

Maria Teresa Carri

List of Publications by Year in descending order

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92
papers

4,754
citations

66343

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102487

66
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92
all docs

92
docs citations

92
times ranked

5947
citing authors

#	ARTICLE	IF	CITATIONS
1	Familial ALS-superoxide dismutases associate with mitochondria and shift their redox potentials. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13860-13865.	7.1	231
2	Mitochondrial dysfunction in ALS. Progress in Neurobiology, 2012, 97, 54-66.	5.7	197
3	Lessons from models of SOD1-linked familial ALS. Trends in Molecular Medicine, 2004, 10, 393-400.	6.7	187
4	Neurodegeneration in amyotrophic lateral sclerosis: the role of oxidative stress and altered homeostasis of metals. Brain Research Bulletin, 2003, 61, 365-374.	3.0	186
5	Apoptotic mechanisms in mutant LRRK2-mediated cell death. Human Molecular Genetics, 2007, 16, 1319-1326.	2.9	175
6	Amyotrophic Lateral Sclerosis: From Current Developments in the Laboratory to Clinical Implications. Antioxidants and Redox Signaling, 2008, 10, 405-444.	5.4	131
7	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, 221-228.	2.1	127
8	Neuroprotective and neurotogenic activities of novel multimodal iron-chelating drugs in motor neuron-like NSC34 cells and transgenic mouse model of amyotrophic lateral sclerosis. FASEB Journal, 2009, 23, 3766-3779.	0.5	121
9	Cysteine 111 Affects Aggregation and Cytotoxicity of Mutant Cu,Zn-superoxide Dismutase Associated with Familial Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2008, 283, 866-874.	3.4	110
10	The Proinflammatory Action of Microglial P2 Receptors Is Enhanced in SOD1 Models for Amyotrophic Lateral Sclerosis. Journal of Immunology, 2009, 183, 4648-4656.	0.8	105
11	The NADPH Oxidase Pathway Is Dysregulated by the P2X7 Receptor in the SOD1-G93A Microglia Model of Amyotrophic Lateral Sclerosis. Journal of Immunology, 2013, 190, 5187-5195.	0.8	103
12	Oxidative stress and mitochondrial damage: importance in non-SOD1 ALS. Frontiers in Cellular Neuroscience, 2015, 9, 41.	3.7	98
13	Nuclear accumulation of mRNAs underlies G4C2 repeat-induced translational repression in a cellular model of ALS. Journal of Cell Science, 2015, 128, 1787-99.	2.0	96
14	Impairment of mitochondrial calcium handling in a mtSOD1 cell culture model of motoneuron disease. BMC Neuroscience, 2009, 10, 64.	1.9	92
15	Oxidative stress and mitochondrial damage in the pathogenesis of ALS: New perspectives. Neuroscience Letters, 2017, 636, 3-8.	2.1	92
16	Evidence for co-regulation of Cu,Zn superoxide dismutase and metallothionein gene expression in yeast through transcriptional control by copper via the ACE 1 factor. FEBS Letters, 1991, 278, 263-266.	2.8	89
17	SIRT3 and mitochondrial metabolism in neurodegenerative diseases. Neurochemistry International, 2017, 109, 184-192.	3.8	89
18	Mitochondria and ALS: Implications from novel genes and pathways. Molecular and Cellular Neurosciences, 2013, 55, 44-49.	2.2	81

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19	Oligomerization of Mutant SOD1 in Mitochondria of Motoneuronal Cells Drives Mitochondrial Damage and Cell Toxicity. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1547-1558.	5.4	79
20	Glutaredoxin 2 prevents aggregation of mutant SOD1 in mitochondria and abolishes its toxicity. <i>Human Molecular Genetics</i> , 2010, 19, 4529-4542.	2.9	79
21	Mitochondrial dysfunction due to mutant copper/zinc superoxide dismutase associated with amyotrophic lateral sclerosis is reversed by N-acetylcysteine. <i>Neurobiology of Disease</i> , 2003, 13, 213-221.	4.4	74
22	Pathways to mitochondrial dysfunction in ALS pathogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 1187-1193.	2.1	72
23	The relationship between chromosomal origins of replication and the nuclear matrix during the cell cycle. <i>Experimental Cell Research</i> , 1986, 164, 426-436.	2.6	70
24	Role of Zinc-Coordination and of the Glutathione Redox Couple in the Redox Susceptibility of Human Transcription Factor Sp1. <i>Biochemical and Biophysical Research Communications</i> , 1994, 201, 871-877.	2.1	66
25	LRRK2 Affects Vesicle Trafficking, Neurotransmitter Extracellular Level and Membrane Receptor Localization. <i>PLoS ONE</i> , 2013, 8, e77198.	2.5	66
26	Interaction of Cisplatin with Human Superoxide Dismutase. <i>Journal of the American Chemical Society</i> , 2012, 134, 7009-7014.	13.7	65
27	SOD1 and mitochondria in ALS: a dangerous liaison. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 593-599.	2.3	64
28	Increase of Cu,Zn-superoxide dismutase activity during differentiation of human K562 cells involves activation by copper of a constantly expressed copper-deficient protein.. <i>Journal of Biological Chemistry</i> , 1991, 266, 24580-24587.	3.4	62
29	Targets in ALS: designing multidrug therapies. <i>Trends in Pharmacological Sciences</i> , 2006, 27, 267-273.	8.7	60
30	Mislocalised FUS mutants stall spliceosomal snRNPs in the cytoplasm. <i>Neurobiology of Disease</i> , 2013, 55, 120-128.	4.4	60
31	Amyotrophic Lateral Sclerosis: New Insights into Underlying Molecular Mechanisms and Opportunities for Therapeutic Intervention. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1277-1330.	5.4	58
32	Aberrant Copper Chemistry as a Major Mediator of Oxidative Stress in a Human Cellular Model of Amyotrophic Lateral Sclerosis. <i>Journal of Neurochemistry</i> , 2001, 73, 1175-1180.	3.9	56
33	Cell death in amyotrophic lateral sclerosis: interplay between neuronal and glial cells. <i>FASEB Journal</i> , 2004, 18, 1261-1263.	0.5	55
34	Astroglial Inhibition of NF- κ B Does Not Ameliorate Disease Onset and Progression in a Mouse Model for Amyotrophic Lateral Sclerosis (ALS). <i>PLoS ONE</i> , 2011, 6, e17187.	2.5	55
35	Role of LRRK2 in the regulation of dopamine receptor trafficking. <i>PLoS ONE</i> , 2017, 12, e0179082.	2.5	55
36	Overexpression of superoxide dismutase 1 protects against β 2-amyloid peptide toxicity: effect of estrogen and copper chelators. <i>Neurochemistry International</i> , 2004, 44, 25-33.	3.8	53

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37	Beta-amyloid causes downregulation of calcineurin in neurons through induction of oxidative stress. <i>Neurobiology of Disease</i> , 2007, 26, 342-352.	4.4	52
38	Mitochondrial damage modulates alternative splicing in neuronal cells: implications for neurodegeneration. <i>Journal of Neurochemistry</i> , 2007, 100, 142-153.	3.9	49
39	Calcineurin Activity Is Regulated Both by Redox Compounds and by Mutant Familial Amyotrophic Lateral Sclerosis-Superoxide Dismutase. <i>Journal of Neurochemistry</i> , 2002, 75, 606-613.	3.9	46
40	The sinister side of Italian soccer. <i>Lancet Neurology</i> , The, 2003, 2, 656-657.	10.2	46
41	Old <i>versus</i> New Mechanisms in the Pathogenesis of ALS. <i>Brain Pathology</i> , 2016, 26, 276-286.	4.1	45
42	Mitochondrial dynamism and the pathogenesis of Amyotrophic Lateral Sclerosis. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 31.	3.7	44
43	Activation and induction by copper of Cu/Zn superoxide dismutase in <i>Saccharomyces cerevisiae</i> . Presence of an inactive proenzyme in anaerobic yeast. <i>FEBS Journal</i> , 1991, 196, 545-549.	0.2	42
44	Superoxide dismutase 1 modulates expression of transferrin receptor. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 489-498.	2.6	41
45	Mitochondrial redox signalling by p66Shc mediates ALS-like disease through Rac1 inactivation. <i>Human Molecular Genetics</i> , 2011, 20, 4196-4208.	2.9	41
46	Differential toxicity of TAR DNA-binding protein 43 isoforms depends on their submitochondrial localization in neuronal cells. <i>Journal of Neurochemistry</i> , 2018, 146, 585-597.	3.9	39
47	Crystal structure of the cyanide-inhibited <i>Xenopus laevis</i> Cu,Zn superoxide dismutase at 98 K. <i>FEBS Letters</i> , 1994, 349, 93-98.	2.8	35
48	Differential role of superoxide and glutathione in S-nitrosoglutathione-mediated apoptosis: a rationale for mild forms of familial amyotrophic lateral sclerosis associated with less active Cu,Zn superoxide dismutase mutants. <i>Journal of Neurochemistry</i> , 2001, 77, 1433-1443.	3.9	35
49	Oxidative modulation of nuclear factor- κ B in human cells expressing mutant fALS-typical superoxide dismutases. <i>Journal of Neurochemistry</i> , 2002, 83, 1019-1029.	3.9	35
50	An electron microscope study of chromosomal DNA replication in different eukaryotic systems. <i>Experimental Cell Research</i> , 1982, 137, 127-140.	2.6	34
51	Activity of protein phosphatase calcineurin is decreased in sporadic and familial amyotrophic lateral sclerosis patients. <i>Journal of Neurochemistry</i> , 2004, 90, 1237-1242.	3.9	34
52	Oxidative inactivation of calcineurin by Cu,Zn superoxide dismutase G93A, a mutant typical of familial amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , 2008, 79, 531-538.	3.9	33
53	Mutant SOD1 and mitochondrial damage alter expression and splicing of genes controlling neuriteogenesis in models of neurodegeneration. <i>Human Mutation</i> , 2011, 32, 168-182.	2.5	33
54	Neuroinflammation in Amyotrophic Lateral Sclerosis: Role of Redox (dys)Regulation. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 15-36.	5.4	31

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55	Impairment of glutamate transport and increased vulnerability to oxidative stress in neuroblastoma SH-SY5Y cells expressing a Cu,Zn superoxide dismutase typical of familial amyotrophic lateral sclerosis. <i>Neurochemistry International</i> , 2005, 46, 227-234.	3.8	29
56	The intriguing case of motor neuron disease: ALS and SMA come closer. <i>Biochemical Society Transactions</i> , 2013, 41, 1593-1597.	3.4	29
57	Structural insights into the multi-determinant aggregation of TDP-43 in motor neuron-like cells. <i>Neurobiology of Disease</i> , 2016, 94, 63-72.	4.4	29
58	Functional interaction between FUS and SMN underlies SMA-like splicing changes in wild-type hFUS mice. <i>Scientific Reports</i> , 2017, 7, 2033.	3.3	27
59	Metal Uptake of Recombinant Cambialistic Superoxide Dismutase from <i>Propionibacterium shermanii</i> Is Affected by Growth Conditions of Host <i>Escherichia coli</i> Cells. <i>Biochemical and Biophysical Research Communications</i> , 1995, 216, 841-847.	2.1	26
60	Apa1 mediates apoptosis and mitochondrial damage induced by mutant human SOD1s typical of familial amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2006, 21, 69-79.	4.4	25
61	Inactivation of cytochrome <i>c</i> oxidase by mutant SOD1s in mouse motoneuronal NSC34 cells is independent from copper availability but is because of nitric oxide. <i>Journal of Neurochemistry</i> , 2010, 112, 183-192.	3.9	25
62	The S100A4 Transcriptional Inhibitor Niclosamide Reduces Pro-Inflammatory and Migratory Phenotypes of Microglia: Implications for Amyotrophic Lateral Sclerosis. <i>Cells</i> , 2019, 8, 1261.	4.1	24
63	Mutation of Lys-120 and Lys-134 drastically reduces the catalytic rate of Cu,Zn superoxide dismutase. <i>FEBS Letters</i> , 1994, 352, 76-78.	2.8	23
64	Cysteine Modifications in the Pathogenesis of ALS. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 5.	2.9	22
65	Primary structure from amino acid and cDNA sequences of two Cu,Zn superoxide dismutase variants from <i>Xenopus laevis</i> . <i>Archives of Biochemistry and Biophysics</i> , 1989, 272, 507-515.	3.0	20
66	Voltage-activated sodium currents in a cell line expressing a Cu,Zn superoxide dismutase typical of familial ALS. <i>NeuroReport</i> , 1998, 9, 3515-3518.	1.2	20
67	Abnormal sensitivity of cannabinoid CB1 receptors in the striatum of mice with experimental amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2010, 11, 83-90.	2.1	20
68	Effect of Lys ¹²⁰ Arg mutation on the thermal stability of Cu,Zn superoxide dismutase: influence on the monomer-dimer equilibrium. <i>Protein Engineering, Design and Selection</i> , 1996, 9, 323-325.	2.1	19
69	Bcl2-A1 interacts with pro-caspase-3: Implications for amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2011, 43, 642-650.	4.4	19
70	Epigenetic Changes Associated with the Expression of Amyotrophic Lateral Sclerosis (ALS) Causing Genes. <i>Neuroscience</i> , 2018, 390, 1-11.	2.3	18
71	Inflammatory cytokines increase mitochondrial damage in motoneuronal cells expressing mutant SOD1. <i>Neurobiology of Disease</i> , 2008, 32, 454-460.	4.4	16
72	UsnRNP trafficking is regulated by stress granules and compromised by mutant ALS proteins. <i>Neurobiology of Disease</i> , 2020, 138, 104792.	4.4	15

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73	A Free Cysteine Residue at the Dimer Interface Decreases Conformational Stability of <i>Xenopus laevis</i> Copper,Zinc Superoxide Dismutase. <i>Archives of Biochemistry and Biophysics</i> , 2000, 377, 284-289.	3.0	14
74	Expression of a Cu,Zn superoxide dismutase typical for familial amyotrophic lateral sclerosis increases the vulnerability of neuroblastoma cells to infectious injury. <i>BMC Infectious Diseases</i> , 2007, 7, 131.	2.9	14
75	Dynamic NAD(P)H post-synaptic autofluorescence signals for the assessment of mitochondrial function in a neurodegenerative disease: Monitoring the primary motor cortex of G93A mice, an amyotrophic lateral sclerosis model. <i>Mitochondrion</i> , 2010, 10, 108-114.	3.4	14
76	2â€œDE and MALDIâ€œTOFâ€œMS for a comparative analysis of proteins expressed in different cellular models of amyotrophic lateral sclerosis. <i>Electrophoresis</i> , 2007, 28, 4320-4329.	2.4	13
77	Copper depletion increases the mitochondrial-associated SOD1 in neuronal cells. <i>BioMetals</i> , 2011, 24, 269-278.	4.1	13
78	Minocycline for patients with ALS. <i>Lancet Neurology</i> , The, 2008, 7, 118-119.	10.2	12
79	<i>S</i>-Nitrosoglutathione Reductase Plays Opposite Roles in SH-SY5Y Models of Parkinsonâ€™s Disease and Amyotrophic Lateral Sclerosis. <i>Mediators of Inflammation</i> , 2015, 2015, 1-12.	3.0	12
80	Cystatin B and SOD1: Proteinâ€™Protein Interaction and Possible Relation to Neurodegeneration. <i>Cellular and Molecular Neurobiology</i> , 2014, 34, 205-213.	3.3	11
81	Crystallization and Preliminary Crystallographic Analysis of Recombinant <i>Xenopus laevis</i> Cu, Zn Superoxide Dismutase b. <i>Biochemical and Biophysical Research Communications</i> , 1993, 194, 1008-1011.	2.1	10
82	Resistance to striatal dopamine depletion induced by 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine in mice expressing human mutant Cu,Zn superoxide dismutase. <i>Neuroscience Letters</i> , 2002, 325, 124-128.	2.1	10
83	<i>Xenopus laevis</i> Cu,Zn superoxide dismutase B cDNA sequence. <i>Nucleic Acids Research</i> , 1990, 18, 1641-1641.	14.5	9
84	nNOS/GSNOR interaction contributes to skeletal muscle differentiation and homeostasis. <i>Cell Death and Disease</i> , 2019, 10, 354.	6.3	9
85	50-Hz magnetic field impairs the expression of iron-related genes in the in vitro SOD1^{G93A} model of amyotrophic lateral sclerosis. <i>International Journal of Radiation Biology</i> , 2019, 95, 368-377.	1.8	9
86	Amyotrophic Lateral Sclerosis: Mechanisms and Countermeasures. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1519-1522.	5.4	8
87	Mitochondria in the nervous system: From health to disease, Part I. <i>Neurochemistry International</i> , 2017, 109, 1-4.	3.8	7
88	Mitochondria in the nervous system: From health to disease, part II. <i>Neurochemistry International</i> , 2018, 117, 1-4.	3.8	6
89	Which TDP-43 aggregates are toxic in ALS?. <i>Oncotarget</i> , 2016, 7, 81973-81974.	1.8	2
90	Neurochemistry of SOD1 and familial amyotrophic lateral sclerosis. <i>Functional Neurology</i> , 2001, 16, 73-82.	1.3	1

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91	The Role of Metals and their Effect on Oxidative Stress in Amyotrophic Lateral Sclerosis. , 2007, , 383-398.		0
92	Diverse roles of FUS in Amyotrophic Lateral Sclerosis. SpringerPlus, 2015, 4, L54.	1.2	0