

# Nigel A Calcutt

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

2,567  
citations

218677

26  
h-index

206112

48  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2979  
citing authors

#	ARTICLE	IF	CITATIONS
1	Therapies for hyperglycaemia-induced diabetic complications: from animal models to clinical trials. <i>Nature Reviews Drug Discovery</i> , 2009, 8, 417-430.	46.4	285
2	Schwann cell interactions with axons and microvessels in diabetic neuropathy. <i>Nature Reviews Neurology</i> , 2017, 13, 135-147.	10.1	202
3	Potential mechanisms of neuropathic pain in diabetes. <i>International Review of Neurobiology</i> , 2002, 50, 205-228.	2.0	136
4	Spinal pharmacology of tactile allodynia in diabetic rats. <i>British Journal of Pharmacology</i> , 1997, 122, 1478-1482.	5.4	135
5	Abnormal calcium homeostasis in peripheral neuropathies. <i>Cell Calcium</i> , 2010, 47, 130-139.	2.4	107
6	Epidermal nerve fiber quantification in the assessment of diabetic neuropathy. <i>Acta Histochemica</i> , 2008, 110, 351-362.	1.8	106
7	Peripheral Neuropathy in Mouse Models of Diabetes. <i>Current Protocols in Mouse Biology</i> , 2016, 6, 223-255.	1.2	91
8	Dissociation of thermal hypoalgesia and epidermal denervation in streptozotocin-diabetic mice. <i>Neuroscience Letters</i> , 2008, 442, 267-272.	2.1	79
9	Selective antagonism of muscarinic receptors is neuroprotective in peripheral neuropathy. <i>Journal of Clinical Investigation</i> , 2017, 127, 608-622.	8.2	75
10	Experimental models of painful diabetic neuropathy. <i>Journal of the Neurological Sciences</i> , 2004, 220, 137-139.	0.6	74
11	The Roles of Streptozotocin Neurotoxicity and Neutral Endopeptidase in Murine Experimental Diabetic Neuropathy. <i>Experimental Diabetes Research</i> , 2009, 2009, 1-9.	3.8	65
12	Modeling Diabetic Sensory Neuropathy in Rats. , 2004, 99, 55-65.		64
13	Repeated monitoring of corneal nerves by confocal microscopy as an index of peripheral neuropathy in type 1 diabetic rodents and the effects of topical insulin. <i>Journal of the Peripheral Nervous System</i> , 2013, 18, 306-315.	3.1	62
14	Elevated substance-P-like immunoreactivity levels in spinal dialysates during the formalin test in normal and diabetic rats. <i>Brain Research</i> , 2000, 856, 20-27.	2.2	61
15	Spinal Disinhibition in Experimental and Clinical Painful Diabetic Neuropathy. <i>Diabetes</i> , 2017, 66, 1380-1390.	0.6	58
16	Fecal transplantation and butyrate improve neuropathic pain, modify immune cell profile, and gene expression in the PNS of obese mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26482-26493.	7.1	57
17	Diabetic neuropathy and neuropathic pain: a (con)fusion of pathogenic mechanisms?. <i>Pain</i> , 2020, 161, S65-S86.	4.2	54
18	Metformin as a potential therapeutic for neurological disease: mobilizing AMPK to repair the nervous system. <i>Expert Review of Neurotherapeutics</i> , 2021, 21, 45-63.	2.8	51

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19	The H-Reflex as a Biomarker for Spinal Disinhibition in Painful Diabetic Neuropathy. <i>Current Diabetes Reports</i> , 2018, 18, 1.	4.2	49
20	BDNF Attenuates Functional and Structural Disorders in Nerves of Galactose-fed Rats. <i>Journal of Neuropathology and Experimental Neurology</i> , 1997, 56, 1290-1301.	1.7	48
21	A novel curcumin derivative for the treatment of diabetic neuropathy. <i>Neuropharmacology</i> , 2018, 129, 26-35.	4.1	47
22	Insulin-like growth factor-1 activates AMPK to augment mitochondrial function and correct neuronal metabolism in sensory neurons in type 1 diabetes. <i>Molecular Metabolism</i> , 2019, 20, 149-165.	6.5	45
23	Peripheral Neuropathy in Rats Exposed to Dichloroacetate. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009, 68, 985-993.	1.7	41
24	Tolrestat treatment prevents modification of the formalin test model of prolonged pain in hyperglycemic rats. <i>Pain</i> , 1994, 58, 413-420.	4.2	38
25	Therapeutic efficacy of sonic hedgehog protein in experimental diabetic neuropathy. <i>Journal of Clinical Investigation</i> , 2003, 111, 507-514.	8.2	38
26	Effects of diabetes on tissue content and evoked release of calcitonin gene-related peptide-like immunoreactivity from rat sensory nerves. <i>Neuroscience Letters</i> , 1998, 254, 129-132.	2.1	34
27	Dichloroacetate-induced peripheral neuropathy. <i>International Review of Neurobiology</i> , 2019, 145, 211-238.	2.0	33
28	Treatment of Inherited Eye Defects by Systemic Hematopoietic Stem Cell Transplantation. , 2015, 56, 7214.		31
29	Remodelling of spared proprioceptive circuit involving a small number of neurons supports functional recovery. <i>Nature Communications</i> , 2015, 6, 6079.	12.8	28
30	Muscarinic Acetylcholine Type 1 Receptor Activity Constrains Neurite Outgrowth by Inhibiting Microtubule Polymerization and Mitochondrial Trafficking in Adult Sensory Neurons. <i>Frontiers in Neuroscience</i> , 2018, 12, 402.	2.8	28
31	Tenofovir disoproxil fumarate induces peripheral neuropathy and alters inflammation and mitochondrial biogenesis in the brains of mice. <i>Scientific Reports</i> , 2019, 9, 17158.	3.3	26
32	Insulin prevents aberrant mitochondrial phenotype in sensory neurons of type 1 diabetic rats. <i>Experimental Neurology</i> , 2017, 297, 148-157.	4.1	23
33	Protection of sensory function in diabetic rats by Neotrofin. <i>European Journal of Pharmacology</i> , 2006, 534, 187-193.	3.5	22
34	Painful neuropathy. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2014, 126, 533-557.	1.8	21
35	Necrotizing myopathy induced by overexpression of interferon- $\gamma$ in transgenic mice. , 1999, 22, 156-165.		20
36	Novel and Emerging Electrophysiological Biomarkers of Diabetic Neuropathy and Painful Diabetic Neuropathy. <i>Clinical Therapeutics</i> , 2021, 43, 1441-1456.	2.5	19

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37	Muscarinic Toxin 7 Signals Via Ca <sup>2+</sup> /Calmodulin-Dependent Protein Kinase Kinase $\hat{I}^2$ to Augment Mitochondrial Function and Prevent Neurodegeneration. <i>Molecular Neurobiology</i> , 2020, 57, 2521-2538.	4.0	18
38	A novel and robust conditioning lesion induced by ethidium bromide. <i>Experimental Neurology</i> , 2015, 265, 30-39.	4.1	16
39	Tolerating Diabetes: An Alternative Therapeutic Approach for Diabetic Neuropathy. <i>ASN Neuro</i> , 2010, 2, AN20100026.	2.7	15
40	Pharmacological Modulation of Rate-Dependent Depression of the Spinal H-Reflex Predicts Therapeutic Efficacy against Painful Diabetic Neuropathy. <i>Diagnostics</i> , 2021, 11, 283.	2.6	14
41	Prosaposin is immunolocalized to muscle and prosaptides promote myoblast fusion and attenuate loss of muscle mass after nerve injury. <i>Muscle and Nerve</i> , 2001, 24, 799-808.	2.2	13
42	Topical Delivery of Muscarinic Receptor Antagonists Prevents and Reverses Peripheral Neuropathy in Female Diabetic Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020, 374, 44-51.	2.5	13
43	Lost in Translation? Measuring Diabetic Neuropathy in Humans and Animals. <i>Diabetes and Metabolism Journal</i> , 2021, 45, 27-42.	4.7	13
44	Internode length is reduced during myelination and remyelination by neurofilament medium phosphorylation in motor axons. <i>Experimental Neurology</i> , 2018, 306, 158-168.	4.1	12
45	Predictors of worsening neuropathy and neuropathic pain after 12 years in people with HIV. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 1166-1173.	3.7	12
46	CEBP $\hat{I}^2$ regulation of endogenous IGF-1 in adult sensory neurons can be mobilized to overcome diabetes-induced deficits in bioenergetics and axonal outgrowth. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 193.	5.4	10
47	Future treatments for diabetic neuropathy: Clues from experimental neuropathy. <i>Current Diabetes Reports</i> , 2002, 2, 482-488.	4.2	9
48	Location, Location, Location?. <i>Diabetes</i> , 2013, 62, 3658-3660.	0.6	9
49	Prevention of HIV-1 TAT Protein-Induced Peripheral Neuropathy and Mitochondrial Disruption by the Antimuscarinic Pirenzepine. <i>Frontiers in Neurology</i> , 2021, 12, 663373.	2.4	9
50	Spinal Inhibitory Dysfunction in Patients With Painful or Painless Diabetic Neuropathy. <i>Diabetes Care</i> , 2021, 44, 1835-1841.	8.6	9
51	Amelioration of Both Central and Peripheral Neuropathy in Mouse Models of Type 1 and Type 2 Diabetes by the Neurogenic Molecule NSI-189. <i>Diabetes</i> , 2019, 68, 2143-2154.	0.6	8
52	Differential effects of myostatin deficiency on motor and sensory axons. <i>Muscle and Nerve</i> , 2017, 56, E100-E107.	2.2	6
53	LXR agonist improves peripheral neuropathy and modifies PNS immune cells in aged mice. <i>Journal of Neuroinflammation</i> , 2022, 19, 57.	7.2	6
54	Low Doses of Formalin Reveal Allodynia in Diabetic Rats. <i>Journal of Neuropathic Pain &amp; Symptom Palliation</i> , 2005, 1, 39-46.	0.1	5

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55	A missense point mutation in nerve growth factor (NGFR100W) results in selective peripheral sensory neuropathy. <i>Progress in Neurobiology</i> , 2020, 194, 101886.	5.7	5
56	Optimal Utility of H-Reflex RDD as a Biomarker of Spinal Disinhibition in Painful and Painless Diabetic Neuropathy. <i>Diagnostics</i> , 2021, 11, 1247.	2.6	5
57	Rate-Dependent Depression: A Predictor of the Therapeutic Efficacy in Treating Painful Diabetic Peripheral Neuropathy. <i>Diabetes</i> , 2022, 71, 1272-1281.	0.6	3
58	Translating diabetic peripheral neuropathy. <i>Journal of the Peripheral Nervous System</i> , 2020, 25, 64-65.	3.1	2
59	Lost in Translation? Measuring Diabetic Neuropathy in Humans and Animals (Diabetes Metab J) Tj ETQq1 1 0.784314,rgBT /Oyerlock 10 4.7	4.7	1
60	Using Corneal Confocal Microscopy to Identify Therapeutic Agents for Diabetic Neuropathy. <i>Journal of Clinical Medicine</i> , 2022, 11, 2307.	2.4	1
61	Textbook of Diabetic Neuropathy. <i>Journal of the Peripheral Nervous System</i> , 2004, 9, 58-58.	3.1	0
62	Rate-dependent depression is impaired in amyotrophic lateral sclerosis. <i>Neurological Sciences</i> , 2022, 43, 1831-1838.	1.9	0
63	Muscarinic Acetylcholine Type 1 Receptor Constrains Neurite Outgrowth by Inhibiting Microtubule Polymerization and Mitochondrial Trafficking in Adult Sensory Neurons: A Phenotype Rescued by Antagonist Treatment. <i>FASEB Journal</i> , 2018, 32, 805.21.	0.5	0