Nibaldo Inestrosa Cantin

List of Publications by Year
in descending order

330 papers	19,413 citations	9786 73 h-index	17592 121 g-index
332 all docs	332 docs citations	332 times ranked	18096 citing authors

#	Article	IF	Citations
1	Acetylcholinesterase Accelerates Assembly of Amyloid-Î²-Peptides into Alzheimer's Fibrils: Possible Role of the Peripheral Site of the Enzyme. Neuron, 1996, 16, 881-891.	8.1	1,032
2	Emerging roles of Wnts in the adult nervous system. Nature Reviews Neuroscience, 2010, 11, 77-86.	10.2	558
3	Metalloenzyme-like Activity of Alzheimer's Disease Î²-Amyloid. Journal of Biological Chemistry, 2002, 277, 40302-40308.	3.4	536
4	A Structural Motif of Acetylcholinesterase That Promotes Amyloid Î²-Peptide Fibril Formationâ€. Biochemistry, 2001, 40, 10447-10457.	2.5	385
5	The role of oxidative stress in the toxicity induced by amyloid Î²-peptide in Alzheimerâ€™s disease. Progress in Neurobiology, 2000, 62, 633-648.	5.7	347
6	The Î±-Helical to Î²-Strand Transition in the Amino-terminal Fragment of the Amyloid Î²-Peptide Modulates Amyloid Formation. Journal of Biological Chemistry, 1995, 270, 3063-3067.	3.4	298
7	Wnt signaling function in Alzheimerâ€™s disease. Brain Research Reviews, 2000, 33, 1-12.	9.0	275
8	Acetylcholinesterase promotes the aggregation of amyloid-Î²-peptide fragments by forming a complex with the growing fibrils 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1997, 272, 348-361.	4.2	274
9	Stable Complexes Involving Acetylcholinesterase and Amyloid-Î² Peptide Change the Biochemical Properties of the Enzyme and Increase the Neurotoxicity of Alzheimerâ€™s Fibrils. Journal of Neuroscience, 1998, 18, 3213-3223.	3.6	264
10	Wnt signaling in the nervous system and in Alzheimer's disease. Journal of Molecular Cell Biology, 2014, 6, 64-74.	3.3	260
11	Peroxisome Proliferator-activated Receptor Î³ Up-regulates the Bcl-2 Anti-apoptotic Protein in Neurons and Induces Mitochondrial Stabilization and Protection against Oxidative Stress and Apoptosis. Journal of Biological Chemistry, 2007, 282, 37006-37015.	3.4	223
12	Amyloidâ€"cholinesterase interactions. FEBS Journal, 2008, 275, 625-632.	4.7	215
13	Wnt-7a Modulates the Synaptic Vesicle Cycle and Synaptic Transmission in Hippocampal Neurons. Journal of Biological Chemistry, 2008, 283, 5918-5927.	3.4	205
14	WNT signaling in neuronal maturation and synaptogenesis. Frontiers in Cellular Neuroscience, 2013, 7, 103.	3.7	204
15	Wnt-3a overcomes Î²-amyloid toxicity in rat hippocampal neurons. Experimental Cell Research, 2004, 297, 186-196.	2.6	203
16	Fatty acid oxidation by human liver peroxisomes. Biochemical and Biophysical Research Communications, 1979, 88, 1030-1036.	2.1	201
17	Wnt-5a/JNK Signaling Promotes the Clustering of PSD-95 in Hippocampal Neurons. Journal of Biological Chemistry, 2009, 284, 15857-15866.	3.4	187
18	Wingless-type family member 5A (Wnt-5a) stimulates synaptic differentiation and function of glutamatergic synapses. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21164-21169.	7.1	185

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19	Wnt signaling in neuroprotection and stem cell differentiation. Progress in Neurobiology, 2008, 86, 281-296.	5.7	182
20	Peroxisome proliferator-activated receptor Î³ is expressed in hippocampal neurons and its activation prevents Î²-amyloid neurodegeneration: role of Wnt signaling. Experimental Cell Research, 2005, 304, 91-104.	2.6	181
21	Non-canonical function of IRE1Î± determines mitochondria-associated endoplasmic reticulum composition to control calcium transfer and bioenergetics. Nature Cell Biology, 2019, 21, 755-767.	10.3	168
22	Wnt Signaling: Role in Alzheimer Disease and Schizophrenia. Journal of NeuroImmune Pharmacology, 2012, 7, 788-807.	4.1	165
23	The role of Wnt signaling in neuronal dysfunction in Alzheimer's Disease. Molecular Neurodegeneration, 2008, 3, 9.	10.8	164
24	Protein kinase C inhibits amyloid Î²â€peptide neurotoxicity by acting on members of the Wnt pathway. FASEB Journal, 2002, 16, 1982-1984.	0.5	156
25	Î²-Amyloid Causes Depletion of Synaptic Vesicles Leading to Neurotransmission Failure. Journal of Biological Chemistry, 2010, 285, 2506-2514.	3.4	153
26	Wnt signaling in the regulation of adult hippocampal neurogenesis. Frontiers in Cellular Neuroscience, 2013, 7, 100.	3.7	151
27	Structural Determinants of the Alzheimer's Amyloid Î²â€Peptide. Journal of Neurochemistry, 1994, 63, 1191-1198.	3.9	141
28	Peroxisomal Proliferation Protects from Î²-Amyloid Neurodegeneration. Journal of Biological Chemistry, 2005, 280, 41057-41068.	3.4	137
29	STI571 prevents apoptosis, tau phosphorylation and behavioural impairments induced by Alzheimer's Î²-amyloid deposits. Brain, 2008, 131, 2425-2442.	7.6	136
30	Regulation of NMDA-Receptor Synaptic Transmission by Wnt Signaling. Journal of Neuroscience, 2011, 31, 9466-9471.	3.6	136
31	Interactions of AChE with A? Aggregates in Alzheimer?s Brain: Therapeutic Relevance of IDN 5706. Frontiers in Molecular Neuroscience, 2011, 4, 19.	2.9	132
32	Synthesis and Multitarget Biological Profiling of a Novel Family of Rhein Derivatives As Disease-Modifying Anti-Alzheimer Agents. Journal of Medicinal Chemistry, 2014, 57, 2549-2567.	6.4	132
33	Acetylcholinesterase-AÎ² Complexes Are More Toxic than AÎ² Fibrils in Rat Hippocampus. American Journal of Pathology, 2004, 164, 2163-2174.	3.8	128
34	Wnts in adult brain: from synaptic plasticity to cognitive deficiencies. Frontiers in Cellular Neuroscience, 2013, 7, 224.	3.7	128
35	Voluntary Running Attenuates Memory Loss, Decreases Neuropathological Changes and Induces Neurogenesis in a Mouse Model of <scp>A</scp>lzheimer's Disease. Brain Pathology, 2016, 26, 62-74.	4.1	128
36	Structure and function of amyloid in Alzheimer's disease. Progress in Neurobiology, 2004, 74, 323-349.	5.7	126

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37	Signaling pathway cross talk in Alzheimerâ€™s disease. Cell Communication and Signaling, 2014, 12, 23.	6.5	126
38	<i>In vivo</i>Activation of<i>Wnt</i>Signaling Pathway Enhances Cognitive Function of Adult Mice and Reverses Cognitive Deficits in an Alzheimer's Disease Model. Journal of Neuroscience, 2014, 34, 2191-2202.	3.6	125
39	Wnt signalling in neuronal differentiation and development. Cell and Tissue Research, 2015, 359, 215-223.	2.9	123
40	Signal transduction during amyloid-Î²-peptide neurotoxicity: role in Alzheimer disease. Brain Research Reviews, 2004, 47, 275-289.	9.0	121
41	Epigenetic editing of the Dlg4/PSD95 gene improves cognition in aged and Alzheimerâ€™s disease mice. Brain, 2017, 140, 3252-3268.	7.6	121
42	Postsynaptic dysfunction is associated with spatial and object recognition memory loss in a natural model of Alzheimerâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13835-13840.	7.1	113
43	Heparan sulfate proteoglycans are increased during skeletal muscle regeneration: requirement of syndecan-3 for successful fiber formation. Journal of Cell Science, 2004, 117, 73-84.	2.0	112
44	Wnt-5a Modulates Recycling of Functional GABAA Receptors on Hippocampal Neurons. Journal of Neuroscience, 2010, 30, 8411-8420.	3.6	112
45	Cellular and molecular basis of estrogenâ€™s neuroprotection. Molecular Neurobiology, 1998, 17, 73-86.	4.0	109
46	Trolox and 17Î²-Estradiol Protect against Amyloid Î²-Peptide Neurotoxicity by a Mechanism That Involves Modulation of the Wnt Signaling Pathway. Journal of Biological Chemistry, 2005, 280, 11615-11625.	3.4	109
47	Wnt-5aoccludes AÎ² oligomer-induced depression of glutamatergic transmission in hippocampal neurons. Molecular Neurodegeneration, 2010, 5, 3.	10.8	107
48	Wnt Signaling in Skeletal Muscle Dynamics: Myogenesis, Neuromuscular Synapse and Fibrosis. Molecular Neurobiology, 2014, 49, 574-589.	4.0	107
49	Human-like rodent amyloid-Î²-peptide determines Alzheimer pathology in aged wild-type Octodon degu. Neurobiology of Aging, 2005, 26, 1023-1028.	3.1	106
50	A Monoclonal Antibody against Acetylcholinesterase Inhibits the Formation of Amyloid Fibrils Induced by the Enzyme. Biochemical and Biophysical Research Communications, 1997, 232, 652-655.	2.1	102
51	Wnt-7a Induces Presynaptic Colocalization of Â7-Nicotinic Acetylcholine Receptors and Adenomatous Polyposis Coli in Hippocampal Neurons. Journal of Neuroscience, 2007, 27, 5313-5325.	3.6	101
52	Association of the synaptic form of acetylcholinesterase with extracellular matrix in cultured mouse muscle cells. Cell, 1982, 29, 71-79.	28.9	100
53	Loss of canonical Wnt signaling is involved in the pathogenesis of Alzheimer's disease. Neural Regeneration Research, 2018, 13, 1705.	3.0	100
54	Role of Wnt Signaling in Central Nervous System Injury. Molecular Neurobiology, 2016, 53, 2297-2311.	4.0	99

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55	Recent rodent models for Alzheimerâ€™s disease: clinical implications and basic research. Journal of Neural Transmission, 2012, 119, 173-195.	2.8	97
56	Amyloid-Î²-Acetylcholinesterase complexes potentiate neurodegenerative changes induced by the AÎ² peptide. Implications for the pathogenesis of Alzheimer's disease. Molecular Neurodegeneration, 2010, 5, 4.	10.8	96
57	Role of the Wnt receptor Frizzled-1 in presynaptic differentiation and function. Neural Development, 2009, 4, 41.	2.4	95
58	Andrographolide reduces cognitive impairment in young and mature AÎ²PPswe/PS-1 mice. Molecular Neurodegeneration, 2014, 9, 61.	10.8	95
59	Structure-Function Implications in Alzheimers Disease: Effect of Aβ Oligomers at Central Synapses. Current Alzheimer Research, 2008, 5, 233-243.	1.4	91
60	Antiâ€"Ribosomal P Protein Autoantibodies From Patients With Neuropsychiatric Lupus Impair Memory in Mice. Arthritis and Rheumatology, 2015, 67, 204-214.	5.6	90
61	Is Alzheimer's disease related to metabolic syndrome? A Wnt signaling conundrum. Progress in Neurobiology, 2014, 121, 125-146.	5.7	87
62	Acetylcholinesterase Interaction with Alzheimer Amyloid Î². , 2005, 38, 299-317.		86
63	Postsynaptic Receptors for Amyloid-Î² Oligomers as Mediators of Neuronal Damage in Alzheimerâ€™s Disease. Frontiers in Physiology, 2012, 3, 464.	2.8	84
64	Peroxisome Proliferator-Activated Receptor (PPAR) Î³ and PPARÎ± Agonists Modulate Mitochondrial Fusion-Fission Dynamics: Relevance to Reactive Oxygen Species (ROS)-Related Neurodegenerative Disorders?. PLoS ONE, 2013, 8, e64019.	2.5	84
65	Expression of ?2-macroglobulin receptor/low density lipoprotein receptor-related protein (LRP) in rat microglial cells. Journal of Neuroscience Research, 2000, 60, 401-411.	2.9	83
66	Neurotoxicity of acetylcholinesterase amyloid Î²-peptide aggregates is dependent on the type of AÎ² peptide and the AChE concentration present in the complexes. FEBS Letters, 1999, 450, 205-209.	2.8	80
67	The N-Terminal Tandem Repeat Region of Human Prion Protein Reduces Copper: Role of Tryptophan Residues. Biochemical and Biophysical Research Communications, 2000, 269, 491-495.	2.1	80
68	Wnt signaling involvement in Î²-amyloid-dependent neurodegeneration. Neurochemistry International, 2002, 41, 341-344.	3.8	80
69	Frizzledâ€1 is involved in the neuroprotective effect of Wnt3a against AÎ² oligomers. Journal of Cellular Physiology, 2008, 217, 215-227.	4.1	80
70	<scp>PPARs</scp> in the central nervous system: roles in neurodegeneration and neuroinflammation. Biological Reviews, 2017, 92, 2046-2069.	10.4	80
71	Nicotine Prevents Synaptic Impairment Induced by Amyloid-Î² Oligomers Through Î±7-Nicotinic Acetylcholine Receptor Activation. NeuroMolecular Medicine, 2013, 15, 549-569.	3.4	77
72	Canonical Wnt signaling protects hippocampal neurons from AÎ² oligomers: role of non-canonical Wnt-5a/Ca2+ in mitochondrial dynamics. Frontiers in Cellular Neuroscience, 2013, 7, 97.	3.7	77

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73	Is L-methionine a trigger factor for Alzheimerâ€™s-like neurodegeneration?: Changes in AÎ² oligomers, tau phosphorylation, synaptic proteins, Wnt signaling and behavioral impairment in wild-type mice. Molecular Neurodegeneration, 2015, 10, 62.	10.8	77
74	Wnt signaling: Role in LTP, neural networks and memory. Ageing Research Reviews, 2013, 12, 786-800.	10.9	76
75	An Overview of the Current and Novel Drugs for Alzheimers Disease with Particular Reference to Anti-Cholinesterase Compounds. Current Pharmaceutical Design, 2004, 10, 3121-3130.	1.9	75
76	EphA4 Activation of c-Abl Mediates Synaptic Loss and LTP Blockade Caused by Amyloid-Î² Oligomers. PLoS ONE, 2014, 9, e92309.	2.5	75
77	Two Heparin-binding Domains Are Present on the Collagenic Tail of Asymmetric Acetylcholinesterase. Journal of Biological Chemistry, 1995, 270, 11043-11046.	3.4	73
78	Copper reduction by copper binding proteins and its relation to neurodegenerative diseases. BioMetals, 2003, 16, 91-98.	4.1	73
79	Estrogen protects neuronal cells from the cytotoxicity induced by acetylcholinesterase-amyloid complexes. FEBS Letters, 1998, 441, 220-224.	2.8	72
80	Aneural muscle cell cultures make synaptic basal lamina components. Nature, 1982, 295, 143-145.	27.8	71
81	M1 muscarinic receptor activation protects neurons from Î²-amyloid toxicity. A role for Wnt signaling pathway. Neurobiology of Disease, 2004, 17, 337-348.	4.4	71
82	Calcium/calmodulinâ€dependent protein kinase type IV is a target gene of the <i>Wnt</i>/Î²â€catenin signaling pathway. Journal of Cellular Physiology, 2009, 221, 658-667.	4.1	71
83	Laminin inhibits amyloid-Î²-peptide fibrillation. Neuroscience Letters, 1996, 218, 201-203.	2.1	70
84	Methionine sulfoxide reductase A expression is regulated by the DAFâ€16/FOXO pathway in <i>Caenorhabditis elegans</i>. Aging Cell, 2009, 8, 690-705.	6.7	70
85	PPAR ? activators induce growth arrest and process extension in B12 oligodendrocyte-like cells and terminal differentiation of cultured oligodendrocytes. Journal of Neuroscience Research, 2003, 72, 425-435.	2.9	69
86	Andrographolide activates the canonical Wnt signalling pathway by a mechanism that implicates the non-ATP competitive inhibition of GSK-3Î²: autoregulation of GSK-3Î² <i>inÂvivo</i>. Biochemical Journal, 2015, 466, 415-430.	3.7	68
87	Andrographolide recovers cognitive impairment in a natural model of Alzheimer's disease (Octodon) Tj ETQq1 1 0.784314 rgBT /Over	3.1	68
88	Wnt Signaling in the Central Nervous System: New Insights in Health and Disease. Progress in Molecular Biology and Translational Science, 2018, 153, 81-130.	1.7	68
89	SIRT1 Regulates Dendritic Development in Hippocampal Neurons. PLoS ONE, 2012, 7, e47073.	2.5	68
90	Peripheral binding site is involved in the neurotrophic activity of acetylcholinesterase. NeuroReport, 1999, 10, 3621-3625.	1.2	67

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91	ApoER2 expression increases AÎ² production while decreasing Amyloid Precursor Protein (APP) endocytosis: Possible role in the partitioning of APP into lipid rafts and in the regulation of Î³-secretase activity. Molecular Neurodegeneration, 2007, 2, 14.	10.8	66
92	Wnt signaling loss accelerates the appearance of neuropathological hallmarks of Alzheimer's disease in J20â€‹<scp>APP</scp> transgenic and wildâ€type mice. Journal of Neurochemistry, 2018, 144, 443-465.	3.9	66
93	Is there a role for copper in neurodegenerative diseases?. Molecular Aspects of Medicine, 2005, 26, 405-420.	6.4	65
94	Revisiting the Paraquat-Induced Sporadic Parkinsonâ€™s Disease-Like Model. Molecular Neurobiology, 2019, 56, 1044-1055.	4.0	65
95	Modulating Wnt signaling at the root: Porcupine and Wnt acylation. , 2019, 198, 34-45.		65
96	ApoER2 is Endocytosed by a Clathrin-Mediated Process Involving the Adaptor Protein Dab2 Independent of its Rafts' Association. Traffic, 2005, 6, 820-838.	2.7	64
97	PSD95 Suppresses Dendritic Arbor Development in Mature Hippocampal Neurons by Occluding the Clustering of NR2B-NMDA Receptors. PLoS ONE, 2014, 9, e94037.	2.5	63
98	Acetylcholinesterase, a senile plaque component, affects the fibrillogenesis of amyloid-Î²-peptides. Neuroscience Letters, 1995, 201, 49-52.	2.1	62
99	Pathogenicity of Lupus Antiâ€“Ribosomal P Antibodies: Role of Crossâ€Reacting Neuronal Surface P Antigen in Glutamatergic Transmission and Plasticity in a Mouse Model. Arthritis and Rheumatology, 2015, 67, 1598-1610.	5.6	62
100	Inhibition of Wnt signaling induces amyloidogenic processing of amyloid precursor protein and the production and aggregation of Amyloidâ€Î² (AÎ²)₄₂ peptides. Journal of Neurochemistry, 2016, 139, 1175-1191.	3.9	62
101	PC12 and neuro 2a cells have different susceptibilities to acetylcholinesterase-amyloid complexes, amyloid25-35 fragment, glutamate, and hydrogen peroxide. Journal of Neuroscience Research, 1999, 56, 620-631.	2.9	61
102	How the Wnt signaling pathway protects from neurodegeneration: the mitochondrial scenario. Frontiers in Cellular Neuroscience, 2015, 9, 166.	3.7	61
103	Role of axoplasmic transport in neurotrophic regulation of muscle end plate acetylcholinesterase. Nature, 1976, 262, 55-56.	27.8	60
104	Tetrameric (G₄) Acetylcholinesterase: Structure, Localization, and Physiological Regulation. Journal of Neurochemistry, 1996, 66, 1335-1346.	3.9	60
105	Chronic hypoxia induces the activation of the Wnt/Î²-catenin signaling pathway and stimulates hippocampal neurogenesis in wild-type and APPswe-PS1Î”E9 transgenic mice in vivo. Frontiers in Cellular Neuroscience, 2014, 8, 17.	3.7	60
106	Frizzled-1 receptor regulates adult hippocampal neurogenesis. Molecular Brain, 2016, 9, 29.	2.6	60
107	Posttranslational Modifications Regulate the Postsynaptic Localization of PSD-95. Molecular Neurobiology, 2017, 54, 1759-1776.	4.0	60
108	Axonal sprouting induced in the sciatic nerve by the amyloid precursor protein (APP) and other antiproteases. Neuroscience Letters, 1992, 144, 130-134.	2.1	58

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109	Induction of cellular prion protein gene expression by copper in neurons. American Journal of Physiology - Cell Physiology, 2006, 290, C271-C281.	4.6	58
110	Synaptotoxicity in Alzheimer's Disease: The Wnt Signaling Pathway as a Molecular Target. IUBMB Life, 2007, 59, 316-321.	3.4	58
111	Emerging Synaptic Molecules as Candidates in the Etiology of Neurological Disorders. Neural Plasticity, 2017, 2017, 1-25.	2.2	57
112	Distribution and anchoring of molecular forms of acetylcholinesterase. Trends in Pharmacological Sciences, 1989, 10, 325-329.	8.7	56
113	Wnt-5a Ligand Modulates Mitochondrial Fission-Fusion in Rat Hippocampal Neurons. Journal of Biological Chemistry, 2014, 289, 36179-36193.	3.4	56
114	Quercetin Exerts Differential Neuroprotective Effects Against H2O2 and Aβ Aggregates in Hippocampal Neurons: the Role of Mitochondria. Molecular Neurobiology, 2017, 54, 7116-7128.	4.0	56
115	Phosphorylated tau potentiates Aβ-induced mitochondrial damage in mature neurons. Neurobiology of Disease, 2014, 71, 260-269.	4.4	55
116	Fructose consumption reduces hippocampal synaptic plasticity underlying cognitive performance. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 2379-2390.	3.8	55
117	Mannose receptor is present in a functional state in rat microglial cells. Journal of Neuroscience Research, 1999, 58, 387-395.	2.9	54
118	Wnt-5a/Frizzled9 Receptor Signaling through the Gαo-Gβγ Complex Regulates Dendritic Spine Formation. Journal of Biological Chemistry, 2016, 291, 19092-19107.	3.4	53
119	Wnt5a promotes differentiation and development of adult-born neurons in the hippocampus by noncanonical Wnt signaling. Stem Cells, 2020, 38, 422-436.	3.2	53
120	Molecular interactions of acetylcholinesterase with senile plaques. Journal of Physiology (Paris), 1998, 92, 341-344.	2.1	52
121	Cysteine 144 Is a Key Residue in the Copper Reduction by the β-Amyloid Precursor Protein. Journal of Neurochemistry, 2001, 73, 1288-1292.	3.9	51
122	Vitamin E But Not 17β-Estradiol Protects against Vascular Toxicity Induced by β-Amyloid Wild Type and the Dutch Amyloid Variant. Journal of Neuroscience, 2002, 22, 3081-3089.	3.6	51
123	Acetylcholinesterase (AChE) - Amyloid-β-Peptide Complexes in Alzheimers Disease. The Wnt Signaling Pathway. Current Alzheimer Research, 2004, 1, 249-254.	1.4	51
124	Genome-wide identification of new Wnt/β-catenin target genes in the human genome using CART method. BMC Genomics, 2010, 11, 348.	2.8	50
125	Synaptic Clustering of PSD-95 Is Regulated by c-Abl through Tyrosine Phosphorylation. Journal of Neuroscience, 2010, 30, 3728-3738.	3.6	50
126	Amyloid-β Peptide Nitrotyrosination Stabilizes Oligomers and Enhances NMDAR-Mediated Toxicity. Journal of Neuroscience, 2016, 36, 11693-11703.	3.6	50

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127	Purification of the peroxisomal fatty acyl-CoA oxidase from rat liver. Biochemical and Biophysical Research Communications, 1980, 95, 7-12.	2.1	49
128	Acetylcholinesterase induces neuronal cell loss, astrocyte hypertrophy and behavioral deficits in mammalian hippocampus. Journal of Neurochemistry, 2003, 87, 195-204.	3.9	49
129	Adult hippocampal neurogenesis in aging and Alzheimer's disease. Birth Defects Research Part C: Embryo Today Reviews, 2010, 90, 284-296.	3.6	49
130	The Synaptic Protein Neuroligin-1 Interacts with the Amyloid Î²-Peptide. Is There a Role in Alzheimerâ€™s Disease?. Biochemistry, 2011, 50, 8127-8137.	2.5	49
131	Peroxisome Proliferators Reduce Spatial Memory Impairment, Synaptic Failure, and Neurodegeneration in Brains of a Double Transgenic Mice Model of Alzheimer's Disease. Journal of Alzheimer's Disease, 2013, 33, 941-959.	2.6	49
132	Wntâ€induced activation of glucose metabolism mediates the <i>inÂvivo</i> neuroprotective roles of Wnt signaling in Alzheimer disease. Journal of Neurochemistry, 2019, 149, 54-72.	3.9	49
133	Hypothyroidism and Cognitive Disorders during Development and Adulthood: Implications in the Central Nervous System. Molecular Neurobiology, 2019, 56, 2952-2963.	4.0	48
134	Heparin solubilizes asymmetric acetylcholinesterase from rat neuromuscular junction. FEBS Letters, 1983, 154, 265-268.	2.8	47
135	Andrographolide Stimulates Neurogenesis in the Adult Hippocampus. Neural Plasticity, 2015, 2015, 1-13.	2.2	47
136	Isolation of the heparan sulfate proteoglycans from the extracellular matrix of rat skeletal muscle. Journal of Neurobiology, 1987, 18, 271-282.	3.6	46
137	Two Different Heparin-binding Domains in the Triple-helical Domain of ColQ, the Collagen Tail Subunit of Synaptic Acetylcholinesterase. Journal of Biological Chemistry, 2003, 278, 23233-23242.	3.4	46
138	AlzheimerÃ¢â‚¬â„¢s disease: relevant molecular and physiopathological events affecting amyloid-ÃŽÂ² brain balance and the putative role of PPARs. Frontiers in Aging Neuroscience, 2014, 6, 176.	3.4	46
139	Activation of Wnt Signaling in Cortical Neurons Enhances Glucose Utilization through Glycolysis. Journal of Biological Chemistry, 2016, 291, 25950-25964.	3.4	46
140	Alzheimerâ€™s Disease-Related Protein Expression in the Retina of Octodon degus. PLoS ONE, 2015, 10, e0135499.	2.5	45
141	Discovery of a Potent Dual Inhibitor of Acetylcholinesterase and Butyrylcholinesterase with Antioxidant Activity that Alleviates Alzheimer-like Pathology in Old APP/PS1 Mice. Journal of Medicinal Chemistry, 2021, 64, 812-839.	6.4	45
142	Role of Sirt1 During the Ageing Process: Relevance to Protection of Synapses in the Brain. Molecular Neurobiology, 2014, 50, 744-756.	4.0	44
143	Metal and complementary molecular bioimaging in Alzheimer's disease. Frontiers in Aging Neuroscience, 2014, 6, 138.	3.4	44
144	Age Progression of Neuropathological Markers in the Brain of the Chilean Rodent <i>Octodon degus</i>, a Natural Model of <scp>A</scp>lzheimer's Disease. Brain Pathology, 2015, 25, 679-691.	4.1	42

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145	Subcellular localization of acetycholinesterase molecular forms in endplate regions of adult mammalian skeletal muscle. Neurochemical Research, 1984, 9, 1211-1230.	3.3	41
146	Association of Acetylcholinesterase with the cell surface. Journal of Membrane Biology, 1990, 118, 1-9.	2.1	41
147	Structural and functional organization of synaptic acetylcholinesterase. Brain Research Reviews, 2004, 47, 96-104.	9.0	41
148	Wnt Signaling Prevents the AÎ² Oligomer-Induced Mitochondrial Permeability Transition Pore Opening Preserving Mitochondrial Structure in Hippocampal Neurons. PLoS ONE, 2017, 12, e0168840.	2.5	41
149	Laminin affects polymerization, depolymerization and neurotoxicity of AÎ² peptide. Peptides, 2002, 23, 1229-1240.	2.4	40
150	The Nâ€terminal copperâ€binding domain of the amyloid precursor protein protects against Cu 2+ neurotoxicity in vivo. FASEB Journal, 2004, 18, 1701-1703.	0.5	40
151	Acetylcholinesterase-Amyloid-β-peptide Interaction: Effect of Congo Red and the Role of the Wnt Pathway. Current Alzheimer Research, 2005, 2, 301-306.	1.4	39
152	Intracellular amyloid formation in muscle cells of AÎ²-transgenic Caenorhabditis elegans: determinants and physiological role in copper detoxification. Molecular Neurodegeneration, 2009, 4, 2.	10.8	39
153	Copper Reduces AÂ Oligomeric Species and Ameliorates Neuromuscular Synaptic Defects in a C. elegans Model of Inclusion Body Myositis. Journal of Neuroscience, 2011, 31, 10149-10158.	3.6	39
154	Wnt-5a increases NO and modulates NMDA receptor in rat hippocampal neurons. Biochemical and Biophysical Research Communications, 2014, 444, 189-194.	2.1	39
155	Wnt/TLR Dialog in Neuroinflammation, Relevance in Alzheimerâ€™s Disease. Frontiers in Immunology, 2017, 8, 187.	4.8	39
156	Brain acetylcholinesterase promotes amyloid-beta-peptide aggregation but does not hydrolyze amyloid precursor protein peptides. Neurochemical Research, 1998, 23, 135-140.	3.3	38
157	câ€Abl modulates AICD dependent cellular responses: Transcriptional induction and apoptosis. Journal of Cellular Physiology, 2009, 220, 136-143.	4.1	38
158	The Hyperforin Derivative IDN5706 Occludes Spatial Memory Impairments and Neuropathological Changes in a Double Transgenic Alzheimers Mouse Model. Current Alzheimer Research, 2010, 7, 126-133.	1.4	38
159	Acetylcholinesterase like that of skeletal muscle in smooth muscle reinnervated by a motor nerve. Nature, 1979, 280, 504-506.	27.8	37
160	Release of acetylcholinesterase (AChE) from Î²-amyloid plaques assemblies improves the spatial memory impairments in APP-transgenic mice. Chemico-Biological Interactions, 2008, 175, 142-149.	4.0	37
161	Peroxisome Proliferator-activated Receptors and Alzheimer's Disease: Hitting the Bloodâ€"Brain Barrier. Molecular Neurobiology, 2013, 48, 438-451.	4.0	36
162	Accelerating AlzheimerÊ¼s research through â€˜naturalâ€™ animal models. Current Opinion in Psychiatry, 2015, 28, 155-164.	6.3	36

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