

Gareth B Miles

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,420
citations

331670

21
h-index

302126

39
g-index

59
all docs

59
docs citations

59
times ranked

2873
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective vulnerability of tripartite synapses in amyotrophic lateral sclerosis. <i>Acta Neuropathologica</i> , 2022, 143, 471-486.	7.7	15
2	A common role for astrocytes in rhythmic behaviours?. <i>Progress in Neurobiology</i> , 2021, 202, 102052.	5.7	12
3	Long-term culture of SH-SY5Y neuroblastoma cells in the absence of neurotrophins: A novel model of neuronal ageing. <i>Journal of Neuroscience Methods</i> , 2021, 362, 109301.	2.5	16
4	Deep tissue contractility sensing with biointegrated microlasers. , 2021, , .		0
5	Maturation of persistent and hyperpolarization-activated inward currents shapes the differential activation of motoneuron subtypes during postnatal development. <i>ELife</i> , 2021, 10, .	6.0	17
6	Mutant <i>C9orf72</i> human iPSC-derived astrocytes cause non-cell autonomous motor neuron pathophysiology. <i>Glia</i> , 2020, 68, 1046-1064.	4.9	90
7	Nanostructural Diversity of Synapses in the Mammalian Spinal Cord. <i>Scientific Reports</i> , 2020, 10, 8189.	3.3	22
8	Monitoring contractility in cardiac tissue with cellular resolution using biointegrated microlasers. <i>Nature Photonics</i> , 2020, 14, 452-458.	31.4	77
9	Bi-Directional Communication Between Neurons and Astrocytes Modulates Spinal Motor Circuits. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 30.	3.7	25
10	Synaptic mechanisms underlying modulation of locomotor-related motoneuron output by premotor cholinergic interneurons. <i>ELife</i> , 2020, 9, .	6.0	19
11	Balanced cholinergic modulation of spinal locomotor circuits via M2 and M3 muscarinic receptors. <i>Scientific Reports</i> , 2019, 9, 14051.	3.3	15
12	Photostimulation for In Vitro Optogenetics with High-Power Blue Organic Light-Emitting Diodes. <i>Advanced Biology</i> , 2019, 3, e1800290.	3.0	24
13	Pitx2 cholinergic interneurons are the source of C bouton synapses on brainstem motor neurons. <i>Scientific Reports</i> , 2019, 9, 4936.	3.3	22
14	Microlaser-based contractility sensing in single cardiomyocytes and whole hearts. , 2019, , .		0
15	Microlaser-based contractility sensing in single cardiomyocytes and whole hearts. , 2019, , .		0
16	C9ORF72 repeat expansion causes vulnerability of motor neurons to Ca ²⁺ -permeable AMPA receptor-mediated excitotoxicity. <i>Nature Communications</i> , 2018, 9, 347.	12.8	151
17	Modulation of spinal motor networks by astrocyte-derived adenosine is dependent on D ₁ -like dopamine receptor signaling. <i>Journal of Neurophysiology</i> , 2018, 120, 998-1009.	1.8	22
18	Differential regulation of NMDA receptors by <i>d</i> -serine and glycine in mammalian spinal locomotor networks. <i>Journal of Neurophysiology</i> , 2017, 117, 1877-1893.	1.8	8

#	ARTICLE	IF	CITATIONS
19	Sodium Pumps Mediate Activity-Dependent Changes in Mammalian Motor Networks. <i>Journal of Neuroscience</i> , 2017, 37, 906-921.	3.6	48
20	Glutrotransmission and adenosinergic modulation: insights from mammalian spinal motor networks. <i>Journal of Neurophysiology</i> , 2017, 118, 3311-3327.	1.8	13
21	Lasing in Live Mitotic and Non-Phagocytic Cells by Efficient Delivery of Microresonators. <i>Scientific Reports</i> , 2017, 7, 40877.	3.3	41
22	Sodium Pumps Mediate Activity-Dependent Changes in Mammalian Motor Networks. <i>Journal of Neuroscience</i> , 2017, 37, 906-921.	3.6	10
23	Arrays of microscopic organic LEDs for high-resolution optogenetics. <i>Science Advances</i> , 2016, 2, e1600061.	10.3	69
24	Adenosine-mediated modulation of ventral horn interneurons and spinal motoneurons in neonatal mice. <i>Journal of Neurophysiology</i> , 2015, 114, 2305-2315.	1.8	22
25	Human iPSC-derived motoneurons harbouring TARDBP or C9ORF72 ALS mutations are dysfunctional despite maintaining viability. <i>Nature Communications</i> , 2015, 6, 5999.	12.8	241
26	Stimulation of Glia Reveals Modulation of Mammalian Spinal Motor Networks by Adenosine. <i>PLoS ONE</i> , 2015, 10, e0134488.	2.5	26
27	Anatomy and function of cholinergic <sc>C</sc> bouton inputs to motor neurons. <i>Journal of Anatomy</i> , 2014, 224, 52-60.	1.5	61
28	Nitric oxide-mediated modulation of the murine locomotor network. <i>Journal of Neurophysiology</i> , 2014, 111, 659-674.	1.8	15
29	Fast targeted gene transfection and optogenetic modification of single neurons using femtosecond laser irradiation. <i>Scientific Reports</i> , 2013, 3, 3281.	3.3	27
30	Glial-derived adenosine modulates spinal motor networks in mice. <i>Journal of Neurophysiology</i> , 2012, 107, 1925-1934.	1.8	28
31	Neuromodulation of Vertebrate Locomotor Control Networks. <i>Physiology</i> , 2011, 26, 393-411.	3.1	100
32	Activation of group I metabotropic glutamate receptors modulates locomotor-related motoneuron output in mice. <i>Journal of Neurophysiology</i> , 2011, 105, 2108-2120.	1.8	25
33	A Cluster of Cholinergic Premotor Interneurons Modulates Mouse Locomotor Activity. <i>Neuron</i> , 2009, 64, 645-662.	8.1	378
34	Transplanted Mouse Embryonic Stem-Cell-Derived Motoneurons Form Functional Motor Units and Reduce Muscle Atrophy. <i>Journal of Neuroscience</i> , 2008, 28, 12409-12418.	3.6	93
35	Spinal cholinergic interneurons regulate the excitability of motoneurons during locomotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2448-2453.	7.1	264
36	Non-linear interaction between β_1 -noradrenergic and P2 receptor signaling cascades in XII motoneurons (MNs). <i>FASEB Journal</i> , 2007, 21, A1295.	0.5	2

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37	Motoneurons Derived from Embryonic Stem Cells Express Transcription Factors and Develop Phenotypes Characteristic of Medial Motor Column Neurons. <i>Journal of Neuroscience</i> , 2006, 26, 3256-3268.	3.6	96
38	Functional Properties of Motoneurons Derived from Mouse Embryonic Stem Cells. <i>Journal of Neuroscience</i> , 2004, 24, 7848-7858.	3.6	200
39	Differential expression of voltage-activated calcium channels in III and XII motoneurons during development in the rat. <i>European Journal of Neuroscience</i> , 2004, 20, 903-913.	2.6	17
40	Modulation of phrenic motoneuron excitability by ATP: consequences for respiratory-related output in vitro. <i>Journal of Applied Physiology</i> , 2002, 92, 1899-1910.	2.5	29
41	GluR2 AMPA Receptor Subunit Expression in Motoneurons at Low and High Risk for Degeneration in Amyotrophic Lateral Sclerosis. <i>Experimental Neurology</i> , 2001, 169, 461-471.	4.1	45
42	Calcium binding proteins in motoneurons at low and high risk for degeneration in ALS. <i>NeuroReport</i> , 2000, 11, 3305-3308.	1.2	34