# Ronald B Tjalkens

## List of Publications by Year in Descending Order



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| 71 papers | 2,380 citations | 29 h-index | 47 g-index |
| 73 ext. papers | 2,765 ext. citations | 4.4 avg, IF | 5.01 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 71 | 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 | 8.4 | 1 |
| 70 | Rotenone induces regionally distinct Ƀsynuclein protein aggregation and activation of glia prior to loss of dopaminergic neurons in C57Bl/6 mice.. *Neurobiology of Disease*, **2022**, 105685 | 7.5 | 1 |
| 69 | A Low-Cost, Autonomous Gait Detection and Estimation System for Analyzing Gait Impairments in Mice. *Journal of Healthcare Engineering*, **2021**, 2021, 9937904 | 3.7 | |
| 68 | Can We Panelize Seizure?. *Toxicological Sciences*, **2021**, 179, 3-13 | 4.4 | 4 |
| 67 | SARS-CoV-2 infection, neuropathogenesis and transmission among deer mice: Implications for spillback to New World rodents. *PLoS Pathogens*, **2021**, 17, e1009585 | 7.6 | 46 |
| 66 | 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 | 3.7 | 3 |
| 65 | Astrocyte inflammatory signaling mediates Ƀsynuclein aggregation and dopaminergic neuronal loss following viral encephalitis. *Experimental Neurology*, **2021**, 346, 113845 | 5.7 | 6 |
| 64 | 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 | 8.4 | 25 |
| 63 | SARS-CoV-2 infection, neuropathogenesis and transmission among deer mice: Implications for reverse zoonosis to New World rodents **2020**, | | 25 |
| 62 | A potent SARS-CoV-2 neutralizing human monoclonal antibody that reduces viral burden and disease severity in Syrian hamsters **2020**, | | 2 |
| 61 | Nuclear receptor 4A2 (NR4A2) is a druggable target for glioblastomas. *Journal of Neuro-Oncology*, **2020**, 146, 25-39 | 4.8 | 9 |
| 60 | NF-Ƀ 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 | 4.4 | 13 |
| 59 | Infection with mosquito-borne alphavirus induces selective loss of dopaminergic neurons, neuroinflammation and widespread protein aggregation. *Npj Parkinsonɾs Disease*, **2019**, 5, 20 | 9.7 | 34 |
| 58 | 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 | 4.8 | 10 |
| 57 | Structure-dependent activation of gene expression by bis-indole and quinoline-derived activators of nuclear receptor 4A2. *Chemical Biology and Drug Design*, **2019**, 94, 1711-1720 | 2.9 | 7 |
| 56 | Genetic suppression of IKK2/NF-Ƀ in astrocytes inhibits neuroinflammation and reduces neuronal loss in the MPTP-Probenecid model of ParkinsonƮs disease. *Neurobiology of Disease*, **2019**, 127, 193-209 | 7.5 | 14 |
| 55 | The Nurr1 Ligand,1,1-bis(3ƬIndolyl)-1-(-Chlorophenyl)Methane, Modulates Glial Reactivity and Is Neuroprotective in MPTP-Induced Parkinsonism. *Journal of Pharmacology and Experimental Therapeutics*, **2018**, 365, 636-651 | 4.7 | 24 |

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| 54 | Compensatory Expression of Nur77 and Nurr1 Regulates NF-B-Dependent Inflammatory Signaling in Astrocytes. *Molecular Pharmacology*, **2018**, 94, 1174-1186 | 4.3 | 31 |
| 53 | A novel diindolylmethane analog, 1,1-bis(3′-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 | 4.3 | 3 |
| 52 | Glial-neuronal signaling mechanisms underlying the neuroinflammatory effects of manganese. *Journal of Neuroinflammation*, **2018**, 15, 324 | 10.1 | 22 |
| 51 | Microglia amplify inflammatory activation of astrocytes in manganese neurotoxicity. *Journal of Neuroinflammation*, **2017**, 14, 99 | 10.1 | 143 |
| 50 | Inflammatory Activation of Microglia and Astrocytes in Manganese Neurotoxicity. *Advances in Neurobiology*, **2017**, 18, 159-181 | 2.1 | 56 |
| 49 | Cellular selectivity of AAV serotypes for gene delivery in neurons and astrocytes by neonatal intracerebroventricular injection. *PLoS ONE*, **2017**, 12, e0188830 | 3.7 | 68 |
| 48 | Spontaneous Development of Cutaneous Squamous Cell Carcinoma in Mice with Cell-specific Deletion of Inhibitor of B Kinase 2. *Comparative Medicine*, **2017**, 67, 407-415 | 1.6 | 4 |
| 47 | Nuclear receptor 4A (NR4A) family - orphans no more. *Journal of Steroid Biochemistry and Molecular Biology*, **2016**, 157, 48-60 | 5.1 | 97 |
| 46 | Entry Sites of Venezuelan and Western Equine Encephalitis Viruses in the Mouse Central Nervous System following Peripheral Infection. *Journal of Virology*, **2016**, 90, 5785-96 | 6.6 | 29 |
| 45 | Immune Modulation as an Effective Adjunct Post-exposure Therapeutic for B. pseudomallei. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0005065 | 4.8 | 12 |
| 44 | A novel synthetic activator of Nurr1 induces dopaminergic gene expression and protects against 6-hydroxydopamine neurotoxicity in vitro. *Neuroscience Letters*, **2015**, 607, 83-89 | 3.3 | 30 |
| 43 | 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, R138-47 | 3.2 | 21 |
| 42 | 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 | 1.6 | |
| 41 | The Nurr1 Activator 1,1-Bis(3′-Indolyl)-1-(p-Chlorophenyl)Methane Blocks Inflammatory Gene Expression in BV-2 Microglial Cells by Inhibiting Nuclear Factor B. *Molecular Pharmacology*, **2015**, 87, 1021-34 | 4.3 | 49 |
| 40 | Novel para-phenyl substituted diindolylmethanes protect against MPTP neurotoxicity and suppress glial activation in a mouse model of Parkinson's disease. *Toxicological Sciences*, **2015**, 143, 360-73 | 4.4 | 36 |
| 39 | Domoic acid-induced seizures in California sea lions (Zalophus californianus) are associated with neuroinflammatory brain injury. *Aquatic Toxicology*, **2014**, 156, 259-68 | 5.1 | 19 |
| 38 | Chapter 12:Manganese and Neuroinflammation. *Issues in Toxicology*, **2014**, 297-321 | 0.3 | |
| 37 | Diindolylmethane analogs bind NR4A1 and are NR4A1 antagonists in colon cancer cells. *Molecular Endocrinology*, **2014**, 28, 1729-39 | | 62 |

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| 36 | Repeated exposure to low doses of kainic acid activates nuclear factor kappa B (NF-ΒB) prior to seizure in transgenic NF-ΒB/EGFP reporter mice. *NeuroToxicology*, **2014**, 44, 39-47 | 4.4 | 20 |
| 35 | Dopaminergic neurotoxicants cause biphasic inhibition of purinergic calcium signaling in astrocytes. *PLoS ONE*, **2014**, 9, e110996 | 3.7 | 9 |
| 34 | Manganese inhibits ATP-induced calcium entry through the transient receptor potential channel TRPC3 in astrocytes. *NeuroToxicology*, **2013**, 34, 160-6 | 4.4 | 24 |
| 33 | The atrazine metabolite diaminochlorotriazine suppresses LH release from murine LTT2 cells by suppressing GnRH-induced intracellular calcium transients. *Toxicology Research*, **2013**, 2, 180-186 | 2.6 | 9 |
| 32 | Neuroprotective efficacy and pharmacokinetic behavior of novel anti-inflammatory para-phenyl substituted diindolylmethanes in a mouse model of Parkinson's disease. *Journal of Pharmacology and Experimental Therapeutics*, **2013**, 345, 125-38 | 4.7 | 40 |
| 31 | Gene deletion of nos2 protects against manganese-induced neurological dysfunction in juvenile mice. *Toxicological Sciences*, **2012**, 126, 183-92 | 4.4 | 29 |
| 30 | Detection of nitric oxide formation in primary neural cells and tissues. *Methods in Molecular Biology*, **2011**, 758, 267-77 | 1.4 | 9 |
| 29 | Role of oxidative stress and the mitochondrial permeability transition in methylmercury cytotoxicity. *NeuroToxicology*, **2011**, 32, 526-34 | 4.4 | 39 |
| 28 | Low-dose 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine causes inflammatory activation of astrocytes in nuclear factor-ΒB reporter mice prior to loss of dopaminergic neurons. *Journal of Neuroscience Research*, **2011**, 89, 406-17 | 4.4 | 14 |
| 27 | Manganese-induced NF-kappaB activation and nitrosative stress is decreased by estrogen in juvenile mice. *Toxicological Sciences*, **2011**, 122, 121-33 | 4.4 | 35 |
| 26 | 1,3-Dinitrobenzene-induced metabolic impairment through selective inactivation of the pyruvate dehydrogenase complex. *Toxicological Sciences*, **2011**, 122, 502-11 | 4.4 | 18 |
| 25 | Toxicological and pathophysiological roles of reactive oxygen and nitrogen species. *Toxicology*, **2010**, 276, 85-94 | 4.4 | 138 |
| 24 | Developmental exposure to manganese increases adult susceptibility to inflammatory activation of glia and neuronal protein nitration. *Toxicological Sciences*, **2009**, 112, 405-15 | 4.4 | 47 |
| 23 | Age-dependent susceptibility to manganese-induced neurological dysfunction. *Toxicological Sciences*, **2009**, 112, 394-404 | 4.4 | 65 |
| 22 | 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 | 4.3 | 30 |
| 21 | Manganese and its role in Parkinson's disease: from transport to neuropathology. *NeuroMolecular Medicine*, **2009**, 11, 252-66 | 4.6 | 213 |
| 20 | Analysis of targeted mutation in DJ-1 on cellular function in primary astrocytes. *Toxicology Letters*, **2009**, 184, 186-91 | 4.4 | 25 |
| 19 | 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 | 3.7 | 29 |

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| 18 | The peroxisome proliferator-activated receptor-gamma agonist 1,1-bis(3'-indolyl)-1-(p-trifluoromethylphenyl)methane suppresses manganese-induced production of nitric oxide in astrocytes and inhibits apoptosis in cocultured PC12 cells. *Journal of Neuroscience Research*, **2008**, 86, 618-29 | 4.4 | 20 |
| 17 | Manganese potentiates nuclear factor-kappaB-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, 2028-38 | 4.4 | 43 |
| 16 | Manganese suppresses ATP-dependent intercellular calcium waves in astrocyte networks through alteration of mitochondrial and endoplasmic reticulum calcium dynamics. *Brain Research*, **2006**, 1113, 210-9 | 3.7 | 48 |
| 15 | Manganese-induced neurotoxicity: the role of astroglial-derived nitric oxide in striatal interneuron degeneration. *Toxicological Sciences*, **2006**, 91, 521-31 | 4.4 | 114 |
| 14 | NF-kappaB-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 | | 35 |
| 13 | Modulation of intercellular calcium signaling by melatonin in avian and mammalian astrocytes is brain region-specific. *Journal of Comparative Neurology*, **2005**, 493, 370-80 | 3.4 | 22 |
| 12 | The role of docosahexaenoic acid in mediating mitochondrial membrane lipid oxidation and apoptosis in colonocytes. *Carcinogenesis*, **2005**, 26, 1914-21 | 4.6 | 87 |
| 11 | Manganese potentiates lipopolysaccharide-induced expression of NOS2 in C6 glioma cells through mitochondrial-dependent activation of nuclear factor kappaB. *Molecular Brain Research*, **2004**, 122, 167-79 | | 54 |
| 10 | 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 | 3.7 | 13 |
| 9 | Prenatal expression of N-acetyltransferases in C57Bl/6 mice. *Chemico-Biological Interactions*, **2003**, 145, 77-87 | 5 | 18 |
| 8 | The effects of genetic variation in N-acetyltransferases on 4-aminobiphenyl genotoxicity in mouse liver. *Chemico-Biological Interactions*, **2003**, 146, 51-60 | 5 | 10 |
| 7 | Regional variation in the activation threshold for 1,3-DNB-induced mitochondrial permeability transition in brainstem and cortical astrocytes. *NeuroToxicology*, **2003**, 24, 391-401 | 4.4 | 9 |
| 6 | Differential cellular regulation of the mitochondrial permeability transition in an in vitro model of 1,3-dinitrobenzene-induced encephalopathy. *Brain Research*, **2000**, 874, 165-77 | 3.7 | 19 |
| 5 | 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, 113-9 | 4.1 | 65 |
| 4 | Alpha, beta-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, 123-31 | 3.6 | 11 |
| 3 | Association of glutathione S-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, 174-81 | 4.6 | 41 |
| 2 | Alpha,beta-unsaturated aldehydes increase glutathione S-transferase mRNA and protein: correlation with activation of the antioxidant response element. *Archives of Biochemistry and Biophysics*, **1998**, 359, 42-50 | 4.1 | 67 |
| 1 | A novel glucocorticoid and androgen receptor modulator reduces viral entry and innate immune inflammatory responses in the Syrian Hamster model of SARS-CoV-2 | | 1 |