Walter Balduini

List of Publications by Year
in descending order

84 papers	12,425 citations	126907 33 h-index	74163 75 g-index
84 all docs	84 docs citations	84 times ranked	23785 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
3	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662 T	9.1	1,430
4	Protective role of autophagy in neonatal hypoxiaâ€“ischemia induced brain injury. Neurobiology of Disease, 2008, 32, 329-339.	4.4	413
5	Activation of autophagy and Akt/CREB signaling play an equivalent role in the neuroprotective effect of rapamycin in neonatal hypoxia-ischemia. Autophagy, 2010, 6, 366-377.	9.1	229
6	Treatment With Statins After Induction of Focal Ischemia in Rats Reduces the Extent of Brain Damage. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 322-327.	2.4	179
7	Melatonin protects from the longâ€term consequences of a neonatal hypoxicâ€ischemic brain injury in rats. Journal of Pineal Research, 2008, 44, 157-164.	7.4	142
8	Long-lasting behavioral alterations following a hypoxic/ischemic brain injury in neonatal rats. Brain Research, 2000, 859, 318-325.	2.2	128
9	Melatonin modulates neonatal brain inflammation through endoplasmic reticulum stress, autophagy, and mi<scp>R</scp>â€34a/silent information regulator 1 pathway. Journal of Pineal Research, 2016, 61, 370-380.	7.4	106
10	Melatonin reduces endoplasmic reticulum stress and preserves sirtuin 1 expression in neuronal cells of newborn rats after hypoxiaâ€“ischemia. Journal of Pineal Research, 2014, 57, 192-199.	7.4	95
11	Autophagy in hypoxia-ischemia induced brain injury. Journal of Maternal-Fetal and Neonatal Medicine, 2012, 25, 30-34.	1.5	89
12	Prophylactic but Not Delayed Administration of Simvastatin Protects Against Long-Lasting Cognitive and Morphological Consequences of Neonatal Hypoxic-Ischemic Brain Injury, Reduces Interleukin-1Î² and Tumor Necrosis Factor-Î± mRNA Induction, and Does Not Affect Endothelial Nitric Oxide Synthase Expression. Stroke, 2003, 34, 2007-2012.	2.0	83
13	Autophagy in hypoxia-ischemia induced brain injury: Evidences and speculations. Autophagy, 2009, 5, 221-223.	9.1	83
14	Simvastatin Protects Against Long-Lasting Behavioral and Morphological Consequences of Neonatal Hypoxic/Ischemic Brain Injury. Stroke, 2001, 32, 2185-2191.	2.0	80
15	Free iron, total F₂â€isoprostanes and total F₄â€neuroprostanes in a model of neonatal hypoxicâ€“ischemic encephalopathy: neuroprotective effect of melatonin. Journal of Pineal Research, 2009, 46, 148-154.	7.4	71
16	Increased autophagy reduces endoplasmic reticulum stress after neonatal hypoxiaâ€“ischemia: Role of protein synthesis and autophagic pathways. Experimental Neurology, 2014, 255, 103-112.	4.1	71
17	The use of melatonin in hypoxic-ischemic brain damage: an experimental study. Journal of Maternal-Fetal and Neonatal Medicine, 2012, 25, 119-124.	1.5	62
18	Extended role of necrotic cell death after hypoxiaâ€“ischemia-induced neurodegeneration in the neonatal rat. Neurobiology of Disease, 2007, 27, 354-361.	4.4	59

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19	Melatonin reshapes the mitochondrial network and promotes intercellular mitochondrial transfer via tunneling nanotubes after ischemicâ€like injury in hippocampal HT22 cells. Journal of Pineal Research, 2021, 71, e12747.	7.4	56
20	Rapid modulation of the silent information regulator 1 by melatonin after hypoxiaâ€ischemia in the neonatal rat brain. Journal of Pineal Research, 2017, 63, e12434.	7.4	52
21	Neuroprotective Effect of Simvastatin in Stroke: A Comparison Between Adult and Neonatal Rat Models of Cerebral Ischemia. NeuroToxicology, 2005, 26, 929-933.	3.0	51
22	Regional development of carbachol-, glutamate-, norepinephrine-, and serotonin-stimulated phosphoinositide metabolism in rat brain. Developmental Brain Research, 1991, 62, 115-120.	1.7	47
23	Melatonin Pharmacokinetics Following Oral Administration in Preterm Neonates. Molecules, 2017, 22, 2115.	3.8	47
24	Melatonin pharmacokinetics and dose extrapolation after enteral infusion in neonates subjected to hypothermia. Journal of Pineal Research, 2019, 66, e12565.	7.4	45
25	Caspase-3 and calpain activities after acute and repeated ethanol administration during the rat brain growth spurt. Journal of Neurochemistry, 2004, 89, 197-203.	3.9	43
26	Simvastatin acutely reduces ischemic brain damage in the immature rat via Akt and CREB activation. Experimental Neurology, 2009, 220, 82-89.	4.1	43
27	Simvastatin reduces caspase-3 activation and inflammatory markers induced by hypoxiaâ€“ischemia in the newborn rat. Neurobiology of Disease, 2006, 21, 119-126.	4.4	42
28	Inhibition of rapamycin-induced autophagy causes necrotic cell death associated with Bax/Bad mitochondrial translocation. Neuroscience, 2012, 203, 160-169.	2.3	42
29	Behavioral and biochemical effects of postnatal parathion exposure in the rat. Neurotoxicology and Teratology, 1988, 10, 261-266.	2.4	36
30	Developmental neurotoxicity of ethanol: in vitro inhibition of muscarinic receptor-stimulated phosphoinositide metabolism in brain from neonatal but not adult rats. Brain Research, 1990, 512, 248-252.	2.2	36
31	Microencephalic Rats as a Model for Cognitive Disorders. Clinical Neuropharmacology, 1986, 9, S8-18.	0.7	36
32	Developmental neurotoxicity of ethanol: further evidence for an involvement of muscarinic receptor-stimulated phosphoinositide hydrolysis. European Journal of Pharmacology, 1994, 266, 283-289.	2.6	34
33	New Pharmacological Approaches in Infants with Hypoxic-Ischemic Encephalopathy. Current Pharmaceutical Design, 2012, 18, 3086-3100.	1.9	34
34	Time-, concentration-, and age-dependent inhibition of muscarinic receptor-stimulated phosphoinositide metabolism by ethanol in the developing rat brain. Neurochemical Research, 1991, 16, 1235-1240.	3.3	33
35	Involvement of miRNAs in Placental Alterations Mediated by Oxidative Stress. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-7.	4.0	33
36	Adenosine and 2-Chloroadenosine Deaza-Analogues as Adenosine Receptor Agonists¹. Nucleosides & Nucleotides, 1985, 4, 625-639.	0.5	29

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37	Melatonin Acts in Synergy with Hypothermia to Reduce Oxygen-Glucose Deprivation-Induced Cell Death in Rat Hippocampus Organotypic Slice Cultures. Neonatology, 2018, 114, 364-371.	2.0	29
38	Loss of intrinsic striatal neurons after methylazoxymethanol acetate treatment in pregnant rats. Developmental Brain Research, 1984, 15, 133-136.	1.7	27
39	Triflusal reduces cerebral ischemia induced inflammation in a combined mouse model of Alzheimer's disease and stroke. Brain Research, 2010, 1366, 246-256.	2.2	26
40	Simultaneous determination of new-generation antidepressants in plasma by gas chromatographyâ€"mass spectrometry. Forensic Toxicology, 2013, 31, 124-132.	2.4	26
41	Prevention of ischemic brain injury by treatment with the membrane penetrating apoptosis inhibitor, TAT-BH4. Cell Cycle, 2009, 8, 1271-1278.	2.6	25
42	Prenatal Exposure to Ethanol Causes Differential Effects in Nerve Growth Factor and its Receptor in the Basal Forebrain of Preweaning and Adult Rats. Journal of Neural Transplantation & Plasticity, 1997, 6, 63-71.	0.7	24
43	New Therapeutic Strategies in Perinatal Stroke. CNS and Neurological Disorders, 2004, 3, 315-323.	4.3	23
44	Synthesis and dopamine receptor affinities of 2-(4-fluoro-3-hydroxyphenyl)ethylamine and N-substituted derivatives. Journal of Medicinal Chemistry, 1990, 33, 2408-2412.	6.4	21
45	Simvastatin preconditioning confers neuroprotection against hypoxia-ischemia induced brain damage in neonatal rats via autophagy and silent information regulator 1 (SIRT1) activation. Experimental Neurology, 2020, 324, 113117.	4.1	21
46	Early postnatal chlordiazepoxide administration: Permanent behavioural effects in the mature rat and possible involvement of the GABA-benzodiazepine system. Psychopharmacology, 1983, 81, 261-266.	3.1	19
47	New pharmacological approaches in infants with hypoxic-ischemic encephalopathy. Current Pharmaceutical Design, 2012, 18, 3086-100.	1.9	19
48	Pretreatment with the monoacylglycerol lipase inhibitor URB602 protects from the long-term consequences of neonatal hypoxicâ€"ischemic brain injury in rats. Pediatric Research, 2012, 72, 400-406.	2.3	18
49	Synthesis and pharmacological characterization of 2-(4-chloro-3-hydroxyphenyl)ethylamine and N,N-dialkyl derivatives as dopamine receptor ligands. Journal of Medicinal Chemistry, 1992, 35, 4408-4414.	6.4	17
50	Characterization of ouabain-induced phosphoinositide hydrolysis in brain slices of the neonatal rat. Neurochemical Research, 1990, 15, 1023-1029.	3.3	16
51	Potassium ions potentiate the muscarinic receptor-stimulated phosphoinositide metabolism in cerebral cortex slices: A comparison of neonatal and adult rats. Neurochemical Research, 1990, 15, 33-39.	3.3	16
52	Mitochondrial ascorbic acid prevents mitochondrial O2.âˆ' formation, an event critical for <scp>U</scp>937 cell apoptosis induced by arsenite through both autophagicâ€dependent and independent mechanisms. BioFactors, 2016, 42, 190-200.	5.4	15
53	Selective alteration in B-50/GAP-43 phosphorylation in brain areas of animals characterized by cognitive impairment. Brain Research, 1993, 607, 329-332.	2.2	14
54	Glucose-6-phosphate dehydrogenase activity is higher in the olfactory bulb than in other brain areas. Brain Research, 1997, 744, 138-142.	2.2	14

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55	The study of the mechanism of arsenite toxicity in respiration-deficient cells reveals that NADPH oxidase-derived superoxide promotes the same downstream events mediated by mitochondrial superoxide in respiration-proficient cells. Toxicology and Applied Pharmacology, 2016, 307, 35-44.	2.8	13
56	Tunneling nanotubes and mesenchymal stem cells: New insights into the role of melatonin in neuronal recovery. Journal of Pineal Research, 2022, 73, .	7.4	13
57	Assessing Autophagy in Archived Tissue or How to Capture Autophagic Flux from a Tissue Snapshot. Biology, 2020, 9, 59.	2.8	12
58	1-Aminocylopropane-1-carboxylic acid derivatives as ligands at the glycine-binding site of the N-methyl-D-aspartate receptor. Il Farmaco, 1998, 53, 181-188.	0.9	11
59	Characterization of []thiocolchicoside binding sites in rat spinal cord and cerebral cortex. European Journal of Pharmacology, 1999, 376, 149-157.	3.5	11
60	The Synthetic Cannabinoid URB447 Reduces Brain Injury and the Associated White Matter Demyelination after Hypoxia-Ischemia in Neonatal Rats. ACS Chemical Neuroscience, 2020, 11, 1291-1299.	3.5	11
61	Nocturnal hyperactivity induced by prenatal methylazoxymethanol administration as measured in a computerized residential maze. Neurotoxicology and Teratology, 1989, 11, 339-343.	2.4	10
62	Autoradiographic localization of [3H]thiocolchicoside binding sites in the rat brain and spinal cord. Neuropharmacology, 2001, 40, 1044-1049.	4.1	10
63	3-Demethoxy-3-glycosylaminothiocolchicines:Â Synthesis of a New Class of Putative Muscle Relaxant Compounds. Journal of Medicinal Chemistry, 2006, 49, 5571-5577.	6.4	10
64	Long-lasting tolerance to stimulatory effects of perinatal caffeine treatment. Psychopharmacology, 1984, 84, 285-286.	3.1	9
65	Expression of hexokinase mRNA in human hippocampus. Molecular Brain Research, 1998, 53, 297-300.	2.3	9
66	Preclinical randomized controlled multicenter trials (pRCT) in stroke research: a new and valid approach to improve translation?. Annals of Translational Medicine, 2016, 4, 549-549.	1.7	9
67	Cholinergic hyperinnervation in the cerebral cortex of microencephalic rats does not result in muscarinic receptor down-regulation or in alteration of receptor-stimulated phosphoinositide metabolism. Neurochemical Research, 1992, 17, 761-766.	3.3	8
68	Effects of postnatal or adult chronic acetylcholinesterase inhibition on muscarinic receptors, phosphoinositide turnover and m1 mRNA expression. European Journal of Pharmacology - Environmental Toxicology and Pharmacology Section, 1993, 248, 281-288.	0.8	8
69	Automatedâ€"Mechanical Procedure Compared to Gentle Enzymatic Tissue Dissociation in Cell Function Studies. Biomolecules, 2022, 12, 701.	4.0	7
70	Novel 3-O-Glycosyl-3-demethylthiocolchicines as Ligands for Glycine and Î³-Aminobutyric Acid Receptors. Journal of Medicinal Chemistry, 2007, 50, 2245-2248.	6.4	6
71	Humanâ€"rat integrated microRNAs profiling identified a new neonatal cerebral hypoxicâ€"ischemic pathway melatoninâ€sensitive. Journal of Pineal Research, 2022, 73, .	7.4	6
72	CHRONIC CAFFEINE TREATMENT AND ADENOSINE RECEPTORS. Clinical Neuropharmacology, 1984, 7, S231.	0.7	3

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73	Inhibition of nucleic acids and protein synthesis by deazaadenosine derivatives: A study on structure-activity relationships. Pharmacological Research Communications, 1985, 17, 1087-1094.	0.2	2
74	Interaction of ethanol and anoxia with muscarinic receptor-stimulated phosphoinositide metabolism during brain development. Life Sciences, 1995, 57, 1667-1673.	4.3	2
75	1,3 Dideazaadenosine is a mitogen for cultured mammalian cells. Pharmacological Research Communications, 1986, 18, 333-342.	0.2	1
76	Experimental Models of Hypoxicâ€Ischemic Encephalopathy: Hypoxiaâ€Ischemia in the Immature Rat. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2008, 35, Unit11.15.	1.1	1
77	The Muscarinic Receptor-Stimulated Phosphoinositide Metabolism as a Potential Target for the Neurotoxicity of Ethanol During Brain Development. , 1993, , 255-263.		1
78	Morphological, biochemical and behavioral effects of gestational methylazoxyhethanol in rats. International Journal of Developmental Neuroscience, 1985, 3, 484-484.	1.6	0
79	Inhibitors of Na/K-ATPase stimulate phosphoinositide metabolism in rat brain. Pharmacological Research Communications, 1988, 20, 15.	0.2	0
80	Molecular mechanisms involved in experimental microencephaly. Pharmacological Research, 1990, 22, 26.	7.1	0
81	Alcohol and brain development: The interaction of ethanol with the metabolism of inositol phospholipids. Pharmacological Research, 1992, 26, 21.	7.1	0
82	Effect of prenatal treatment with methylazoxymethanol on carbachol-, norepinephrine- and glutamate-stimulated phosphoinositide metabolism in the neonatal, young, and adult offspring. Neurochemical Research, 1995, 20, 1211-1216.	3.3	0
83	Modulation of muscarinic receptorâ€stimulated phosphoinositide breakdown by sulfhydryl group modification is a general response in different rat brain regions and depends on the stage of brain development. IUBMB Life, 1996, 40, 427-432.	3.4	0
84	Autophagy researchers. Autophagy, 2015, 11, 435-438.	9.1	0