Margaret T T Wong-riley

List of Publications by Year
in descending order

64 papers	5,456 citations	178989 28 h-index	115152 63 g-index
64 all docs	64 docs citations	64 times ranked	5390 citing authors

#	Article	IF	Citations
1	The critical period: neurochemical and synaptic mechanisms shared by the visual cortex and the brain stem respiratory system. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211025.	2.8	12
2	Mechanisms underlying a critical period of respiratory development in the rat. Respiratory Physiology and Neurobiology, 2019, 264, 40-50.	1.7	26
3	Pituitary adenylate cyclase-activating polypeptide: Postnatal development in multiple brain stem respiratory-related nuclei in the rat. Respiratory Physiology and Neurobiology, 2019, 259, 149-155.	1.7	10
4	Effects of neonatal hyperoxia on the critical period of postnatal development of neurochemical expressions in brain stem respiratory-related nuclei in the rat. Physiological Reports, 2018, 6, e13627.	1.8	12
5	Uncovering a critical period of synaptic imbalance during postnatal development of the rat visual cortex: role of brainâ€derived neurotrophic factor. Journal of Physiology, 2018, 596, 4511-4536.	2.9	20
6	Transcriptional Regulation of Brain-derived Neurotrophic Factor Coding Exon IX. Journal of Biological Chemistry, 2016, 291, 22583-22593.	3.5	19
7	Specificity protein 4 (Sp4) transcriptionally regulates inhibitory GABAergic receptors in neurons. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1-9.	4.1	12
8	Reduced levels of brainâ€derived neurotrophic factor contribute to synaptic imbalance during the critical period of respiratory development in rats. European Journal of Neuroscience, 2014, 40, 2183-2195.	3.5	14
9	Regulation of <scp>N</scp>a⁺/<scp>K</scp>⁺â€<scp>ATP</scp>ase by neuronâ€specific transcription factor <scp>S</scp>p4: implication in the tight coupling of energy production, neuronal activity and energy consumption in neurons. European Journal of Neuroscience, 2014, 39, 566-578.	3.5	27
10	Nuclear respiratory factor 2 regulates the transcription of AMPA receptor subunit GluA2 (Gria2). Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 3018-3028.	4.1	9
11	Specificity protein 4 (Sp4) regulates the transcription of AMPA receptor subunit GluA2 (Gria2). Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1196-1206.	4.1	18
12	Postnatal development of glycine receptor subunits Î±1, Î±2, Î±3, and Î² immunoreactivity in multiple brain stem respiratory-related nuclear groups of the rat. Brain Research, 2013, 1538, 1-16.	2.3	32
13	Postnatal development of brainâ€derived neurotrophic factor (BDNF) and tyrosine protein kinase B (TrkB) receptor immunoreactivity in multiple brain stem respiratoryâ€related nuclei of the rat. Journal of Comparative Neurology, 2013, 521, 109-129.	2.0	24
14	Gender considerations in ventilatory and metabolic development in rats: Special emphasis on the critical period. Respiratory Physiology and Neurobiology, 2013, 188, 200-207.	1.7	8
15	Specificity protein 4 functionally regulates the transcription of NMDA receptor subunits GluN1, GluN2A, and GluN2B. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2745-2756.	4.1	25
16	Nuclear respiratory factor 2 regulates the expression of the same NMDA receptor subunit genes as NRF-1: Both factors act by a concurrent and parallel mechanism to couple energy metabolism and synaptic transmission. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 48-58.	4.1	18
17	Peripheralâ€“central chemoreceptor interaction and the significance of a critical period in the development of respiratory control. Respiratory Physiology and Neurobiology, 2013, 185, 156-169.	1.7	45
18	Neuronâ€specific specificity protein 4 bigenomically regulates the transcription of all mitochondriaâ€• and nucleusâ€encoded cytochrome <i>c</i> oxidase subunit genes in neurons. Journal of Neurochemistry, 2013, 127, 496-508.	4.0	23

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19	The kinesin superfamily protein KIF17: one protein with many functions. Biomolecular Concepts, 2012, 3, 267-282.	2.2	39
20	Regulation of Na+/K+-ATPase by Nuclear Respiratory Factor 1. Journal of Biological Chemistry, 2012, 287, 40381-40390.	3.5	21
21	5-HT induces enhanced phrenic nerve activity via 5-HT2A receptor/PKC mechanism in anesthetized rats. European Journal of Pharmacology, 2011, 657, 67-75.	3.6	19
22	The kinesin superfamily protein KIF17 is regulated by the same transcription factor (NRF-1) as its cargo NR2B in neurons. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 403-411.	4.1	19
23	p38 mitogenâ€activated protein kinase and calcium channels mediate signaling in depolarizationâ€induced activation of peroxisome proliferatorâ€activated receptor gamma coactivatorâ€1Î± in neurons. Journal of Neuroscience Research, 2010, 88, 640-649.	3.0	23
24	Postnatal changes in tryptophan hydroxylase and serotonin transporter immunoreactivity in multiple brainstem nuclei of the rat: Implications for a sensitive period. Journal of Comparative Neurology, 2010, 518, 1082-1097.	2.0	44
25	Energy metabolism of the visual system. Eye and Brain, 2010, 2, 99.	2.6	358
26	Chromosome Conformation Capture of All 13 Genomic Loci in the Transcriptional Regulation of the Multisubunit Bigenomic Cytochrome c Oxidase in Neurons. Journal of Biological Chemistry, 2009, 284, 18644-18650.	3.5	31
27	Transcriptional coupling of synaptic transmission and energy metabolism: Role of nuclear respiratory factor 1 in co-regulating neuronal nitric oxide synthase and cytochrome c oxidase genes in neurons. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1604-1613.	4.1	28
28	Pretreatment with near-infrared light via light-emitting diode provides added benefit against rotenone- and MPP+-induced neurotoxicity. Brain Research, 2008, 1243, 167-173.	2.3	103
29	Neurochemical and physiological correlates of a critical period of respiratory development in the rat. Respiratory Physiology and Neurobiology, 2008, 164, 28-37.	1.7	62
30	Nuclear Respiratory Factor 1 Regulates All Ten Nuclear-encoded Subunits of Cytochrome c Oxidase in Neurons. Journal of Biological Chemistry, 2008, 283, 3120-3129.	3.5	142
31	Clinical and Experimental Applications of NIR-LED Photobiomodulation. Photomedicine and Laser Surgery, 2006, 24, 121-128.	2.0	327
32	Nuclear respiratory factor 2 senses changing cellular energy demands and its silencing down-regulates cytochrome oxidase and other target gene mRNAs. Gene, 2006, 374, 39-49.	2.3	95
33	Activity-dependent regulation of nuclear respiratory factor-1, nuclear respiratory factor-2, and peroxisome proliferator-activated receptor gamma coactivator-1 in neurons. NeuroReport, 2006, 17, 401-405.	1.2	32
34	Developmental changes in the expression of GABAA receptor subunits Î±1, Î±2, and Î±3 in brain stem nuclei of rats. Brain Research, 2006, 1098, 129-138.	2.3	65
35	A group of neurokinin-1 receptor-immunoreactive neurons expressing phospho-extracellular signal-regulated protein kinases in the pre-BÃ¶tzinger complex of rats. Journal of Neuroscience Research, 2005, 80, 260-267.	3.0	9
36	Photobiomodulation Directly Benefits Primary Neurons Functionally Inactivated by Toxins. Journal of Biological Chemistry, 2005, 280, 4761-4771.	3.5	514

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37	Quantitative immuno-electron microscopic analysis of nuclear respiratory factor 2 alpha and beta subunits: Normal distribution and activity-dependent regulation in mammalian visual cortex. Visual Neuroscience, 2005, 22, 1-18.	1.0	15
38	Is nuclear respiratory factor 2 a master transcriptional coordinator for all ten nuclear-encoded cytochrome c oxidase subunits in neurons?. Gene, 2005, 360, 65-77.	2.3	103
39	Neurochemical development of brain stem nuclei involved in the control of respiration. Respiratory Physiology and Neurobiology, 2005, 149, 83-98.	1.7	101
40	Functional analysis of the rat cytochrome c oxidase subunit 6A1 promoter in primary neurons. Gene, 2004, 337, 163-171.	2.3	24
41	Mitochondrial signal transduction in accelerated wound and retinal healing by near-infrared light therapy. Mitochondrion, 2004, 4, 559-567.	3.6	395
42	Neuronal activity regulates protein and gene expressions of GluR2 in postnatal rat visual cortical neurons in culture. Journal of Neurocytology, 2003, 32, 71-78.	1.4	25
43	Effect of NASA Light-Emitting Diode Irradiation on Molecular Changes for Wound Healing in Diabetic Mice. Photomedicine and Laser Surgery, 2003, 21, 67-74.	1.1	180
44	AMPA glutamate receptor subunit 2 in normal and visually deprived macaque visual cortex. Visual Neuroscience, 2002, 19, 563-573.	1.0	29
45	Synthesis and degradation of cytochrome oxidase subunit mRNAs in neurons: Differential bigenomic regulation by neuronal activity. Journal of Neuroscience Research, 2000, 60, 338-344.	3.0	21
46	Effects of hindlimb unloading on neuromuscular development of neonatal rats. Developmental Brain Research, 2000, 119, 169-178.	1.8	26
47	Neurochemical organization of the macaque retina: effect of TTX on levels and gene expression of cytochrome oxidase and nitric oxide synthase and on the immunoreactivity of Na+K+ATPase and NMDA receptor subunit I. Vision Research, 1998, 38, 1455-1477.	1.5	49
48	Deafferentation leads to a down-regulation of nitric oxide synthase in the rat visual system. Neuroscience Letters, 1996, 211, 61-64.	2.1	19
49	Decreased rat brain cytochrome oxidase activity after prolonged hypoxia. Brain Research, 1996, 720, 1-6.	2.3	35
50	Do nitric oxide synthase, NMDA receptor subunit R1 and cytochrome oxidase co-localize in the rat central nervous system?. Brain Research, 1996, 729, 205-215.	2.3	34
51	Differential glutamatergic innervation in cytochrome oxidase-rich and -poor regions of the macaque striate cortex: Quantitative EM analysis of neurons and neuropil. Journal of Comparative Neurology, 1996, 369, 571-590.	2.0	39
52	Metabolic and neurochemical plasticity of ?-aminobutyric acid-immunoreactive neurons in the adult macaque striate cortex following monocular impulse blockade: Quantitative electron microscopic analysis. Journal of Comparative Neurology, 1996, 370, 350-366.	2.0	27
53	Mitochondrial- and nuclear-encoded subunits of cytochrome oxidase in neurons: Differences in compartmental distribution, correlation with enzyme activity, and regulation by neuronal activity. Journal of Comparative Neurology, 1996, 373, 139-155.	2.0	26
54	Activity correlates of cytochrome oxidase-defined compartments in granular and supragranular layers of primary visual cortex of the macaque monkey. Visual Neuroscience, 1995, 12, 629-639.	1.0	51

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55	An optimized method for determining cytochrome oxidase activity in brain tissue homogenates. Journal of Neuroscience Methods, 1993, 50, 309-319.	2.6	31
56	Effects of monocular enucleation, tetrodotoxin, and lid suture on cytochrome-oxidase reactivity in supragranular puffs of adult macaque striate cortex. Visual Neuroscience, 1990, 4, 185-204.	1.0	37
57	Cytochrome oxidase: an endogenous metabolic marker for neuronal activity. Trends in Neurosciences, 1989, 12, 94-101.	8.8	1,400
58	Double-labeling of rat Î±-motoneurons for cytochrome oxidase and retrogradely transported [3H]WGA. Brain Research, 1986, 368, 178-182.	2.3	19
59	Changes in endogenous enzymatic reactivity to DAB induced by neuronal inactivity. Brain Research, 1978, 141, 185-192.	2.3	166
60	Connections between the pulvinar nucleus and the prestriate cortex in the squirrel monkey as revealed by peroxidase histochemistry and autoradiography. Brain Research, 1977, 134, 249-267.	2.3	36
61	Projections from the dorsal lateral geniculate nucleus to prestriate cortex in the squirrel monkey as demonstrated by retrograde transport of horseradish peroxidase. Brain Research, 1976, 109, 595-600.	2.3	51
62	Endogenous peroxidatic activity in brain stem neurons as demonstrated by their staining with diaminobenzidine in normal squirrel monkeys. Brain Research, 1976, 108, 257-277.	2.3	158
63	Demonstration of geniculocortical and callosal projection neurons in the squirrel monkey by means of retrograde axonal transport of horseradish peroxidase. Brain Research, 1974, 79, 267-272.	2.3	72
64	Activity-Dependent Bigenomic Transcriptional Regulation of Cytochrome c Oxidase in Neurons. , 0, , 209-228.		2