

Ottavio Arancio

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172
papers

18,005
citations

63
h-index

133
g-index

190
ext. papers

20,259
ext. citations

9.2
avg, IF

6.2
L-index

#	Paper	IF	Citations
172	Requirement of hippocampal neurogenesis for the behavioral effects of antidepressants. <i>Science</i> , 2003 , 301, 805-9	33.3	3427
171	ABAD directly links Abeta to mitochondrial toxicity in Alzheimer's disease. <i>Science</i> , 2004 , 304, 448-52	33.3	1008
170	Cyclophilin D deficiency attenuates mitochondrial and neuronal perturbation and ameliorates learning and memory in Alzheimer's disease. <i>Nature Medicine</i> , 2008 , 14, 1097-105	50.5	707
169	Loss of mTOR-dependent macroautophagy causes autistic-like synaptic pruning deficits. <i>Neuron</i> , 2014 , 83, 1131-43	13.9	616
168	Picomolar amyloid-beta positively modulates synaptic plasticity and memory in hippocampus. <i>Journal of Neuroscience</i> , 2008 , 28, 14537-45	6.6	533
167	Amyloid beta -peptide inhibition of the PKA/CREB pathway and long-term potentiation: reversibility by drugs that enhance cAMP signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 13217-21	11.5	426
166	Learning and memory and synaptic plasticity are impaired in a mouse model of Rett syndrome. <i>Journal of Neuroscience</i> , 2006 , 26, 319-27	6.6	417
165	Nitric oxide acts directly in the presynaptic neuron to produce long-term potentiation in cultured hippocampal neurons. <i>Cell</i> , 1996 , 87, 1025-35	56.2	339
164	Ubiquitin hydrolase Uch-L1 rescues beta-amyloid-induced decreases in synaptic function and contextual memory. <i>Cell</i> , 2006 , 126, 775-88	56.2	338
163	Persistent improvement in synaptic and cognitive functions in an Alzheimer mouse model after rolipram treatment. <i>Journal of Clinical Investigation</i> , 2004 , 114, 1624-34	15.9	330
162	Progressive age-related development of Alzheimer-like pathology in APP/PS1 mice. <i>Annals of Neurology</i> , 2004 , 55, 801-14	9.4	280
161	Exercise-linked FNDC5/irisin rescues synaptic plasticity and memory defects in Alzheimer's models. <i>Nature Medicine</i> , 2019 , 25, 165-175	50.5	279
160	RAGE potentiates Abeta-induced perturbation of neuronal function in transgenic mice. <i>EMBO Journal</i> , 2004 , 23, 4096-105	13	274
159	Phosphodiesterase 5 inhibition improves synaptic function, memory, and amyloid-beta load in an Alzheimer's disease mouse model. <i>Journal of Neuroscience</i> , 2009 , 29, 8075-86	6.6	242
158	Dysregulation of histone acetylation in the APP/PS1 mouse model of Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2009 , 18, 131-9	4.3	218
157	Nitric oxide as a retrograde messenger during long-term potentiation in hippocampus. <i>Progress in Brain Research</i> , 1998 , 118, 155-72	2.9	218
156	Endogenous amyloid- β s necessary for hippocampal synaptic plasticity and memory. <i>Annals of Neurology</i> , 2011 , 69, 819-30	9.4	200

155	Retromer deficiency observed in Alzheimer's disease causes hippocampal dysfunction, neurodegeneration, and Abeta accumulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7327-32	11.5	200
154	Amyloid-beta peptide inhibits activation of the nitric oxide/cGMP/cAMP-responsive element-binding protein pathway during hippocampal synaptic plasticity. <i>Journal of Neuroscience</i> , 2005 , 25, 6887-97	6.6	196
153	ABAD enhances Abeta-induced cell stress via mitochondrial dysfunction. <i>FASEB Journal</i> , 2005 , 19, 597-8	0.9	192
152	A neuronal microtubule-interacting agent, NAPVSIPQ, reduces tau pathology and enhances cognitive function in a mouse model of Alzheimer's disease. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 325, 146-53	4.7	190
151	Reversal of long-term dendritic spine alterations in Alzheimer disease models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16877-82	11.5	181
150	Receptor for advanced glycation end product-dependent activation of p38 mitogen-activated protein kinase contributes to amyloid-beta-mediated cortical synaptic dysfunction. <i>Journal of Neuroscience</i> , 2008 , 28, 3521-30	6.6	169
149	Inhibition of calpains improves memory and synaptic transmission in a mouse model of Alzheimer disease. <i>Journal of Clinical Investigation</i> , 2008 , 118, 2796-807	15.9	160
148	Oligomeric amyloid-beta peptide disrupts phosphatidylinositol-4,5-bisphosphate metabolism. <i>Nature Neuroscience</i> , 2008 , 11, 547-54	25.5	156
147	A GluR1-cGKII interaction regulates AMPA receptor trafficking. <i>Neuron</i> , 2007 , 56, 670-88	13.9	151
146	alpha-Synuclein produces a long-lasting increase in neurotransmitter release. <i>EMBO Journal</i> , 2004 , 23, 4506-16	13	151
145	Presynaptic role of cGMP-dependent protein kinase during long-lasting potentiation. <i>Journal of Neuroscience</i> , 2001 , 21, 143-9	6.6	148
144	Rapid increase in clusters of presynaptic proteins at onset of long-lasting potentiation. <i>Science</i> , 2001 , 294, 1547-50	33.3	147
143	Neurotrophins, synaptic plasticity and dementia. <i>Current Opinion in Neurobiology</i> , 2007 , 17, 325-30	7.6	142
142	Phospholipase d2 ablation ameliorates Alzheimer's disease-linked synaptic dysfunction and cognitive deficits. <i>Journal of Neuroscience</i> , 2010 , 30, 16419-28	6.6	140
141	FoxO1 target Gpr17 activates AgRP neurons to regulate food intake. <i>Cell</i> , 2012 , 149, 1314-26	56.2	139
140	Inhibition of amyloid-beta (Abeta) peptide-binding alcohol dehydrogenase-Abeta interaction reduces Abeta accumulation and improves mitochondrial function in a mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2011 , 31, 2313-20	6.6	139
139	Synaptojanin 1-linked phosphoinositide dyshomeostasis and cognitive deficits in mouse models of Down's syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 9415-20	11.5	133
138	Rodent models for Alzheimer's disease drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2015 , 10, 703-16.2		129

137	RAGE: a potential target for Abeta-mediated cellular perturbation in Alzheimer's disease. <i>Current Molecular Medicine</i> , 2007 , 7, 735-42	2.5	123
136	Characterization and molecular profiling of PSEN1 familial Alzheimer's disease iPSC-derived neural progenitors. <i>PLoS ONE</i> , 2014 , 9, e84547	3.7	120
135	Behavioral assays with mouse models of Alzheimer's disease: practical considerations and guidelines. <i>Biochemical Pharmacology</i> , 2014 , 88, 450-67	6	119
134	Alzheimer's therapeutics targeting amyloid beta 1-42 oligomers II: Sigma-2/PGRMC1 receptors mediate Abeta 42 oligomer binding and synaptotoxicity. <i>PLoS ONE</i> , 2014 , 9, e111899	3.7	115
133	Calpain mediates calcium-induced activation of the erk1,2 MAPK pathway and cytoskeletal phosphorylation in neurons: relevance to Alzheimer's disease. <i>American Journal of Pathology</i> , 2004 , 165, 795-805	5.8	112
132	BDNF-mediated neurotransmission relies upon a myosin VI motor complex. <i>Nature Neuroscience</i> , 2006 , 9, 1009-18	25.5	109
131	Presynaptic CaMKII is necessary for synaptic plasticity in cultured hippocampal neurons. <i>Neuron</i> , 2004 , 42, 129-41	13.9	105
130	But not B-secretase proteolysis of APP causes synaptic and memory deficits in a mouse model of dementia. <i>EMBO Molecular Medicine</i> , 2012 , 4, 171-9	12	103
129	Role of leaky neuronal ryanodine receptors in stress-induced cognitive dysfunction. <i>Cell</i> , 2012 , 150, 1055-67	5.6	100
128	Small molecule, non-peptide p75 ligands inhibit Abeta-induced neurodegeneration and synaptic impairment. <i>PLoS ONE</i> , 2008 , 3, e3604	3.7	100
127	Mitochondrial dysfunction and mitophagy defect triggered by heterozygous GBA mutations. <i>Autophagy</i> , 2019 , 15, 113-130	10.2	94
126	Synaptic therapy in Alzheimer's disease: a CREB-centric approach. <i>Neurotherapeutics</i> , 2015 , 12, 29-41	6.4	89
125	Alzheimer's therapeutics targeting amyloid beta 1-42 oligomers I: Abeta 42 oligomer binding to specific neuronal receptors is displaced by drug candidates that improve cognitive deficits. <i>PLoS ONE</i> , 2014 , 9, e111898	3.7	89
124	Small molecule p75NTR ligand prevents cognitive deficits and neurite degeneration in an Alzheimer's mouse model. <i>Neurobiology of Aging</i> , 2013 , 34, 2052-63	5.6	87
123	A transgenic rat that develops Alzheimer's disease-like amyloid pathology, deficits in synaptic plasticity and cognitive impairment. <i>Neurobiology of Disease</i> , 2008 , 31, 46-57	7.5	84
122	Acute ethanol suppresses glutamatergic neurotransmission through endocannabinoids in hippocampal neurons. <i>Journal of Neurochemistry</i> , 2008 , 107, 1001-13	6	83
121	LTP and memory impairment caused by extracellular Aβ and Tau oligomers is APP-dependent. <i>ELife</i> , 2017 , 6,	8.9	81
120	Post-translational remodeling of ryanodine receptor induces calcium leak leading to Alzheimer's disease-like pathologies and cognitive deficits. <i>Acta Neuropathologica</i> , 2017 , 134, 749-767	14.3	80

119	Amyloid- β peptide: Dr. Jekyll or Mr. Hyde?. <i>Journal of Alzheimer's Disease</i> , 2013 , 33 Suppl 1, S111-20	4.3	78
118	Microglial receptor for advanced glycation end product-dependent signal pathway drives beta-amyloid-induced synaptic depression and long-term depression impairment in entorhinal cortex. <i>Journal of Neuroscience</i> , 2010 , 30, 11414-25	6.6	78
117	A time course analysis of the electrophysiological properties of neurons differentiated from human induced pluripotent stem cells (iPSCs). <i>PLoS ONE</i> , 2014 , 9, e103418	3.7	77
116	Is the amyloid hypothesis of Alzheimer's disease therapeutically relevant?. <i>Biochemical Journal</i> , 2012 , 446, 165-77	3.8	75
115	CRISPR/Cas9-Correctable mutation-related molecular and physiological phenotypes in iPSC-derived Alzheimer's PSEN2 neurons. <i>Acta Neuropathologica Communications</i> , 2017 , 5, 77	7.3	73
114	Synthesis of quinoline derivatives: discovery of a potent and selective phosphodiesterase 5 inhibitor for the treatment of Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2013 , 60, 285-94	6.8	73
113	Role of phosphodiesterase 5 in synaptic plasticity and memory. <i>Neuropsychiatric Disease and Treatment</i> , 2008 , 4, 371-87	3.1	68
112	Receptor protein tyrosine phosphatase alpha is essential for hippocampal neuronal migration and long-term potentiation. <i>EMBO Journal</i> , 2003 , 22, 4121-31	13	67
111	Effect of phosphodiesterase-5 inhibition on apoptosis and beta amyloid load in aged mice. <i>Neurobiology of Aging</i> , 2014 , 35, 520-31	5.6	66
110	Glutaminase-deficient mice display hippocampal hypoactivity, insensitivity to pro-psychotic drugs and potentiated latent inhibition: relevance to schizophrenia. <i>Neuropsychopharmacology</i> , 2009 , 34, 2305-22	8.7	65
109	Mitophagy Failure in Fibroblasts and iPSC-Derived Neurons of Alzheimer's Disease-Associated Presenilin 1 Mutation. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 291	6.1	62
108	Furoxans (1,2,5-oxadiazole-N-oxides) as novel NO mimetic neuroprotective and procognitive agents. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 3076-87	8.3	60
107	Caspase-2 is required for dendritic spine and behavioural alterations in J20 APP transgenic mice. <i>Nature Communications</i> , 2013 , 4, 1939	17.4	60
106	The Specific Role of cGMP in Hippocampal LTP. <i>Learning and Memory</i> , 1998 , 5, 231-245	2.8	60
105	Increased neuronal PreP activity reduces A β accumulation, attenuates neuroinflammation and improves mitochondrial and synaptic function in Alzheimer disease's mouse model. <i>Human Molecular Genetics</i> , 2015 , 24, 5198-210	5.6	58
104	Regulation of synaptic plasticity and cognition by SUMO in normal physiology and Alzheimer's disease. <i>Scientific Reports</i> , 2014 , 4, 7190	4.9	58
103	SUMO and Alzheimer's disease. <i>NeuroMolecular Medicine</i> , 2013 , 15, 720-36	4.6	56
102	Reduced gliotransmitter release from astrocytes mediates tau-induced synaptic dysfunction in cultured hippocampal neurons. <i>Glia</i> , 2017 , 65, 1302-1316	9	54

101	Reduction of synaptojanin 1 ameliorates synaptic and behavioral impairments in a mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2012 , 32, 15271-6	6.6	53
100	A role for tau in learning, memory and synaptic plasticity. <i>Scientific Reports</i> , 2018 , 8, 3184	4.9	52
99	Targeting human central nervous system protein kinases: An isoform selective p38MAPK inhibitor that attenuates disease progression in Alzheimer's disease mouse models. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 666-80	5.7	52
98	A β -42 monomers or oligomers have different effects on autophagy and apoptosis. <i>Autophagy</i> , 2014 , 10, 1827-43	10.2	52
97	Calpain inhibitors, a treatment for Alzheimer's disease: position paper. <i>Journal of Molecular Neuroscience</i> , 2003 , 20, 357-62	3.3	52
96	Endocannabinoid system: emerging role from neurodevelopment to neurodegeneration. <i>Mini-Reviews in Medicinal Chemistry</i> , 2009 , 9, 448-62	3.2	51
95	Danish dementia mice suggest that loss of function and not the amyloid cascade causes synaptic plasticity and memory deficits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 20822-7	11.5	50
94	Development of Novel In Vivo Chemical Probes to Address CNS Protein Kinase Involvement in Synaptic Dysfunction. <i>PLoS ONE</i> , 2013 , 8, e66226	3.7	49
93	MAPK, beta-amyloid and synaptic dysfunction: the role of RAGE. <i>Expert Review of Neurotherapeutics</i> , 2009 , 9, 1635-45	4.3	48
92	Calpain inhibitors: a treatment for Alzheimer's disease. <i>Journal of Molecular Neuroscience</i> , 2002 , 19, 135-43	3.3	47
91	Role of Amyloid- β and Tau Proteins in Alzheimer's Disease: Confuting the Amyloid Cascade. <i>Journal of Alzheimer's Disease</i> , 2018 , 64, S611-S631	4.3	45
90	Memory deficits due to familial British dementia BRI2 mutation are caused by loss of BRI2 function rather than amyloidosis. <i>Journal of Neuroscience</i> , 2010 , 30, 14915-24	6.6	44
89	Neuromodulatory Action of Picomolar Extracellular A β 2 Oligomers on Presynaptic and Postsynaptic Mechanisms Underlying Synaptic Function and Memory. <i>Journal of Neuroscience</i> , 2019 , 39, 5986-6000	6.6	43
88	Picomolar amyloid- β peptides enhance spontaneous astrocyte calcium transients. <i>Journal of Alzheimer's Disease</i> , 2014 , 38, 49-62	4.3	43
87	SUMO1 Affects Synaptic Function, Spine Density and Memory. <i>Scientific Reports</i> , 2015 , 5, 10730	4.9	42
86	APP heterozygosity averts memory deficit in knockin mice expressing the Danish dementia BRI2 mutant. <i>EMBO Journal</i> , 2011 , 30, 2501-9	13	42
85	Involvement of the nitric oxide pathway in synaptic dysfunction following amyloid elevation in Alzheimer's disease. <i>Reviews in the Neurosciences</i> , 2006 , 17, 497-523	4.7	42
84	Time Course and Size of Blood-Brain Barrier Opening in a Mouse Model of Blast-Induced Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2016 , 33, 1202-11	5.4	41

83	Memory-enhancing effects of GEBR-32a, a new PDE4D inhibitor holding promise for the treatment of Alzheimer's disease. <i>Scientific Reports</i> , 2017 , 7, 46320	4.9	41
82	Abeta-dependent Inhibition of LTP in different intracortical circuits of the visual cortex: the role of RAGE. <i>Journal of Alzheimer's Disease</i> , 2009 , 17, 59-68	4.3	41
81	RAGE inhibition in microglia prevents ischemia-dependent synaptic dysfunction in an amyloid-enriched environment. <i>Journal of Neuroscience</i> , 2014 , 34, 8749-60	6.6	39
80	Amyloid- β Peptide Is Needed for cGMP-Induced Long-Term Potentiation and Memory. <i>Journal of Neuroscience</i> , 2017 , 37, 6926-6937	6.6	38
79	RAGE mediates A β accumulation in a mouse model of Alzheimer's disease via modulation of β and β secretase activity. <i>Human Molecular Genetics</i> , 2018 , 27, 1002-1014	5.6	35
78	Time-dependent reversal of synaptic plasticity induced by physiological concentrations of oligomeric A β 2: an early index of Alzheimer's disease. <i>Scientific Reports</i> , 2016 , 6, 32553	4.9	35
77	PP2A methylation controls sensitivity and resistance to β amyloid-induced cognitive and electrophysiological impairments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3347-52	11.5	34
76	Notoginsenoside R1 increases neuronal excitability and ameliorates synaptic and memory dysfunction following amyloid elevation. <i>Scientific Reports</i> , 2014 , 4, 6352	4.9	34
75	Preparation of oligomeric beta-amyloid 1-42 and induction of synaptic plasticity impairment on hippocampal slices. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	33
74	Identification of a Novel 1,2,3,4-Tetrahydrobenzo[b][1,6]naphthyridine Analogue as a Potent Phosphodiesterase 5 Inhibitor with Improved Aqueous Solubility for the Treatment of Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 8858-8875	8.3	32
73	The effect of amyloid- β peptide on synaptic plasticity and memory is influenced by different isoforms, concentrations, and aggregation status. <i>Neurobiology of Aging</i> , 2018 , 71, 51-60	5.6	32
72	Network compensation of cyclic GMP-dependent protein kinase II knockout in the hippocampus by Ca ²⁺ -permeable AMPA receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3122-7	11.5	30
71	Protection against beta-amyloid induced abnormal synaptic function and cell death by Ginkgolide J. <i>Neurobiology of Aging</i> , 2009 , 30, 257-65	5.6	30
70	A reliable way to detect endogenous murine β amyloid. <i>PLoS ONE</i> , 2013 , 8, e55647	3.7	29
69	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. <i>European Journal of Medicinal Chemistry</i> , 2016 , 124, 82-102	6.8	27
68	The ARMS/Kidins220 scaffold protein modulates synaptic transmission. <i>Molecular and Cellular Neurosciences</i> , 2010 , 45, 92-100	4.8	27
67	Alpha-synuclein involvement in hippocampal synaptic plasticity: role of NO, cGMP, cGK and CaMKII. <i>European Journal of Neuroscience</i> , 2007 , 25, 3583-96	3.5	27
66	Beta-amyloid 1-42 monomers, but not oligomers, produce PHF-like conformation of Tau protein. <i>Aging Cell</i> , 2016 , 15, 914-23	9.9	26

65	Glut4 expression defines an insulin-sensitive hypothalamic neuronal population. <i>Molecular Metabolism</i> , 2014 , 3, 452-9	8.8	26
64	A selective role for ARMS/Kidins220 scaffold protein in spatial memory and trophic support of entorhinal and frontal cortical neurons. <i>Experimental Neurology</i> , 2011 , 229, 409-20	5.7	26
63	Isolation and characterization of "Reprotoxin", a novel protein complex from Daboia russelii snake venom. <i>Biochimie</i> , 2008 , 90, 1545-59	4.6	26
62	PDE5 Exists in Human Neurons and is a Viable Therapeutic Target for Neurologic Disease. <i>Journal of Alzheimer's Disease</i> , 2016 , 52, 295-302	4.3	26
61	Synaptic and memory dysfunction induced by tau oligomers is rescued by up-regulation of the nitric oxide cascade. <i>Molecular Neurodegeneration</i> , 2019 , 14, 26	19	25
60	Involvement of p38 MAPK in Synaptic Function and Dysfunction. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	25
59	Development of novel phosphodiesterase 5 inhibitors for the therapy of Alzheimer's disease. <i>Biochemical Pharmacology</i> , 2020 , 176, 113818	6	24
58	Design, synthesis, and optimization of novel epoxide incorporating peptidomimetics as selective calpain inhibitors. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 6054-68	8.3	24
57	Oligomers of beta-amyloid peptide inhibit BDNF-induced arc expression in cultured cortical Neurons. <i>Current Alzheimer Research</i> , 2007 , 4, 518-21	3	24
56	EcoHIV infection of mice establishes latent viral reservoirs in T cells and active viral reservoirs in macrophages that are sufficient for induction of neurocognitive impairment. <i>PLoS Pathogens</i> , 2018 , 14, e1007061	7.6	24
55	Dynamin 1 is required for memory formation. <i>PLoS ONE</i> , 2014 , 9, e91954	3.7	23
54	Translational inhibition of APP by Posiphen: Efficacy, pharmacodynamics, and pharmacokinetics in the APP/PS1 mouse. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2018 , 4, 37-45	6	22
53	A multifunctional therapeutic approach to disease modification in multiple familial mouse models and a novel sporadic model of Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2016 , 11, 35	19	22
52	Fibrillar beta-amyloid impairs the late phase of long term potentiation. <i>Current Alzheimer Research</i> , 2006 , 3, 179-83	3	22
51	A novel mechanism for cyclic adenosine monophosphate-mediated memory formation: Role of amyloid beta. <i>Annals of Neurology</i> , 2014 , 75, 602-7	9.4	21
50	Synaptic fatigue is more pronounced in the APP/PS1 transgenic mouse model of Alzheimer's disease. <i>Current Alzheimer Research</i> , 2005 , 2, 137-40	3	21
49	Novel Selective Calpain 1 Inhibitors as Potential Therapeutics in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016 , 49, 707-21	4.3	20
48	Design and synthesis of neuroprotective methylthiazoles and modification as NO-chimeras for neurodegenerative therapy. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 6784-801	8.3	20

47	Sub-eficacious doses of phosphodiesterase 4 and 5 inhibitors improve memory in a mouse model of Alzheimer's disease. <i>Neuropharmacology</i> , 2018 , 138, 151-159	5.5	19
46	Early presynaptic changes during plasticity in cultured hippocampal neurons. <i>EMBO Journal</i> , 2006 , 25, 4361-71	13	19
45	Reducing the Levels of Akt Activation by PDK1 Knock-in Mutation Protects Neuronal Cultures against Synthetic Amyloid-Beta Peptides. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 435	5.3	18
44	The schizophrenia susceptibility gene DTNBP1 modulates AMPAR synaptic transmission and plasticity in the hippocampus of juvenile DBA/2J mice. <i>Molecular and Cellular Neurosciences</i> , 2014 , 58, 76-84	4.8	18
43	Synaptic underpinnings of altered hippocampal function in glutaminase-deficient mice during maturation. <i>Hippocampus</i> , 2012 , 22, 1027-39	3.5	16
42	The ankyrin repeat-rich membrane spanning (ARMS)/Kidins220 scaffold protein is regulated by activity-dependent calpain proteolysis and modulates synaptic plasticity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 40472-8	5.4	16
41	An intracellular threonine of amyloid- β precursor protein mediates synaptic plasticity deficits and memory loss. <i>PLoS ONE</i> , 2013 , 8, e57120	3.7	16
40	SUMO1 impact on Alzheimer disease pathology in an amyloid-depositing mouse model. <i>Neurobiology of Disease</i> , 2018 , 110, 154-165	7.5	15
39	A Selective and Brain Penetrant p38MAPK Inhibitor Candidate for Neurologic and Neuropsychiatric Disorders That Attenuates Neuroinflammation and Cognitive Dysfunction. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 5298-5311	8.3	14
38	Acute vitreoretinal trauma and inflammation after traumatic brain injury in mice. <i>Annals of Clinical and Translational Neurology</i> , 2018 , 5, 240-251	5.3	14
37	Loss of mTOR-Dependent Macroautophagy Causes Autistic-like Synaptic Pruning Deficits. <i>Neuron</i> , 2014 , 83, 1482	13.9	14
36	5-HT β receptor stimulation leads to soluble A β production through MMP-9 upregulation. <i>Journal of Alzheimer's Disease</i> , 2012 , 32, 437-45	4.3	14
35	A role for cGMP-dependent protein kinase II in AMPA receptor trafficking and synaptic plasticity. <i>Channels</i> , 2008 , 2, 230-2	3	14
34	Usefulness of behavioral and electrophysiological studies in transgenic models of Alzheimer's disease. <i>Neurochemical Research</i> , 2003 , 28, 1009-15	4.6	14
33	Tau is not necessary for amyloid- β induced synaptic and memory impairments. <i>Journal of Clinical Investigation</i> , 2020 , 130, 4831-4844	15.9	14
32	Characterization of a subpopulation of developing cortical interneurons from human iPSCs within serum-free embryoid bodies. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 308, C209-19	5.4	13
31	Caspase-9 mediates synaptic plasticity and memory deficits of Danish dementia knock-in mice: caspase-9 inhibition provides therapeutic protection. <i>Molecular Neurodegeneration</i> , 2012 , 7, 60	19	13
30	Cell cultures from animal models of Alzheimer's disease as a tool for faster screening and testing of drug efficacy. <i>Journal of Molecular Neuroscience</i> , 2004 , 24, 15-21	3.3	13

29	Fibrillatory activity and other membrane changes in partially denervated muscles. <i>Muscle and Nerve</i> , 1989 , 12, 149-53	3.4	13
28	Creation and characterization of BAC-transgenic mice with physiological overexpression of epitope-tagged RCAN1 (DSCR1). <i>Mammalian Genome</i> , 2013 , 24, 30-43	3.2	12
27	Re-engineering a neuroprotective, clinical drug as a procognitive agent with high in vivo potency and with GABAA potentiating activity for use in dementia. <i>BMC Neuroscience</i> , 2015 , 16, 67	3.2	12
26	Connectivity and circuitry in a dish versus in a brain. <i>Alzheimer's Research and Therapy</i> , 2015 , 7, 44	9	11
25	Efficient Expression of HIV in Immunocompetent Mouse Brain Reveals a Novel Nonneurotoxic Viral Function in Hippocampal Synaptodendritic Injury and Memory Impairment. <i>MBio</i> , 2019 , 10,	7.8	11
24	Dual Mechanism of Toxicity for Extracellular Injection of Tau Oligomers versus Monomers in Human Tau Mice. <i>Journal of Alzheimer's Disease</i> , 2017 , 59, 743-751	4.3	11
23	An isoform-selective p38 mitogen-activated protein kinase inhibitor rescues early entorhinal cortex dysfunctions in a mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2018 , 70, 86-91	5.6	11
22	PIP2: a new key player in Alzheimer's disease. <i>Cellscience</i> , 2008 , 5, 44-47		10
21	Stem Cell Therapy for Alzheimer's Disease. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1266, 39-55	3.6	9
20	Electrophysiological profiles of induced neurons converted directly from adult human fibroblasts indicate incomplete neuronal conversion. <i>Cellular Reprogramming</i> , 2014 , 16, 439-46	2.1	8
19	Eicosanoyl-5-hydroxytryptamide (EHT) prevents Alzheimer's disease-related cognitive and electrophysiological impairments in mice exposed to elevated concentrations of oligomeric beta-amyloid. <i>PLoS ONE</i> , 2017 , 12, e0189413	3.7	8
18	SUMO modulation of protein aggregation and degradation. <i>AIMS Molecular Science</i> , 2015 , 2, 382-410	0.9	8
17	Commentary: Analysis of SUMO1-conjugation at synapses. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 345	6.1	7
16	Molecular Mechanisms of Learning and Memory 2016 , 1-27		4
15	Genetic deletion of α 7 nicotinic acetylcholine receptors induces an age-dependent Alzheimer's disease-like pathology. <i>Progress in Neurobiology</i> , 2021 , 206, 102154	10.9	4
14	Estimation of the mean from sums with unknown numbers of summands. <i>Biometrics</i> , 2006 , 62, 918-20	1.8	2
13	Transitory L-carnitine depletion in rat skeletal muscle by D-carnitine. <i>Pharmacological Research</i> , 1989 , 21, 163-8	10.2	2
12	Reduced Expression of the PP2A Methyltransferase, PME-1, or the PP2A Methyltransferase, LCMT-1, Alters Sensitivity to Beta-Amyloid-Induced Cognitive and Electrophysiological Impairments in Mice. <i>Journal of Neuroscience</i> , 2020 , 40, 4596-4608	6.6	1

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9	A role for cGMP-dependent protein kinase II in AMPA receptor trafficking and synaptic plasticity. <i>BMC Pharmacology</i> , 2009 , 9, S44		1
8	Development of First-in-Class Histone Acetyltransferase (HAT) Activators for Precision Targeting of Epigenetic Derangements in Lymphoma. <i>Blood</i> , 2018 , 132, 37-37	2.2	1
7	The penalty of stress - Epichaperones negatively reshaping the brain in neurodegenerative disorders. <i>Journal of Neurochemistry</i> , 2021 , 159, 958	6	1
6	Strategy for Overcoming Crebbp and EP300 Mutations in Lymphoma: Development of First-in-Class HAT Activators. <i>Blood</i> , 2019 , 134, 4068-4068	2.2	1
5	ECSIT prevents Alzheimer's disease pathology by regulating neuronal mitochondrial ROS and mitophagy		1
4	What Does the APP Family Do in the Brain?. <i>Neuron</i> , 2020 , 108, 583-585	13.9	1
3	Leucine Carboxyl Methyltransferase 1 Overexpression Protects Against Cognitive and Electrophysiological Impairments in Tg2576 APP Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2021 , 79, 1813-1829	4.3	1
2	Histone Acetyltransferase (HAT) Activator, YF2, Modulates the p53:BCL6 Axis and Antigen Presentation in Diffuse Large B-Cell Lymphomas. <i>Blood</i> , 2021 , 138, 2254-2254	2.2	
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