

Ana Garcia-Osta

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

2,735
citations

27
h-index

52
g-index

52
ext. papers

3,084
ext. citations

6.5
avg, IF

4.83
L-index

#	Paper	IF	Citations
51	A critical role for IGF-II in memory consolidation and enhancement. <i>Nature</i> , 2011 , 469, 491-7	50.4	306
50	Phenylbutyrate ameliorates cognitive deficit and reduces tau pathology in an Alzheimer's disease mouse model. <i>Neuropsychopharmacology</i> , 2009 , 34, 1721-32	8.7	304
49	Phosphodiesterases as therapeutic targets for Alzheimer's disease. <i>ACS Chemical Neuroscience</i> , 2012 , 3, 832-44	5.7	180
48	Phenylbutyrate rescues dendritic spine loss associated with memory deficits in a mouse model of Alzheimer disease. <i>Hippocampus</i> , 2012 , 22, 1040-50	3.5	173
47	Rosiglitazone rescues memory impairment in Alzheimer's transgenic mice: mechanisms involving a reduced amyloid and tau pathology. <i>Neuropsychopharmacology</i> , 2010 , 35, 1593-604	8.7	167
46	Sildenafil restores cognitive function without affecting β amyloid burden in a mouse model of Alzheimer's disease. <i>British Journal of Pharmacology</i> , 2011 , 164, 2029-41	8.6	129
45	Amyloid beta mediates memory formation. <i>Learning and Memory</i> , 2009 , 16, 267-72	2.8	119
44	Tadalafil crosses the blood-brain barrier and reverses cognitive dysfunction in a mouse model of AD. <i>Neuropharmacology</i> , 2013 , 64, 114-23	5.5	109
43	Insulin-like growth factor 2 reverses memory and synaptic deficits in APP transgenic mice. <i>EMBO Molecular Medicine</i> , 2014 , 6, 1246-62	12	84
42	MuSK expressed in the brain mediates cholinergic responses, synaptic plasticity, and memory formation. <i>Journal of Neuroscience</i> , 2006 , 26, 7919-32	6.6	69
41	A First-in-Class Small-Molecule that Acts as a Dual Inhibitor of HDAC and PDE5 and that Rescues Hippocampal Synaptic Impairment in Alzheimer's Disease Mice. <i>Neuropsychopharmacology</i> , 2017 , 42, 524-539	8.7	65
40	Decreased levels of guanosine 3',5'-cyclic monophosphate (cGMP) in cerebrospinal fluid (CSF) are associated with cognitive decline and amyloid pathology in Alzheimer's disease. <i>Neuropathology and Applied Neurobiology</i> , 2015 , 41, 471-82	5.2	65
39	BDNF mediates the neuroprotective effect of PACAP-38 on rat cortical neurons. <i>NeuroReport</i> , 2001 , 12, 919-23	1.7	65
38	Sildenafil protects against 3-nitropropionic acid neurotoxicity through the modulation of calpain, CREB, and BDNF. <i>Neurobiology of Disease</i> , 2010 , 38, 237-45	7.5	60
37	Design, Synthesis, and Biological Evaluation of First-in-Class Dual Acting Histone Deacetylases (HDACs) and Phosphodiesterase 5 (PDE5) Inhibitors for the Treatment of Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 8967-9004	8.3	59
36	Phosphodiesterase-5 Inhibitors: Action on the Signaling Pathways of Neuroinflammation, Neurodegeneration, and Cognition. <i>Mediators of Inflammation</i> , 2015 , 2015, 940207	4.3	55
35	Chronic mild stress accelerates the onset and progression of the Alzheimer's disease phenotype in Tg2576 mice. <i>Journal of Alzheimer's Disease</i> , 2012 , 28, 567-78	4.3	44

34	Targeting RNA-Mediated Toxicity in C9orf72 ALS and/or FTD by RNAi-Based Gene Therapy. <i>Molecular Therapy - Nucleic Acids</i> , 2019 , 16, 26-37	10.7	43
33	Differential regulation by methylenedioxymethamphetamine of 5-hydroxytryptamine1A receptor density and mRNA expression in rat hippocampus, frontal cortex, and brainstem: the role of corticosteroids. <i>Journal of Neurochemistry</i> , 1997 , 68, 1099-105	6	42
32	Phenylbutyrate is a multifaceted drug that exerts neuroprotective effects and reverses the Alzheimer's disease-like phenotype of a commonly used mouse model. <i>Current Pharmaceutical Design</i> , 2013 , 19, 5076-84	3.3	42
31	Concomitant histone deacetylase and phosphodiesterase 5 inhibition synergistically prevents the disruption in synaptic plasticity and it reverses cognitive impairment in a mouse model of Alzheimer's disease. <i>Clinical Epigenetics</i> , 2015 , 7, 108	7.7	39
30	Disrupting the memory of places induced by drugs of abuse weakens motivational withdrawal in a context-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12345-50	11.5	38
29	Design, synthesis, biological evaluation and in vivo testing of dual phosphodiesterase 5 (PDE5) and histone deacetylase 6 (HDAC6)-selective inhibitors for the treatment of Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2018 , 150, 506-524	6.8	35
28	Chronic mild stress in mice promotes cognitive impairment and CDK5-dependent tau hyperphosphorylation. <i>Behavioural Brain Research</i> , 2011 , 220, 338-43	3.4	34
27	Pharmacokinetic investigation of sildenafil using positron emission tomography and determination of its effect on cerebrospinal fluid cGMP levels. <i>Journal of Neurochemistry</i> , 2016 , 136, 403-15	6	31
26	Dysregulated postsynaptic density and endocytic zone in the amygdala of human heroin and cocaine abusers. <i>Biological Psychiatry</i> , 2011 , 69, 245-52	7.9	30
25	Facilitation by 8-OH-DPAT of passive avoidance performance in rats after inactivation of 5-HT(1A) receptors. <i>British Journal of Pharmacology</i> , 1999 , 128, 1691-8	8.6	28
24	Impact of Scaffold Exploration on Novel Dual-Acting Histone Deacetylases and Phosphodiesterase 5 Inhibitors for the Treatment of Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 638-661	5.7	26
23	Epigenetic drugs in Alzheimer's disease. <i>Biomolecular Concepts</i> , 2013 , 4, 433-45	3.7	26
22	Long-term phenylbutyrate administration prevents memory deficits in Tg2576 mice by decreasing Abeta. <i>Frontiers in Bioscience - Elite</i> , 2011 , 3, 1375-84	1.6	23
21	Taking Advantage of the Selectivity of Histone Deacetylases and Phosphodiesterase Inhibitors to Design Better Therapeutic Strategies to Treat Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 149	5.3	21
20	Phosphodiesterase inhibition in cognitive decline. <i>Journal of Alzheimer's Disease</i> , 2014 , 42 Suppl 4, S561-73	7.3	21
19	Current animal models of Alzheimer's disease: challenges in translational research. <i>Frontiers in Neurology</i> , 2014 , 5, 182	4.1	20
18	Defining the mechanism of action of 4-phenylbutyrate to develop a small-molecule-based therapy for Alzheimer's disease. <i>Current Medicinal Chemistry</i> , 2011 , 18, 5545-53	4.3	20
17	Increased CRE-binding activity and tryptophan hydroxylase mRNA expression induced by 3,4-methylenedioxymethamphetamine (MDMA, "ecstasy") in the rat frontal cortex but not in the hippocampus. <i>Molecular Brain Research</i> , 2004 , 126, 181-7		20

16	Multitarget Approach for the Treatment of Alzheimer's Disease: Inhibition of Phosphodiesterase 9 (PDE9) and Histone Deacetylases (HDACs) Covering Diverse Selectivity Profiles. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 4076-4101	5.7	18
15	Discovery of in Vivo Chemical Probes for Treating Alzheimer's Disease: Dual Phosphodiesterase 5 (PDE5) and Class I Histone Deacetylase Selective Inhibitors. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 1765-1782	5.7	18
14	Implanted BDNF-producing fibroblasts prevent neurotoxin-induced serotonergic denervation in the rat striatum. <i>Molecular Brain Research</i> , 2000 , 76, 306-14		16
13	Synthesis and evaluation of (13)N-labelled azo compounds for amyloid imaging in mice. <i>Molecular Imaging and Biology</i> , 2014 , 16, 538-49	3.8	14
12	The aberrant splicing of BAF45d links splicing regulation and transcription in glioblastoma. <i>Neuro-Oncology</i> , 2018 , 20, 930-941	1	13
11	Immunomodulatory Properties of Carvone Inhalation and Its Effects on Contextual Fear Memory in Mice. <i>Frontiers in Immunology</i> , 2018 , 9, 68	8.4	11
10	Chronic Mild Stress Assay Leading to Early Onset and Propagation of Alzheimer's Disease Phenotype in Mouse Models. <i>Methods in Molecular Biology</i> , 2016 , 1303, 241-6	1.4	10
9	PLA2G4E, a candidate gene for resilience in Alzheimer's disease and a new target for dementia treatment. <i>Progress in Neurobiology</i> , 2020 , 191, 101818	10.9	9
8	GLUT12 Expression in Brain of Mouse Models of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2020 , 57, 798-805	6.2	8
7	Effect of p-chloroamphetamine on 5-HT1A and 5-HT7 serotonin receptor expression in rat brain. <i>Journal of Neurochemistry</i> , 2000 , 74, 1790-7	6	7
6	Impact of Neurodegenerative Diseases on Drug Binding to Brain Tissues: From Animal Models to Human Samples. <i>Neurotherapeutics</i> , 2018 , 15, 742-750	6.4	5
5	Advanced Assay Monitoring APP-Carboxyl-Terminal Fragments as Markers of APP Processing in Alzheimer Disease Mouse Models. <i>Methods in Molecular Biology</i> , 2016 , 1303, 117-23	1.4	5
4	Reduced basal and phencyclidine-induced expression of heat shock protein-70 in rat prefrontal cortex by the atypical antipsychotic abaperidone. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2003 , 27, 31-6	5.5	5
3	Amyloid-Driven Tau Accumulation on Mitochondria Potentially Leads to Cognitive Deterioration in Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
2	Identifying the Main Functional Pathways Associated with Cognitive Resilience to Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
1	Linking histone deacetylases and phosphodiesterase 5 in novel treatments for Alzheimer's disease 2020 , 213-226		