment in Schizophrenia: Potential Value of Phosphodiesterase Inhibitors in Prefrontal Dysfunction. Current Pharmaceutical Design, 2015, 21, 3813-3828.	1.9	30

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55	Purinergic Signaling and Hippocampal Long-Term Potentiation. Current Neuropharmacology, 2014, 12, 37-43.	2.9	25
56	Translational Issues with the Development of Cognition Enhancing Drugs. Frontiers in Neurology, 2014, 5, 190.	2.4	8
57	Donepezil and the alpha-7 agonist PHA 568487, but not risperidone, ameliorate spatial memory deficits in a subchronic MK-801 mouse model of cognitive impairment in schizophrenia. Behavioural Brain Research, 2014, 272, 248-251.	2.2	19
58	Improved Long-Term Memory via Enhancing cGMP-PKG Signaling Requires cAMP-PKA Signaling. Neuropsychopharmacology, 2014, 39, 2497-2505.	5.4	90
59	Longâ€term effects of prenatal allopurinol treatment on brain plasticity markers in low and normal birth weight piglets. International Journal of Developmental Neuroscience, 2014, 33, 29-32.	1.6	7
60	PDE4D inhibitors: A potential strategy for the treatment of memory impairment?. Neuropharmacology, 2014, 85, 290-292.	4.1	10
61	PDE5 Inhibition Improves Object Memory in Standard Housed Rats but Not in Rats Housed in an Enriched Environment: Implications for Memory Models?. PLoS ONE, 2014, 9, e111692.	2.5	10
62	Inhibition of phoshodiesterase type 2 or type 10 reverses object memory deficits induced by scopolamine or MK-801. Behavioural Brain Research, 2013, 236, 16-22.	2.2	75
63	Object recognition testing: Statistical considerations. Behavioural Brain Research, 2012, 232, 317-322.	2.2	90
64	EVP-6124, a novel and selective Î±7 nicotinic acetylcholine receptor partial agonist, improves memory performance by potentiating the acetylcholine response of Î±7 nicotinic acetylcholine receptors. Neuropharmacology, 2012, 62, 1099-1110.	4.1	194
65	Phosphodiesterase type 5 (PDE5) inhibition improves object recognition memory: Indications for central and peripheral mechanisms. Neurobiology of Learning and Memory, 2012, 97, 370-379.	1.9	60
66	Object recognition testing: Methodological considerations on exploration and discrimination measures. Behavioural Brain Research, 2012, 232, 335-347.	2.2	160
67	Object recognition testing: Rodent species, strains, housing conditions, and estrous cycle. Behavioural Brain Research, 2012, 232, 323-334.	2.2	98
68	Differential BDNF Responses of Triple Versus Dual Reuptake Inhibition in Neuronal and Astrocytoma Cells as well as in Rat Hippocampus and Prefrontal Cortex. Journal of Molecular Neuroscience, 2012, 48, 167-175.	2.3	14
69	Liver X receptor activation restores memory in aged AD mice without reducing amyloid. Neurobiology of Aging, 2011, 32, 1262-1272.	3.1	118
70	Dissociable effects of acetylcholinesterase inhibitors and phosphodiesterase type 5 inhibitors on object recognition memory: acquisition versus consolidation. Psychopharmacology, 2005, 177, 381-390.	3.1	120
71	Phosphodiesterase type 5 inhibition improves early memory consolidation of object information. Neurochemistry International, 2004, 45, 915-928.	3.8	139
72	cGMP, but not cAMP, in rat hippocampus is involved in early stages of object memory consolidation. European Journal of Pharmacology, 2002, 436, 83-87.	3.5	120

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73	Local inhibition of hippocampal nitric oxide synthase does not impair place learning in the Morris water escape task in rats. European Journal of Neuroscience, 1999, 11, 223-232.	2.6	43
74	NOTCH blockade combined with radiation therapy and temozolomide prolongs survival of orthotopic glioblastoma. Oncotarget, 0, 7, 41251-41264.	1.8	65