

# Cheril Tapia-Rojas

## List of Publications by Year in descending order

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166  
papers

11,945  
citations

23565

58  
h-index

30920

102  
g-index

170  
all docs

170  
docs citations

170  
times ranked

12560  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acetylcholinesterase Accelerates Assembly of Amyloid- $\beta$ -Peptides into Alzheimer's Fibrils: Possible Role of the Peripheral Site of the Enzyme. <i>Neuron</i> , 1996, 16, 881-891.	8.1	1,032
2	Emerging roles of Wnts in the adult nervous system. <i>Nature Reviews Neuroscience</i> , 2010, 11, 77-86.	10.2	558
3	A Structural Motif of Acetylcholinesterase That Promotes Amyloid $\beta$ -Peptide Fibril Formation. <i>Biochemistry</i> , 2001, 40, 10447-10457.	2.5	385
4	The role of oxidative stress in the toxicity induced by amyloid $\beta$ -peptide in Alzheimer's disease. <i>Progress in Neurobiology</i> , 2000, 62, 633-648.	5.7	347
5	Wnt signaling function in Alzheimer's disease. <i>Brain Research Reviews</i> , 2000, 33, 1-12.	9.0	275
6	Stable Complexes Involving Acetylcholinesterase and Amyloid- $\beta$ Peptide Change the Biochemical Properties of the Enzyme and Increase the Neurotoxicity of Alzheimer's Fibrils. <i>Journal of Neuroscience</i> , 1998, 18, 3213-3223.	3.6	264
7	Wnt signaling in the nervous system and in Alzheimer's disease. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 64-74.	3.3	260
8	Wnt-7a Modulates the Synaptic Vesicle Cycle and Synaptic Transmission in Hippocampal Neurons. <i>Journal of Biological Chemistry</i> , 2008, 283, 5918-5927.	3.4	205
9	WNT signaling in neuronal maturation and synaptogenesis. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 103.	3.7	204
10	Wnt-3a overcomes $\beta$ -amyloid toxicity in rat hippocampal neurons. <i>Experimental Cell Research</i> , 2004, 297, 186-196.	2.6	203
11	Wnt-5a/JNK Signaling Promotes the Clustering of PSD-95 in Hippocampal Neurons. <i>Journal of Biological Chemistry</i> , 2009, 284, 15857-15866.	3.4	187
12	Wingless-type family member 5A (Wnt-5a) stimulates synaptic differentiation and function of glutamatergic synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21164-21169.	7.1	185
13	Non-canonical function of IRE1 $\beta$ determines mitochondria-associated endoplasmic reticulum composition to control calcium transfer and bioenergetics. <i>Nature Cell Biology</i> , 2019, 21, 755-767.	10.3	168
14	Wnt Signaling: Role in Alzheimer Disease and Schizophrenia. <i>Journal of NeuroImmune Pharmacology</i> , 2012, 7, 788-807.	4.1	165
15	The role of Wnt signaling in neuronal dysfunction in Alzheimer's Disease. <i>Molecular Neurodegeneration</i> , 2008, 3, 9.	10.8	164
16	Wnt signaling in the regulation of adult hippocampal neurogenesis. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 100.	3.7	151
17	Regulation of Memory Formation by the Transcription Factor XBP1. <i>Cell Reports</i> , 2016, 14, 1382-1394.	6.4	142
18	STI571 prevents apoptosis, tau phosphorylation and behavioural impairments induced by Alzheimer's $\beta$ -amyloid deposits. <i>Brain</i> , 2008, 131, 2425-2442.	7.6	136

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19	Regulation of NMDA-Receptor Synaptic Transmission by Wnt Signaling. <i>Journal of Neuroscience</i> , 2011, 31, 9466-9471.	3.6	136
20	Itâ€™s all about tau. <i>Progress in Neurobiology</i> , 2019, 175, 54-76.	5.7	134
21	Interactions of AChE with A $\beta$ Aggregates in Alzheimer's Brain: Therapeutic Relevance of IDN 5706. <i>Frontiers in Molecular Neuroscience</i> , 2011, 4, 19.	2.9	132
22	Synthesis and Multitarget Biological Profiling of a Novel Family of Rhein Derivatives As Disease-Modifying Anti-Alzheimer Agents. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 2549-2567.	6.4	132
23	Acetylcholinesterase-A $\beta$ Complexes Are More Toxic than A $\beta$ Fibrils in Rat Hippocampus. <i>American Journal of Pathology</i> , 2004, 164, 2163-2174.	3.8	128
24	Voluntary Running Attenuates Memory Loss, Decreases Neuropathological Changes and Induces Neurogenesis in a Mouse Model of Alzheimer's Disease. <i>Brain Pathology</i> , 2016, 26, 62-74.	4.1	128
25	Structure and function of amyloid in Alzheimer's disease. <i>Progress in Neurobiology</i> , 2004, 74, 323-349.	5.7	126
26	Signaling pathway cross talk in Alzheimer's disease. <i>Cell Communication and Signaling</i> , 2014, 12, 23.	6.5	126
27	<i>In vivo</i> Activation of Wnt Signaling Pathway Enhances Cognitive Function of Adult Mice and Reverses Cognitive Deficits in an Alzheimer's Disease Model. <i>Journal of Neuroscience</i> , 2014, 34, 2191-2202.	3.6	125
28	Wnt signalling in neuronal differentiation and development. <i>Cell and Tissue Research</i> , 2015, 359, 215-223.	2.9	123
29	Epigenetic editing of the Dlg4/PSD95 gene improves cognition in aged and Alzheimer's disease mice. <i>Brain</i> , 2017, 140, 3252-3268.	7.6	121
30	Postsynaptic dysfunction is associated with spatial and object recognition memory loss in a natural model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13835-13840.	7.1	113
31	Wnt-5a Modulates Recycling of Functional GABAA Receptors on Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 8411-8420.	3.6	112
32	Trolox and 17 $\beta$ -Estradiol Protect against Amyloid $\beta$ -Peptide Neurotoxicity by a Mechanism That Involves Modulation of the Wnt Signaling Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 11615-11625.	3.4	109
33	Wnt-5a occludes A $\beta$ oligomer-induced depression of glutamatergic transmission in hippocampal neurons. <i>Molecular Neurodegeneration</i> , 2010, 5, 3.	10.8	107
34	Human-like rodent amyloid $\beta$ -peptide determines Alzheimer pathology in aged wild-type <i>Octodon degu</i> . <i>Neurobiology of Aging</i> , 2005, 26, 1023-1028.	3.1	106
35	Wnt-7a Induces Presynaptic Colocalization of $\alpha$ 7-Nicotinic Acetylcholine Receptors and Adenomatous Polyposis Coli in Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2007, 27, 5313-5325.	3.6	101
36	Loss of canonical Wnt signaling is involved in the pathogenesis of Alzheimer's disease. <i>Neural Regeneration Research</i> , 2018, 13, 1705.	3.0	100

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37	Role of Wnt Signaling in Central Nervous System Injury. <i>Molecular Neurobiology</i> , 2016, 53, 2297-2311.	4.0	99
38	Recent rodent models for Alzheimer's disease: clinical implications and basic research. <i>Journal of Neural Transmission</i> , 2012, 119, 173-195.	2.8	97
39	Amyloid- $\beta$ -Acetylcholinesterase complexes potentiate neurodegenerative changes induced by the A $\beta$ peptide. Implications for the pathogenesis of Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2010, 5, 4.	10.8	96
40	Role of the Wnt receptor Frizzled-1 in presynaptic differentiation and function. <i>Neural Development</i> , 2009, 4, 41.	2.4	95
41	Andrographolide reduces cognitive impairment in young and mature A $\beta$ PPswe/PS-1 mice. <i>Molecular Neurodegeneration</i> , 2014, 9, 61.	10.8	95
42	Structure-Function Implications in Alzheimers Disease: Effect of A $\beta$ Oligomers at Central Synapses. <i>Current Alzheimer Research</i> , 2008, 5, 233-243.	1.4	91
43	Is Alzheimer's disease related to metabolic syndrome? A Wnt signaling conundrum. <i>Progress in Neurobiology</i> , 2014, 121, 125-146.	5.7	87
44	Peroxisome Proliferator-Activated Receptor (PPAR) $\beta$ and PPAR $\delta$ Agonists Modulate Mitochondrial Fusion-Fission Dynamics: Relevance to Reactive Oxygen Species (ROS)-Related Neurodegenerative Disorders?. <i>PLoS ONE</i> , 2013, 8, e64019.	2.5	84
45	Wnt signaling involvement in $\beta$ -amyloid-dependent neurodegeneration. <i>Neurochemistry International</i> , 2002, 41, 341-344.	3.8	80
46	Frizzled-1 is involved in the neuroprotective effect of Wnt3a against A $\beta$ oligomers. <i>Journal of Cellular Physiology</i> , 2008, 217, 215-227.	4.1	80
47	PPARs in the central nervous system: roles in neurodegeneration and neuroinflammation. <i>Biological Reviews</i> , 2017, 92, 2046-2069.	10.4	80
48	Nicotine Prevents Synaptic Impairment Induced by Amyloid- $\beta$ Oligomers Through $\alpha$ 7-Nicotinic Acetylcholine Receptor Activation. <i>NeuroMolecular Medicine</i> , 2013, 15, 549-569.	3.4	77
49	Canonical Wnt signaling protects hippocampal neurons from A $\beta$ oligomers: role of non-canonical Wnt-5a/Ca <sup>2+</sup> in mitochondrial dynamics. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 97.	3.7	77
50	Is L-methionine a trigger factor for Alzheimer's-like neurodegeneration?: Changes in A $\beta$ oligomers, tau phosphorylation, synaptic proteins, Wnt signaling and behavioral impairment in wild-type mice. <i>Molecular Neurodegeneration</i> , 2015, 10, 62.	10.8	77
51	Wnt signaling: Role in LTP, neural networks and memory. <i>Ageing Research Reviews</i> , 2013, 12, 786-800.	10.9	76
52	Calcium/calmodulin-dependent protein kinase type IV is a target gene of the Wnt/ $\beta$ -catenin signaling pathway. <i>Journal of Cellular Physiology</i> , 2009, 221, 658-667.	4.1	71
53	Andrographolide activates the canonical Wnt signalling pathway by a mechanism that implicates the non-ATP competitive inhibition of GSK-3 $\beta$ : autoregulation of GSK-3 $\beta$ <i>in vivo</i> . <i>Biochemical Journal</i> , 2015, 466, 415-430.	3.7	68
54	Andrographolide recovers cognitive impairment in a natural model of Alzheimer's disease (Octodon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.1	68

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55	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
56	Wnt signaling loss accelerates the appearance of neuropathological hallmarks of Alzheimer's disease in APP transgenic and wild-type mice. Journal of Neurochemistry, 2018, 144, 443-465.	3.9	66
57	Modulating Wnt signaling at the root: Porcupine and Wnt acylation. , 2019, 198, 34-45.		65
58	Tetrahydroperforin prevents cognitive deficit, A $\beta$ deposition, tau phosphorylation and synaptotoxicity in the APP <sup>swE</sup> /PSEN1 <sup>E9</sup> model of Alzheimer's disease: a possible effect on APP processing. Translational Psychiatry, 2011, 1, e20-e20.	4.8	62
59	Pathogenicity of Lupus Anti-Ribosomal P Antibodies: Role of Cross-Reacting Neuronal Surface P Antigen in Glutamatergic Transmission and Plasticity in a Mouse Model. Arthritis and Rheumatology, 2015, 67, 1598-1610.	5.6	62
60	Inhibition of Wnt signaling induces amyloidogenic processing of amyloid precursor protein and the production and aggregation of Amyloid $\beta$ (A $\beta$ ) <sub>42</sub> peptides. Journal of Neurochemistry, 2016, 139, 1175-1191.	3.9	62
61	Premature synaptic mitochondrial dysfunction in the hippocampus during aging contributes to memory loss. Redox Biology, 2020, 34, 101558.	9.0	62
62	How the Wnt signaling pathway protects from neurodegeneration: the mitochondrial scenario. Frontiers in Cellular Neuroscience, 2015, 9, 166.	3.7	61
63	Tetrameric (G <sub>4</sub> ) Acetylcholinesterase: Structure, Localization, and Physiological Regulation. Journal of Neurochemistry, 1996, 66, 1335-1346.	3.9	60
64	Chronic hypoxia induces the activation of the Wnt/ $\beta$ -catenin signaling pathway and stimulates hippocampal neurogenesis in wild-type and APP <sup>swE</sup> -PS1 <sup>E9</sup> transgenic mice in vivo. Frontiers in Cellular Neuroscience, 2014, 8, 17.	3.7	60
65	Genetic ablation of tau improves mitochondrial function and cognitive abilities in the hippocampus. Redox Biology, 2018, 18, 279-294.	9.0	60
66	Synaptotoxicity in Alzheimer's Disease: The Wnt Signaling Pathway as a Molecular Target. IUBMB Life, 2007, 59, 316-321.	3.4	58
67	Emerging Synaptic Molecules as Candidates in the Etiology of Neurological Disorders. Neural Plasticity, 2017, 2017, 1-25.	2.2	57
68	Wnt-5a Ligand Modulates Mitochondrial Fission-Fusion in Rat Hippocampal Neurons. Journal of Biological Chemistry, 2014, 289, 36179-36193.	3.4	56
69	Phosphorylated tau potentiates A $\beta$ -induced mitochondrial damage in mature neurons. Neurobiology of Disease, 2014, 71, 260-269.	4.4	55
70	Fructose consumption reduces hippocampal synaptic plasticity underlying cognitive performance. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 2379-2390.	3.8	55
71	Wnt-5a/Frizzled9 Receptor Signaling through the G $\alpha$ -G $\beta$ $\gamma$ Complex Regulates Dendritic Spine Formation. Journal of Biological Chemistry, 2016, 291, 19092-19107.	3.4	53
72	Genome-wide identification of new Wnt/ $\beta$ -catenin target genes in the human genome using CART method. BMC Genomics, 2010, 11, 348.	2.8	50

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73	Adult hippocampal neurogenesis in aging and Alzheimer's disease. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2010, 90, 284-296.	3.6	49
74	Peroxisome Proliferators Reduce Spatial Memory Impairment, Synaptic Failure, and Neurodegeneration in Brains of a Double Transgenic Mice Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 33, 941-959.	2.6	49
75	Angiotensin II increases fibronectin and collagen I through the $\beta$ -catenin-dependent signaling in mouse collecting duct cells. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, F358-F365.	2.7	49
76	Wnt $\beta$ -catenin-induced activation of glucose metabolism mediates the <i>in vivo</i> neuroprotective roles of Wnt signaling in Alzheimer disease. <i>Journal of Neurochemistry</i> , 2019, 149, 54-72.	3.9	49
77	Potential Role of Autonomic Dysfunction in Covid-19 Morbidity and Mortality. <i>Frontiers in Physiology</i> , 2020, 11, 561749.	2.8	49
78	Andrographolide Stimulates Neurogenesis in the Adult Hippocampus. <i>Neural Plasticity</i> , 2015, 2015, 1-13.	2.2	47
79	Alzheimer's disease: relevant molecular and physiopathological events affecting amyloid- $\beta$ brain balance and the putative role of PPARs. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 176.	3.4	46
80	Activation of Wnt Signaling in Cortical Neurons Enhances Glucose Utilization through Glycolysis. <i>Journal of Biological Chemistry</i> , 2016, 291, 25950-25964.	3.4	46
81	Alzheimer's Disease-Related Protein Expression in the Retina of <i>Octodon degus</i> . <i>PLoS ONE</i> , 2015, 10, e0135499.	2.5	45
82	Discovery of a Potent Dual Inhibitor of Acetylcholinesterase and Butyrylcholinesterase with Antioxidant Activity that Alleviates Alzheimer-like Pathology in Old APP/PS1 Mice. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 812-839.	6.4	45
83	Age Progression of Neuropathological Markers in the Brain of the Chilean Rodent <i>Octodon degus</i> , a Natural Model of Alzheimer's Disease. <i>Brain Pathology</i> , 2015, 25, 679-691.	4.1	42
84	Association of Acetylcholinesterase with the cell surface. <i>Journal of Membrane Biology</i> , 1990, 118, 1-9.	2.1	41
85	Wnt Signaling Prevents the $\beta$ Oligomer-Induced Mitochondrial Permeability Transition Pore Opening Preserving Mitochondrial Structure in Hippocampal Neurons. <i>PLoS ONE</i> , 2017, 12, e0168840.	2.5	41
86	Wnt-5a increases NO and modulates NMDA receptor in rat hippocampal neurons. <i>Biochemical and Biophysical Research Communications</i> , 2014, 444, 189-194.	2.1	39
87	Wnt/TLR Dialog in Neuroinflammation, Relevance in Alzheimer's Disease. <i>Frontiers in Immunology</i> , 2017, 8, 187.	4.8	39
88	The Hyperforin Derivative IDN5706 Occludes Spatial Memory Impairments and Neuropathological Changes in a Double Transgenic Alzheimers Mouse Model. <i>Current Alzheimer Research</i> , 2010, 7, 126-133.	1.4	38
89	Release of acetylcholinesterase (AChE) from $\beta$ -amyloid plaques assemblies improves the spatial memory impairments in APP-transgenic mice. <i>Chemico-Biological Interactions</i> , 2008, 175, 142-149.	4.0	37
90	Pathologically phosphorylated tau at S396/404 (PHF-1) is accumulated inside of hippocampal synaptic mitochondria of aged Wild-type mice. <i>Scientific Reports</i> , 2021, 11, 4448.	3.3	37

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91	Peroxisome Proliferator-activated Receptors and Alzheimer's Disease: Hitting the Blood-Brain Barrier. <i>Molecular Neurobiology</i> , 2013, 48, 438-451.	4.0	36
92	Wnt3a ligand facilitates autophagy in hippocampal neurons by modulating a novel GSK-3 $\beta$ -AMPK axis. <i>Cell Communication and Signaling</i> , 2018, 16, 15.	6.5	36
93	Laminin blocks the assembly of wild-type A $\beta$ and the Dutch variant peptide into Alzheimer's fibrils. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1998, 5, 16-23.	3.0	34
94	Tetrahydrohyperforin Increases Adult Hippocampal Neurogenesis in Wild-Type and APP <sup>swe</sup> /PS1 <sup>E9</sup> Mice. <i>Journal of Alzheimer's Disease</i> , 2013, 34, 873-885.	2.6	34
95	Modulation of Glucose Metabolism in Hippocampal Neurons by Adiponectin and Resistin. <i>Molecular Neurobiology</i> , 2019, 56, 3024-3037.	4.0	34
96	Presymptomatic Treatment With Andrographolide Improves Brain Metabolic Markers and Cognitive Behavior in a Model of Early-Onset Alzheimer's Disease. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 295.	3.7	34
97	Tetrahydrohyperforin Inhibits the Proteolytic Processing of Amyloid Precursor Protein and Enhances Its Degradation by Atg5-Dependent Autophagy. <i>PLoS ONE</i> , 2015, 10, e0136313.	2.5	34
98	Alcohol consumption during adolescence: A link between mitochondrial damage and ethanol brain intoxication. <i>Birth Defects Research</i> , 2017, 109, 1623-1639.	1.5	33
99	Huperzine A and Its Neuroprotective Molecular Signaling in Alzheimer's Disease. <i>Molecules</i> , 2021, 26, 6531.	3.8	33
100	Frizzled-5 Receptor Is Involved in Neuronal Polarity and Morphogenesis of Hippocampal Neurons. <i>PLoS ONE</i> , 2013, 8, e78892.	2.5	32
101	Brain glucose metabolism: Role of Wnt signaling in the metabolic impairment in Alzheimer's disease. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 80, 316-328.	6.1	32
102	Adolescent Binge Alcohol Exposure Affects the Brain Function Through Mitochondrial Impairment. <i>Molecular Neurobiology</i> , 2017, 55, 4473-4491.	4.0	31
103	Possible role of mitochondrial permeability transition pore in the pathogenesis of Huntington disease. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 1078-1083.	2.1	31
104	Effect of Alcohol on Hippocampal-Dependent Plasticity and Behavior: Role of Glutamatergic Synaptic Transmission. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 288.	2.0	31
105	Wnt signaling modulates pre- and postsynaptic maturation: Therapeutic considerations. <i>Developmental Dynamics</i> , 2010, 239, 94-101.	1.8	30
106	Andrographolide Reduces Neuroinflammation and Oxidative Stress in Aged Octodon degus. <i>Molecular Neurobiology</i> , 2020, 57, 1131-1145.	4.0	30
107	The role of Wnt signaling in neuroprotection. <i>Drug News and Perspectives</i> , 2009, 22, 579.	1.5	30
108	WASP-1, a canonical Wnt signaling potentiator, rescues hippocampal synaptic impairments induced by A $\beta$ oligomers. <i>Experimental Neurology</i> , 2015, 264, 14-25.	4.1	29

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109	Induction of hypothyroidism during early postnatal stages triggers a decrease in cognitive performance by decreasing hippocampal synaptic plasticity. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 870-883.	3.8	28
110	Alcohol impairs hippocampal function: From NMDA receptor synaptic transmission to mitochondrial function. <i>Drug and Alcohol Dependence</i> , 2019, 205, 107628.	3.2	28
111	Effects of long-lasting social isolation and re-socialization on cognitive performance and brain activity: a longitudinal study in <i>Octodon degus</i> . <i>Scientific Reports</i> , 2020, 10, 18315.	3.3	28
112	Wnt-7a Stimulates Dendritic Spine Morphogenesis and PSD-95 Expression Through Canonical Signaling. <i>Molecular Neurobiology</i> , 2019, 56, 1870-1882.	4.0	27
113	Tetrahydrohyperforin Decreases Cholinergic Markers associated with Amyloid- $\beta^2$ Plaques, 4-Hydroxynonenol Formation, and Caspase-3 Activation in $A\beta^{2PP/PS1}$ Mice. <i>Journal of Alzheimer's Disease</i> , 2013, 36, 99-118.	2.6	26
114	The increased potassium intake improves cognitive performance and attenuates histopathological markers in a model of Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 2630-2644.	3.8	26
115	Identification of Cerebral Metal Ion Imbalance in the Brain of Aging <i>Octodon degus</i> . <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 66.	3.4	26
116	Synaptic Mitochondria: An Early Target of Amyloid- $\beta^2$ and Tau in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021, 84, 1391-1414.	2.6	26
117	Frizzled receptors in neurons: From growth cones to the synapse. <i>Cytoskeleton</i> , 2012, 69, 528-534.	2.0	25
118	On cognitive ecology and the environmental factors that promote Alzheimer disease: lessons from <i>Octodon degus</i> (Rodentia: Octodontidae). <i>Biological Research</i> , 2016, 49, 10.	3.4	25
119	Adolescence binge alcohol consumption induces hippocampal mitochondrial impairment that persists during the adulthood. <i>Neuroscience</i> , 2019, 406, 356-368.	2.3	25
120	The soluble extracellular fragment of neuroligin-1 targets $A\beta^2$ oligomers to the postsynaptic region of excitatory synapses. <i>Biochemical and Biophysical Research Communications</i> , 2015, 466, 66-71.	2.1	23
121	Wnt Signaling Pathway Dysregulation in the Aging Brain: Lessons From the <i>Octodon degus</i> . <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 734.	3.7	23
122	Cognitive impairment in heart failure is associated with altered Wnt signaling in the hippocampus. <i>Aging</i> , 2019, 11, 5924-5942.	3.1	23
123	Environmental control of microRNAs in the nervous system: Implications in plasticity and behavior. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 60, 121-138.	6.1	22
124	GALECTIN-8 Is a Neuroprotective Factor in the Brain that Can Be Neutralized by Human Autoantibodies. <i>Molecular Neurobiology</i> , 2019, 56, 7774-7788.	4.0	22
125	A novel function for Wnt signaling modulating neuronal firing activity and the temporal structure of spontaneous oscillation in the entorhinal-hippocampal circuit. <i>Experimental Neurology</i> , 2015, 269, 43-55.	4.1	21
126	New Insights into the Spontaneous Human Alzheimer's Disease-Like Model <i>Octodon degus</i> : Unraveling Amyloid- $\beta^2$ Peptide Aggregation and Age-Related Amyloid Pathology. <i>Journal of Alzheimer's Disease</i> , 2018, 66, 1145-1163.	2.6	21



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127	Palmitic acid reduces the autophagic flux in hypothalamic neurons by impairing autophagosome-lysosome fusion and endolysosomal dynamics. <i>Molecular and Cellular Oncology</i> , 2020, 7, 1789418.	0.7	20
128	$\beta$ -Catenin-Dependent Signaling Pathway Contributes to Renal Fibrosis in Hypertensive Rats. <i>BioMed Research International</i> , 2015, 2015, 1-13.	1.9	18
129	Phosphorylated tau as a toxic agent in synaptic mitochondria: implications in aging and Alzheimer's disease. <i>Neural Regeneration Research</i> , 2022, 17, 1645.	3.0	18
130	Long-Term, Fructose-Induced Metabolic Syndrome-Like Condition Is Associated with Higher Metabolism, Reduced Synaptic Plasticity and Cognitive Impairment in <i>Octodon degus</i> . <i>Molecular Neurobiology</i> , 2018, 55, 9169-9187.	4.0	16
131	Evidence of Synaptic and Neurochemical Remodeling in the Retina of Aging <i>Degus</i> . <i>Frontiers in Neuroscience</i> , 2020, 14, 161.	2.8	16
132	Wnt5a inhibits K <sup>+</sup> currents in hippocampal synapses through nitric oxide production. <i>Molecular and Cellular Neurosciences</i> , 2015, 68, 314-322.	2.2	15
133	Canonical Wnt Signaling Modulates the Expression of Pre- and Postsynaptic Components in Different Temporal Patterns. <i>Molecular Neurobiology</i> , 2020, 57, 1389-1404.	4.0	14
134	Tau Deletion Prevents Cognitive Impairment and Mitochondrial Dysfunction Age Associated by a Mechanism Dependent on Cyclophilin-D. <i>Frontiers in Neuroscience</i> , 2020, 14, 586710.	2.8	14
135	Teneurin and Alzheimer's disease: A suggestive role for a unique family of proteins. <i>Medical Hypotheses</i> , 2015, 84, 402-407.	1.5	13
136	Tetrahydroperforin Induces Mitochondrial Dynamics and Prevents Mitochondrial Ca <sup>2+</sup> Overload after A $\beta$ and A $\beta$ -AChE Complex Challenge in Rat Hippocampal Neurons. <i>Journal of Alzheimer's Disease</i> , 2013, 37, 735-746.	2.6	12
137	"Live together, die alone": The effect of re-socialization on behavioural performance and social-affective brain-related proteins after a long-term chronic social isolation stress. <i>Neurobiology of Stress</i> , 2021, 14, 100289.	4.0	12
138	The ROR2 tyrosine kinase receptor regulates dendritic spine morphogenesis in hippocampal neurons. <i>Molecular and Cellular Neurosciences</i> , 2015, 67, 22-30.	2.2	11
139	Wnt signaling pathway improves central inhibitory synaptic transmission in a mouse model of Duchenne muscular dystrophy. <i>Neurobiology of Disease</i> , 2016, 86, 109-120.	4.4	11
140	Hormetic-Like Effects of L-Homocysteine on Synaptic Structure, Function, and A $\beta$ Aggregation. <i>Pharmaceuticals</i> , 2020, 13, 24.	3.8	11
141	Andrographolide restores glucose uptake in rat hippocampal neurons. <i>Journal of Neurochemistry</i> , 2021, 157, 1222-1233.	3.9	11
142	Wnt-related SynGAP1 is a neuroprotective factor of glutamatergic synapses against A $\beta$ oligomers. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 227.	3.7	10
143	Wnt5a Increases the Glycolytic Rate and the Activity of the Pentose Phosphate Pathway in Cortical Neurons. <i>Neural Plasticity</i> , 2016, 2016, 1-13.	2.2	10
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