

Matthew E Pamenter

List of Publications by Year in descending order

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83
papers

2,005
citations

201674
27
h-index

302126
39
g-index

85
all docs

85
docs citations

85
times ranked

1528
citing authors

#	ARTICLE	IF	CITATIONS
1	Time Domains of the Hypoxic Ventilatory Response and Their Molecular Basis. , 2016, 6, 1345-1385.		97
2	Adaptive responses of vertebrate neurons to anoxiaâ€”Matching supply to demand. Respiratory Physiology and Neurobiology, 2006, 154, 226-240.	1.6	85
3	Hypoxia induces Kv channel current inhibition by increased NADPH oxidase-derived reactive oxygen species. Free Radical Biology and Medicine, 2012, 52, 1033-1042.	2.9	68
4	The exceptional longevity of the naked moleâ€”rat may be explained by mitochondrial antioxidant defenses. Aging Cell, 2019, 18, e12916.	6.7	67
5	Mitochondria: a multimodal hub of hypoxia tolerance. Canadian Journal of Zoology, 2014, 92, 569-589.	1.0	63
6	The naked truth: a comprehensive clarification and classification of current â€”mythsâ€”™ in naked moleâ€”rat biology. Biological Reviews, 2022, 97, 115-140.	10.4	62
7	Endogenous GABA _A and GABA _B receptor-mediated electrical suppression is critical to neuronal anoxia tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11274-11279.	7.1	61
8	Anoxia-induced changes in reactive oxygen species and cyclic nucleotides in the painted turtle. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2007, 177, 473-481.	1.5	59
9	Oxygen in demand: How oxygen has shaped vertebrate physiology. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 186, 4-26.	1.8	54
10	Behavioural responses of naked mole rats to acute hypoxia and anoxia. Biology Letters, 2017, 13, 20170545.	2.3	51
11	Cross-Species Insights Into Genomic Adaptations to Hypoxia. Frontiers in Genetics, 2020, 11, 743.	2.3	48
12	Glutamate receptors in the nucleus tractus solitarius contribute to ventilatory acclimatization to hypoxia in rat. Journal of Physiology, 2014, 592, 1839-1856.	2.9	46
13	Mitochondrial ATPâ€”sensitive K ⁺ channels regulate NMDAR activity in the cortex of the anoxic western painted turtle. Journal of Physiology, 2008, 586, 1043-1058.	2.9	45
14	Do naked mole rats accumulate a metabolic acidosis or an oxygen debt in severe hypoxia?. Journal of Experimental Biology, 2019, 222, .	1.7	45
15	The hypoxia-tolerant vertebrate brain: Arresting synaptic activity. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 61-70.	1.6	42
16	Autophagy and Apoptosis Are Differentially Induced in Neurons and Astrocytes Treated with an In Vitro Mimic of the Ischemic Penumbra. PLoS ONE, 2012, 7, e51469.	2.5	42
17	Piscine insights into comparisons of anoxia tolerance, ammonia toxicity, stroke and hepatic encephalopathy. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 147, 332-343.	1.8	41
18	Î”-Opioid receptor antagonism induces NMDA receptor-dependent excitotoxicity in anoxic turtle cortex. Journal of Experimental Biology, 2008, 211, 3512-3517.	1.7	41

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19	The hypoxia tolerance of eight related African mole-rat species rivals that of naked mole-rats, despite divergent ventilatory and metabolic strategies in severe hypoxia. <i>Acta Physiologica</i> , 2020, 228, e13436.	3.8	41
20	Naked mole rats exhibit metabolic but not ventilatory plasticity following chronic sustained hypoxia. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160216.	2.6	40
21	Adenosine receptors mediate the hypoxic ventilatory response but not the hypoxic metabolic response in the naked mole rat during acute hypoxia. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141722.	2.6	39
22	Naked mole rat brain mitochondria electron transport system flux and H ⁺ leak are reduced during acute hypoxia. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	39
23	Atypical behavioural, metabolic and thermoregulatory responses to hypoxia in the naked mole rat (<i>Heterocephalus glaber</i>). <i>Journal of Zoology</i> , 2018, 305, 106-115.	1.7	38
24	Mitochondrial responses to prolonged anoxia in brain of red-eared slider turtles. <i>Biology Letters</i> , 2016, 12, 20150797.	2.3	37
25	Comparative studies of mitochondrial reactive oxygen species in animal longevity: Technical pitfalls and possibilities. <i>Aging Cell</i> , 2019, 18, e13009.	6.7	35
26	Mitochondrial but not plasmalemmal BK channels are hypoxia-sensitive in human glioma. <i>Glia</i> , 2014, 62, 504-513.	4.9	33
27	Evidence of anoxia-induced channel arrest in the brain of the goldfish (<i>Carassius auratus</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2008, 148, 355-362.	2.6	29
28	Decreases in mitochondrial reactive oxygen species initiate GABA _A receptor-mediated electrical suppression in anoxia-tolerant turtle neurons. <i>Journal of Physiology</i> , 2015, 593, 2311-2326.	2.9	29
29	Naked mole-rat brown fat thermogenesis is diminished during hypoxia through a rapid decrease in UCP1. <i>Nature Communications</i> , 2021, 12, 6801.	12.8	29
30	Naked mole-rats suppress energy metabolism and modulate membrane cholesterol in chronic hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 319, R148-R155.	1.8	28
31	Post-Translational Deimination of Immunological and Metabolic Protein Markers in Plasma and Extracellular Vesicles of Naked Mole-Rat (<i>Heterocephalus glaber</i>). <i>International Journal of Molecular Sciences</i> , 2019, 20, 5378.	4.1	27
32	The relationship between NMDA receptor function and the high ammonia tolerance of anoxia-tolerant goldfish. <i>Journal of Experimental Biology</i> , 2011, 214, 4107-4120.	1.7	26
33	Divergent behavioural responses to acute hypoxia between individuals and groups of naked mole rats. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2018, 224, 38-44.	1.6	26
34	Goldfish Response to Chronic Hypoxia: Mitochondrial Respiration, Fuel Preference and Energy Metabolism. <i>Metabolites</i> , 2021, 11, 187.	2.9	26
35	Adaptations to a hypoxic lifestyle in naked mole-rats. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	26
36	Painted Turtle Cortex is Resistant to an <i>In Vitro</i> Mimic of the Ischemic Mammalian Penumbra. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 2033-2043.	4.3	23

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37	The brains of six African mole-rat species show divergent responses to hypoxia. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	23
38	Glutamatergic Receptors Modulate Normoxic but Not Hypoxic Ventilation and Metabolism in Naked Mole Rats. <i>Frontiers in Physiology</i> , 2019, 10, 106.	2.8	20
39	An in vitro ischemic penumbral mimic perfusate increases NADPH oxidase-mediated superoxide production in cultured hippocampal neurons. <i>Brain Research</i> , 2012, 1452, 165-172.	2.2	19
40	Adenosine A1 receptor activation mediates NMDA receptor activity in a pertussis toxin-sensitive manner during normoxia but not anoxia in turtle cortical neurons. <i>Brain Research</i> , 2008, 1213, 27-34.	2.2	18
41	The effect of combined glutamate receptor blockade in the NTS on the hypoxic ventilatory response in awake rats differs from the effect of individual glutamate receptor blockade. <i>Physiological Reports</i> , 2014, 2, e12092.	1.7	16
42	Ventilatory, metabolic, and thermoregulatory responses of Damaraland mole rats to acute and chronic hypoxia. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2019, 189, 319-334.	1.5	16
43	Hypoxic naked mole-rat brains use microRNA to coordinate hypometabolic fuels and neuroprotective defenses. <i>Journal of Cellular Physiology</i> , 2021, 236, 5080-5097.	4.1	16
44	Naked mole-rat brain mitochondria tolerate <i>in vitro</i> ischaemia. <i>Journal of Physiology</i> , 2021, 599, 4671-4685.	2.9	16
45	Effects of cold on murine brain mitochondrial function. <i>PLoS ONE</i> , 2018, 13, e0208453.	2.5	15
46	Behavioural responses to environmental hypercapnia in two eusocial species of African mole rats. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2018, 204, 811-819.	1.6	14
47	Neurokinin-1 receptor activation is sufficient to restore the hypercapnic ventilatory response in the Substance P-deficient naked mole-rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R712-R721.	1.8	13
48	Naked mole-rat skeletal muscle mitochondria exhibit minimal functional plasticity in acute or chronic hypoxia. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2021, 255, 110596.	1.6	13
49	Metabolomic Analysis of Carbohydrate and Amino Acid Changes Induced by Hypoxia in Naked Mole-Rat Brain and Liver. <i>Metabolites</i> , 2022, 12, 56.	2.9	13
50	No evidence of a role for neuronal nitric oxide synthase in the nucleus tractus solitarius in ventilatory responses to acute or chronic hypoxia in awake rats. <i>Journal of Applied Physiology</i> , 2015, 118, 750-759.	2.5	12
51	Differential protein phosphorylation is responsible for hypoxia-induced regulation of the Akt/mTOR pathway in naked mole rats. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 242, 110653.	1.8	12
52	Fossorial Damaraland mole rats do not exhibit a blunted hypercapnic ventilatory response. <i>Biology Letters</i> , 2019, 15, 20190006.	2.3	11
53	Naked mole rats reduce the expression of ATP-dependent but not ATP-independent heat shock proteins in acute hypoxia. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	11
54	DIDS (4,4-Diisothiocyanatostilbenedisulphonic Acid) Induces Apoptotic Cell Death in a Hippocampal Neuronal Cell Line and Is Not Neuroprotective against Ischemic Stress. <i>PLoS ONE</i> , 2013, 8, e60804.	2.5	11

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55	DIDS Prevents Ischemic Membrane Degradation in Cultured Hippocampal Neurons by Inhibiting Matrix Metalloproteinase Release. PLoS ONE, 2012, 7, e43995.	2.5	10
56	Evaporative cooling and vasodilation mediate thermoregulation in naked mole-rats during normoxia but not hypoxia. Journal of Thermal Biology, 2019, 84, 228-235.	2.5	10
57	Naked mole rats activate neuroprotective proteins during hypoxia. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2019, 331, 571-576.	1.9	10
58	Na ⁺ /K ⁺ -ATPase activity is regionally regulated by acute hypoxia in naked mole-rat brain. Neuroscience Letters, 2021, 764, 136244.	2.1	10
59	Signalling mechanisms of long term facilitation of breathing with intermittent hypoxia. F1000prime Reports, 2013, 5, 23.	5.9	10
60	What to do with low O ₂ : Redox adaptations in vertebrates native to hypoxic environments. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 271, 111259.	1.8	9
61	Fossorial giant Zambian mole-rats have blunted ventilatory responses to environmental hypoxia and hypercapnia. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 243, 110672.	1.8	8
62	MicroRNA-mediated inhibition of AMPK coordinates tissue-specific downregulation of skeletal muscle metabolism in hypoxic naked mole-rats. Journal of Experimental Biology, 2021, 224, .	1.7	8
63	Burrowing star-nosed moles (<i>Condylura cristata</i>) are not hypoxia tolerant. Journal of Experimental Biology, 2021, 224, .	1.7	7
64	Profound metabolic depression in the hypoxia-tolerant naked mole rat (879.2). FASEB Journal, 2014, 28, 879.2.	0.5	7
65	Endogenous reductions in N-methyl-D-aspartate receptor activity inhibit nitric oxide production in the anoxic freshwater turtle cortex. FEBS Letters, 2008, 582, 1738-1742.	2.8	6
66	Evidence that Evolution of the Diabetes Susceptibility Gene SLC30A8 that Encodes the Zinc Transporter ZnT8 Drives Variations in Pancreatic Islet Zinc Content in Multiple Species. Journal of Molecular Evolution, 2019, 87, 147-151.	1.8	6
67	Nitric oxide homeostasis is maintained during acute in vitro hypoxia and following reoxygenation in naked mole-rat but not mouse cortical neurons. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 250, 110792.	1.8	6
68	Utilizing comparative models in biomedical research. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2021, 255, 110593.	1.6	6
69	Supermole-rat to the rescue: Does the naked mole-rat offer a panacea for all that ails us?. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 266, 111139.	1.8	6
70	Different patterns of chronic hypoxia lead to hierarchical adaptive mechanisms in goldfish metabolism. Journal of Experimental Biology, 2022, 225, .	1.7	5
71	Comparative insights into mitochondrial adaptations to anoxia in brain. Neural Regeneration Research, 2016, 11, 723.	3.0	4
72	Lactate inhibits naked mole-rat cardiac mitochondrial respiration. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2022, , 1.	1.5	4

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73	Low Cancer Incidence in Naked Mole-Rats May Be Related to Their Inability to Express the Warburg Effect. <i>Frontiers in Physiology</i> , 2022, 13, .	2.8	4
74	Do BK channels mediate glioma hypoxia-tolerance?. <i>Channels</i> , 2014, 8, 176-177.	2.8	3
75	Longevity or hypoxia: who's driving?. <i>Aging</i> , 2019, 11, 5864-5865.	3.1	3
76	High-Throughput Cell Death Assays. <i>Methods in Molecular Biology</i> , 2015, 1254, 153-163.	0.9	2
77	Acute Hypoxia Alters Extracellular Vesicle Signatures and the Brain Citrullinome of Naked Mole-Rats (<i>Heterocephalus glaber</i>). <i>International Journal of Molecular Sciences</i> , 2022, 23, 4683.	4.1	2
78	Acute pH alterations do not impact cardiac mitochondrial respiration in naked mole-rats or mice. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2022, 268, 111185.	1.8	1
79	Dynamic calculation of ATP/O ratios measured using Magnesium Green (MgGr)â„¢. <i>MethodsX</i> , 2021, 8, 101520.	1.6	0
80	Neuroprotective Interactions Between Delta-Opioid Receptors and Glutamatergic Signaling Mediate Hypoxia-Tolerance in Brain. , 2015, , 363-388.		0
81	Huff and Puff or Shut'er Down: Hypoxiaâ€™Tolerant Mammals Respond Differently to Low Oxygen. <i>FASEB Journal</i> , 2015, 29, 686.3.	0.5	0
82	Sweet Success: Metabolic Substrate Adaptations To Acute Hypoxia In The Naked Mole Rat (<i>Heterocephalus Glaber</i>). <i>FASEB Journal</i> , 2018, 32, 858.8.	0.5	0
83	Phrenic Nerve and Carotid Body Responses to Hypoxia and CO 2 in Naked Mole Rats. <i>FASEB Journal</i> , 2019, 33, 1b576.	0.5	0