

The neurotoxicity of glutamate, dopamine, iron and re
interrelationships in health and disease: A review â€” d

Neurotoxicity Research

1, 27-39

DOI: 10.1007/bf03033337

Citation Report

#	ARTICLE	IF	CITATIONS
1	Neuroprotective and neurorestorative strategies for neuronal injury. <i>Neurotoxicity Research</i> , 2000, 2, 71-84.	1.3	14
2	Dopaminergic denervation enhances susceptibility to hydroxyl radicals in rat neostriatum. <i>Amino Acids</i> , 2000, 19, 183-199.	1.2	33
3	Redox Aspects of Signaling by Catecholamines and Their Metabolites. <i>Antioxidants and Redox Signaling</i> , 2000, 2, 575-583.	2.5	55
4	What is the function of receptor and membrane endocytosis at the postsynaptic neuron?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 1363-1367.	1.2	8
5	Neuroprotective effects of GDNF against 6-OHDA in young and aged rats. <i>Brain Research</i> , 2001, 896, 56-63.	1.1	38
6	The adrenochrome hypothesis of schizophrenia revisited. <i>Neurotoxicity Research</i> , 2002, 4, 147-150.	1.3	23
7	Dopamine- or L-DOPA-induced neurotoxicity: The role of dopamine quinone formation and tyrosinase in a model of Parkinson's disease. <i>Neurotoxicity Research</i> , 2003, 5, 165-176.	1.3	460
8	In vitro neuroprotection against oxidative stress by pre-treatment with a combination of dihydrolipoic acid and phenyl-butyl nitrones. <i>Neurotoxicity Research</i> , 2003, 5, 265-272.	1.3	16
9	Lead-Exposed Increase in Movement Behavior and Brain Lipid Peroxidation in Fish. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2003, 38, 631-643.	0.9	15
10	Inhibition of SIN-1-Induced Change in Mitochondrial Membrane Permeability in PC12 Cells by Dopamine. <i>Neurochemical Research</i> , 2004, 29, 1371-1379.	1.6	3
11	Evidence for Oxidative DNA Damage in the Hippocampus of Elderly Patients With Chronic Schizophrenia. <i>American Journal of Geriatric Psychiatry</i> , 2004, 12, 167-175.	0.6	93
12	Antioxidant potential of vitamins A, E and C in modulating oxidative stress in rat brain. <i>Clinica Chimica Acta</i> , 2004, 340, 229-233.	0.5	211
13	Choosing electrodes for deep brain stimulation experiments—electrochemical considerations. <i>Journal of Neuroscience Methods</i> , 2005, 142, 251-265.	1.3	116
14	Degree of damage compensation by various pacap treatments in monosodium glutamate-induced retinal degeneration. <i>Neurotoxicity Research</i> , 2005, 8, 227-233.	1.3	45
15	L-dopa and dopamine enhance the formation of aggregates under proteasome inhibition in PC12 cells. <i>FEBS Letters</i> , 2005, 579, 1197-1202.	1.3	29
16	Beneficial effects of vitamin C and vitamin E on reserpine-induced oral dyskinesia in rats: Critical role of striatal catalase activity. <i>Neuropharmacology</i> , 2005, 48, 993-1001.	2.0	52
17	Section II. The Dopamine System. <i>International Review of Neurobiology</i> , 2005, 64, 123-172.	0.9	14
18	Overexpression of NQO1 protects human SK-N-MC neuroblastoma cells against dopamine-induced cell death. <i>Toxicology Letters</i> , 2006, 166, 261-267.	0.4	53

#	ARTICLE	IF	CITATIONS
19	Antioxidant effect of ascorbic acid on PCB (Aroclor 1254) induced oxidative stress in hypothalamus of albino rats. <i>Clinica Chimica Acta</i> , 2006, 365, 297-303.	0.5	70
20	Reactive oxygen species and related haem pathway components as possible epigenetic modifiers in neurobehavioural pathology. <i>Medical Hypotheses</i> , 2006, 66, 92-99.	0.8	10
21	Nonsteroidal anti-inflammatory drugs in Parkinson's disease: possible involvement of quinone formation. <i>Expert Review of Neurotherapeutics</i> , 2006, 6, 1313-1325.	1.4	26
22	Oxidative stress modulates membrane bound ATPases in brain regions of PCB (Aroclor 1254) exposed rats: Protective role of α -tocopherol. <i>Biomedicine and Pharmacotherapy</i> , 2007, 61, 435-440.	2.5	32
23	PCB (Aroclor 1254) enhances oxidative damage in rat brain regions: Protective role of ascorbic acid. <i>NeuroToxicology</i> , 2007, 28, 490-498.	1.4	68
24	Co-administration of C-Phycocyanin ameliorates thioacetamide-induced hepatic encephalopathy in Wistar rats. <i>Journal of the Neurological Sciences</i> , 2007, 252, 67-75.	0.3	56
25	Iron Storage within Dopamine Neurovesicles Revealed by Chemical Nano-Imaging. <i>PLoS ONE</i> , 2007, 2, e925.	1.1	159
26	Effects of pituitary adenylate cyclase activating polypeptide (PACAP) on the PKA- β -14-3-3 signaling pathway in glutamate-induced retinal injury in neonatal rats. <i>Neurotoxicity Research</i> , 2007, 12, 95-104.	1.3	47
27	Fulminant Hepatic Failure in Rats Induces Oxidative Stress Differentially in Cerebral Cortex, Cerebellum and Pons Medulla. <i>Neurochemical Research</i> , 2007, 32, 517-524.	1.6	71
28	Antioxidant potential of crocins and ethanol extracts of <i>Gardenia jasminoides</i> ELLIS and <i>Crocus sativus</i> L.: A relationship investigation between antioxidant activity and crocin contents. <i>Food Chemistry</i> , 2008, 109, 484-492.	4.2	151
29	Assessment of the direct and indirect effects of MPP+ and dopamine on the human proteasome: implications for Parkinson's disease aetiology. <i>Journal of Neurochemistry</i> , 2008, 105, 225-238.	2.1	28
30	Potent induction of total cellular GSH and NQO1 as well as mitochondrial GSH by 3H-1,2-dithiole-3-thione in SH-SY5Y neuroblastoma cells and primary human neurons: Protection against neurocytotoxicity elicited by dopamine, 6-hydroxydopamine, 4-hydroxy-2-nonenal, or hydrogen peroxide. <i>Brain Research</i> , 2008, 1197, 159-169.	1.1	55
31	Protective role of melatonin on PCB (Aroclor 1254) induced oxidative stress and changes in acetylcholine esterase and membrane bound ATPases in cerebellum, cerebral cortex and hippocampus of adult rat brain. <i>International Journal of Developmental Neuroscience</i> , 2008, 26, 585-591.	0.7	43
32	Cruciferous Nutraceutical 3H-1,2-dithiole-3-thione Protects Human Primary Astrocytes Against Neurocytotoxicity Elicited by MPTP, MPP+, 6-OHDA, HNE and Acrolein. <i>Neurochemical Research</i> , 2009, 34, 1924-1934.	1.6	28
33	Oxidative Stress Alters Creatine Kinase System in Serum and Brain Regions of Polychlorinated Biphenyl (Aroclor 1254)-Exposed Rats: Protective Role of Melatonin. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2009, 105, 92-97.	1.2	37
34	Protective effects of <i>Nigella sativa</i> oil on propoxur-induced toxicity and oxidative stress in rat brain regions. <i>Pesticide Biochemistry and Physiology</i> , 2010, 98, 128-134.	1.6	37
35	Prolonged Al^{3+} treatment leads to impairment in the ability of primary cortical neurons to maintain K^{+} and Ca^{2+} homeostasis. <i>Molecular Neurodegeneration</i> , 2010, 5, 30.	4.4	15
36	Effect of melatonin on PCB (Aroclor 1254) induced neuronal damage and changes in Cu/Zn superoxide dismutase and glutathione peroxidase-4 mRNA expression in cerebral cortex, cerebellum and hippocampus of adult rats. <i>Neuroscience Research</i> , 2010, 66, 189-197.	1.0	43

#	ARTICLE	IF	CITATIONS
37	Optimizing a Rodent Model of Parkinson's Disease for Exploring the Effects and Mechanisms of Deep Brain Stimulation. <i>Parkinson's Disease</i> , 2011, 2011, 1-19.	0.6	45
38	Electrochemically selective determination of dopamine in the presence of ascorbic and uric acids on the surface of the modified Nafion/single wall carbon nanotube/poly(3-methylthiophene) glassy carbon electrodes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 764-770.	2.5	71
39	Valeriana officinalis ameliorates vacuuous chewing movements induced by reserpine in rats. <i>Journal of Neural Transmission</i> , 2011, 118, 1547-1557.	1.4	27
40	PACAP Improves Functional Outcome in Excitotoxic Retinal Lesion: An Electroretinographic Study. <i>Journal of Molecular Neuroscience</i> , 2011, 43, 44-50.	1.1	23
41	Oxidative stress in schizophrenia: An integrated approach. <i>Neuroscience and Biobehavioral Reviews</i> , 2011, 35, 878-893.	2.9	375
42	Studies on Experimental Models. , 2011, , .		1
43	Latent toxoplasmosis reduces gray matter density in schizophrenia but not in controls: Voxel-based-morphometry (VBM) study. <i>World Journal of Biological Psychiatry</i> , 2012, 13, 501-509.	1.3	77
44	Disturbed Function of GABAergic Interneurons in Schizophrenia: Relevance for Medical Treatment?. <i>Current Pharmaceutical Biotechnology</i> , 2012, 13, 1549-1556.	0.9	8
45	Electrochemical detection of dopamine in the presence of epinephrine, uric acid and ascorbic acid using a graphene-modified electrode. <i>Analytical Methods</i> , 2012, 4, 1687.	1.3	89
46	Effect of <i>Nigella sativa</i> and wheat germ oils on scopolamine-induced memory impairment in rats. <i>Bulletin of Faculty of Pharmacy, Cairo University</i> , 2012, 50, 81-88.	0.2	26
47	Layer-by-layer assembled multilayer films of reduced graphene oxide/gold nanoparticles for the electrochemical detection of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2012, 672, 40-44.	1.9	132
48	Oxidative stress, neurodegeneration, and the balance of protein degradation and protein synthesis. <i>Free Radical Biology and Medicine</i> , 2013, 62, 170-185.	1.3	296
49	Electrochemical detection of dopamine at poly(solochrome cyanine)/Pd nanoparticles doped modified carbon paste electrode and simultaneous resolution in the presence of ascorbic acid and uric acid: a voltammetric method. <i>Analytical Methods</i> , 2013, 5, 5627.	1.3	28
50	Glutamatergic Dysbalance and Oxidative Stress in In Vivo and In Vitro Models of Psychosis Based on Chronic NMDA Receptor Antagonism. <i>PLoS ONE</i> , 2013, 8, e59395.	1.1	24
51	Dopaminergic foundations of schizotypy as measured by the German version of the Oxford-Liverpool Inventory of Feelings and Experiences (O-LIFE)â€”a suitable endophenotype of schizophrenia. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 1.	1.0	1,073
52	The desferrioxamine-prochlorperazine comaâ€”a clue to the role of dopamine-iron recycling in the synthesis of hydrogen peroxide in the brain. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 74.	1.4	2
53	Why are neurotransmitters neurotoxic? An evolutionary perspective. <i>F1000Research</i> , 2014, 3, 179.	0.8	13
54	Protective Effect of <i>Solanum nigrum</i> Leaves Extract on Immobilization Stress Induced Changes in Ratâ€™s Brain. <i>Evidence-based Complementary and Alternative Medicine</i> , 2014, 2014, 1-7.	0.5	36

#	ARTICLE	IF	CITATIONS
55	An efficient optical-electrochemical dual probe for highly sensitive recognition of dopamine based on terbium complex functionalized reduced graphene oxide. <i>Nanoscale</i> , 2014, 6, 4583-4587.	2.8	22
56	Long-Term Systemic Exposure to Rotenone Induces Central and Peripheral Pathology of Parkinson's Disease in Mice. <i>Neurochemical Research</i> , 2015, 40, 1165-1178.	1.6	21
57	Oxidative stress responses in Wistar rats on subacute exposure to pharmaceutical wastewater. <i>Environmental Science and Pollution Research</i> , 2016, 23, 24158-24165.	2.7	29
58	Signaling Mechanisms in the Nitric Oxide Donor- and Amphetamine-Induced Dopamine Release in Mesencephalic Primary Cultured Neurons. <i>Neurotoxicity Research</i> , 2016, 29, 92-104.	1.3	6
59	Preparation of highly stable fullerene C60 decorated graphene oxide nanocomposite and its sensitive electrochemical detection of dopamine in rat brain and pharmaceutical samples. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 375-381.	5.0	65
60	Evaluation of a New Biosensor Based on <i>in Situ</i> Synthesized PPy-Ag-PVP Nanohybrid for Selective Detection of Dopamine. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1118-1127.	1.2	48
61	Effect of release of dopamine on iron transformations and reactive oxygen species (ROS) generation under conditions typical of coastal waters. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 232-244.	1.7	9
62	Carbon nanomaterials for electroanalysis in pharmaceutical applications. , 2018, , 169-225.		11
63	Disubstituted Dithiolethione ACDT Exerts Neuroprotective Effects Against 6-Hydroxydopamine-Induced Oxidative Stress in SH-SY5Y Cells. <i>Neurochemical Research</i> , 2019, 44, 1878-1892.	1.6	8
64	Targeted metabolome analysis of the dog brain exposed to PCBs suggests inhibition of oxidative phosphorylation by hydroxylated PCBs. <i>Toxicology and Applied Pharmacology</i> , 2019, 377, 114620.	1.3	12
65	Facile synthesis of cellulose microfibers supported palladium nanospindles on graphene oxide for selective detection of dopamine in pharmaceutical and biological samples. <i>Materials Science and Engineering C</i> , 2019, 98, 256-265.	3.8	28
66	Beyond the Mind's Serum Trace Element Levels in Schizophrenic Patients: A Systematic Review. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9566.	1.8	14
67	Glutathione in Brain: Overview of Its Conformations, Functions, Biochemical Characteristics, Quantitation and Potential Therapeutic Role in Brain Disorders. <i>Neurochemical Research</i> , 2020, 45, 1461-1480.	1.6	75
68	Ursolic acid ameliorates stress and reactive oxygen species in <i>C. elegans</i> knockout mutants by the dopamine Dop1 and Dop3 receptors. <i>Phytomedicine</i> , 2021, 81, 153439.	2.3	11
69	A novel preparation of water-dispersed graphene and their application to electrochemical detection of dopamine. <i>Advanced Powder Technology</i> , 2021, 32, 619-629.	2.0	4
70	An In-vitro Study of Electrodes Impedance in Deep Brain Stimulation. <i>Journal of Physics: Conference Series</i> , 2021, 1829, 012019.	0.3	1
71	Neuroprotective Effects of <i>Glochidion zeylanicum</i> Leaf Extract against H ₂ O ₂ /Glutamate-Induced Toxicity in Cultured Neuronal Cells and Al ²⁺ -Induced Toxicity in <i>Caenorhabditis elegans</i> . <i>Biology</i> , 2021, 10, 800.	1.3	7
72	The Pathophysiology of Heme in the Brain. <i>Current Alzheimer Research</i> , 2016, 13, 174-184.	0.7	58

#	ARTICLE	IF	CITATIONS
73	Protection of Oxidant-Induced Neuronal Cells Injury by a Unique Cruciferous Nutraceutical. , 2011, , 563-577.		0
74	Interweaving of reactive oxygen species and major neurological and psychiatric disorders. Annales Pharmaceutiques Francaises, 2021, , .	0.4	10
75	Quinone formation as dopaminergic neuron-specific oxidative stress in the pathogenesis of sporadic Parkinson's disease and neurotoxin-induced parkinsonism. Acta Medica Okayama, 2004, 58, 221-33.	0.1	32
76	Phytic Acid-Promoted rapid fabrication of natural polypeptide coatings for multifunctional applications. Chemical Engineering Journal, 2022, 440, 135917.	6.6	14
77	Why are neurotransmitters neurotoxic? An evolutionary perspective. F1000Research, 2014, 3, 179.	0.8	4
78	Recent Development of Nano-Carbon Material in Pharmaceutical Application: A Review. Molecules, 2022, 27, 7578.	1.7	8