

Vicente Felipo

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

314 papers	10,931 citations	54 h-index	87 g-index
330 ext. papers	11,981 ext. citations	5.1 avg, IF	6.14 L-index

#	Paper	IF	Citations
314	Neurobiology of ammonia. <i>Progress in Neurobiology</i> , 2002 , 67, 259-79	10.9	492
313	Repeated alcohol administration during adolescence causes changes in the mesolimbic dopaminergic and glutamatergic systems and promotes alcohol intake in the adult rat. <i>Journal of Neurochemistry</i> , 2009 , 108, 920-31	6	252
312	Value of the critical flicker frequency in patients with minimal hepatic encephalopathy. <i>Hepatology</i> , 2007 , 45, 879-85	11.2	233
311	Activation of N-methyl-D-aspartate receptors in rat brain in vivo following acute ammonia intoxication: characterization by in vivo brain microdialysis. <i>Hepatology</i> , 2000 , 31, 709-15	11.2	231
310	Hepatic encephalopathy: effects of liver failure on brain function. <i>Nature Reviews Neuroscience</i> , 2013 , 14, 851-8	13.5	226
309	Hyperammonemia induces neuroinflammation that contributes to cognitive impairment in rats with hepatic encephalopathy. <i>Gastroenterology</i> , 2010 , 139, 675-84	13.3	224
308	Experimental models of hepatic encephalopathy: ISHEN guidelines. <i>Liver International</i> , 2009 , 29, 783-8	7.9	219
307	Superoxide production and antioxidant enzymes in ammonia intoxication in rats. <i>Free Radical Research</i> , 1997 , 27, 637-44	4	162
306	Inflammation and hepatic encephalopathy: ibuprofen restores learning ability in rats with portacaval shunts. <i>Hepatology</i> , 2007 , 46, 514-9	11.2	162
305	Acute ammonia toxicity is mediated by the NMDA type of glutamate receptors. <i>FEBS Letters</i> , 1992 , 296, 67-8	3.8	160
304	Chronic hyperammonemia impairs the glutamate-nitric oxide-cyclic GMP pathway in cerebellar neurons in culture and in the rat in vivo. <i>European Journal of Neuroscience</i> , 1998 , 10, 3201-9	3.5	157
303	Brain ATP depletion induced by acute ammonia intoxication in rats is mediated by activation of the NMDA receptor and Na ⁺ ,K ⁺ -ATPase. <i>Journal of Neurochemistry</i> , 1994 , 63, 2172-8	6	147
302	Oral administration of sildenafil restores learning ability in rats with hyperammonemia and with portacaval shunts. <i>Hepatology</i> , 2005 , 41, 299-306	11.2	131
301	NMDA receptor antagonists prevent acute ammonia toxicity in mice. <i>Neurochemical Research</i> , 1996 , 21, 1237-44	4.6	130
300	Brain edema and inflammatory activation in bile duct ligated rats with diet-induced hyperammonemia: A model of hepatic encephalopathy in cirrhosis. <i>Hepatology</i> , 2006 , 43, 1257-66	11.2	122
299	Glutamine synthetase activity and glutamine content in brain: modulation by NMDA receptors and nitric oxide. <i>Neurochemistry International</i> , 2003 , 43, 493-9	4.4	121
298	Blocking NMDA receptors prevents the oxidative stress induced by acute ammonia intoxication. <i>Free Radical Biology and Medicine</i> , 1999 , 26, 1369-74	7.8	121

297	IL-6 and IL-18 in blood may discriminate cirrhotic patients with and without minimal hepatic encephalopathy. <i>Journal of Clinical Gastroenterology</i> , 2009 , 43, 272-9	3	120
296	Contribution of hyperammonemia and inflammatory factors to cognitive impairment in minimal hepatic encephalopathy. <i>Metabolic Brain Disease</i> , 2012 , 27, 51-8	3.9	114
295	Chronic moderate hyperammonemia impairs active and passive avoidance behavior and conditional discrimination learning in rats. <i>Experimental Neurology</i> , 2000 , 161, 704-13	5.7	105
294	Glutamatergic and gabaergic neurotransmission and neuronal circuits in hepatic encephalopathy. <i>Metabolic Brain Disease</i> , 2009 , 24, 69-80	3.9	103
293	Sources of oxygen radicals in brain in acute ammonia intoxication in vivo. <i>Brain Research</i> , 2003 , 981, 193-200	3.9	99
292	Restoration of learning ability in hyperammonemic rats by increasing extracellular cGMP in brain. <i>Brain Research</i> , 2005 , 1036, 115-21	3.7	99
291	Long-term potentiation in hippocampus involves sequential activation of soluble guanylate cyclase, cGMP-dependent protein kinase, and cGMP-degrading phosphodiesterase. <i>Journal of Neuroscience</i> , 2002 , 22, 10116-22	6.6	98
290	Inhibitors of protein kinase C prevent the toxicity of glutamate in primary neuronal cultures. <i>Brain Research</i> , 1993 , 604, 192-6	3.7	96
289	Hyperammonemia increases GABAergic tone in the cerebellum but decreases it in the rat cortex. <i>Gastroenterology</i> , 2009 , 136, 1359-67, e1-2	13.3	88
288	Ammonia prevents activation of NMDA receptors by glutamate in rat cerebellar neuronal cultures. <i>European Journal of Neuroscience</i> , 1995 , 7, 2389-96	3.5	85
287	Nicotine prevents glutamate-induced proteolysis of the microtubule-associated protein MAP-2 and glutamate neurotoxicity in primary cultures of cerebellar neurons. <i>Neuropharmacology</i> , 1998 , 37, 847-57	5.5	81
286	Glutamate induces a calcineurin-mediated dephosphorylation of Na ⁺ ,K ⁺ -ATPase that results in its activation in cerebellar neurons in culture. <i>Journal of Neurochemistry</i> , 1996 , 66, 99-104	6	76
285	Developmental exposure to polychlorinated biphenyls 52, 138 or 180 affects differentially learning or motor coordination in adult rats. Mechanisms involved. <i>Neuroscience</i> , 2010 , 167, 994-1003	3.9	75
284	Effects of hyperammonemia and liver failure on glutamatergic neurotransmission. <i>Metabolic Brain Disease</i> , 2002 , 17, 237-50	3.9	75
283	Effects of acute hyperammonemia in vivo on oxidative metabolism in nonsynaptic rat brain mitochondria. <i>Metabolic Brain Disease</i> , 1997 , 12, 69-82	3.9	74
282	Brain cholinergic impairment in liver failure. <i>Brain</i> , 2008 , 131, 2946-56	11.2	74
281	A simple animal model of hyperammonemia. <i>Hepatology</i> , 1989 , 10, 311-4	11.2	74
280	Molecular mechanism of acute ammonia toxicity: role of NMDA receptors. <i>Neurochemistry International</i> , 2002 , 41, 95-102	4.4	73

279	Nitroarginine, an inhibitor of nitric oxide synthase, prevents changes in superoxide radical and antioxidant enzymes induced by ammonia intoxication. <i>Metabolic Brain Disease</i> , 1998 , 13, 29-41	3.9	69
278	Alteration of mitochondrial calcium homeostasis by ammonia-induced activation of NMDA receptors in rat brain in vivo. <i>Brain Research</i> , 2000 , 880, 139-46	3.7	69
277	Nitroarginine, an inhibitor of nitric oxide synthetase, attenuates ammonia toxicity and ammonia-induced alterations in brain metabolism. <i>Neurochemical Research</i> , 1995 , 20, 451-6	4.6	69
276	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. <i>Journal of Neuroinflammation</i> , 2016 , 13, 83	10.1	68
275	Patients with minimal hepatic encephalopathy show impaired mismatch negativity correlating with reduced performance in attention tests. <i>Hepatology</i> , 2012 , 55, 530-9	11.2	68
274	Altered content and modulation of soluble guanylate cyclase in the cerebellum of rats with portacaval anastomosis. <i>Neuroscience</i> , 2001 , 104, 1119-25	3.9	68
273	Hyperammonemia induces glial activation, neuroinflammation and alters neurotransmitter receptors in hippocampus, impairing spatial learning: reversal by sulforaphane. <i>Journal of Neuroinflammation</i> , 2016 , 13, 41	10.1	67
272	Urea cycle dysregulation in non-alcoholic fatty liver disease. <i>Journal of Hepatology</i> , 2018 , 69, 905-915	13.4	66
271	Long-term ingestion of ammonium increases acetylglutamate and urea levels without affecting the amount of carbamoyl-phosphate synthase. <i>FEBS Journal</i> , 1988 , 176, 567-71		66
270	Region selective alterations of soluble guanylate cyclase content and modulation in brain of cirrhotic patients. <i>Hepatology</i> , 2002 , 36, 1155-62	11.2	65
269	Induction of rat brain tubulin following ammonium ingestion. <i>Journal of Neurochemistry</i> , 1988 , 51, 1041-5		62
268	Chronic liver failure in rats impairs glutamatergic synaptic transmission and long-term potentiation in hippocampus and learning ability. <i>European Journal of Neuroscience</i> , 2007 , 25, 2103-11	3.5	61
267	Hyperammonemia impairs NMDA receptor-dependent long-term potentiation in the CA1 of rat hippocampus in vitro. <i>Neurochemical Research</i> , 2000 , 25, 437-41	4.6	61
266	Serines 890 and 896 of the NMDA receptor subunit NR1 are differentially phosphorylated by protein kinase C isoforms. <i>Neurochemistry International</i> , 2005 , 47, 84-91	4.4	60
265	Beta-amyloid-induced activation of caspase-3 in primary cultures of rat neurons. <i>Mechanisms of Ageing and Development</i> , 2000 , 119, 63-7	5.6	59
264	Role of cyclic GMP in glutamate neurotoxicity in primary cultures of cerebellar neurons. <i>Neuropharmacology</i> , 1999 , 38, 1883-91	5.5	58
263	Ammonium injection induces an N-methyl-D-aspartate receptor-mediated proteolysis of the microtubule-associated protein MAP-2. <i>Journal of Neurochemistry</i> , 1993 , 60, 1626-30	6	57
262	Mitochondrial dysfunction in acute hyperammonemia. <i>Neurochemistry International</i> , 2002 , 40, 487-91	4.4	56

261	Neuroinflammation contributes to hypokinesia in rats with hepatic encephalopathy: ibuprofen restores its motor activity. <i>Journal of Neuroscience Research</i> , 2009 , 87, 1369-74	4.4	55
260	Sildenafil citrate improves perinatal outcome in fetuses from pre-eclamptic rats. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2012 , 119, 1394-402	3.7	54
259	NMDA receptors in hyperammonemia and hepatic encephalopathy. <i>Metabolic Brain Disease</i> , 2007 , 22, 321-35	3.9	52
258	Lack of correlation between glutamate-induced depletion of ATP and neuronal death in primary cultures of cerebellum. <i>Brain Research</i> , 1995 , 695, 146-50	3.7	52
257	Sildenafil reduces neuroinflammation and restores spatial learning in rats with hepatic encephalopathy: underlying mechanisms. <i>Journal of Neuroinflammation</i> , 2015 , 12, 195	10.1	51
256	Metallothionein-III prevents glutamate and nitric oxide neurotoxicity in primary cultures of cerebellar neurons. <i>Journal of Neurochemistry</i> , 2000 , 75, 266-73	6	51
255	Brain region-selective mechanisms contribute to the progression of cerebral alterations in acute liver failure in rats. <i>Gastroenterology</i> , 2011 , 140, 638-45	13.3	50
254	3-nitro-tyrosine as a peripheral biomarker of minimal hepatic encephalopathy in patients with liver cirrhosis. <i>American Journal of Gastroenterology</i> , 2011 , 106, 1629-37	0.7	50
253	Developmental exposure to polychlorinated biphenyls PCB153 or PCB126 impairs learning ability in young but not in adult rats. <i>European Journal of Neuroscience</i> , 2008 , 27, 177-82	3.5	50
252	p38 MAP kinase is a therapeutic target for hepatic encephalopathy in rats with portacaval shunts. <i>Gut</i> , 2011 , 60, 1572-9	19.2	49
251	Mechanisms of cognitive alterations in hyperammonemia and hepatic encephalopathy: therapeutical implications. <i>Neurochemistry International</i> , 2009 , 55, 106-12	4.4	49
250	Role of NMDA receptors in acute liver failure and ammonia toxicity: therapeutical implications. <i>Neurochemistry International</i> , 2009 , 55, 113-8	4.4	48
249	Modulation of NMDA receptors in the cerebellum. 1. Properties of the NMDA receptor that modulate its function. <i>Cerebellum</i> , 2005 , 4, 154-61	4.3	48
248	Activation of NMDA receptors induces protein kinase A-mediated phosphorylation and degradation of matrin 3. Blocking these effects prevents NMDA-induced neuronal death. <i>Journal of Neurochemistry</i> , 2005 , 94, 808-18	6	48
247	Aluminium impairs the glutamate-nitric oxide-cGMP pathway in cultured neurons and in rat brain in vivo: molecular mechanisms and implications for neuropathology. <i>Journal of Inorganic Biochemistry</i> , 2001 , 87, 63-9	4.2	47
246	Chronic hyperammonemia prevents changes in brain energy and ammonia metabolites induced by acute ammonium intoxication. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1993 , 1180, 321-6	6.9	47
245	Serum metabolic signature of minimal hepatic encephalopathy by (1)H-nuclear magnetic resonance. <i>Journal of Proteome Research</i> , 2010 , 9, 5180-7	5.6	46
244	Reducing Peripheral Inflammation with Infliximab Reduces Neuroinflammation and Improves Cognition in Rats with Hepatic Encephalopathy. <i>Frontiers in Molecular Neuroscience</i> , 2016 , 9, 106	6.1	44

243	Developmental exposure to polychlorinated biphenyls or methylmercury, but not to its combination, impairs the glutamate-nitric oxide-cyclic GMP pathway and learning in 3-month-old rats. <i>Neuroscience</i> , 2008 , 154, 1408-16	3.9	43
242	Hypolocomotion in rats with chronic liver failure is due to increased glutamate and activation of metabotropic glutamate receptors in substantia nigra. <i>Journal of Hepatology</i> , 2006 , 45, 654-61	13.4	43
241	Inhibition of protein kinase C induces differentiation in Neuro-2a cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 4335-9	11.5	43
240	Inhibition of protein kinase C restores Na ⁺ ,K ⁺ -ATPase activity in sciatic nerve of diabetic mice. <i>Journal of Neurochemistry</i> , 1992 , 58, 1246-9	6	42
239	Chronic hyperammonemia alters motor and neurochemical responses to activation of group I metabotropic glutamate receptors in the nucleus accumbens in rats in vivo. <i>Neurobiology of Disease</i> , 2003 , 14, 380-90	7.5	41
238	A novel N-methyl-D-aspartate receptor open channel blocker with in vivo neuroprotectant activity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002 , 302, 163-73	4.7	41
237	Infliximab reduces peripheral inflammation, neuroinflammation, and extracellular GABA in the cerebellum and improves learning and motor coordination in rats with hepatic encephalopathy. <i>Journal of Neuroinflammation</i> , 2016 , 13, 245	10.1	40
236	Alcohol exposure during brain development reduces 3H-MK-801 binding and enhances metabotropic-glutamate receptor-stimulated phosphoinositide hydrolysis in rat hippocampus. <i>Life Sciences</i> , 1995 , 56, 1373-83	6.8	39
235	Differential long-term effects of developmental exposure to polychlorinated biphenyls 52, 138 or 180 on motor activity and neurotransmission. Gender dependence and mechanisms involved. <i>Neurochemistry International</i> , 2011 , 58, 69-77	4.4	38
234	Magnetic resonance analysis of the effects of acute ammonia intoxication on rat brain. Role of NMDA receptors. <i>Journal of Neurochemistry</i> , 2007 , 103, 1334-43	6	38
233	Downregulation of nNOS and synthesis of PGs associated with endotoxin-induced delay in gastric emptying. <i>American Journal of Physiology - Renal Physiology</i> , 2002 , 283, G1360-7	5.1	38
232	L-carnitine increases the affinity of glutamate for quisqualate receptors and prevents glutamate neurotoxicity. <i>Neurochemical Research</i> , 1994 , 19, 373-7	4.6	38
231	Pregnenolone sulfate restores the glutamate-nitric-oxide-cGMP pathway and extracellular GABA in cerebellum and learning and motor coordination in hyperammonemic rats. <i>ACS Chemical Neuroscience</i> , 2014 , 5, 100-5	5.7	37
230	Proteome analysis of primary neurons and astrocytes from rat cerebellum. <i>Journal of Proteome Research</i> , 2005 , 4, 768-88	5.6	37
229	Chronic exposure to aluminum impairs neuronal glutamate-nitric oxide-cyclic GMP pathway. <i>Journal of Neurochemistry</i> , 1998 , 70, 1609-14	6	37
228	Limited capacity for ammonia removal by brain in chronic liver failure: potential role of nitric oxide. <i>Metabolic Brain Disease</i> , 2005 , 20, 275-83	3.9	37
227	GR3027 antagonizes GABAA receptor-potentiating neurosteroids and restores spatial learning and motor coordination in rats with chronic hyperammonemia and hepatic encephalopathy. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 309, G400-9	5.1	36
226	Chronic hyperammonemia reduces the activity of neuronal nitric oxide synthase in cerebellum by altering its localization and increasing its phosphorylation by calcium-calmodulin kinase II. <i>Journal of Neurochemistry</i> , 2008 , 106, 1440-9	6	36

225	Acute ammonia intoxication induces an NMDA receptor-mediated increase in poly(ADP-ribose) polymerase level and NAD metabolism in nuclei of rat brain cells. <i>Journal of Neurochemistry</i> , 2004 , 89, 1101-10	6	36
224	Gender differences in spatial learning, synaptic activity, and long-term potentiation in the hippocampus in rats: molecular mechanisms. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 1420-7	5.7	35
223	Increasing the function of the glutamate-nitric oxide-cyclic guanosine monophosphate pathway increases the ability to learn a Y-maze task. <i>Journal of Neuroscience Research</i> , 2009 , 87, 2351-5	4.4	35
222	Modulation of glutamine synthesis in cultured astrocytes by nitric oxide. <i>Cellular and Molecular Neurobiology</i> , 1997 , 17, 433-45	4.6	34
221	Expression and traffic of cellular prolyl oligopeptidase are regulated during cerebellar granule cell differentiation, maturation, and aging. <i>Neuroscience</i> , 2008 , 156, 580-5	3.9	34
220	Changes in liver and plasma acetylcholinesterase in rats with cirrhosis induced by bile duct ligation. <i>Hepatology</i> , 2006 , 43, 444-53	11.2	34
219	Phosphate-activated glutaminase activity is enhanced in brain, intestine and kidneys of rats following portacaval anastomosis. <i>World Journal of Gastroenterology</i> , 2006 , 12, 2406-11	5.6	34
218	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. Alterations in hyperammonemia. <i>Neurochemistry International</i> , 2004 , 45, 895-901	4.4	33
217	Inhibition of protein kinase C induces differentiation of neuroblastoma cells. <i>FEBS Letters</i> , 1989 , 255, 184-6	3.8	33
216	Cyclic GMP pathways in hepatic encephalopathy. Neurological and therapeutic implications. <i>Metabolic Brain Disease</i> , 2010 , 25, 39-48	3.9	32
215	Motor activity is modulated via different neuronal circuits in rats with chronic liver failure than in normal rats. <i>European Journal of Neuroscience</i> , 2007 , 25, 2112-22	3.5	32
214	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. <i>Learning and Memory</i> , 2007 , 14, 254-8	2.8	32
213	Prenatal exposure to aluminum reduces expression of neuronal nitric oxide synthase and of soluble guanylate cyclase and impairs glutamatergic neurotransmission in rat cerebellum. <i>Journal of Neurochemistry</i> , 1999 , 73, 712-8	6	32
212	Hyperammonemia decreases protein-kinase-C-dependent phosphorylation of microtubule-associated protein 2 and increases its binding to tubulin. <i>FEBS Journal</i> , 1993 , 214, 243-9		32
211	Sildenafil reduces neuroinflammation in cerebellum, restores GABAergic tone, and improves motor in-coordination in rats with hepatic encephalopathy. <i>CNS Neuroscience and Therapeutics</i> , 2017 , 23, 386-394	6.8	31
210	Focal cortical damage parallels cognitive impairment in minimal hepatic encephalopathy. <i>NeuroImage</i> , 2012 , 61, 1165-75	7.9	31
209	Polychlorinated biphenyls PCB 52, PCB 180, and PCB 138 impair the glutamate-nitric oxide-cGMP pathway in cerebellar neurons in culture by different mechanisms. <i>Chemical Research in Toxicology</i> , 2010 , 23, 813-20	4	31
208	Ebselen prevents chronic alcohol-induced rat hippocampal stress and functional impairment. <i>Alcoholism: Clinical and Experimental Research</i> , 2007 , 31, 486-92	3.7	31

207	Glutamate-induced activation of nitric oxide synthase is impaired in cerebral cortex in vivo in rats with chronic liver failure. <i>Journal of Neurochemistry</i> , 2007 , 102, 51-64	6	31
206	Extracellular cGMP Modulates Learning Biphasically by Modulating Glycine Receptors, CaMKII and Glutamate-Nitric Oxide-cGMP Pathway. <i>Scientific Reports</i> , 2016 , 6, 33124	4.9	31
205	Modulation of NMDA receptors in the cerebellum. II. Signaling pathways and physiological modulators regulating NMDA receptor function. <i>Cerebellum</i> , 2005 , 4, 162-70	4.3	30
204	Peripheral inflammation induces neuroinflammation that alters neurotransmission and cognitive and motor function in hepatic encephalopathy: Underlying mechanisms and therapeutic implications. <i>Acta Physiologica</i> , 2019 , 226, e13270	5.6	29
203	cGMP modulates stem cells differentiation to neurons in brain in vivo. <i>Neuroscience</i> , 2010 , 165, 1275-83	3.9	29
202	Chronic exposure to ammonia alters pathways modulating phosphorylation of microtubule-associated protein 2 in cerebellar neurons in culture. <i>Journal of Neurochemistry</i> , 1999 , 73, 2555-62	6	29
201	Potentiation of the transient receptor potential vanilloid 1 channel contributes to pruritogenesis in a rat model of liver disease. <i>Journal of Biological Chemistry</i> , 2013 , 288, 9675-9685	5.4	28
200	Non invasive blood flow measurement in cerebellum detects minimal hepatic encephalopathy earlier than psychometric tests. <i>World Journal of Gastroenterology</i> , 2014 , 20, 11815-25	5.6	28
199	Chronic hyperammonemia induces peripheral inflammation that leads to cognitive impairment in rats: Reversed by anti-TNF- α treatment. <i>Journal of Hepatology</i> , 2020 , 73, 582-592	13.4	28
198	Hyperammonaemia alters the mechanisms by which metabotropic glutamate receptors in nucleus accumbens modulate motor function. <i>Journal of Neurochemistry</i> , 2007 , 103, 38-46	6	27
197	Activation of soluble guanylate cyclase by nitric oxide in lymphocytes correlates with minimal hepatic encephalopathy in cirrhotic patients. <i>Journal of Molecular Medicine</i> , 2007 , 85, 237-45	5.5	27
196	Hyperammonemia impairs long-term potentiation in hippocampus by altering the modulation of cGMP-degrading phosphodiesterase by protein kinase G. <i>Neurobiology of Disease</i> , 2004 , 15, 1-10	7.5	27
195	Chronic exposure to aluminium impairs the glutamate-nitric oxide-cyclic GMP pathway in the rat in vivo. <i>Neurochemistry International</i> , 1999 , 34, 245-53	4.4	27
194	High ammonia levels in brain induce tubulin in cerebrum but not in cerebellum. <i>Journal of Neurochemistry</i> , 1988 , 51, 1839-42	6	27
193	Interplay between glutamatergic and GABAergic neurotransmission alterations in cognitive and motor impairment in minimal hepatic encephalopathy. <i>Neurochemistry International</i> , 2015 , 88, 15-9	4.4	26
192	Chronic hyperammonemia, glutamatergic neurotransmission and neurological alterations. <i>Metabolic Brain Disease</i> , 2013 , 28, 151-4	3.9	26
191	Ultrasound bioeffects in rats: quantification of cellular damage in the fetal liver after pulsed Doppler imaging. <i>Ultrasound in Obstetrics and Gynecology</i> , 2011 , 37, 643-8	5.8	26
190	Acute liver failure-induced death of rats is delayed or prevented by blocking NMDA receptors in brain. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, G503-11	5.1	26

189	Prenatal exposure to polybrominated diphenylether 99 enhances the function of the glutamate-nitric oxide-cGMP pathway in brain in vivo and in cultured neurons. <i>European Journal of Neuroscience</i> , 2007 , 25, 373-9	3.5	26
188	The Cerebellum of Patients with Steatohepatitis Shows Lymphocyte Infiltration, Microglial Activation and Loss of Purkinje and Granular Neurons. <i>Scientific Reports</i> , 2018 , 8, 3004	4.9	25
187	Gender differential effects of developmental exposure to methyl-mercury, polychlorinated biphenyls 126 or 153, or its combinations on motor activity and coordination. <i>Toxicology</i> , 2013 , 311, 61-84	4.4	25
186	Chronic hyperammonemia induces tonic activation of NMDA receptors in cerebellum. <i>Journal of Neurochemistry</i> , 2010 , 112, 1005-14	6	25
185	Synthesis of new 2-arylamino-6-trifluoromethylpyridine-3-carboxylic acid derivatives and investigation of their analgesic activity. <i>Bioorganic and Medicinal Chemistry</i> , 2004 , 12, 4169-77	3.4	25
184	NMDA-induced phosphorylation of the microtubule-associated protein MAP-2 is mediated by activation of nitric oxide synthase and MAP kinase. <i>European Journal of Neuroscience</i> , 2001 , 13, 1283-91	3.5	25
183	Prevention of in vivo excitotoxicity by a family of trialkylglycines, a novel class of neuroprotectants. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002 , 301, 29-36	4.7	25
182	Contribution of altered signal transduction associated to glutamate receptors in brain to the neurological alterations of hepatic encephalopathy. <i>World Journal of Gastroenterology</i> , 2006 , 12, 7737-43	5.6	25
181	In vivo administration of extracellular cGMP normalizes TNF- α and membrane expression of AMPA receptors in hippocampus and spatial reference memory but not IL-1 β /NMDA receptors in membrane and working memory in hyperammonemic rats. <i>Brain, Behavior, and Immunity</i> , 2016 , 57, 360-370	16.6	25
180	Encapsulation of glutamine synthetase in mouse erythrocytes: a new procedure for ammonia detoxification. <i>Biochemistry and Cell Biology</i> , 2008 , 86, 469-76	3.6	24
179	Modulation of NMDA receptors by AKT kinase. <i>Neurochemistry International</i> , 2006 , 49, 351-8	4.4	24
178	Protective effect of long term ammonium ingestion against acute ammonium intoxication. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 153, 979-83	3.4	24
177	Control of brain glutamine synthesis by NMDA receptors. <i>Frontiers in Bioscience - Landmark</i> , 2007 , 12, 883-90	2.8	24
176	Sex-dependent effects of developmental exposure to different pesticides on spatial learning. The role of induced neuroinflammation in the hippocampus. <i>Food and Chemical Toxicology</i> , 2017 , 99, 135-148	4.7	23
175	Insight into the neuroproteomics effects of the food-contaminant non-dioxin like polychlorinated biphenyls. <i>Journal of Proteomics</i> , 2012 , 75, 2417-30	3.9	23
174	Cerebral oedema is not responsible for motor or cognitive deficits in rats with hepatic encephalopathy. <i>Liver International</i> , 2014 , 34, 379-87	7.9	23
173	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. <i>Neurobiology of Disease</i> , 2005 , 19, 150-61	7.5	23
172	The PHES battery does not detect all cirrhotic patients with early neurological deficits, which are different in different patients. <i>PLoS ONE</i> , 2017 , 12, e0171211	3.7	23

171	Increasing extracellular cGMP in cerebellum in vivo reduces neuroinflammation, GABAergic tone and motor in-coordination in hyperammonemic rats. <i>Brain, Behavior, and Immunity</i> , 2018 , 69, 386-398	16.6	22
170	Acute ammonia neurotoxicity in vivo involves increase in cytoplasmic protein P53 without alterations in other markers of apoptosis. <i>Journal of Neuroscience Research</i> , 2007 , 85, 2491-9	4.4	22
169	Animal models in the study of episodic hepatic encephalopathy in cirrhosis. <i>Metabolic Brain Disease</i> , 2005 , 20, 399-408	3.9	22
168	Developmental Exposure to Pesticides Alters Motor Activity and Coordination in Rats: Sex Differences and Underlying Mechanisms. <i>Neurotoxicity Research</i> , 2018 , 33, 247-258	4.3	22
167	Altered postural control and stability in cirrhotic patients with minimal hepatic encephalopathy correlate with cognitive deficits. <i>Liver International</i> , 2017 , 37, 1013-1022	7.9	21
166	Role of extracellular cGMP and of hyperammonemia in the impairment of learning in rats with chronic hepatic failure. Therapeutic implications. <i>Neurochemistry International</i> , 2006 , 48, 441-6	4.4	21
165	Alterations in soluble guanylate cyclase content and modulation by nitric oxide in liver disease. <i>Neurochemistry International</i> , 2004 , 45, 947-53	4.4	21
164	Molecular mechanisms of the alterations in NMDA receptor-dependent long-term potentiation in hyperammonemia. <i>Metabolic Brain Disease</i> , 2005 , 20, 265-74	3.9	21
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