Ronald B Tjalkens

List of Publications by Year
in descending order

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68 papers	3,103 citations	147726 31 h-index	168321 53 g-index
73 all docs	73 docs citations	73 times ranked	4480 citing authors

#	Article	IF	Citations
1	Manganese and its Role in Parkinsonâ€™s Disease: From Transport to Neuropathology. NeuroMolecular Medicine, 2009, 11, 252-266.	1.8	258
2	Microglia amplify inflammatory activation of astrocytes in manganese neurotoxicity. Journal of Neuroinflammation, 2017, 14, 99.	3.1	231
3	Toxicological and pathophysiological roles of reactive oxygen and nitrogen species. Toxicology, 2010, 276, 85-94.	2.0	172
4	Nuclear receptor 4A (NR4A) family â€“ orphans no more. Journal of Steroid Biochemistry and Molecular Biology, 2016, 157, 48-60.	1.2	149
5	Manganese-Induced Neurotoxicity: The Role of Astroglial-Derived Nitric Oxide in Striatal Interneuron Degeneration. Toxicological Sciences, 2006, 91, 521-531.	1.4	121
6	The role of docosahexaenoic acid in mediating mitochondrial membrane lipid oxidation and apoptosis in colonocytes. Carcinogenesis, 2005, 26, 1914-1921.	1.3	97
7	SARS-CoV-2 infection, neuropathogenesis and transmission among deer mice: Implications for spillback to New World rodents. PLoS Pathogens, 2021, 17, e1009585.	2.1	96
8	Cellular selectivity of AAV serotypes for gene delivery in neurons and astrocytes by neonatal intracerebroventricular injection. PLoS ONE, 2017, 12, e0188830.	1.1	96
9	Inflammatory Activation of Microglia and Astrocytes in Manganese Neurotoxicity. Advances in Neurobiology, 2017, 18, 159-181.	1.3	92
10	Diindolylmethane Analogs Bind NR4A1 and Are NR4A1 Antagonists in Colon Cancer Cells. Molecular Endocrinology, 2014, 28, 1729-1739.	3.7	79
11	Age-Dependent Susceptibility to Manganese-Induced Neurological Dysfunction. Toxicological Sciences, 2009, 112, 394-404.	1.4	78
12	Î±,Î²-Unsaturated Aldehydes Increase GlutathioneS-Transferase mRNA and Protein: Correlation with Activation of the Antioxidant Response Element. Archives of Biochemistry and Biophysics, 1998, 359, 42-50.	1.4	70
13	Formation and Export of the Glutathione Conjugate of 4-Hydroxy-2,3-E-nonenal (4-HNE) in Hepatoma Cells. Archives of Biochemistry and Biophysics, 1999, 361, 113-119.	1.4	67
14	The Nurr1 Activator 1,1-Bis(3â€²-Indolyl)-1-(p-Chlorophenyl)Methane Blocks Inflammatory Gene Expression in BV-2 Microglial Cells by Inhibiting Nuclear Factor Î°B. Molecular Pharmacology, 2015, 87, 1021-1034.	1.0	62
15	Manganese potentiates lipopolysaccharide-induced expression of NOS2 in C6 glioma cells through mitochondrial-dependent activation of nuclear factor kappaB. Molecular Brain Research, 2004, 122, 167-179.	2.5	60
16	Infection with mosquito-borne alphavirus induces selective loss of dopaminergic neurons, neuroinflammation and widespread protein aggregation. Npj Parkinson's Disease, 2019, 5, 20.	2.5	58
17	Manganese suppresses ATP-dependent intercellular calcium waves in astrocyte networks through alteration of mitochondrial and endoplasmic reticulum calcium dynamics. Brain Research, 2006, 1113, 210-219.	1.1	55
18	Manganese potentiates nuclear factorâ€Î°Bâ€dependent expression of nitric oxide synthase 2 in astrocytes by activating soluble guanylate cyclase and extracellular responsive kinase signaling pathways. Journal of Neuroscience Research, 2008, 86, 2028-2038.	1.3	54

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19	Developmental Exposure to Manganese Increases Adult Susceptibility to Inflammatory Activation of Glia and Neuronal Protein Nitration. Toxicological Sciences, 2009, 112, 405-415.	1.4	52
20	Association of GlutathioneS-Transferase Isozyme-Specific Induction and Lipid Peroxidation in Two Inbred Strains of Mice Subjected to Chronic Dietary Iron Overload. Toxicology and Applied Pharmacology, 1998, 151, 174-181.	1.3	49
21	Neuroprotective Efficacy and Pharmacokinetic Behavior of Novel Anti-InflammatoryPara-Phenyl Substituted Diindolylmethanes in a Mouse Model of Parkinsonâ€™s Disease. Journal of Pharmacology and Experimental Therapeutics, 2013, 345, 125-138.	1.3	48
22	Manganese-Induced NF-ÎºB Activation and Nitrosative Stress Is Decreased by Estrogen in Juvenile Mice. Toxicological Sciences, 2011, 122, 121-133.	1.4	43
23	Novel Para-Phenyl Substituted Diindolylmethanes Protect Against MPTP Neurotoxicity and Suppress Glial Activation in a Mouse Model of Parkinsonâ€™s Disease. Toxicological Sciences, 2015, 143, 360-373.	1.4	43
24	Role of oxidative stress and the mitochondrial permeability transition in methylmercury cytotoxicity. NeuroToxicology, 2011, 32, 526-534.	1.4	42
25	Compensatory Expression of Nur77 and Nurr1 Regulates NF-ÎºBâ€“Dependent Inflammatory Signaling in Astrocytes. Molecular Pharmacology, 2018, 94, 1174-1186.	1.0	40
26	NF-ÎºB-dependent production of nitric oxide by astrocytes mediates apoptosis in differentiated PC12 neurons following exposure to manganese and cytokines. Molecular Brain Research, 2005, 141, 39-47.	2.5	38
27	Nuclear factor kappa-B mediates selective induction of neuronal nitric oxide synthase in astrocytes during low-level inflammatory stimulation with MPTP. Brain Research, 2008, 1217, 1-9.	1.1	38
28	Glial-neuronal signaling mechanisms underlying the neuroinflammatory effects of manganese. Journal of Neuroinflammation, 2018, 15, 324.	3.1	37
29	A novel synthetic activator of Nurr1 induces dopaminergic gene expression and protects against 6-hydroxydopamine neurotoxicity in vitro. Neuroscience Letters, 2015, 607, 83-89.	1.0	36
30	Entry Sites of Venezuelan and Western Equine Encephalitis Viruses in the Mouse Central Nervous System following Peripheral Infection. Journal of Virology, 2016, 90, 5785-5796.	1.5	36
31	Gene Deletion of nos2 Protects Against Manganese-Induced Neurological Dysfunction in Juvenile Mice. Toxicological Sciences, 2012, 126, 183-192.	1.4	34
32	The Nurr1 Ligand,1,1-bis(3â€²-Indolyl)-1-(p-Chlorophenyl)Methane, Modulates Glial Reactivity and Is Neuroprotective in MPTP-Induced Parkinsonism. Journal of Pharmacology and Experimental Therapeutics, 2018, 365, 636-651.	1.3	34
33	Suppression of 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine-Induced Nitric-Oxide Synthase 2 Expression in Astrocytes by a Novel Diindolylmethane Analog Protects Striatal Neurons against Apoptosis. Molecular Pharmacology, 2009, 75, 35-43.	1.0	32
34	A Potent SARS-CoV-2 Neutralizing Human Monoclonal Antibody That Reduces Viral Burden and Disease Severity in Syrian Hamsters. Frontiers in Immunology, 2020, 11, 614256.	2.2	32
35	Manganese inhibits ATP-induced calcium entry through the transient receptor potential channel TRPC3 in astrocytes. NeuroToxicology, 2013, 34, 160-166.	1.4	31
36	Experimental Zika virus infection of Jamaican fruit bats (Artibeus jamaicensis) and possible entry of virus into brain via activated microglial cells. PLoS Neglected Tropical Diseases, 2019, 13, e0007071.	1.3	29

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37	NF-Î²B Signaling in Astrocytes Modulates Brain Inflammation and Neuronal Injury Following Sequential Exposure to Manganese and MPTP During Development and Aging. Toxicological Sciences, 2020, 177, 506-520.	1.4	28
38	Modulation of intercellular calcium signaling by melatonin in avian and mammalian astrocytes is brain region-specific. Journal of Comparative Neurology, 2005, 493, 370-380.	0.9	27
39	Analysis of targeted mutation in DJ-1 on cellular function in primary astrocytes. Toxicology Letters, 2009, 184, 186-191.	0.4	26
40	Angiotensin II regulates brain (pro)renin receptor expression through activation of cAMP response element-binding protein. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R138-R147.	0.9	24
41	Genetic suppression of IKK2/NF-Î²B in astrocytes inhibits neuroinflammation and reduces neuronal loss in the MPTP-Probenecid model of Parkinson's disease. Neurobiology of Disease, 2019, 127, 193-209.	2.1	24
42	Repeated exposure to low doses of kainic acid activates nuclear factor kappa B (NF-Î²B) prior to seizure in transgenic NF-Î²B/EGFP reporter mice. NeuroToxicology, 2014, 44, 39-47.	1.4	23
43	The peroxisome proliferatorâ€activated receptorâ€Î³ agonist 1,1â€bis(3â€²â€indolyl)â€1â€(pâ€trifluoromethylphenyl)methane suppresses manganeseâ€induced production of nitric oxide in astrocytes and inhibits apoptosis in cocultured PC12 cells. Journal of Neuroscience Research, 2008, 86, 618-629.	1.3	21
44	1,3-Dinitrobenzeneâ€“Induced Metabolic Impairment through Selective Inactivation of the Pyruvate Dehydrogenase Complex. Toxicological Sciences, 2011, 122, 502-511.	1.4	21
45	Domoic acid-induced seizures in California sea lions (Zalophus californianus) are associated with neuroinflammatory brain injury. Aquatic Toxicology, 2014, 156, 259-268.	1.9	21
46	Differential cellular regulation of the mitochondrial permeability transition in an in vitro model of 1,3-dinitrobenzene-induced encephalopathy. Brain Research, 2000, 874, 165-177.	1.1	20
47	Prenatal expression of N-acetyltransferases in C57Bl/6 mice. Chemico-Biological Interactions, 2003, 145, 77-87.	1.7	19
48	Nuclear receptor 4A2 (NR4A2) is a druggable target for glioblastomas. Journal of Neuro-Oncology, 2020, 146, 25-39.	1.4	18
49	Rotenone induces regionally distinct Î±-synuclein protein aggregation and activation of glia prior to loss of dopaminergic neurons in C57Bl/6 mice. Neurobiology of Disease, 2022, 167, 105685.	2.1	17
50	Low-dose 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine causes inflammatory activation of astrocytes in nuclear factor-Î²B reporter mice prior to loss of dopaminergic neurons. Journal of Neuroscience Research, 2011, 89, 406-417.	1.3	16
51	Immune Modulation as an Effective Adjunct Post-exposure Therapeutic for B. pseudomallei. PLoS Neglected Tropical Diseases, 2016, 10, e0005065.	1.3	16
52	CI-1010 induced opening of the mitochondrial permeability transition pore precedes oxidative stress and apoptosis in SY5Y neuroblastoma cells. Brain Research, 2003, 963, 43-56.	1.1	14
53	The effects of genetic variation in N-acetyltransferases on 4-aminobiphenyl genotoxicity in mouse liver. Chemico-Biological Interactions, 2003, 146, 51-60.	1.7	13
54	Detection of Nitric Oxide Formation in Primary Neural Cells and Tissues. Methods in Molecular Biology, 2011, 758, 267-277.	0.4	13

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55	Structureâ€dependent activation of gene expression by bisâ€indole and quinolineâ€derived activators of nuclear receptor 4A2. Chemical Biology and Drug Design, 2019, 94, 1711-1720.	1.5	13
56	Astrocyte inflammatory signaling mediates Î±-synuclein aggregation and dopaminergic neuronal loss following viral encephalitis. Experimental Neurology, 2021, 346, 113845.	2.0	12
57	Î±,Î²-Unsaturated Aldehydes Mediate Inducible Expression of Glutathione S-Transferase in Hepatoma Cells through Activation of the Antioxidant Response Element (ARE). Advances in Experimental Medicine and Biology, 1999, 463, 123-131.	0.8	12
58	Dopaminergic Neurotoxicants Cause Biphasic Inhibition of Purinergic Calcium Signaling in Astrocytes. PLoS ONE, 2014, 9, e110996.	1.1	11
59	Regional Variation in the Activation Threshold for 1,3-DNB-Induced Mitochondrial Permeability Transition in Brainstem and Cortical Astrocytes. NeuroToxicology, 2003, 24, 391-401.	1.4	10
60	The atrazine metabolite diaminochlorotriazine suppresses LH release from murine LÎ²T2 cells by suppressing GnRH-induced intracellular calcium transients. Toxicology Research, 2013, 2, 180.	0.9	9
61	A novel diindolylmethane analog, 1,1-bis(3â€™-indolyl)-1-(p-chlorophenyl) methane, inhibits the tumor necrosis factor-induced inflammatory response in primary murine synovial fibroblasts through a Nurr1-dependent mechanism. Molecular Immunology, 2018, 101, 46-54.	1.0	9
62	Can We Panelize Seizure?. Toxicological Sciences, 2021, 179, 3-13.	1.4	9
63	A Novel Glucocorticoid and Androgen Receptor Modulator Reduces Viral Entry and Innate Immune Inflammatory Responses in the Syrian Hamster Model of SARS-CoV-2 Infection. Frontiers in Immunology, 2022, 13, 811430.	2.2	8
64	Manganese exposure in juvenile C57BL/6 mice increases glial inflammatory responses in the substantia nigra following infection with H1N1 influenza virus. PLoS ONE, 2021, 16, e0245171.	1.1	6
65	Spontaneous Development of Cutaneous Squamous Cell Carcinoma in Mice with Cell-specific Deletion of Inhibitor of ÎºB Kinase 2. Comparative Medicine, 2017, 67, 407-415.	0.4	6
66	Removal of Trace Elements by Cupric Oxide Nanoparticles from Uranium In Situ Recovery Bleed Water and Its Effect on Cell Viability. Journal of Visualized Experiments, 2015, , e52715.	0.2	1
67	A Low-Cost, Autonomous Gait Detection and Estimation System for Analyzing Gait Impairments in Mice. Journal of Healthcare Engineering, 2021, 2021, 1-14.	1.1	1
68	Manganese and Neuroinflammation. Issues in Toxicology, 2014, , 297-321.	0.2	0