Vicente Felipo

List of Publications by Year
in descending order

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322 papers	13,120 citations	20817 60 h-index	38395 95 g-index
330 all docs	330 docs citations	330 times ranked	8285 citing authors

#	Article	IF	Citations
1	Neurobiology of ammonia. Progress in Neurobiology, 2002, 67, 259-279.	5.7	554
2	Repeated alcohol administration during adolescence causes changes in the mesolimbic dopaminergic and glutamatergic systems and promotes alcohol intake in the adult rat. Journal of Neurochemistry, 2009, 108, 920-931.	3.9	292
3	Hepatic encephalopathy: effects of liver failure on brain function. Nature Reviews Neuroscience, 2013, 14, 851-858.	10.2	292
4	Value of the critical flicker frequency in patients with minimal hepatic encephalopathy. Hepatology, 2007, 45, 879-885.	7.3	282
5	Hyperammonemia Induces Neuroinflammation That Contributes to Cognitive Impairment in Rats With Hepatic Encephalopathy. Gastroenterology, 2010, 139, 675-684.	1.3	278
6	Experimental models of hepatic encephalopathy: ISHEN guidelines. Liver International, 2009, 29, 783-788.	3.9	254
7	Activation ofN-methyl-D-aspartate receptors in rat brainin vivo following acute ammonia intoxication: Characterization byin vivo brain microdialysis. Hepatology, 2000, 31, 709-715.	7.3	251
8	Superoxide Production and Antioxidant Enzymes in Ammonia Intoxication in Rats. Free Radical Research, 1997, 27, 637-644.	3.3	194
9	Inflammation and hepatic encephalopathy: Ibuprofen restores learning ability in rats with portacaval shunts. Hepatology, 2007, 46, 514-519.	7.3	190
10	Acute ammonia toxicity is mediated by the NMDA type of glutamate receptors. FEBS Letters, 1992, 296, 67-68.	2.8	181
11	Brain ATP Depletion Induced by Acute Ammonia Intoxication in Rats Is Mediated by Activation of the NMDA Receptor and Na⁺, K⁺â€ATPase. Journal of Neurochemistry, 1994, 63, 2172-2178.	3.9	171
12	Chronic hyperammonemia impairs the glutamate-nitric oxide-cyclic GMP pathway in cerebellar neurons in culture and in the ratin vivo. European Journal of Neuroscience, 1998, 10, 3201-3209.	2.6	166
13	Oral administration of sildenafil restores learning ability in rats with hyperammonemia and with portacaval shunts. Hepatology, 2005, 41, 299-306.	7.3	154
14	Contribution of hyperammonemia and inflammatory factors to cognitive impairment in minimal hepatic encephalopathy. Metabolic Brain Disease, 2012, 27, 51-58.	2.9	148
15	Brain edema and inflammatory activation in bile duct ligated rats with diet-induced hyperammonemia: A model of hepatic encephalopathy in cirrhosis. Hepatology, 2006, 43, 1257-1266.	7.3	147
16	IL-6 and IL-18 in Blood May Discriminate Cirrhotic Patients With and Without Minimal Hepatic Encephalopathy. Journal of Clinical Gastroenterology, 2009, 43, 272-279.	2.2	145
17	NMDA Receptor antagonists prevent acute ammonia toxicity in mice. Neurochemical Research, 1996, 21, 1237-1244.	3.3	139
18	Glutamine synthetase activity and glutamine content in brain: modulation by NMDA receptors and nitric oxide. Neurochemistry International, 2003, 43, 493-499.	3.8	138

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19	Blocking NMDA receptors prevents the oxidative stress induced by acute ammonia intoxication. Free Radical Biology and Medicine, 1999, 26, 1369-1374.	2.9	137
20	Urea cycle dysregulation in non-alcoholic fatty liver disease. Journal of Hepatology, 2018, 69, 905-915.	3.7	123
21	Sources of oxygen radicals in brain in acute ammonia intoxication in vivo. Brain Research, 2003, 981, 193-200.	2.2	120
22	Glutamatergic and gabaergic neurotransmission and neuronal circuits in hepatic encephalopathy. Metabolic Brain Disease, 2009, 24, 69-80.	2.9	120
23	Chronic Moderate Hyperammonemia Impairs Active and Passive Avoidance Behavior and Conditional Discrimination Learning in Rats. Experimental Neurology, 2000, 161, 704-713.	4.1	116
24	Restoration of learning ability in hyperammonemic rats by increasing extracellular cGMP in brain. Brain Research, 2005, 1036, 115-121.	2.2	106
25	Long-Term Potentiation in Hippocampus Involves Sequential Activation of Soluble Guanylate Cyclase, cGMP-Dependent Protein Kinase, and cGMP-Degrading Phosphodiesterase. Journal of Neuroscience, 2002, 22, 10116-10122.	3.6	105
26	Hyperammonemia Increases GABAergic Tone in the Cerebellum but Decreases It in the Rat Cortex. Gastroenterology, 2009, 136, 1359-1367.e2.	1.3	102
27	Inhibitors of protein kinase C prevent the toxicity of glutamate in primary neuronal cultures. Brain Research, 1993, 604, 192-196.	2.2	100
28	Hyperammonemia induces glial activation, neuroinflammation and alters neurotransmitter receptors in hippocampus, impairing spatial learning: reversal by sulforaphane. Journal of Neuroinflammation, 2016, 13, 41.	7.2	99
29	Neuroinflammation increases GABAergic tone and impairs cognitive and motor function in hyperammonemia by increasing GAT-3 membrane expression. Reversal by sulforaphane by promoting M2 polarization of microglia. Journal of Neuroinflammation, 2016, 13, 83.	7.2	92
30	Brain cholinergic impairment in liver failure. Brain, 2008, 131, 2946-2956.	7.6	88
31	Nitroarginine, an inhibitor of nitric oxide synthase, prevents changes in superoxide radical and antioxidant enzymes induced by ammonia intoxication. Metabolic Brain Disease, 1998, 13, 29-41.	2.9	87
32	Ammonia Prevents Activation of NMDA Receptors by Glutamate in Rat Cerebellar Neuronal Cultures. European Journal of Neuroscience, 1995, 7, 2389-2396.	2.6	86
33	Molecular mechanism of acute ammonia toxicity: role of NMDA receptors. Neurochemistry International, 2002, 41, 95-102.	3.8	86
34	Nicotine prevents glutamate-induced proteolysis of the microtubule-associated protein MAP-2 and glutamate neurotoxicity in primary cultures of cerebellar neurons. Neuropharmacology, 1998, 37, 847-857.	4.1	85
35	Glutamate Induces a Calcineurinâ€Mediated Dephosphorylation of Na⁺,K⁺â€ATPase that Results in Its Activation in Cerebellar Neurons in Culture. Journal of Neurochemistry, 1996, 66, 99-104.	3.9	82
36	Developmental exposure to polychlorinated biphenyls 52, 138 or 180 affects differentially learning or motor coordination in adult rats. mechanisms involved. Neuroscience, 2010, 167, 994-1003.	2.3	82

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37	A simple animal model of hyperammonemia. Hepatology, 1989, 10, 311-314.	7.3	81
38	Effects of acute hyperammonemiain Vivo on oxidative metabolism in nonsynaptic rat brain mitochondria. Metabolic Brain Disease, 1997, 12, 69-82.	2.9	81
39	Patients with minimal hepatic encephalopathy show impaired mismatch negativity correlating with reduced performance in attention tests. Hepatology, 2012, 55, 530-539.	7.3	81
40	Long-term ingestion of ammonium increases acetylglutamate and urea levels without affecting the amount of carbamoyl-phosphate synthase. FEBS Journal, 1988, 176, 567-571.	0.2	80
41	Effects of hyperammonemia and liver failure on glutamatergic neurotransmission. Metabolic Brain Disease, 2002, 17, 237-250.	2.9	80
42	Nitroarginine, an inhibitor of nitric oxide synthetase, attenuates ammonia toxicity and ammonia-induced alterations in brain metabolism. Neurochemical Research, 1995, 20, 451-456.	3.3	77
43	Alteration of mitochondrial calcium homeostasis by ammonia-induced activation of NMDA receptors in rat brain in vivo. Brain Research, 2000, 880, 139-146.	2.2	77
44	Chronic hyperammonemia induces peripheral inflammation that leads to cognitive impairment in rats: Reversed by anti-TNF-Î± treatment. Journal of Hepatology, 2020, 73, 582-592.	3.7	77
45	Region selective alterations of soluble guanylate cyclase content and modulation in brain of cirrhotic patients. Hepatology, 2002, 36, 1155-1162.	7.3	73
46	Altered content and modulation of soluble guanylate cyclase in the cerebellum of rats with portacaval anastomosis. Neuroscience, 2001, 104, 1119-1125.	2.3	72
47	NMDA receptors in hyperammonemia and hepatic encephalopathy. Metabolic Brain Disease, 2007, 22, 321-335.	2.9	70
48	Reducing Peripheral Inflammation with Infliximab Reduces Neuroinflammation and Improves Cognition in Rats with Hepatic Encephalopathy. Frontiers in Molecular Neuroscience, 2016, 9, 106.	2.9	69
49	Hyperammonemia impairs NMDA receptor-dependent long-term potentiation in the CA1 of rat hippocampus in vitro. Neurochemical Research, 2000, 25, 437-441.	3.3	68
50	Sildenafil reduces neuroinflammation and restores spatial learning in rats with hepatic encephalopathy: underlying mechanisms. Journal of Neuroinflammation, 2015, 12, 195.	7.2	68
51	Î²-Amyloid-induced activation of Caspase-3 in primary cultures of rat neurons. Mechanisms of Ageing and Development, 2000, 119, 63-67.	4.6	67
52	Chronic liver failure in rats impairs glutamatergic synaptic transmission and long-term potentiation in hippocampus and learning ability. European Journal of Neuroscience, 2007, 25, 2103-2111.	2.6	67
53	Mechanisms of cognitive alterations in hyperammonemia and hepatic encephalopathy: Therapeutical implications. Neurochemistry International, 2009, 55, 106-112.	3.8	67
54	Mitochondrial dysfunction in acute hyperammonemia. Neurochemistry International, 2002, 40, 487-491.	3.8	66

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55	Neuroinflammation contributes to hypokinesia in rats with hepatic encephalopathy: Ibuprofen restores its motor activity. Journal of Neuroscience Research, 2009, 87, 1369-1374.	2.9	66
56	Peripheral inflammation induces neuroinflammation that alters neurotransmission and cognitive and motor function in hepatic encephalopathy: Underlying mechanisms and therapeutic implications. Acta Physiologica, 2019, 226, e13270.	3.8	66
57	Induction of Rat Brain Tubulin Following Ammonium Ingestion. Journal of Neurochemistry, 1988, 51, 1041-1045.	3.9	64
58	Ammonium Injection Induces an N-Methyl-d-Aspartate Receptor-Mediated Proteolysis of the Microtubule-Associated Protein MAP-2. Journal of Neurochemistry, 1993, 60, 1626-1630.	3.9	64
59	Serines 890 and 896 of the NMDA receptor subunit NR1 are differentially phosphorylated by protein kinase C isoforms. Neurochemistry International, 2005, 47, 84-91.	3.8	63
60	3-Nitro-Tyrosine as a Peripheral Biomarker of Minimal Hepatic Encephalopathy in Patients With Liver Cirrhosis. American Journal of Gastroenterology, 2011, 106, 1629-1637.	0.4	63
61	p38 MAP kinase is a therapeutic target for hepatic encephalopathy in rats with portacaval shunts. Gut, 2011, 60, 1572-1579.	12.1	63
62	Infliximab reduces peripheral inflammation, neuroinflammation, and extracellular GABA in the cerebellum and improves learning and motor coordination in rats with hepatic encephalopathy. Journal of Neuroinflammation, 2016, 13, 245.	7.2	63
63	Modulation of NMDA receptors in the cerebellum. 1. Properties of the NMDA receptor that modulate its function. Cerebellum, 2005, 4, 154-161.	2.5	61
64	Sildenafil citrate improves perinatal outcome in fetuses from preâ€eclamptic rats. BJOG: an International Journal of Obstetrics and Gynaecology, 2012, 119, 1394-1402.	2.3	60
65	Role of cyclic GMP in glutamate neurotoxicity in primary cultures of cerebellar neurons. Neuropharmacology, 1999, 38, 1883-1891.	4.1	59
66	Aluminium impairs the glutamate-nitric oxide-cGMP pathway in cultured neurons and in rat brain in vivo: molecular mechanisms and implications for neuropathology. Journal of Inorganic Biochemistry, 2001, 87, 63-69.	3.5	59
67	Gender Differences in Spatial Learning, Synaptic Activity, and Long-Term Potentiation in the Hippocampus in Rats: Molecular Mechanisms. ACS Chemical Neuroscience, 2015, 6, 1420-1427.	3.5	58
68	Metallothionein-III Prevents Glutamate and Nitric Oxide Neurotoxicity in Primary Cultures of Cerebellar Neurons. Journal of Neurochemistry, 2001, 75, 266-273.	3.9	56
69	Role of NMDA receptors in acute liver failure and ammonia toxicity: Therapeutical implications. Neurochemistry International, 2009, 55, 113-118.	3.8	56
70	Lack of correlation between glutamate-induced depletion of ATP and neuronal death in primary cultures of cerebellum. Brain Research, 1995, 695, 146-150.	2.2	55
71	Hypolocomotion in rats with chronic liver failure is due to increased glutamate and activation of metabotropic glutamate receptors in substantia nigra. Journal of Hepatology, 2006, 45, 654-661.	3.7	55
72	Brain Region-Selective Mechanisms Contribute to the Progression of Cerebral Alterations in Acute Liver Failure in Rats. Gastroenterology, 2011, 140, 638-645.	1.3	55

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73	Activation of NMDA receptors induces protein kinase A-mediated phosphorylation and degradation of matrin 3. Blocking these effects prevents NMDA-induced neuronal death. Journal of Neurochemistry, 2005, 94, 808-818.	3.9	54
74	Serum Metabolic Signature of Minimal Hepatic Encephalopathy by ¹H-Nuclear Magnetic Resonance. Journal of Proteome Research, 2010, 9, 5180-5187.	3.7	54
75	Developmental exposure to polychlorinated biphenyls PCB153 or PCB126 impairs learning ability in young but not in adult rats. European Journal of Neuroscience, 2008, 27, 177-182.	2.6	53
76	GR3027 antagonizes GABA_A receptor-potentiating neurosteroids and restores spatial learning and motor coordination in rats with chronic hyperammonemia and hepatic encephalopathy. American Journal of Physiology - Renal Physiology, 2015, 309, G400-G409.	3.4	53
77	Chronic hyperammonemia prevents changes in brain energy and ammonia metabolites induced by acute ammonium intoxication. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1993, 1180, 321-326.	3.8	49
78	Downregulation of nNOS and synthesis of PGs associated with endotoxin-induced delay in gastric emptying. American Journal of Physiology - Renal Physiology, 2002, 283, G1360-G1367.	3.4	48
79	Inhibition of protein kinase C induces differentiation in Neuro-2a cells.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 4335-4339.	7.1	47
80	Pregnenolone Sulfate Restores the Glutamate-Nitric-Oxide-cGMP Pathway and Extracellular GABA in Cerebellum and Learning and Motor Coordination in Hyperammonemic Rats. ACS Chemical Neuroscience, 2014, 5, 100-105.	3.5	47
81	Inhibition of Protein Kinase C Restores Na+, K+-ATPase Activity in Sciatic Nerve of Diabetic Mice. Journal of Neurochemistry, 1992, 58, 1246-1249.	3.9	46
82	Developmental exposure to polychlorinated biphenyls or methylmercury, but not to its combination, impairs the glutamateâ€“nitric oxideâ€“cyclic GMP pathway and learning in 3-month-old rats. Neuroscience, 2008, 154, 1408-1416.	2.3	45
83	Chronic Exposure to Aluminum Impairs Neuronal Glutamate-Nitric Oxide-Cyclic GMP Pathway. Journal of Neurochemistry, 2002, 70, 1609-1614.	3.9	44
84	Sildenafil reduces neuroinflammation in cerebellum, restores <scp>GABA</scp>ergic tone, and improves motor inâ€coordination in rats with hepatic encephalopathy. CNS Neuroscience and Therapeutics, 2017, 23, 386-394.	3.9	43
85	L-Carnitine increases the affinity of glutamate for quisqualate receptors and prevents glutamate neurotoxicity. Neurochemical Research, 1994, 19, 373-377.	3.3	42
86	Alcohol exposure during brain development reduces 3H-MK-801 binding and enhances metabotropic-glutamate receptor-stimulated phosphoinositide hydrolysis in rat hippocampus. Life Sciences, 1995, 56, 1373-1383.	4.3	42
87	Chronic hyperammonemia alters motor and neurochemical responses to activation of group i metabotropic glutamate receptors in the nucleus accumbens in rats in vivo. Neurobiology of Disease, 2003, 14, 380-390.	4.4	42
88	Chronic hyperammonemia reduces the activity of neuronal nitric oxide synthase in cerebellum by altering its localization and increasing its phosphorylation by calciumâ€calmodulin kinase II. Journal of Neurochemistry, 2008, 106, 1440-1449.	3.9	42
89	Interplay between glutamatergic and GABAergic neurotransmission alterations in cognitive and motor impairment in minimal hepatic encephalopathy. Neurochemistry International, 2015, 88, 15-19.	3.8	42
90	A Novel N-Methyl-d-aspartate Receptor Open Channel Blocker with in Vivo Neuroprotectant Activity. Journal of Pharmacology and Experimental Therapeutics, 2002, 302, 163-173.	2.5	41

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91	Prenatal Exposure to Aluminum Reduces Expression of Neuronal Nitric Oxide Synthase and of Soluble Guanylate Cyclase and Impairs Glutamatergic Neurotransmission in Rat Cerebellum. Journal of Neurochemistry, 2002, 73, 712-718.	3.9	41
92	Limited Capacity for Ammonia Removal by Brain in Chronic Liver Failure: Potential Role of Nitric Oxide. Metabolic Brain Disease, 2005, 20, 275-283.	2.9	41
93	Magnetic resonance analysis of the effects of acute ammonia intoxication on rat brain. Role of NMDA receptors. Journal of Neurochemistry, 2007, 103, 1334-1343.	3.9	41
94	Acute ammonia intoxication induces an NMDA receptor-mediated increase in poly(ADP-ribose) polymerase level and NAD+ metabolism in nuclei of rat brain cells. Journal of Neurochemistry, 2004, 89, 1101-1110.	3.9	40
95	The Cerebellum of Patients with Steatohepatitis Shows Lymphocyte Infiltration, Microglial Activation and Loss of Purkinje and Granular Neurons. Scientific Reports, 2018, 8, 3004.	3.3	40
96	Phosphate-activated glutaminase activity is enhanced in brain, intestine and kidneys of rats following portacaval anastomosis. World Journal of Gastroenterology, 2006, 12, 2406.	3.3	40
97	Differential long-term effects of developmental exposure to polychlorinated biphenyls 52, 138 or 180 on motor activity and neurotransmission. Gender dependence and mechanisms involved. Neurochemistry International, 2011, 58, 69-77.	3.8	39
98	Focal cortical damage parallels cognitive impairment in minimal hepatic encephalopathy. NeuroImage, 2012, 61, 1165-1175.	4.2	39
99	Modulation of glutamine synthesis in cultured astrocytes by nitric oxide. Cellular and Molecular Neurobiology, 1997, 17, 433-445.	3.3	38
100	Changes in liver and plasma acetylcholinesterase in rats with cirrhosis induced by bile duct ligation. Hepatology, 2006, 43, 444-453.	7.3	38
101	Proteome Analysis of Primary Neurons and Astrocytes from Rat Cerebellum. Journal of Proteome Research, 2005, 4, 768-788.	3.7	37
102	Motor activity is modulated via different neuronal circuits in rats with chronic liver failure than in normal rats. European Journal of Neuroscience, 2007, 25, 2112-2122.	2.6	37
103	Acute liver failure-induced death of rats is delayed or prevented by blocking NMDA receptors in brain. American Journal of Physiology - Renal Physiology, 2008, 295, G503-G511.	3.4	37
104	Developmental Exposure to Pesticides Alters Motor Activity and Coordination in Rats: Sex Differences and Underlying Mechanisms. Neurotoxicity Research, 2018, 33, 247-258.	2.7	37
105	Sequential activation of soluble guanylate cyclase, protein kinase G and cGMP-degrading phosphodiesterase is necessary for proper induction of long-term potentiation in CA1 of hippocampus. Neurochemistry International, 2004, 45, 895-901.	3.8	36
106	Modulation of NMDA receptors in the cerebellum. II. Signaling pathways and physiological modulators regulating NMDA receptor function. Cerebellum, 2005, 4, 162-170.	2.5	36
107	Expression and traffic of cellular prolyl oligopeptidase are regulated during cerebellar granule cell differentiation, maturation, and aging. Neuroscience, 2008, 156, 580-585.	2.3	36
108	Cyclic GMP pathways in hepatic encephalopathy. Neurological and therapeutic implications. Metabolic Brain Disease, 2010, 25, 39-48.	2.9	36

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109	Non invasive blood flow measurement in cerebellum detects minimal hepatic encephalopathy earlier than psychometric tests. World Journal of Gastroenterology, 2014, 20, 11815.	3.3	36
110	Ebselen Prevents Chronic Alcoholâ€Induced Rat Hippocampal Stress and Functional Impairment. Alcoholism: Clinical and Experimental Research, 2007, 31, 486-492.	2.4	35
111	Glutamate-induced activation of nitric oxide synthase is impaired in cerebral cortexinÂvivoin rats with chronic liver failure. Journal of Neurochemistry, 2007, 102, 51-64.	3.9	35
112	Increasing the function of the glutamateâ€nitric oxideâ€cyclic guanosine monophosphate pathway increases the ability to learn a Yâ€maze task. Journal of Neuroscience Research, 2009, 87, 2351-2355.	2.9	35
113	Polychlorinated Biphenyls PCB 52, PCB 180, and PCB 138 Impair the Glutamateâ^'Nitric Oxideâ^'cGMP Pathway in Cerebellar Neurons in Culture by Different Mechanisms. Chemical Research in Toxicology, 2010, 23, 813-820.	3.3	35
114	Increasing extracellular cGMP in cerebellum in vivo reduces neuroinflammation, GABAergic tone and motor in-coordination in hyperammonemic rats. Brain, Behavior, and Immunity, 2018, 69, 386-398.	4.1	35
115	Hyperammonemia decreases protein-kinase-C-dependent phosphorylation of microtubule-associated protein 2 and increases its binding to tubulin. FEBS Journal, 1993, 214, 243-249.	0.2	34
116	Chronic exposure to aluminium impairs the glutamate-nitric oxide-cyclic GMP pathway in the rat in vivo. Neurochemistry International, 1999, 34, 245-253.	3.8	34
117	The function of the glutamate-nitric oxide-cGMP pathway in brain in vivo and learning ability decrease in parallel in mature compared with young rats. Learning and Memory, 2007, 14, 254-258.	1.3	34
118	Extracellular cGMP Modulates Learning Biphasically by Modulating Glycine Receptors, CaMKII and Glutamate-Nitric Oxide-cGMP Pathway. Scientific Reports, 2016, 6, 33124.	3.3	34
119	Inhibition of protein kinase C induces differentiation of neuroblastoma cells. FEBS Letters, 1989, 255, 184-186.	2.8	33
120	cGMP modulates stem cells differentiation to neurons in brain in vivo. Neuroscience, 2010, 165, 1275-1283.	2.3	33
121	Potentiation of the Transient Receptor Potential Vanilloid 1 Channel Contributes to Pruritogenesis in a Rat Model of Liver Disease*. Journal of Biological Chemistry, 2013, 288, 9675-9685.	3.4	33
122	The PHES battery does not detect all cirrhotic patients with early neurological deficits, which are different in different patients. PLoS ONE, 2017, 12, e0171211.	2.5	33
123	Chronic hyperammonemia induces tonic activation of NMDA receptors in cerebellum. Journal of Neurochemistry, 2010, 112, 1005-1014.	3.9	32
124	Hyperammonemia impairs long-term potentiation in hippocampus by altering the modulation of cGMP-degrading phosphodiesterase by protein kinase G. Neurobiology of Disease, 2004, 15, 1-10.	4.4	31
125	Encapsulation of glutamine synthetase in mouse erythrocytes: a new procedure for ammonia detoxification. Biochemistry and Cell Biology, 2008, 86, 469-476.	2.0	31
126	Chronic hyperammonemia, glutamatergic neurotransmission and neurological alterations. Metabolic Brain Disease, 2013, 28, 151-154.	2.9	31

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127	Gender differential effects of developmental exposure to methyl-mercury, polychlorinated biphenyls 126 or 153, or its combinations on motor activity and coordination. Toxicology, 2013, 311, 61-68.	4.2	31
128	Sex-dependent effects of developmental exposure to different pesticides on spatial learning. The role of induced neuroinflammation in the hippocampus. Food and Chemical Toxicology, 2017, 99, 135-148.	3.6	31
129	Activation of soluble guanylate cyclase by nitric oxide in lymphocytes correlates with minimal hepatic encephalopathy in cirrhotic patients. Journal of Molecular Medicine, 2007, 85, 237-245.	3.9	30
130	Serum nitrotyrosine and psychometric tests as indicators of impaired fitness to drive in cirrhotic patients with minimal hepatic encephalopathy. Liver International, 2013, 33, 1478-1489.	3.9	30
131	Minimal hepatic encephalopathy is associated with expansion and activation of CD4+CD28â˜, Th22 and Tfh and B lymphocytes. Scientific Reports, 2017, 7, 6683.	3.3	30
132	Chronic Exposure to Ammonia Alters Pathways Modulating Phosphorylation of Microtubule-Associated Protein 2 in Cerebellar Neurons in Culture. Journal of Neurochemistry, 2002, 73, 2555-2562.	3.9	29
133	Hyperammonaemia alters the mechanisms by which metabotropic glutamate receptors in nucleus accumbens modulate motor function. Journal of Neurochemistry, 2007, 103, 070622100229002-???.	3.9	29
134	Ultrasound bioeffects in rats: quantification of cellular damage in the fetal liver after pulsed Doppler imaging. Ultrasound in Obstetrics and Gynecology, 2011, 37, 643-648.	1.7	29
135	In vivo administration of extracellular cGMP normalizes TNF-Î± and membrane expression of AMPA receptors in hippocampus and spatial reference memory but not IL-1Î², NMDA receptors in membrane and working memory in hyperammonemic rats. Brain, Behavior, and Immunity, 2016, 57, 360-370.	4.1	29
136	Altered postural control and stability in cirrhotic patients with minimal hepatic encephalopathy correlate with cognitive deficits. Liver International, 2017, 37, 1013-1022.	3.9	29
137	High Ammonia Levels in Brain Induce Tubulin in Cerebrum but Not in Cerebellum. Journal of Neurochemistry, 1988, 51, 1839-1842.	3.9	28
138	Insight into the neuroproteomics effects of the food-contaminant non-dioxin like polychlorinated biphenyls. Journal of Proteomics, 2012, 75, 2417-2430.	2.4	28
139	Learning and Memory Impairments in Patients with Minimal Hepatic Encephalopathy are Associated with Structural and Functional Connectivity Alterations in Hippocampus. Scientific Reports, 2018, 8, 9664.	3.3	28
140	Control of brain glutamine synthesis by NMDA receptors. Frontiers in Bioscience - Landmark, 2007, 12, 883.	3.0	28
141	Neurons exposed to ammonia reproduce the differential alteration in nitric oxide modulation of guanylate cyclase in the cerebellum and cortex of patients with liver cirrhosis. Neurobiology of Disease, 2005, 19, 150-161.	4.4	27
142	Role of extracellular cGMP and of hyperammonemia in the impairment of learning in rats with chronic hepatic failure. Neurochemistry International, 2006, 48, 441-446.	3.8	27
143	Prenatal exposure to polybrominated diphenylether 99 enhances the function of the glutamate?nitric oxide?cGMP pathway in brain inï¿½vivo and in cultured neurons. European Journal of Neuroscience, 2007, 25, 373-379.	2.6	27
144	Sustained hyperammonemia induces TNF-a IN Purkinje neurons by activating the TNFR1-NF-ÎºB pathway. Journal of Neuroinflammation, 2020, 17, 70.	7.2	27

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145	NMDA-induced phosphorylation of the microtubule-associated protein MAP-2 is mediated by activation of nitric oxide synthase and MAP kinase. European Journal of Neuroscience, 2001, 13, 1283-1291.	2.6	26
146	Prevention of in Vivo Excitotoxicity by a Family of Trialkylglycines, a Novel Class of Neuroprotectants. Journal of Pharmacology and Experimental Therapeutics, 2002, 301, 29-36.	2.5	26
147	Synthesis of new 2-arylamino-6-trifluoromethylpyridine-3-carboxylic acid derivatives and investigation of their analgesic activity. Bioorganic and Medicinal Chemistry, 2004, 12, 4169-4177.	3.0	26
148	Cerebral oedema is not responsible for motor or cognitive deficits in rats with hepatic encephalopathy. Liver International, 2014, 34, 379-387.	3.9	26
149	The expression levels of prolyl oligopeptidase responds not only to neuroinflammation but also to systemic inflammation upon liver failure in rat models and cirrhotic patients. Journal of Neuroinflammation, 2015, 12, 183.	7.2	26
150	Bicuculline Reduces Neuroinflammation in Hippocampus and Improves Spatial Learning and Anxiety in Hyperammonemic Rats. Role of Glutamate Receptors. Frontiers in Pharmacology, 2019, 10, 132.	3.5	26
151	Contribution of altered signal transduction associated to glutamate receptors in brain to the neurological alterations of hepatic encephalopathy. World Journal of Gastroenterology, 2006, 12, 7737.	3.3	26
152	Modulation of NMDA receptors by AKT kinase. Neurochemistry International, 2006, 49, 351-358.	3.8	25
153	Acute ammonia neurotoxicity in vivo involves increase in cytoplasmic protein P53 without alterations in other markers of apoptosis. Journal of Neuroscience Research, 2007, 85, 2491-2499.	2.9	25
154	Protective effect of long term ammonium ingestion against acute ammonium intoxication. Biochemical and Biophysical Research Communications, 1988, 153, 979-983.	2.1	24
155	Molecular Mechanisms of the Alterations in NMDA Receptor-Dependent Long-Term Potentiation in Hyperammonemia. Metabolic Brain Disease, 2005, 20, 265-274.	2.9	24
156	Animal Models in the Study of Episodic Hepatic Encephalopathy in Cirrhosis. Metabolic Brain Disease, 2005, 20, 399-408.	2.9	24
157	Hyperammonemia alters membrane expression of GluA1 and GluA2 subunits of AMPA receptors in hippocampus by enhancing activation of the IL-1 receptor: underlying mechanisms. Journal of Neuroinflammation, 2018, 15, 36.	7.2	24
158	Inhibition of protein kinase C arrests proliferation of human tumors. FEBS Letters, 1991, 284, 60-62.	2.8	23
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160	Histological Features of Cerebellar Neuropathology in Patients With Alcoholic and Nonalcoholic Steatohepatitis. Journal of Neuropathology and Experimental Neurology, 2018, 77, 837-845.	1.7	23
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