

Margaret T T Wong-riley

List of Publications by Year in descending order

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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	Cytochrome oxidase: an endogenous metabolic marker for neuronal activity. Trends in Neurosciences, 1989, 12, 94-101.	8.8	1,400
2	Photobiomodulation Directly Benefits Primary Neurons Functionally Inactivated by Toxins. Journal of Biological Chemistry, 2005, 280, 4761-4771.	3.5	514
3	Mitochondrial signal transduction in accelerated wound and retinal healing by near-infrared light therapy. Mitochondrion, 2004, 4, 559-567.	3.6	395
4	Energy metabolism of the visual system. Eye and Brain, 2010, 2, 99.	2.6	358
5	Clinical and Experimental Applications of NIR-LED Photobiomodulation. Photomedicine and Laser Surgery, 2006, 24, 121-128.	2.0	327
6	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
7	Changes in endogenous enzymatic reactivity to DAB induced by neuronal inactivity. Brain Research, 1978, 141, 185-192.	2.3	166
8	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
9	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
10	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
11	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
12	Neurochemical development of brain stem nuclei involved in the control of respiration. Respiratory Physiology and Neurobiology, 2005, 149, 83-98.	1.7	101
13	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
14	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
15	Developmental changes in the expression of GABAA receptor subunits $\hat{1}\pm 1$, $\hat{1}\pm 2$, and $\hat{1}\pm 3$ in brain stem nuclei of rats. Brain Research, 2006, 1098, 129-138.	2.3	65
16	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
17	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
18	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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19	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. <i>Vision Research</i> , 1998, 38, 1455-1477.	1.5	49
20	Peripheral central chemoreceptor interaction and the significance of a critical period in the development of respiratory control. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 156-169.	1.7	45
21	Postnatal changes in tryptophan hydroxylase and serotonin transporter immunoreactivity in multiple brainstem nuclei of the rat: Implications for a sensitive period. <i>Journal of Comparative Neurology</i> , 2010, 518, 1082-1097.	2.0	44
22	Differential glutamatergic innervation in cytochrome oxidase-rich and -poor regions of the macaque striate cortex: Quantitative EM analysis of neurons and neuropil. <i>Journal of Comparative Neurology</i> , 1996, 369, 571-590.	2.0	39
23	The kinesin superfamily protein KIF17: one protein with many functions. <i>Biomolecular Concepts</i> , 2012, 3, 267-282.	2.2	39
24	Effects of monocular enucleation, tetrodotoxin, and lid suture on cytochrome-oxidase reactivity in supragranular puffs of adult macaque striate cortex. <i>Visual Neuroscience</i> , 1990, 4, 185-204.	1.0	37
25	Connections between the pulvinar nucleus and the prestriate cortex in the squirrel monkey as revealed by peroxidase histochemistry and autoradiography. <i>Brain Research</i> , 1977, 134, 249-267.	2.3	36
26	Decreased rat brain cytochrome oxidase activity after prolonged hypoxia. <i>Brain Research</i> , 1996, 720, 1-6.	2.3	35
27	Do nitric oxide synthase, NMDA receptor subunit R1 and cytochrome oxidase co-localize in the rat central nervous system?. <i>Brain Research</i> , 1996, 729, 205-215.	2.3	34
28	Activity-dependent regulation of nuclear respiratory factor-1, nuclear respiratory factor-2, and peroxisome proliferator-activated receptor gamma coactivator-1 in neurons. <i>NeuroReport</i> , 2006, 17, 401-405.	1.2	32
29	Postnatal development of glycine receptor subunits $\hat{1}\pm 1$, $\hat{1}\pm 2$, $\hat{1}\pm 3$, and $\hat{1}^2$ immunoreactivity in multiple brain stem respiratory-related nuclear groups of the rat. <i>Brain Research</i> , 2013, 1538, 1-16.	2.3	32
30	An optimized method for determining cytochrome oxidase activity in brain tissue homogenates. <i>Journal of Neuroscience Methods</i> , 1993, 50, 309-319.	2.6	31
31	Chromosome Conformation Capture of All 13 Genomic Loci in the Transcriptional Regulation of the Multisubunit Bigenomic Cytochrome c Oxidase in Neurons. <i>Journal of Biological Chemistry</i> , 2009, 284, 18644-18650.	3.5	31
32	AMPA glutamate receptor subunit 2 in normal and visually deprived macaque visual cortex. <i>Visual Neuroscience</i> , 2002, 19, 563-573.	1.0	29
33	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. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1604-1613.	4.1	28
34	Metabolic and neurochemical plasticity of γ -aminobutyric acid-immunoreactive neurons in the adult macaque striate cortex following monocular impulse blockade: Quantitative electron microscopic analysis. <i>Journal of Comparative Neurology</i> , 1996, 370, 350-366.	2.0	27
35	Regulation of $N^{+}K^{+}$ -ATPase by neuron-specific transcription factor $S^{p}4$: implication in the tight coupling of energy production, neuronal activity and energy consumption in neurons. <i>European Journal of Neuroscience</i> , 2014, 39, 566-578.	3.5	27
36	Mitochondrial- and nuclear-encoded subunits of cytochrome oxidase in neurons: Differences in compartmental distribution, correlation with enzyme activity, and regulation by neuronal activity. <i>Journal of Comparative Neurology</i> , 1996, 373, 139-155.	2.0	26

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37	Effects of hindlimb unloading on neuromuscular development of neonatal rats. <i>Developmental Brain Research</i> , 2000, 119, 169-178.	1.8	26
38	Mechanisms underlying a critical period of respiratory development in the rat. <i>Respiratory Physiology and Neurobiology</i> , 2019, 264, 40-50.	1.7	26
39	Neuronal activity regulates protein and gene expressions of GluR2 in postnatal rat visual cortical neurons in culture. <i>Journal of Neurocytology</i> , 2003, 32, 71-78.	1.4	25
40	Specificity protein 4 functionally regulates the transcription of NMDA receptor subunits GluN1, GluN2A, and GluN2B. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 2745-2756.	4.1	25
41	Functional analysis of the rat cytochrome c oxidase subunit 6A1 promoter in primary neurons. <i>Gene</i> , 2004, 337, 163-171.	2.3	24
42	Postnatal development of brain-derived neurotrophic factor (BDNF) and tyrosine protein kinase B (TrkB) receptor immunoreactivity in multiple brain stem respiratory-related nuclei of the rat. <i>Journal of Comparative Neurology</i> , 2013, 521, 109-129.	2.0	24
43	p38 mitogen-activated protein kinase and calcium channels mediate signaling in depolarization-induced activation of peroxisome proliferator-activated receptor gamma coactivator-1 β in neurons. <i>Journal of Neuroscience Research</i> , 2010, 88, 640-649.	3.0	23
44	Neuron-specific specificity protein 4 bigenomically regulates the transcription of all mitochondria- and nucleus-encoded cytochrome c oxidase subunit genes in neurons. <i>Journal of Neurochemistry</i> , 2013, 127, 496-508.	4.0	23
45	Synthesis and degradation of cytochrome oxidase subunit mRNAs in neurons: Differential bigenomic regulation by neuronal activity. <i>Journal of Neuroscience Research</i> , 2000, 60, 338-344.	3.0	21
46	Regulation of Na ⁺ /K ⁺ -ATPase by Nuclear Respiratory Factor 1. <i>Journal of Biological Chemistry</i> , 2012, 287, 40381-40390.	3.5	21
47	Uncovering a critical period of synaptic imbalance during postnatal development of the rat visual cortex: role of brain-derived neurotrophic factor. <i>Journal of Physiology</i> , 2018, 596, 4511-4536.	2.9	20
48	Double-labeling of rat \pm -motoneurons for cytochrome oxidase and retrogradely transported [3H]WGA. <i>Brain Research</i> , 1986, 368, 178-182.	2.3	19
49	Deafferentation leads to a down-regulation of nitric oxide synthase in the rat visual system. <i>Neuroscience Letters</i> , 1996, 211, 61-64.	2.1	19
50	5-HT induces enhanced phrenic nerve activity via 5-HT _{2A} receptor/PKC mechanism in anesthetized rats. <i>European Journal of Pharmacology</i> , 2011, 657, 67-75.	3.6	19
51	The kinesin superfamily protein KIF17 is regulated by the same transcription factor (NRF-1) as its cargo NR2B in neurons. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 403-411.	4.1	19
52	Transcriptional Regulation of Brain-derived Neurotrophic Factor Coding Exon IX. <i>Journal of Biological Chemistry</i> , 2016, 291, 22583-22593.	3.5	19
53	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. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 48-58.	4.1	18
54	Specificity protein 4 (Sp4) regulates the transcription of AMPA receptor subunit GluA2 (Gria2). <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1196-1206.	4.1	18

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55	Quantitative immuno-electron microscopic analysis of nuclear respiratory factor 2 alpha and beta subunits: Normal distribution and activity-dependent regulation in mammalian visual cortex. <i>Visual Neuroscience</i> , 2005, 22, 1-18.	1.0	15
56	Reduced levels of brain-derived neurotrophic factor contribute to synaptic imbalance during the critical period of respiratory development in rats. <i>European Journal of Neuroscience</i> , 2014, 40, 2183-2195.	3.5	14
57	Specificity protein 4 (Sp4) transcriptionally regulates inhibitory GABAergic receptors in neurons. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 1-9.	4.1	12
58	Effects of neonatal hyperoxia on the critical period of postnatal development of neurochemical expressions in brain stem respiratory-related nuclei in the rat. <i>Physiological Reports</i> , 2018, 6, e13627.	1.8	12
59	The critical period: neurochemical and synaptic mechanisms shared by the visual cortex and the brain stem respiratory system. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211025.	2.8	12
60	Pituitary adenylate cyclase-activating polypeptide: Postnatal development in multiple brain stem respiratory-related nuclei in the rat. <i>Respiratory Physiology and Neurobiology</i> , 2019, 259, 149-155.	1.7	10
61	A group of neurokinin-1 receptor-immunoreactive neurons expressing phospho-extracellular signal-regulated protein kinases in the pre-Bötzing complex of rats. <i>Journal of Neuroscience Research</i> , 2005, 80, 260-267.	3.0	9
62	Nuclear respiratory factor 2 regulates the transcription of AMPA receptor subunit GluA2 (Gria2). <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 3018-3028.	4.1	9
63	Gender considerations in ventilatory and metabolic development in rats: Special emphasis on the critical period. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 200-207.	1.7	8
64	Activity-Dependent Bigenomic Transcriptional Regulation of Cytochrome c Oxidase in Neurons. , 0, , 209-228.		2