Peter G Noakes

List of Publications by Year
in descending order

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88	5,963	76326	74163
papers	citations	40 h-index	75 g-index

91	91	91	5688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Defective Neuromuscular Synaptogenesis in Agrin-Deficient Mutant Mice. Cell, 1996, 85, 525-535.	28.9	856
2	Failure of postsynaptic specialization to develop at neuromuscular junctions of rapsyn-deficient mice. Nature, 1995, 377, 232-236.	27.8	514
3	Aberrant differentiation of neuromuscular junctions in mice lacking s-laminin/laminin Î²2. Nature, 1995, 374, 258-262.	27.8	454
4	The renal glomerulus of mice lacking sâ€“laminin/laminin Î²2: nephrosis despite molecular compensation by laminin Î²1. Nature Genetics, 1995, 10, 400-406.	21.4	384
5	Synapse-Associated Expression of an Acetylcholine Receptor-Inducing Protein, ARIA/Heregulin, and Its Putative Receptors, ErbB2 and ErbB3, in Developing Mammalian Muscle. Developmental Biology, 1995, 172, 158-169.	2.0	166
6	In Vivo Analysis of Growth Hormone Receptor Signaling Domains and Their Associated Transcripts. Molecular and Cellular Biology, 2005, 25, 66-77.	2.3	137
7	The Complement Factor C5a Contributes to Pathology in a Rat Model of Amyotrophic Lateral Sclerosis. Journal of Immunology, 2008, 181, 8727-8734.	0.8	136
8	The Role of the Complement System and the Activation Fragment C5a in the Central Nervous System. NeuroMolecular Medicine, 2010, 12, 179-192.	3.4	136
9	Solving the Î±-Conotoxin Folding Problem: Efficient Selenium-Directed On-Resin Generation of More Potent and Stable Nicotinic Acetylcholine Receptor Antagonists. Journal of the American Chemical Society, 2010, 132, 3514-3522.	13.7	124
10	Expanding Roles for Î±4 Integrin and its Ligands in Development. Cell Adhesion and Communication, 1994, 2, 27-43.	1.7	114
11	Clustering and immobilization of acetylcholine receptors by the 43-kD protein: a possible role for dystrophin-related protein.. Journal of Cell Biology, 1993, 123, 729-740.	5.2	107
12	Motor Cortex Layer V Pyramidal Neurons Exhibit Dendritic Regression, Spine Loss, and Increased Synaptic Excitation in the Presymptomatic hSOD1^{G93A}Mouse Model of Amyotrophic Lateral Sclerosis. Journal of Neuroscience, 2015, 35, 643-647.	3.6	100
13	Cross-ethnic meta-analysis identifies association of the GPX3-TNIP1 locus with amyotrophic lateral sclerosis. Nature Communications, 2017, 8, 611.	12.8	93
14	The Role of Altered BDNF/TrkB Signaling in Amyotrophic Lateral Sclerosis. Frontiers in Cellular Neuroscience, 2019, 13, 368.	3.7	87
15	Rapsyn Interaction with Calpain Stabilizes AChR Clusters at the Neuromuscular Junction. Neuron, 2007, 55, 247-260.	8.1	85
16	Cortical synaptic and dendritic spine abnormalities in a presymptomatic TDP-43 model of amyotrophic lateral sclerosis. Scientific Reports, 2016, 6, 37968.	3.3	85
17	43K Protein and Acetylcholine Receptors Colocalize during the Initial Stages of Neuromuscular Synapse Formation in Vivo. Developmental Biology, 1993, 155, 275-280.	2.0	80
18	Pharmacological inhibition of complement C5aâ€C5a₁ receptor signalling ameliorates disease pathology in the hSOD1^{G93A} mouse model of amyotrophic lateral sclerosis. British Journal of Pharmacology, 2017, 174, 689-699.	5.4	79

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19	Identification of RNA bound to the TDP-43 ribonucleoprotein complex in the adult mouse brain. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2013, 14, 252-260.	1.7	77
20	A method for the three-dimensional reconstruction of Neurobiotinâ„¢-filled neurons and the location of their synaptic inputs. Frontiers in Neural Circuits, 2013, 7, 153.	2.8	77
21	Dysregulation of the complement cascade in the hSOD1G93Atransgenic mouse model of amyotrophic lateral sclerosis. Journal of Neuroinflammation, 2013, 10, 119.	7.2	76
22	Absence of toll-like receptor 4 (TLR4) extends survival in the hSOD1G93A mouse model of amyotrophic lateral sclerosis. Journal of Neuroinflammation, 2015, 12, 90.	7.2	69
23	In Vivo Targeting of the Growth Hormone Receptor (GHR) Box1 Sequence Demonstrates that the GHR Does Not Signal Exclusively through JAK2. Molecular Endocrinology, 2010, 24, 204-217.	3.7	66
24	Growth of axons into developing muscles of the chick forelimb is preceded by cells that stain with Schwann cell antibodies. Journal of Comparative Neurology, 1987, 259, 330-347.	1.6	64
25	Preclinical Pharmacokinetics of Complement C5a Receptor Antagonists PMX53 and PMX205 in Mice. ACS Omega, 2020, 5, 2345-2354.	3.5	64
26	Functional analysis of neurotransmission at Î²2â€laminin deficient terminals. Journal of Physiology, 2003, 546, 789-800.	2.9	63
27	Marked changes in dendritic structure and spine density precede significant neuronal death in vulnerable cortical pyramidal neuron populations in the SOD1G93A mouse model of amyotrophic lateral sclerosis. Acta Neuropathologica Communications, 2016, 4, 77.	5.2	63
28	Muscle Specific Kinase: Organiser of synaptic membrane domains. International Journal of Biochemistry and Cell Biology, 2011, 43, 295-298.	2.8	60
29	Elevation of the terminal complement activation products C5a and C5b-9 in ALS patient blood. Journal of Neuroimmunology, 2014, 276, 213-218.	2.3	60
30	A rat model of ataxia-telangiectasia: evidence for a neurodegenerative phenotype. Human Molecular Genetics, 2017, 26, ddw371.	2.9	59
31	Glycinergic and GABAergic Synaptic Activity Differentially Regulate Motoneuron Survival and Skeletal Muscle Innervation. Journal of Neuroscience, 2005, 25, 1249-1259.	3.6	54
32	Development of the neuromuscular junction: Genetic analysis in mice. Journal of Physiology (Paris), 1998, 92, 167-172.	2.1	52
33	Defects in synaptic transmission at the neuromuscular junction precede motor deficits in a TDPâ€43 ^{Q331K} transgenic mouse model of amyotrophic lateral sclerosis. FASEB Journal, 2018, 32, 2676-2689.	0.5	52
34	Motor Areas Show Altered Dendritic Structure in an Amyotrophic Lateral Sclerosis Mouse Model. Frontiers in Neuroscience, 2017, 11, 609.	2.8	51
35	P2X7-like receptor subunits enhance excitatory synaptic transmission at central synapses by presynaptic mechanisms. Neuroscience, 2004, 128, 269-280.	2.3	49
36	Role for terminal complement activation in amyotrophic lateral sclerosis disease progression. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3-4.	7.1	45

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37	Complement C5a-C5aR1 signalling drives skeletal muscle macrophage recruitment in the hSOD1G93A mouse model of amyotrophic lateral sclerosis. Skeletal Muscle, 2017, 7, 10.	4.2	45
38	Complement components are upregulated and correlate with disease progression in the TDP-43Q331K mouse model of amyotrophic lateral sclerosis. Journal of Neuroinflammation, 2018, 15, 171.	7.2	45
39	Neuregulin-1 Potentiates Agrin-Induced Acetylcholine Receptor Clustering via Muscle Specific Kinase Phosphorylation. Journal of Cell Science, 2012, 125, 1531-43.	2.0	43
40	Neural agrin: A synaptic stabiliser. International Journal of Biochemistry and Cell Biology, 2007, 39, 863-867.	2.8	40
41	Developmental changes in the morphology of mouse hypoglossal motor neurons. Brain Structure and Function, 2016, 221, 3755-3786.	2.3	38
42	Rats with a missense mutation in Atm display neuroinflammation and neurodegeneration subsequent to accumulation of cytosolic DNA following unrepaired DNA damage. Journal of Leukocyte Biology, 2017, 101, 927-947.	3.3	36
43	Promotion of motoneuron survival and branching in rapsyn-deficient mice. Journal of Comparative Neurology, 2001, 429, 156-165.	1.6	35
44	Revisiting the role of the innate immune complement system in ALS. Neurobiology of Disease, 2019, 127, 223-232.	4.4	35
45	Rapsyn and Agrin Slow the Metabolic Degradation of the Acetylcholine Receptor. Molecular and Cellular Neurosciences, 1997, 10, 16-26.	2.2	33
46	Glycinergic Neurotransmission: A Potent Regulator of Embryonic Motor Neuron Dendritic Morphology and Synaptic Plasticity. Journal of Neuroscience, 2016, 36, 80-87.	3.6	33
47	Migration of schwann cells and axons into developing chick forelimb muscles following removal of either the neural tube or the neural crest. Journal of Comparative Neurology, 1988, 277, 214-233.	1.6	32
48	Structural and functional characterization of dendritic arbors and GABAergic synaptic inputs on interneurons and principal cells in the rat basolateral amygdala. Journal of Neurophysiology, 2015, 114, 942-957.	1.8	32
49	Tick holocyclotoxins trigger host paralysis by presynaptic inhibition. Scientific Reports, 2016, 6, 29446.	3.3	31
50	Neural agrin increases postsynaptic ACh receptor packing by elevating rapsyn protein at the mouse neuromuscular synapse. Developmental Neurobiology, 2008, 68, 1153-1169.	3.0	30
51	Emerging Roles of Filopodia and Dendritic Spines in Motoneuron Plasticity during Development and Disease. Neural Plasticity, 2016, 2016, 1-31.	2.2	30
52	Targeting of the ETS Factor GabpÎ± Disrupts Neuromuscular Junction Synaptic Function. Molecular and Cellular Biology, 2007, 27, 3470-3480.	2.3	29
53	Loss of Î²2â€laminin alters calcium sensitivity and voltageâ€gated calcium channel maturation of neurotransmission at the neuromuscular junction. Journal of Physiology, 2015, 593, 245-265.	2.9	28
54	Role of complement in motor neuron disease: animal models and therapeutic potential of complement inhibitors. Advances in Experimental Medicine and Biology, 2008, 632, 143-58.	1.6	27

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55	Growth of segmental nerves to the developing rat diaphragm: Absence of pioneer axons. Journal of Comparative Neurology, 1983, 218, 365-377.	1.6	26
56	Developmental expression of two-pore domain K+ channels, TASK-1 and TREK-1, in the rat cochlea. NeuroReport, 2004, 15, 437-441.	1.2	26
57	Genetic Deficiency of GABA Differentially Regulates Respiratory and Non-Respiratory Motor Neuron Development. PLoS ONE, 2013, 8, e56257.	2.5	26
58	Functional decline at the aging neuromuscular junction is associated with altered laminin-Î±4 expression. Aging, 2017, 9, 880-899.	3.1	26
59	Myocardial deletion of Smad4 using a novel Î± skeletal muscle actin Cre recombinase transgenic mouse causes misalignment of the cardiac outflow tract. International Journal of Biological Sciences, 2010, 6, 546-555.	6.4	25
60	Neuronal expression of peripherin, a type III intermediate filament protein, in the mouse hindbrain. Histochemistry and Cell Biology, 2007, 128, 541-550.	1.7	24
61	Elucidating the molecular mechanisms that underlie the target control of motoneuron death. International Journal of Developmental Biology, 2002, 46, 551-8.	0.6	24
62	IGF-I and insulin activate mitogen-activated protein kinase via the type 1 IGF receptor in mouse embryonic stem cells. Reproduction, 2007, 134, 41-49.	2.6	23
63	Neuromuscular synapses mediate motor axon branching and motoneuron survival during the embryonic period of programmed cell death. Developmental Biology, 2003, 257, 71-84.	2.0	22
64	Sizeâ€Ðependent Vulnerability of Lumbar Motor Neuron Dendritic Degeneration in SOD1^{G93A} Mice. Anatomical Record, 2020, 303, 1455-1471.	1.4	22
65	The growth of muscle nerves in relation to the formation of primary myotubes in the developing chick forelimb. Journal of Comparative Neurology, 1986, 248, 245-256.	1.6	21
66	Overexpression of rapsyn inhibits agrin-induced acetylcholine receptor clustering in muscle cells. Journal of Neurocytology, 1999, 28, 763-775.	1.5	21
67	Postnatal changes in TASK-1 and TREK-1 expression in rat brain stem and cerebellum. NeuroReport, 2004, 15, 1321-1324.	1.2	19
68	TDP-43 Mutation Affects Stress Granule Dynamics in Differentiated NSC-34 Motoneuron-Like Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 611601.	3.7	19
69	Genetic absence of the vesicular inhibitory amino acid transporter differentially regulates respiratory and locomotor motor neuron development. Brain Structure and Function, 2015, 220, 525-540.	2.3	18
70	Neuregulin potentiates agrin-induced acetylcholine receptor clustering in myotubes. NeuroReport, 2004, 15, 2501-2505.	1.2	17
71	The C5a anaphylatoxin receptor CD88 is expressed in presynaptic terminals of hippocampal mossy fibres. Journal of Neuroinflammation, 2009, 6, 34.	7.2	17
72	Alterations in hypoglossal motor neurons due to GAD67 and VGAT deficiency in mice. Experimental Neurology, 2017, 289, 117-127.	4.1	17

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73	Heterozygote Effects in Mice with Partial Truncations in the Growth Hormone Receptor Cytoplasmic Domain: Assessment of Growth Parameters and Phenotype. Endocrinology, 2005, 146, 5278-5286.	2.8	14
74	Investigating Methodological Differences in the Assessment of Dendritic Morphology of Basolateral Amygdala Principal Neuronsâ€"A Comparison of Golgiâ€"Cox and Neurobiotin Electroporation Techniques. Brain Sciences, 2017, 7, 165.	2.3	14
75	Role of Complement in Motor Neuron Disease: Animal Models and Therapeutic Potential of Complement Inhibitors. Advances in Experimental Medicine and Biology, 2008, , 136-151.	1.6	11
76	Regulated Alternative Splicing of Drosophila Dscam2 Is Necessary for Attaining the Appropriate Number of Photoreceptor Synapses. Genetics, 2018, 208, 717-728.	2.9	10
77	Sizeâ€dependent dendritic maladaptations of hypoglossal motor neurons in SOD1^{G93A} mice. Anatomical Record, 2021, 304, 1562-1581.	1.4	10
78	Loss of lamininâ€α4 results in preâ€and postsynaptic modifications at the neuromuscular junction. FASEB Journal, 2017, 31, 1323-1336.	0.5	9
79	The two-pore domain K+ channel TASK-1 is closely associated with brain barriers and meninges. Journal of Molecular Histology, 2010, 41, 315-323.	2.2	7
80	Alterations in ciliary neurotrophic factor signaling in rapsyn deficient mice. Journal of Neuroscience Research, 2001, 64, 575-581.	2.9	6
81	Activity-Dependent Global Downscaling of Evoked Neurotransmitter Release across Glutamatergic Inputs inDrosophila. Journal of Neuroscience, 2020, 40, 8025-8041.	3.6	6
82	Impaired signaling for neuromuscular synaptic maintenance is a feature of Motor Neuron Disease. Acta Neuropathologica Communications, 2022, 10, 61.	5.2	6
83	What are Neurotransmitter Release Sites and Do They Interact?. Neuroscience, 2020, 425, 157-168.	2.3	3
84	Hematopoietic Prostaglandin D Synthase Inhibitor PK007 Decreases Muscle Necrosis in DMD mdx Model Mice. Life, 2021, 11, 994.	2.4	3
85	Dscam2 suppresses synaptic strength through a PI3K-dependent endosomal pathway. Journal of Cell Biology, 2020, 219, .	5.2	3
86	Transport of endosomal early antigen 1 in the rat sciatic nerve and location in cultured neurons. NeuroReport, 2001, 12, 281-284.	1.2	2
87	Seasonal comparison of the neuromuscular junction morphology of Bufo marinus. Journal of Comparative Neurology, 2019, 527, 1931-1939.	1.6	1
88	Murine cytomegalovirus infection exacerbates complex IV deficiency in a model of mitochondrial disease. PLoS Genetics, 2020, 16, e1008604.	3.5	1