Nigel C Jones

List of Publications by Year
in descending order

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118 papers	4,618 citations	87723 38 h-index	123241 61 g-index
119 all docs	119 docs citations	119 times ranked	5458 citing authors

#	Article	IF	Citations
1	NMDA Receptor Hypofunction Leads to Generalized and Persistent Aberrant Î³ Oscillations Independent of Hyperlocomotion and the State of Consciousness. PLoS ONE, 2009, 4, e6755.	1.1	209
2	Elevated anxiety and depressive-like behavior in a rat model of genetic generalized epilepsy suggesting common causation. Experimental Neurology, 2008, 209, 254-260.	2.0	171
3	T-Type Calcium Channel Blockers That Attenuate Thalamic Burst Firing and Suppress Absence Seizures. Science Translational Medicine, 2012, 4, 121ra19.	5.8	156
4	Sodium selenate reduces hyperphosphorylated tau and improves outcomes after traumatic brain injury. Brain, 2015, 138, 1297-1313.	3.7	131
5	Early Postnatal Stress Confers Enduring Vulnerability to Limbic Epileptogenesis. Epilepsia, 2007, 48, 2079-2085.	2.6	130
6	Can structural or functional changes following traumatic brain injury in the rat predict epileptic outcome?. Epilepsia, 2013, 54, 1240-1250.	2.6	129
7	Experimental Traumatic Brain Injury Induces a Pervasive Hyperanxious Phenotype in Rats. Journal of Neurotrauma, 2008, 25, 1367-1374.	1.7	114
8	Ethosuximide reduces epileptogenesis and behavioral comorbidity in the <scp>GAERS</scp> model of genetic generalized epilepsy. Epilepsia, 2013, 54, 635-643.	2.6	102
9	Sodium selenate retards epileptogenesis in acquired epilepsy models reversing changes in protein phosphatase 2A and hyperphosphorylated tau. Brain, 2016, 139, 1919-1938.	3.7	100
10	Acute administration of typical and atypical antipsychotics reduces EEG gamma power, but only the preclinical compound LY379268 reduces the ketamine-induced rise in gamma power. International Journal of Neuropsychopharmacology, 2012, 15, 657-668.	1.0	95
11	The long non-coding RNA NEAT1 is responsive to neuronal activity and is associated with hyperexcitability states. Scientific Reports, 2017, 7, 40127.	1.6	92
12	Early seizures and temporal lobe trauma predict post-traumatic epilepsy: A longitudinal study. Neurobiology of Disease, 2019, 123, 115-121.	2.1	91
13	Antidepressant therapy in epilepsy: can treating the comorbidities affect the underlying disorder?. British Journal of Pharmacology, 2013, 168, 1531-1554.	2.7	88
14	The acceleration of amygdala kindling epileptogenesis by chronic low-dose corticosterone involves both mineralocorticoid and glucocorticoid receptors. Psychoneuroendocrinology, 2007, 32, 834-842.	1.3	85
15	Hypometabolism precedes limbic atrophy and spontaneous recurrent seizures in a rat model of TLE. Epilepsia, 2012, 53, 1233-1244.	2.6	85
16	Affective, neurocognitive and psychosocial disorders associated with traumatic brain injury and post-traumatic epilepsy. Neurobiology of Disease, 2019, 123, 27-41.	2.1	76
17	Sevoflurane Anesthesia Does Not Impair Acquisition Learning or Memory in the Morris Water Maze in Young Adult and Aged Rats. Anesthesiology, 2012, 117, 1091-1101.	1.3	70
18	Targeting hyperphosphorylated tau with sodium selenate suppresses seizures in rodent models. Neurobiology of Disease, 2012, 45, 897-901.	2.1	70

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19	Early Life Stress Enhancement of Limbic Epileptogenesis in Adult Rats: Mechanistic Insights. PLoS ONE, 2011, 6, e24033.	1.1	69
20	High mobility group box 1 (<scp>HMGB</scp>1) as a novel frontier in epileptogenesis: from pathogenesis to therapeutic approaches. Journal of Neurochemistry, 2019, 151, 542-557.	2.1	68
21	Progressive Metabolic and Structural Cerebral Perturbations After Traumatic Brain Injury: An In Vivo Imaging Study in the Rat. Journal of Nuclear Medicine, 2010, 51, 1788-1795.	2.8	66
22	Antagonism of the interleukin-1 receptor following traumatic brain injury in the mouse reduces the number of nitric oxide synthase-2-positive cells and improves anatomical and functional outcomes. European Journal of Neuroscience, 2005, 22, 72-78.	1.2	64
23	Granulocyte-Macrophage Colony-Stimulating Factor Is Neuroprotective in Experimental Traumatic Brain Injury. Journal of Neurotrauma, 2014, 31, 976-983.	1.7	63
24	Isoflurane induces cognitive deficits in the Morris water maze task in rats. European Journal of Anaesthesiology, 2012, 29, 239-245.	0.7	60
25	Mutations of the Sonic Hedgehog Pathway Underlie Hypothalamic Hamartoma with Gelastic Epilepsy. American Journal of Human Genetics, 2016, 99, 423-429.	2.6	59
26	Deletion of the type-1 interferon receptor in APPSWE/PS1Î”E9 mice preserves cognitive function and alters glial phenotype. Acta Neuropathologica Communications, 2016, 4, 72.	2.4	58
27	Anxiolytic effects of rapid amygdala kindling, and the influence of early life experience in rats. Behavioural Brain Research, 2009, 203, 81-87.	1.2	57
28	Early life stress as an influence on limbic epilepsy: a hypothesis whose time has come?. Frontiers in Behavioral Neuroscience, 2009, 3, 24.	1.0	57
29	Seizure expression, behavior, and brain morphology differences in colonies of Genetic Absence Epilepsy Rats from Strasbourg. Epilepsia, 2014, 55, 1959-1968.	2.6	57
30	Early life maternal separation stress augmentation of limbic epileptogenesis: The role of corticosterone and HPA axis programming. Psychoneuroendocrinology, 2014, 42, 124-133.	1.3	56
31	Morphometric abnormalities and hyperanxiety in genetically epileptic rats: A model of psychiatric comorbidity?. NeuroImage, 2009, 45, 267-274.	2.1	52
32	A genetic epilepsy rat model displays endophenotypes of psychosis. Neurobiology of Disease, 2010, 39, 116-125.	2.1	51
33	Inhibition of Dynamin by Dynole 34-2 Induces Cell Death following Cytokinesis Failure in Cancer Cells. Molecular Cancer Therapeutics, 2011, 10, 1553-1562.	1.9	51
34	DNA Methylation Mediates Persistent Epileptiform Activity In Vitro and In Vivo. PLoS ONE, 2013, 8, e76299.	1.1	49
35	The neuroprotective effect of progesterone after traumatic brain injury in male mice is independent of both the inflammatory response and growth factor expression. European Journal of Neuroscience, 2005, 21, 1547-1554.	1.2	47
36	Hyperphosphorylated Tau is Implicated in Acquired Epilepsy and Neuropsychiatric Comorbidities. Molecular Neurobiology, 2014, 49, 1532-1539.	1.9	46

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37	Memory Impairment in Rats after Desflurane Anesthesia is Age and Dose Dependent. Journal of Alzheimer's Disease, 2015, 44, 995-1005.	1.2	44
38	Axon initial segment structural plasticity in animal models of genetic and acquired epilepsy. Epilepsy Research, 2013, 105, 272-279.	0.8	43
39	Chronic administration of antipsychotics attenuates ongoing and ketamine-induced increases in cortical Î³ oscillations. International Journal of Neuropsychopharmacology, 2014, 17, 1895-1904.	1.0	40
40	Environmental enrichment imparts disease-modifying and transgenerational effects on genetically-determined epilepsy and anxiety. Neurobiology of Disease, 2016, 93, 129-136.	2.1	40
41	Compartment- and context-specific changes in tissue-type plasminogen activator (tPA) activity following brain injury and pharmacological stimulation. Laboratory Investigation, 2011, 91, 1079-1091.	1.7	39
42	Tissue plasminogen activator does not alter development of acquired epilepsy. Epilepsia, 2012, 53, 1998-2004.	2.6	39
43	Stress, epilepsy, and psychiatric comorbidity: How can animal models inform the clinic?. Epilepsy and Behavior, 2013, 26, 363-369.	0.9	38
44	Targeting high-mobility group box protein 1 (HMGB1) in pediatric traumatic brain injury: Chronic neuroinflammatory, behavioral, and epileptogenic consequences. Experimental Neurology, 2019, 320, 112979.	2.0	38
45	Local NMDA receptor hypofunction evokes generalized effects on gamma and high-frequency oscillations and behavior. Neuroscience, 2017, 358, 124-136.	1.1	37
46	Clinical Relevance of Behavior Testing in Animal Models of Traumatic Brain Injury. Journal of Neurotrauma, 2020, 37, 2381-2400.	1.7	36
47	A Detrimental Role for Nitric Oxide Synthase-2 in the Pathology Resulting from Acute Cerebral Injury. Journal of Neuropathology and Experimental Neurology, 2004, 63, 708-720.	0.9	35
48	A mouse model of Alzheimer's disease displays increased susceptibility to kindling and seizureâ€associated death. Epilepsia, 2015, 56, e73-7.	2.6	35
49	A companion to the preclinical common data elements on neurobehavioral comorbidities of epilepsy: a report of the <scp>TASK</scp>3 behavior working group of the <scp>ILAE</scp>/<scp>AES</scp> Joint Translational Task Force. Epilepsia Open, 2018, 3, 24-52.	1.3	34
50	Repeatedly stressed rats have enhanced vulnerability to amygdala kindling epileptogenesis. Psychoneuroendocrinology, 2013, 38, 263-270.	1.3	33
51	Sleep-disordered breathing in epilepsy: epidemiology, mechanisms, and treatment. Sleep, 2018, 41, .	0.6	33
52	Reversal of evoked gamma oscillation deficits is predictive of antipsychotic activity with a unique profile for clozapine. Translational Psychiatry, 2016, 6, e784-e784.	2.4	32
53	The epilepsy bioinformatics study for anti-epileptogenic therapy (EpiBioS4Rx) clinical biomarker: Study design and protocol. Neurobiology of Disease, 2019, 123, 110-114.	2.1	32
54	Accelerated kindling epileptogenesis in Tg4510 tau transgenic mice, but not in tau knockout mice. Epilepsia, 2017, 58, e136-e141.	2.6	30

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55	<scp>HCN</scp> channelopathy and cardiac electrophysiologic dysfunction in genetic and acquired rat epilepsy models. Epilepsia, 2014, 55, 609-620.	2.6	29
56	Somatic GNAQ mutation in the forme fruste of Sturge-Weber syndrome. Neurology: Genetics, 2018, 4, e236.	0.9	29
57	Microglial polarization in posttraumatic epilepsy: Potential mechanism and treatment opportunity. Epilepsia, 2020, 61, 203-215.	2.6	29
58	Astrocyte and glutamate involvement in the pathogenesis of epilepsy in Alzheimer's disease. Epilepsia, 2021, 62, 1485-1493.	2.6	29
59	Antagonism of the ATP-gated P2X7 receptor: a potential therapeutic strategy for cancer. Purinergic Signalling, 2021, 17, 215-227.	1.1	28
60	Effects of aberrant gamma frequency oscillations on prepulse inhibition. International Journal of Neuropsychopharmacology, 2014, 17, 1671-1681.	1.0	27
61	Interaction between sex and early-life stress: Influence on epileptogenesis and epilepsy comorbidities. Neurobiology of Disease, 2014, 72, 233-241.	2.1	27
62	Tau Related Pathways as a Connecting Link between Epilepsy and Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2019, 10, 4199-4212.	1.7	27
63	Chronic antidepressant treatment accelerates kindling epileptogenesis in rats. Neurobiology of Disease, 2014, 63, 194-200.	2.1	26
64	Targeting neurodegeneration to prevent post-traumatic epilepsy. Neurobiology of Disease, 2019, 123, 100-109.	2.1	26
65	The maternal immune activation model uncovers a role for the Arx gene in GABAergic dysfunction in schizophrenia. Brain, Behavior, and Immunity, 2019, 81, 161-171.	2.0	26
66	Electrophysiological insights into the enduring effects of early life stress on the brain. Psychopharmacology, 2011, 214, 155-173.	1.5	25
67	Imaging biomarkers of posttraumatic epileptogenesis. Epilepsia, 2019, 60, 2151-2162.	2.6	25
68	Estradiol and raloxifene modulate hippocampal gamma oscillations during a spatial memory task. Psychoneuroendocrinology, 2017, 78, 85-92.	1.3	24
69	Harmonization of the pipeline for seizure detection to phenotype post-traumatic epilepsy in a preclinical multicenter study on post-traumatic epileptogenesis. Epilepsy Research, 2019, 156, 106131.	0.8	24
70	Disease-modifying effects of a novel T-type calcium channel antagonist, Z944, in a model of temporal lobe epilepsy. Progress in Neurobiology, 2019, 182, 101677.	2.8	23
71	NMDA receptors on parvalbumin-positive interneurons and pyramidal neurons both contribute to MK-801 induced gamma oscillatory disturbances: Complex relationships with behaviour. Neurobiology of Disease, 2020, 134, 104625.	2.1	22
72	Sleep-disordered breathing among patients admitted for inpatient video-EEG monitoring. Neurology, 2019, 92, e194-e204.	1.5	21

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73	Cardiorespiratory and autonomic function in epileptic seizures: A video-EEG monitoring study. Epilepsy and Behavior, 2020, 111, 107271.	0.9	21
74	Enduring Effects of Early Life Stress on Firing Patterns of Hippocampal and Thalamocortical Neurons in Rats: Implications for Limbic Epilepsy. PLoS ONE, 2013, 8, e66962.	1.1	21
75	Neuregulin 1 Expression and Electrophysiological Abnormalities in the Neuregulin 1 Transmembrane Domain Heterozygous Mutant Mouse. PLoS ONE, 2015, 10, e0124114.	1.1	21
76	A regulatory role for protease-activated receptor-2 in motivational learning in rats. Neurobiology of Learning and Memory, 2009, 92, 301-309.	1.0	19
77	TheN-Methyl d-Aspartate Glutamate Receptor Antagonist Ketamine Disrupts the Functional State of the Corticothalamic Pathway. Cerebral Cortex, 2017, 27, bhw168.	1.6	19
78	Neurological Dysfunction in Early Maturity of a Model for Niemannâ€“Pick C1 Carrier Status. Neurotherapeutics, 2016, 13, 614-622.	2.1	17
79	The mGluR2/3 agonist LY379268 reverses NMDA receptor antagonist effects on cortical gamma oscillations and phase coherence, but not working memory impairments, in mice. Journal of Psychopharmacology, 2019, 33, 1588-1599.	2.0	17
80	Targeting Glioma Stem Cells by Functional Inhibition of Dynamin 2: A Novel Treatment Strategy for Glioblastoma. Cancer Investigation, 2019, 37, 144-155.	0.6	17
81	Harmonization of pipeline for preclinical multicenter plasma protein and miRNA biomarker discovery in a rat model of post-traumatic epileptogenesis. Epilepsy Research, 2019, 149, 92-101.	0.8	17
82	Evaluating whole genome sequence data from the Genetic Absence Epilepsy Rat from Strasbourg and its related non-epileptic strain. PLoS ONE, 2017, 12, e0179924.	1.1	16
83	Confounding neurodegenerative effects of manganese for in vivo MR imaging in rat models of brain insults. Journal of Magnetic Resonance Imaging, 2011, 34, 774-784.	1.9	15
84	Chronic fluoxetine treatment accelerates kindling epileptogenesis in mice independently of 5â€<scp>HT</scp>_{2A} receptors. Epilepsia, 2018, 59, e114-e119.	2.6	15
85	Cognitive deficits in a rat model of temporal lobe epilepsy using touchscreenâ€based translational tools. Epilepsia, 2019, 60, 1650-1660.	2.6	15
86	Harmonization of pipeline for detection of HFOs in a rat model of post-traumatic epilepsy in preclinical multicenter study on post-traumatic epileptogenesis. Epilepsy Research, 2019, 156, 106110.	0.8	15
87	Morphometric changes and molecular mechanisms in rat models of idiopathic generalized epilepsy with absence seizures. Neuroscience Letters, 2011, 497, 185-193.	1.0	14
88	Environmental enrichment delays limbic epileptogenesis and restricts pathologic synaptic plasticity. Epilepsia, 2016, 57, 484-494.	2.6	14
89	Raloxifene recovers effects of prenatal immune activation on cognitive task-induced gamma power. Psychoneuroendocrinology, 2019, 110, 104448.	1.3	14
90	The genetic ablation of tau improves long-term, but not short-term, functional outcomes after experimental traumatic brain injury in mice. Brain Injury, 2020, 34, 131-139.	0.6	14

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91	Sensitive quantitative detection of somatic mosaic mutation in â€œdouble cortexâ€•syndrome. Epileptic Disorders, 2017, 19, 450-455.	0.7	13
92	Brainâ€derived neurotrophic factor haploinsufficiency impairs highâ€frequency cortical oscillations in mice. European Journal of Neuroscience, 2018, 48, 2816-2825.	1.2	13
93	Unravelling the Role of Glycogen Synthase Kinase-3 in Alzheimerâ€™s Disease-Related Epileptic Seizures. International Journal of Molecular Sciences, 2020, 21, 3676.	1.8	13
94	The effect of amygdala kindling on neuronal firing patterns in the lateral thalamus in the GAERS model of absence epilepsy. Epilepsia, 2014, 55, 654-665.	2.6	11
95	Inhibition of purinergic P2X receptor 7 (P2X7R) decreases granulocyte-macrophage colony-stimulating factor (GM-CSF) expression in U251 glioblastoma cells. Scientific Reports, 2020, 10, 14844.	1.6	11
96	MK-801 impairs working memory on the Trial-Unique Nonmatch-to-Location test in mice, but this is not exclusively mediated by NMDA receptors on PV+ interneurons or forebrain pyramidal cells. Neuropharmacology, 2020, 171, 108103.	2.0	9
97	Altered metabolic pathways in a transgenic mouse model suggest mechanistic role of amyloid precursor protein overexpression in Alzheimerâ€™s disease. Metabolomics, 2021, 17, 42.	1.4	9
98	Acute NMDA receptor antagonism impairs working memory performance but not attention in ratsâ€”Implications for the NMDAr hypofunction theory of schizophrenia.. Behavioral Neuroscience, 2020, 134, 323-331.	0.6	9
99	Extensive phenotyping of two ARX polyalanine expansion mutation mouse models that span clinical spectrum of intellectual disability and epilepsy. Neurobiology of Disease, 2017, 105, 245-256.	2.1	8
100	Selective serotonin reuptake inhibitors and risk of epilepsy after traumatic brain injury â€“ A population based cohort study. PLoS ONE, 2019, 14, e0219137.	1.1	8
101	A rat model of valproate teratogenicity from chronic oral treatment during pregnancy. Epilepsia, 2020, 61, 1291-1300.	2.6	8
102	Low prevalence of amyloid and tau pathology in drugâ€resistant temporal lobe epilepsy. Epilepsia, 2021, 62, 3058-3067.	2.6	8
103	Disease-Modifying Effects of Neural Regeneration Peptide 2945 in the GAERS Model of Absence Epilepsy. Neurochemical Research, 2017, 42, 2055-2064.	1.6	7
104	Altered cardiac structure and function is related to seizure frequency in a rat model of chronic acquired temporal lobe epilepsy. Neurobiology of Disease, 2021, 159, 105505.	2.1	7
105	Network Preservation Analysis Reveals Dysregulated Synaptic Modules and Regulatory Hubs Shared Between Alzheimerâ€™s Disease and Temporal Lobe Epilepsy. Frontiers in Genetics, 2022, 13, 821343.	1.1	7
106	Serious Cardiac Arrhythmias Detected by Subcutaneous Long-term Cardiac Monitors in Patients With Drug-Resistant Epilepsy. Neurology, 2022, 98, .	1.5	6
107	An Integrated Multi-Omic Network Analysis Identifies Seizure-Associated Dysregulated Pathways in the GAERS Model of Absence Epilepsy. International Journal of Molecular Sciences, 2022, 23, 6063.	1.8	6
108	High-Frequency Neuronal Oscillatory Abnormalities in the Phospholipase C-Î²1 Knockout Mouse Model of Schizophrenia. International Journal of Neuropsychopharmacology, 2019, 22, 221-231.	1.0	5

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109	The effects of cell therapy on seizures in animal models of epilepsy: protocol for systematic review and meta-analysis of preclinical studies. Systematic Reviews, 2019, 8, 255.	2.5	3
110	Early life adversity accelerates epileptogenesis and enhances depression-like behaviors in rats. Experimental Neurology, 2022, 354, 114088.	2.0	3
111	Disease-Modification in Epilepsy by Nonpharmacological Methods. Epilepsy Currents, 2018, 18, 45-46.	0.4	1
112	Microglial Cells in Epilepsy: Not That Bad After All?. Epilepsy Currents, 2021, 21, 54-56.	0.4	1
113	High sucrose diet does not impact spatial cognition in rats using advanced touchscreen technology. Behavioural Brain Research, 2022, 418, 113665.	1.2	1
114	Characterising seizure development, behavioural comorbidities and neuroinflammation in a self-sustained electrical status epilepticus model of mesial temporal lobe epilepsy in C57BL/6J mice. Neurobiology of Disease, 2022, 168, 105688.	2.1	1
115	Reply to. European Journal of Anaesthesiology, 2013, 30, 43-44.	0.7	0
116	Potentiating the Strength of Extrasynaptic Currents by Neurosteroid Hormones. Epilepsy Currents, 2016, 16, 261-262.	0.4	0
117	Thinking above the Genome: Epigenetic Manipulation as a Disease-Modifying Strategy in Epilepsy. Epilepsy Currents, 2018, 18, 255-256.	0.4	0
118	Glial Cell Collaboration in Space and Time Contributes to Epileptogenesis. Epilepsy Currents, 2021, 21, 153575972110411.	0.4	0