Caterina Bendotti

List of Publications by Citations

170 papers	7,613 citations	50 h-index	79 g-index
180 ext. papers	8,365 ext. citations	5.9 avg, IF	5.24 L-index

#	Paper	IF	Citations
170	The small heat shock protein B8 (HspB8) promotes autophagic removal of misfolded proteins involved in amyotrophic lateral sclerosis (ALS). *Human Molecular Genetics*, **2010**, 19, 3440-56	5.6	261
169	Guidelines for preclinical animal research in ALS/MND: A consensus meeting. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2010**, 11, 38-45		234
168	Expression of amyloid precursor protein mRNAs in endothelial, neuronal and glial cells: modulation by interleukin-1. *Molecular Brain Research*, **1992**, 16, 128-34		219
167	Chlorophenylpiperazine: a central serotonin agonist causing powerful anorexia in rats. *Naunyn-Schmiedebergɪs Archives of Pharmacology*, **1979**, 308, 159-63	3.4	188
166	Neurochemical mechanism of action of drugs which modify feeding via the serotoninergic system. *Appetite*, **1986**, 7 Suppl, 15-38	4.5	177
165	Mutant copper-zinc superoxide dismutase (SOD1) induces protein secretion pathway alterations and exosome release in astrocytes: implications for disease spreading and motor neuron pathology in amyotrophic lateral sclerosis. *Journal of Biological Chemistry*, **2013**, 288, 15699-711	5.4	162
164	Early vacuolization and mitochondrial damage in motor neurons of FALS mice are not associated with apoptosis or with changes in cytochrome oxidase histochemical reactivity. *Journal of the Neurological Sciences*, **2001**, 191, 25-33	3.2	162
163	Lessons from models of SOD1-linked familial ALS. *Trends in Molecular Medicine*, **2004**, 10, 393-400	11.5	151
162	Protein nitration in a mouse model of familial amyotrophic lateral sclerosis: possible multifunctional role in the pathogenesis. *Journal of Biological Chemistry*, **2005**, 280, 16295-304	5.4	151
161	Transgenic SOD1 G93A mice develop reduced GLT-1 in spinal cord without alterations in cerebrospinal fluid glutamate levels. *Journal of Neurochemistry*, **2001**, 79, 737-46	6	148
160	Persistent activation of p38 mitogen-activated protein kinase in a mouse model of familial amyotrophic lateral sclerosis correlates with disease progression. *Molecular and Cellular Neurosciences*, **2003**, 23, 180-92	4.8	136
159	8-Hydroxy-2-(di-n-propylamino) tetralin (8-OH-DPAT) elicits eating in free-feeding rats by acting on central serotonin neurons. *European Journal of Pharmacology*, **1986**, 121, 147-50	5.3	135
158	Mutation of SOD1 in ALS: a gain of a loss of function. *Human Molecular Genetics*, **2007**, 16, 1604-18	5.6	130
157	Functional alterations of the ubiquitin-proteasome system in motor neurons of a mouse model of familial amyotrophic lateral sclerosis. *Human Molecular Genetics*, **2009**, 18, 82-96	5.6	124
156	Immune system alterations in sporadic amyotrophic lateral sclerosis patients suggest an ongoing neuroinflammatory process. *Journal of Neuroimmunology*, **2009**, 210, 73-9	3.5	124
155	Distribution of GAP-43 mRNA in the adult rat brain. *Journal of Comparative Neurology*, **1993**, 333, 417-34	3.4	117
154	Dysfunction of constitutive and inducible ubiquitin-proteasome system in amyotrophic lateral sclerosis: implication for protein aggregation and immune response. *Progress in Neurobiology*, **2012**, 97, 101-26	10.9	108

153	Treatment with lithium carbonate does not improve disease progression in two different strains of SOD1 mutant mice. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2009**, 10, 221-8		105
152	Amyotrophic lateral sclerosis multiprotein biomarkers in peripheral blood mononuclear cells. *PLoS ONE*, **2011**, 6, e25545	3.7	98
151	Glutamate AMPA receptors change in motor neurons of SOD1G93A transgenic mice and their inhibition by a noncompetitive antagonist ameliorates the progression of amytrophic lateral sclerosis-like disease. *Journal of Neuroscience Research*, **2006**, 83, 134-46	4.4	93
150	Distribution of GAP-43 mRNA in the brain stem of adult rats as evidenced by in situ hybridization: localization within monoaminergic neurons. *Journal of Neuroscience*, **1991**, 11, 600-7	6.6	92
149	Guidelines for the preclinical in vivo evaluation of pharmacological active drugs for ALS/MND: report on the 142nd ENMC international workshop. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2007**, 8, 217-23		88
148	Activation of the p38MAPK cascade is associated with upregulation of TNF alpha receptors in the spinal motor neurons of mouse models of familial ALS. *Molecular and Cellular Neurosciences*, **2006**, 31, 218-31	4.8	88
147	Lack of apoptosis in mice with ALS. *Nature Medicine*, **1999**, 5, 966-7	50.5	88
146	The role of putative 5-HT1A and 5-HT1B receptors in the control of feeding in rats. *Life Sciences*, **1987**, 41, 635-42	6.8	88
145	Characterization of detergent-insoluble proteins in ALS indicates a causal link between nitrative stress and aggregation in pathogenesis. *PLoS ONE*, **2009**, 4, e8130	3.7	85
144	A role of small heat shock protein B8 (HspB8) in the autophagic removal of misfolded proteins responsible for neurodegenerative diseases. *Autophagy*, **2010**, 6, 958-60	10.2	83
143	Developmental and plasticity-related differential expression of two SNAP-25 isoforms in the rat brain. *Journal of Comparative Neurology*, **1996**, 367, 177-93	3.4	80
142	Accumulation of human SOD1 and ubiquitinated deposits in the spinal cord of SOD1G93A mice during motor neuron disease progression correlates with a decrease of proteasome. *Neurobiology of Disease*, **2005**, 18, 509-22	7.5	79
141	Immobility test: effects of 5-hydroxytryptaminergic drugs and role of catecholamines in the activity of some antidepressants. *Journal of Pharmacy and Pharmacology*, **1981**, 33, 33-7	4.8	77
140	Hyper- and hyposensitivity of central serotonin receptors:[3H]serotonin binding and functional studies in the rat. *Brain Research*, **1980**, 189, 449-57	3.7	77
139	Insoluble mutant SOD1 is partly oligoubiquitinated in amyotrophic lateral sclerosis mice. *Journal of Biological Chemistry*, **2006**, 281, 33325-35	5.4	73
138	Activated p38MAPK is a novel component of the intracellular inclusions found in human amyotrophic lateral sclerosis and mutant SOD1 transgenic mice. *Journal of Neuropathology and Experimental Neurology*, **2004**, 63, 113-9	3.1	70
137	Neuroanatomical localization and quantification of amyloid precursor protein mRNA by in situ hybridization in the brains of normal, aneuploid, and lesioned mice. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 3628-32	11.5	70
136	Expression of GAP-43 in the granule cells of rat hippocampus after seizure-induced sprouting of mossy fibres: in situ hybridization and immunocytochemical studies. *European Journal of Neuroscience*, **1994**, 6, 509-15	3.5	63

135	Proteomic analysis of spinal cord of presymptomatic amyotrophic lateral sclerosis G93A SOD1 mouse. *Biochemical and Biophysical Research Communications*, **2007**, 353, 719-25	3.4	62
134	Increased expression of GAP-43, somatostatin and neuropeptide Y mRNA in the hippocampus during development of hippocampal kindling in rats. *European Journal of Neuroscience*, **1993**, 5, 1312-20	3.5	60
133	Decrease of food intake by quipazine in the rat: relation to serotoninergic receptor stimulation. *Journal of Pharmacy and Pharmacology*, **1977**, 29, 53-4	4.8	58
132	Low levels of ALS-linked Cu/Zn superoxide dismutase increase the production of reactive oxygen species and cause mitochondrial damage and death in motor neuron-like cells. *Journal of the Neurological Sciences*, **2005**, 232, 95-103	3.2	56
131	Developmental expression of somatostatin in mouse brain. II. In situ hybridization. *Developmental Brain Research*, **1990**, 53, 26-39		55
130	Specificity of serotoninergic involvement in the decrease of food intake induced by quipazine in the rat. *Life Sciences*, **1977**, 21, 1259-66	6.8	55
129	Transcriptomic indices of fast and slow disease progression in two mouse models of amyotrophic lateral sclerosis. *Brain*, **2013**, 136, 3305-32	11.2	54
128	Reducing expression of NAD+ synthesizing enzyme NMNAT1 does not affect the rate of Wallerian degeneration. *FEBS Journal*, **2011**, 278, 2666-79	5.7	53
127	Androgen 5-alpha-reductase type 2 is highly expressed and active in rat spinal cord motor neurones. *Journal of Neuroendocrinology*, **2003**, 15, 882-7	3.8	53
126	Relationship between GAP-43 expression in the dentate gyrus and synaptic reorganization of hippocampal mossy fibres in rats treated with kainic acid. *European Journal of Neuroscience*, **1997**, 9, 93-101	3.5	52
125	Cell culture models to investigate the selective vulnerability of motoneuronal mitochondria to familial ALS-linked G93ASOD1. *European Journal of Neuroscience*, **2006**, 24, 387-99	3.5	52
124	S-100beta protein is upregulated in astrocytes and motor neurons in the spinal cord of patients with amyotrophic lateral sclerosis. *Neuroscience Letters*, **1999**, 261, 25-8	3.3	52
123	Expression of SOD1 G93A or wild-type SOD1 in primary cultures of astrocytes down-regulates the glutamate transporter GLT-1: lack of involvement of oxidative stress. *Journal of Neurochemistry*, **2004**, 88, 481-93	6	51
122	Deprivation of growth hormone-releasing hormone early in the rat's neonatal life permanently affects somatotropic function. *Endocrinology*, **1990**, 127, 1625-34	4.8	51
121	D-Fenfluramine and D-norfenfluramine reduce food intake by acting on different serotonin mechanisms in the rat brain. *Pharmacological Research Communications*, **1982**, 14, 671-8		51
120	Repeated courses of granulocyte colony-stimulating factor in amyotrophic lateral sclerosis: clinical and biological results from a prospective multicenter study. *Muscle and Nerve*, **2011**, 43, 189-95	3.4	50
119	Blood-brain barrier alterations in the cerebral cortex in experimental autoimmune encephalomyelitis. *Journal of Neuropathology and Experimental Neurology*, **2012**, 71, 840-54	3.1	49
118	The heterogeneity of amyotrophic lateral sclerosis: a possible explanation of treatment failure. *Current Medicinal Chemistry*, **2007**, 14, 3185-200	4.3	49

117	Randomized double-blind placebo-controlled trial of acetyl-L-carnitine for ALS. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, **2013**, 14, 397-405	3.6	47
116	The omega-3 fatty acid eicosapentaenoic acid accelerates disease progression in a model of amyotrophic lateral sclerosis. *PLoS ONE*, **2013**, 8, e61626	3.7	47
115	Targets in ALS: designing multidrug therapies. *Trends in Pharmacological Sciences*, **2006**, 27, 267-73	13.2	46
114	p-Chlorphenylalanine changes serotonin transporter mRNA levels and expression of the gene product. *Journal of Neurochemistry*, **1996**, 67, 463-72	6	46
113	Evidence that central 5-HT2 receptors do not play an important role in the anorectic activity of D-fenfluramine in the rat. *Neuropharmacology*, **1989**, 28, 465-9	5.5	46
112	Further studies on the mechanism of serotonin-dependent anorexia in rats. *Psychopharmacology*, **1980**, 68, 99-104	4.7	46
111	Role of brain monoamines in the anorectic activity of mazindol and d-amphetamine in the rat. *European Journal of Pharmacology*, **1977**, 43, 117-24	5.3	46
110	Molecular signatures of amyotrophic lateral sclerosis disease progression in hind and forelimb muscles of an SOD1(G93A) mouse model. *Antioxidants and Redox Signaling*, **2012**, 17, 1333-50	8.4	45
109	Metabolomic Analysis Reveals Increased Aerobic Glycolysis and Amino Acid Deficit in a Cellular Model of Amyotrophic Lateral Sclerosis. *Molecular Neurobiology*, **2016**, 53, 2222-40	6.2	44
108	Dependence to morphine in differentially housed rats. *Psychopharmacology*, **1975**, 41, 15-8	4.7	44
107	Immune response in peripheral axons delays disease progression in SOD1 mice. *Journal of Neuroinflammation*, **2016**, 13, 261	10.1	44
106	Differences in protein quality control correlate with phenotype variability in 2 mouse models of familial amyotrophic lateral sclerosis. *Neurobiology of Aging*, **2015**, 36, 492-504	5.6	43
105	Distribution and cellular localization of high mobility group box protein 1 (HMGB1) in the spinal cord of a transgenic mouse model of ALS. *Neuroscience Letters*, **2007**, 412, 73-7	3.3	43
104	Increased tryptophan hydroxylase mRNA in raphe serotonergic neurons spared by 5,7-dihydroxytryptamine. *Molecular Brain Research*, **1990**, 8, 343-8		43
103	Synthetic and natural small molecule TLR4 antagonists inhibit motoneuron death in cultures from ALS mouse model. *Pharmacological Research*, **2016**, 103, 180-7	10.2	42
102	Effect of fenfluramine and norfenfluramine stereoisomers on stimulant effects of d-amphetamine and apomorphine in the rat. *Pharmacological Research Communications*, **1980**, 12, 567-74		41
101	Evidence that systemically administered salbutamol reduces food intake in rats by acting on central beta-adrenergic sites. *Life Sciences*, **1982**, 30, 905-11	6.8	40
100	Homocysteine levels and amyotrophic lateral sclerosis: A possible link. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2010**, 11, 140-7		39

99	Intracerebroventricular administration of human umbilical cord blood cells delays disease progression in two murine models of motor neuron degeneration. *Rejuvenation Research*, **2011**, 14, 623-39	3.6	38
98	Growth-associated protein (GAP-43), its mRNA, and protein kinase C (PKC) isoenzymes in brain regions of depressed suicides. *Molecular Psychiatry*, **1998**, 3, 411-8	15.1	38
97	Genetic mapping and analysis of somatostatin expression in Snell dwarf mice. *Molecular Brain Research*, **1988**, 464, 283-92		38
96	Increased preproneuropeptide Y mRNA in the rat hippocampus during the development of hippocampal kindling: comparison with the expression of preprosomatostatin mRNA. *Neuroscience Letters*, **1991**, 132, 175-8	3.3	35
95	New Insights on the Mechanisms of Disease Course Variability in ALS from Mutant SOD1 Mouse Models. *Brain Pathology*, **2016**, 26, 237-47	6	34
94	A single high dose of cocaine induces behavioural sensitization and modifies mRNA encoding GluR1 and GAP-43 in rats. *European Journal of Neuroscience*, **2004**, 20, 2833-7	3.5	32
93	Inter- and intracellular signaling in amyotrophic lateral sclerosis: role of p38 mitogen-activated protein kinase. *Neurodegenerative Diseases*, **2005**, 2, 128-34	2.3	32
92	Nitroproteomics of peripheral blood mononuclear cells from patients and a rat model of ALS. *Antioxidants and Redox Signaling*, **2009**, 11, 1559-67	8.4	31
91	Intraregional variation in expression of serotonin transporter messenger RNA by 5-hydroxytryptamine neurons. *Neuroscience*, **1999**, 88, 169-83	3.9	31
90	Differential expression of S100beta and glial fibrillary acidic protein in the hippocampus after kainic acid-induced lesions and mossy fiber sprouting in adult rat. *Experimental Neurology*, **2000**, 161, 317-29	5.7	30
89	ALS mouse model SOD1G93A displays early pathology of sensory small fibers associated to accumulation of a neurotoxic splice variant of peripherin. *Human Molecular Genetics*, **2016**, 25, 1588-99	5.6	29
88	Eating caused by neuropeptide-Y injection in the paraventricular hypothalamus: response to (+)-fenfluramine and (+)-amphetamine in rats. *Journal of Pharmacy and Pharmacology*, **1987**, 39, 900-3	4.8	29
87	Studies on the role of serotonin in different regions of the rat central nervous system on pentylenetetrazol-induced seizures and the effect of di-n-propylacetate. *Naunyn-Schmiedebergs Archives of Pharmacology*, **1983**, 322, 147-52	3.4	28
86	Counteracting roles of MHCI and CD8 T cells in the peripheral and central nervous system of ALS SOD1 mice. *Molecular Neurodegeneration*, **2018**, 13, 42	19	27
85	GAP-43 mRNA localization in the rat hippocampus CA3 field. *Molecular Brain Research*, **1992**, 13, 267-72		27
84	In situ hybridization reveals specific increases in G alpha s and G alpha o mRNA in discrete brain regions of morphine-tolerant rats. *European Journal of Pharmacology*, **1993**, 244, 211-22		27
83	Specific induction of Akt3 in spinal cord motor neurons is neuroprotective in a mouse model of familial amyotrophic lateral sclerosis. *Molecular Neurobiology*, **2014**, 49, 136-48	6.2	26
82	Selective up-regulation of protein kinase C epsilon in granule cells after kainic acid-induced seizures in rat. *Molecular Brain Research*, **1997**, 49, 188-96		26

81	Chronic D-fenfluramine decreases serotonin transporter messenger RNA expression in dorsal raphe nucleus. *European Journal of Pharmacology*, **1994**, 268, 439-42		26
80	Monoamine involvement in the overeating caused by muscimol injection in the rat nucleus raphe dorsalis and the effects of d-fenfluramine and d-amphetamine. *European Journal of Pharmacology*, **1983**, 94, 109-15	5.3	26
79	Unraveling the complexity of amyotrophic lateral sclerosis: recent advances from the transgenic mutant SOD1 mice. *CNS and Neurological Disorders - Drug Targets*, **2010**, 9, 491-503	2.6	26
78	Lack of TNF-alpha receptor type 2 protects motor neurons in a cellular model of amyotrophic lateral sclerosis and in mutant SOD1 mice but does not affect disease progression. *Journal of Neurochemistry*, **2015**, 135, 109-24	6	25
77	The anabolic/androgenic steroid nandrolone exacerbates gene expression modifications induced by mutant SOD1 in muscles of mice models of amyotrophic lateral sclerosis. *Pharmacological Research*, **2012**, 65, 221-30	10.2	25
76	Targeting Extracellular Cyclophilin A Reduces Neuroinflammation and Extends Survival in a Mouse Model of Amyotrophic Lateral Sclerosis. *Journal of Neuroscience*, **2017**, 37, 1413-1427	6.6	24
75	Expression of glutamate receptor subtypes in the spinal cord of control and mnd mice, a model of motor neuron disorder. *Journal of Neuroscience Research*, **2002**, 70, 553-60	4.4	23
74	Further evidence of the inhibitory role of perifornical hypothalamic beta-adrenergic receptors in the feeding behaviour of hungry rats. *Life Sciences*, **1986**, 38, 259-66	6.8	23
73	Peptidylprolyl isomerase A governs TARDBP function and assembly in heterogeneous nuclear ribonucleoprotein complexes. *Brain*, **2015**, 138, 974-91	11.2	22
72	Comparative Magnetic Resonance Imaging and Histopathological Correlates in Two SOD1 Transgenic Mouse Models of Amyotrophic Lateral Sclerosis. *PLoS ONE*, **2015**, 10, e0132159	3.7	22
71	Talampanel reduces the level of motoneuronal calcium in transgenic mutant SOD1 mice only if applied presymptomatically. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2011**, 12, 340-4		21
70	Selective localization of mouse aldehyde oxidase mRNA in the choroid plexus and motor neurons. *NeuroReport*, **1997**, 8, 2343-9	1.7	21
69	RNS60 exerts therapeutic effects in the SOD1 ALS mouse model through protective glia and peripheral nerve rescue. *Journal of Neuroinflammation*, **2018**, 15, 65	10.1	20
68	Human SOD1-G93A specific distribution evidenced in murine brain of a transgenic model for amyotrophic lateral sclerosis by MALDI imaging mass spectrometry. *Journal of Proteome Research*, **2014**, 13, 1800-9	5.6	20
67	Lack of changes in the PI3K/AKT survival pathway in the spinal cord motor neurons of a mouse model of familial amyotrophic lateral sclerosis. *Molecular and Cellular Neurosciences*, **2007**, 34, 592-602	4.8	20
66	Glial activation and TNFR-I upregulation precedes motor dysfunction in the spinal cord of mnd mice. *Cytokine*, **2004**, 25, 127-35	4	20
65	Does GFAP mRNA and mitochondrial benzodiazepine receptor binding detect serotonergic neuronal degeneration in rat?. *Brain Research Bulletin*, **1994**, 34, 389-94	3.9	20
64	Evidence that the dorsal raphe area is involved in the effect of clonidine against pentylenetetrazole-induced seizures in rats. *Naunyn-Schmiedebergs Archives of Pharmacology*, **1984**, 325, 12-6	3.4	20

63	Lentiviral vectors carrying enhancer elements of Hb9 promoter drive selective transgene expression in mouse spinal cord motor neurons. *Journal of Neuroscience Methods*, **2012**, 205, 139-47	3	19
62	A simplified procedure for the physical development of the sulphide silver method to reveal synaptic zinc in combination with immunocytochemistry at light and electron microscopy. *Journal of Neuroscience Methods*, **1998**, 79, 87-96	3	19
61	Erythropoietin does not preserve motor neurons in a mouse model of familial ALS. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2007**, 8, 31-5		19
60	Does excitotoxic cell death of motor neurons in ALS arise from glutamate transporter and glutamate receptor abnormalities?. *Experimental Neurology*, **2006**, 201, 15-23	5.7	19
59	In situ hybridization histochemistry quantification: automatic count on single cell in digital image. *Journal of Neuroscience Methods*, **1993**, 47, 93-103	3	19
58	Repeated treatment with d-fenfluramine or metergoline alters cortex binding of 3H-serotonin and serotenergic sensitivity in rats. *European Journal of Pharmacology*, **1980**, 61, 203-6	5.3	19
57	A pilot trial of RNS60 in amyotrophic lateral sclerosis. *Muscle and Nerve*, **2019**, 59, 303-308	3.4	19
56	Decreased Levels of Foldase and Chaperone Proteins Are Associated with an Early-Onset Amyotrophic Lateral Sclerosis. *Frontiers in Molecular Neuroscience*, **2017**, 10, 99	6.1	18
55	Amyotrophic Lateral Sclerosis, a Multisystem Pathology: Insights into the Role of TNF. *Mediators of Inflammation*, **2017**, 2017, 2985051	4.3	18
54	Increased expression of preproneuropeptide Y and preprosomatostatin mRNA in striatum after selective serotoninergic lesions in rats. *Neuroscience Letters*, **1993**, 160, 197-200	3.3	18
53	Intraspinal stem cell transplantation for amyotrophic lateral sclerosis: Ready for efficacy clinical trials?. *Cytotherapy*, **2016**, 18, 1471-1475	4.8	18
52	Tissue-enhanced plasma proteomic analysis for disease stratification in amyotrophic lateral sclerosis. *Molecular Neurodegeneration*, **2018**, 13, 60	19	18
51	Multiple intracerebroventricular injections of human umbilical cord mesenchymal stem cells delay motor neurons loss but not disease progression of SOD1G93A mice. *Stem Cell Research*, **2017**, 25, 166-178	1.6	17
50	Modeling amyotrophic lateral sclerosis in hSOD1 transgenic swine. *Neurodegenerative Diseases*, **2014**, 13, 246-54	2.3	17
49	Lyophilized red wine administration prolongs survival in an animal model of amyotrophic lateral sclerosis. *Annals of Neurology*, **2000**, 48, 686-687	9.4	16
48	Selective involvement of dopamine in the nucleus accumbens in the feeding response elicited by muscimol injection in the nucleus raphe dorsalis of sated rats. *Pharmacology Biochemistry and Behavior*, **1986**, 24, 1189-93	3.9	16
47	Major Histocompatibility Complex I Expression by Motor Neurons and Its Implication in Amyotrophic Lateral Sclerosis. *Frontiers in Neurology*, **2016**, 7, 89	4.1	16
46	Defining peripheral nervous system dysfunction in the SOD-1G93A transgenic rat model of amyotrophic lateral sclerosis. *Journal of Neuropathology and Experimental Neurology*, **2014**, 73, 658-70	3.1	15

45	Ultrastructural immunolocalization of GAP-43 in the sprouted mossy fibres of kainic acid lesioned rats. *NeuroReport*, **1994**, 5, 2645-8	1.7	15
44	NG2, a common denominator for neuroinflammation, blood-brain barrier alteration, and oligodendrocyte precursor response in EAE, plays a role in dendritic cell activation. *Acta Neuropathologica*, **2016**, 132, 23-42	14.3	15
43	Focus on the heterogeneity of amyotrophic lateral sclerosis. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, **2020**, 21, 485-495	3.6	14
42	Studies on the role of 5-HT receptors in satiation and the effect of d-fenfluramine in the runway test. *European Journal of Pharmacology*, **1990**, 190, 105-12	5.3	14
41	P2X7 activation enhances skeletal muscle metabolism and regeneration in SOD1G93A mouse model of amyotrophic lateral sclerosis. *Brain Pathology*, **2020**, 30, 272-282	6	14
40	Longitudinal tracking of triple labeled umbilical cord derived mesenchymal stromal cells in a mouse model of Amyotrophic Lateral Sclerosis. *Stem Cell Research*, **2015**, 15, 243-53	1.6	13
39	Automatic quantitative evaluation of autoradiographic band films by computerized image analysis. *Life Sciences*, **1993**, 53, PL331-6	6.8	13
38	Potential antidepressant properties of SR 57746A, a novel compound with selectivity and high affinity for 5-HT1A receptors. *European Journal of Pharmacology*, **1994**, 253, 139-47	5.3	12
37	miR-129-5p: A key factor and therapeutic target in amyotrophic lateral sclerosis. *Progress in Neurobiology*, **2020**, 190, 101803	10.9	11
36	Effect of d-fenfluramine and 5,7-dihydroxytryptamine on the levels of tryptophan hydroxylase and its mRNA in rat brain. *Molecular Brain Research*, **1993**, 19, 257-61		11
35	Developmental expression of the gene encoding growth-associated protein 43 (Gap43) in the brains of normal and aneuploid mice. *Journal of Neuroscience Research*, **1991**, 29, 449-60	4.4	11
34	A mouse model of familial ALS has increased CNS levels of endogenous ubiquinol9/10 and does not benefit from exogenous administration of ubiquinol10. *PLoS ONE*, **2013**, 8, e69540	3.7	11
33	Motor neuron degeneration, severe myopathy and TDP-43 increase in a transgenic pig model of SOD1-linked familiar ALS. *Neurobiology of Disease*, **2019**, 124, 263-275	7.5	11
32	Altered Metabolic Profiles Associate with Toxicity in SOD1 Astrocyte-Neuron Co-Cultures. *Scientific Reports*, **2017**, 7, 50	4.9	10
31	Hyperphagia caused by muscimol injection in the nucleus raphe dorsalis of rats: its control by 5-hydroxytryptamine in the nucleus accumbens. *Journal of Pharmacy and Pharmacology*, **1986**, 38, 541-3	4.8	10
30	Kif1Bbeta isoform is enriched in motor neurons but does not change in a mouse model of amyotrophic lateral sclerosis. *Journal of Neuroscience Research*, **2003**, 71, 732-9	4.4	10
29	Perinatal morphine treatment inhibits pruning effect and regeneration of serotoninergic pathways following neonatal 5,7-HT lesions. *Journal of Neuroscience Research*, **1993**, 34, 462-71	4.4	10
28	Increased axonal ribosome numbers is an early event in the pathogenesis of amyotrophic lateral sclerosis. *PLoS ONE*, **2014**, 9, e87255	3.7	10

27	Targeting Stress Activated Protein Kinases, JNK and p38, as New Therapeutic Approach for Neurodegenerative Diseases. *Central Nervous System Agents in Medicinal Chemistry*, **2006**, 6, 109-117	1.8	9
26	Merits of a New Drug Trial for ALS?. *Science*, **2005**, 308, 632b-633b	33.3	9
25	Rat brain serotonin neurones that express neuronal nitric oxide synthase have increased sensitivity to the substituted amphetamine serotonin toxins 3,4-methylenedioxymethamphetamine and p-chloroamphetamine. *Neuroscience*, **2005**, 134, 1363-75	3.9	9
24	The densitometric physical fractionator for counting neuronal populations: application to a mouse model of familial amyotrophic lateral sclerosis. *Journal of Neuroscience Methods*, **2003**, 129, 61-71	3	9
23	The role of different types of adrenergic receptors in pentylenetetrazol-induced seizures and the effect of di-n-propylacetate in the rat. *Psychopharmacology*, **1983**, 81, 177-82	4.7	9
22	Spinal Cord Metabolic Signatures in Models of Fast- and Slow-Progressing SOD1 Amyotrophic Lateral Sclerosis. *Frontiers in Neuroscience*, **2019**, 13, 1276	5.1	9
21	Micro-computed tomography for non-invasive evaluation of muscle atrophy in mouse models of disease. *PLoS ONE*, **2018**, 13, e0198089	3.7	8
20	Cycloheximide inhibits kainic acid-induced GAP-43 mRNA in dentate granule cells in rats. *NeuroReport*, **1996**, 7, 2539-42	1.7	8
19	Acute and chronic treatments with citalopram lower somatostatin levels in rat brain striatum through different mechanisms. *Journal of Neurochemistry*, **1997**, 69, 206-13	6	7
18	Creatine Kinase and Progression Rate in Amyotrophic Lateral Sclerosis. *Cells*, **2020**, 9,	7.9	6
17	Lipofuscin accumulation and gene expression in different tissues of mnd mice. *Molecular Neurobiology*, **2012**, 45, 247-57	6.2	6
16	New ideas for therapy in ALS: critical considerations. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2006**, 7, 126-7; discussion 127		6
15	CXCL13/CXCR5 signalling is pivotal to preserve motor neurons in amyotrophic lateral sclerosis. *EBioMedicine*, **2020**, 62, 103097	8.8	6
14	The Emerging Role of the Major Histocompatibility Complex Class I in Amyotrophic Lateral Sclerosis. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	4
13	Overexpression of S100beta in transgenic mice does not protect from serotonergic denervation induced by 5,7-dihydroxytryptamine. *Journal of Neuroscience Research*, **2002**, 67, 501-10	4.4	3
12	5′ValCAC tRNA fragment generated as part of a protective angiogenin response provides prognostic value in amyotrophic lateral sclerosis. *Brain Communications*, **2020**, 2, fcaa138	4.5	3
11	Introduction. *Brain Pathology*, **2016**, 26, 224-6	6	3
10	Presymptomatically applied AMPA receptor antagonist prevents calcium increase in vulnerable type of motor axon terminals of mice modeling amyotrophic lateral sclerosis. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 1739-1748	6.9	2

9	Interplay between immunity and amyotrophic lateral sclerosis: Clinical impact. *Neuroscience and Biobehavioral Reviews*, **2021**, 127, 958-978	9	2
8	Excitotoxicity in Amyotrophic Lateral Sclerosis: Selective Vulnerability of Motor Neurons **2004**, 217-227		2
7	Translational Research in ALS **2008**, 267-310		1
6	Studies on the mechanisms of tolerance to the anorectic effect of salbutamol in rats. *European Journal of Pharmacology*, **1983**, 92, 237-42	5.3	1
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