

Gabriel Martínez-Gálvez

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,940
citations

185998

28
h-index

264894

42
g-index

54
all docs

54
docs citations

54
times ranked

1250
citing authors

#	ARTICLE	IF	CITATIONS
1	Diaphragm motor unit recruitment in rats. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 101-106.	0.7	115
2	Retrograde labeling of phrenic motoneurons by intrapleural injection. <i>Journal of Neuroscience Methods</i> , 2009, 182, 244-249.	1.3	107
3	Motoneuron BDNF/TrkB signaling enhances functional recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , 2013, 247, 101-109.	2.0	92
4	Phrenic motor unit recruitment during ventilatory and non-ventilatory behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2011, 179, 57-63.	0.7	75
5	Localized Delivery of Brain-Derived Neurotrophic Factor-Expressing Mesenchymal Stem Cells Enhances Functional Recovery following Cervical Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2015, 32, 185-193.	1.7	72
6	Invited Review: Mechanisms underlying motor unit plasticity in the respiratory system. <i>Journal of Applied Physiology</i> , 2003, 94, 1230-1241.	1.2	64
7	Structure-activity relationships in rodent diaphragm muscle fibers vs. neuromuscular junctions. <i>Respiratory Physiology and Neurobiology</i> , 2012, 180, 88-96.	0.7	63
8	Recruitment of rat diaphragm motor units across motor behaviors with different levels of diaphragm activation. <i>Journal of Applied Physiology</i> , 2014, 117, 1308-1316.	1.2	59
9	Targeted Delivery of TrkB Receptor to Phrenic Motoneurons Enhances Functional Recovery of Rhythmic Phrenic Activity after Cervical Spinal Hemisection. <i>PLoS ONE</i> , 2013, 8, e64755.	1.1	58
10	Robust activation of microhomology-mediated end joining for precision gene editing applications. <i>PLoS Genetics</i> , 2018, 14, e1007652.	1.5	57
11	Ageing and neurotrophic signalling effects on diaphragm neuromuscular function. <i>Journal of Physiology</i> , 2015, 593, 431-440.	1.3	56
12	Prolonged C ₂ spinal hemisection-induced inactivity reduces diaphragm muscle specific force with modest, selective atrophy of type Ix and/or IIb fibers. <i>Journal of Applied Physiology</i> , 2013, 114, 380-386.	1.2	55
13	Chronic assessment of diaphragm muscle EMG activity across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 176-182.	0.7	54
14	Neuromuscular adaptations to respiratory muscle inactivity. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, 133-140.	0.7	51
15	Phrenic motoneuron expression of serotonergic and glutamatergic receptors following upper cervical spinal cord injury. <i>Experimental Neurology</i> , 2012, 234, 191-199.	2.0	48
16	Synaptic Vesicle Distribution and Release at Rat Diaphragm Neuromuscular Junctions. <i>Journal of Neurophysiology</i> , 2007, 98, 478-487.	0.9	47
17	TrkB kinase activity maintains synaptic function and structural integrity at adult neuromuscular junctions. <i>Journal of Applied Physiology</i> , 2014, 117, 910-920.	1.2	47
18	TrkB kinase activity is critical for recovery of respiratory function after cervical spinal cord hemisection. <i>Experimental Neurology</i> , 2014, 261, 190-195.	2.0	44

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19	FusX: A Rapid One-Step Transcription Activator-Like Effector Assembly System for Genome Science. <i>Human Gene Therapy</i> , 2016, 27, 451-463.	1.4	44
20	Role of neurotrophins in recovery of phrenic motor function following spinal cord injury. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, 218-225.	0.7	43
21	Respiratory muscle plasticity. <i>Respiratory Physiology and Neurobiology</i> , 2005, 147, 235-251.	0.7	41
22	Precision gene editing technology and Applications in nephrology. <i>Nature Reviews Nephrology</i> , 2018, 14, 663-677.	4.1	38
23	Diaphragm electromyographic activity following unilateral midcervical contusion injury in rats. <i>Journal of Neurophysiology</i> , 2017, 117, 545-555.	0.9	37
24	The Impact of Midcervical Contusion Injury on Diaphragm Muscle Function. <i>Journal of Neurotrauma</i> , 2016, 33, 500-509.	1.7	34
25	TrkB gene therapy by adeno-associated virus enhances recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , 2016, 276, 31-40.	2.0	34
26	BDNF effects on functional recovery across motor behaviors after cervical spinal cord injury. <i>Journal of Neurophysiology</i> , 2017, 117, 537-544.	0.9	33
27	Synaptic vesicle cycling at type-identified diaphragm neuromuscular junctions. <i>Muscle and Nerve</i> , 2004, 30, 774-783.	1.0	31
28	Functional recovery after cervical spinal cord injury: Role of neurotrophin and glutamatergic signaling in phrenic motoneurons. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 128-136.	0.7	30
29	Impact of unilateral denervation on transdiaphragmatic pressure. <i>Respiratory Physiology and Neurobiology</i> , 2015, 210, 14-21.	0.7	29
30	Novel method for transdiaphragmatic pressure measurements in mice. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 56-59.	0.7	28
31	Convergence of Pattern Generator Outputs on a Common Mechanism of Diaphragm Motor Unit Recruitment. <i>Progress in Brain Research</i> , 2014, 209, 309-329.	0.9	28
32	Motoneuron glutamatergic receptor expression following recovery from cervical spinal hemisection. <i>Journal of Comparative Neurology</i> , 2017, 525, 1192-1205.	0.9	28
33	EMG-Based Detection of Inspiration in the Rat Diaphragm Muscle. , 2006, 2006, 1204-7.		27
34	A novel approach for targeted delivery to motoneurons using cholera toxin-B modified protocells. <i>Journal of Neuroscience Methods</i> , 2016, 273, 160-174.	1.3	26
35	Fishing for understanding: Unlocking the zebrafish gene editor's toolbox. <i>Methods</i> , 2018, 150, 3-10.	1.9	22
36	Chronic TrkB agonist treatment in old age does not mitigate diaphragm neuromuscular dysfunction. <i>Physiological Reports</i> , 2017, 5, e13103.	0.7	21

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37	Correlation of respiratory activity of contralateral diaphragm muscles for evaluation of recovery following hemiparesis. , 2009, 2009, 404-7.		20
38	Impaired Autophagy in Motor Neurons: A Final Common Mechanism of Injury and Death. <i>Physiology</i> , 2018, 33, 211-224.	1.6	20
39	Glutamatergic input varies with phrenic motor neuron size. <i>Journal of Neurophysiology</i> , 2019, 122, 1518-1529.	0.9	19
40	Acute intrathecal BDNF enhances functional recovery after cervical spinal cord injury in rats. <i>Journal of Neurophysiology</i> , 2021, 125, 2158-2165.	0.9	17
41	Phrenic motoneuron structural plasticity across models of diaphragm muscle paralysis. <i>Journal of Comparative Neurology</i> , 2018, 526, 2973-2983.	0.9	16
42	Disproportionate loss of excitatory inputs to smaller phrenic motor neurons following cervical spinal hemisection. <i>Journal of Physiology</i> , 2020, 598, 4693-4711.	1.3	16
43	Uptake and intracellular fate of cholera toxin subunit b-modified mesoporous silica nanoparticle-supported lipid bilayers (aka protocells) in motoneurons. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 661-672.	1.7	15
44	Impact of glutamatergic and serotonergic neurotransmission on diaphragm muscle activity after cervical spinal hemisection. <i>Journal of Neurophysiology</i> , 2017, 118, 1732-1738.	0.9	13
45	The Gene Sculpt Suite: a set of tools for genome editing. <i>Nucleic Acids Research</i> , 2019, 47, W175-W182.	6.5	13
46	Quantifying mitochondrial volume density in phrenic motor neurons. <i>Journal of Neuroscience Methods</i> , 2021, 353, 109093.	1.3	12
47	Diaphragm muscle activity across respiratory motor behaviors in awake and lightly anesthetized rats. <i>Journal of Applied Physiology</i> , 2018, 124, 915-922.	1.2	9
48	Deploying MMEJ using MENdel in precision gene editing applications for gene therapy and functional genomics. <i>Nucleic Acids Research</i> , 2021, 49, 67-78.	6.5	8
49	Cervical spinal hemisection alters phrenic motor neuron glutamatergic mRNA receptor expression. <i>Experimental Neurology</i> , 2022, 353, 114030.	2.0	7
50	ssDNA and the Argonauts: The Quest for the Next Golden Editor. <i>Human Gene Therapy</i> , 2016, 27, 419-422.	1.4	6
51	Gene therapy and respiratory neuroplasticity. <i>Experimental Neurology</i> , 2017, 287, 261-267.	2.0	4
52	Chimeric RNA: DNA TracrRNA Improves Homology-Directed Repair <i>In Vitro</i> and <i>In Vivo</i> . <i>CRISPR Journal</i> , 2022, 5, 40-52.	1.4	1