Matthew E Pamenter

List of Publications by Year
in descending order

83 papers	2,005 citations	230014 27 h-index	340414 39 g-index
85 all docs	85 docs citations	85 times ranked	1671 citing authors

#	ARTICLE	IF	CITATIONS
1	The naked truth: a comprehensive clarification and classification of current â€˜mythsâ€™ in naked moleâ€rat biology. Biological Reviews, 2022, 97, 115-140.	4.7	62
2	Metabolomic Analysis of Carbohydrate and Amino Acid Changes Induced by Hypoxia in Naked Mole-Rat Brain and Liver. Metabolites, 2022, 12, 56.	1.3	13
3	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.	0.8	6
4	Different patterns of chronic hypoxia lead to hierarchical adaptive mechanisms in goldfish metabolism. Journal of Experimental Biology, 2022, 225, .	0.8	5
5	Adaptations to a hypoxic lifestyle in naked mole-rats. Journal of Experimental Biology, 2022, 225, .	0.8	26
6	Lactate inhibits naked mole-rat cardiac mitochondrial respiration. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2022, , 1.	0.7	4
7	Acute pH alterations do not impact cardiac mitochondrial respiration in naked mole-rats or mice. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 268, 111185.	0.8	1
8	Acute Hypoxia Alters Extracellular Vesicle Signatures and the Brain Citrullinome of Naked Mole-Rats (Heterocephalus glaber). International Journal of Molecular Sciences, 2022, 23, 4683.	1.8	2
9	Low Cancer Incidence in Naked Mole-Rats May Be Related to Their Inability to Express the Warburg Effect. Frontiers in Physiology, 2022, 13, .	1.3	4
10	What to do with low O2: Redox adaptations in vertebrates native to hypoxic environments. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 271, 111259.	0.8	9
11	Hypoxic naked moleâ€“rat brains use microRNA to coordinate hypometabolic fuels and neuroprotective defenses. Journal of Cellular Physiology, 2021, 236, 5080-5097.	2.0	16
12	Dynamic calculation of ATP/O ratios measured using Magnesium Green (MgGr)â„¢. MethodsX, 2021, 8, 101520.	0.7	0
13	Goldfish Response to Chronic Hypoxia: Mitochondrial Respiration, Fuel Preference and Energy Metabolism. Metabolites, 2021, 11, 187.	1.3	26
14	Utilizing comparative models in biomedical research. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2021, 255, 110593.	0.7	6
15	Naked mole-rat skeletal muscle mitochondria exhibit minimal functional plasticity in acute or chronic hypoxia. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2021, 255, 110596.	0.7	13
16	MicroRNA-mediated inhibition of AMPK coordinates tissue-specific downregulation of skeletal muscle metabolism in hypoxic naked mole-rats. Journal of Experimental Biology, 2021, 224, .	0.8	8
17	Naked moleâ€rat brain mitochondria tolerate <i>in vitro</i> ischaemia. Journal of Physiology, 2021, 599, 4671-4685.	1.3	16
18	Burrowing star-nosed moles (<i>Condylura cristata</i>) are not hypoxia tolerant. Journal of Experimental Biology, 2021, 224, .	0.8	7

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19	Na+/K+-ATPase activity is regionally regulated by acute hypoxia in naked mole-rat brain. Neuroscience Letters, 2021, 764, 136244.	1.0	10
20	Naked mole-rat brown fat thermogenesis is diminished during hypoxia through a rapid decrease in UCP1. Nature Communications, 2021, 12, 6801.	5.8	29
21	The hypoxia tolerance of eight related African moleâ€rat species rivals that of naked moleâ€rats, despite divergent ventilatory and metabolic strategies in severe hypoxia. Acta Physiologica, 2020, 228, e13436.	1.8	41
22	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.	0.8	6
23	Naked mole-rats suppress energy metabolism and modulate membrane cholesterol in chronic hypoxia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R148-R155.	0.9	28
24	Cross-Species Insights Into Genomic Adaptations to Hypoxia. Frontiers in Genetics, 2020, 11, 743.	1.1	48
25	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.	0.8	8
26	The brains of six African mole-rat species show divergent responses to hypoxia. Journal of Experimental Biology, 2020, 223, .	0.8	23
27	Neurokinin-1 receptor activation is sufficient to restore the hypercapnic ventilatory response in the Substance P-deficient naked mole-rat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R712-R721.	0.9	13
28	Differential protein phosphorylation is responsible for hypoxia-induced regulation of the Akt/mTOR pathway in naked mole rats. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 242, 110653.	0.8	12
29	Do naked mole rats accumulate a metabolic acidosis or an oxygen debt in severe hypoxia?. Journal of Experimental Biology, 2019, 222, .	0.8	45
30	Evaporative cooling and vasodilation mediate thermoregulation in naked mole-rats during normoxia but not hypoxia. Journal of Thermal Biology, 2019, 84, 228-235.	1.1	10
31	Comparative studies of mitochondrial reactive oxygen species in animal longevity: Technical pitfalls and possibilities. Aging Cell, 2019, 18, e13009.	3.0	35
32	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.	0.8	6
33	Post-Translational Deimination of Immunological and Metabolic Protein Markers in Plasma and Extracellular Vesicles of Naked Mole-Rat (Heterocephalus glaber). International Journal of Molecular Sciences, 2019, 20, 5378.	1.8	27
34	Naked mole rats activate neuroprotective proteins during hypoxia. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2019, 331, 571-576.	0.9	10
35	Fossorial Damaraland mole rats do not exhibit a blunted hypercapnic ventilatory response. Biology Letters, 2019, 15, 20190006.	1.0	11
36	Glutamatergic Receptors Modulate Normoxic but Not Hypoxic Ventilation and Metabolism in Naked Mole Rats. Frontiers in Physiology, 2019, 10, 106.	1.3	20

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37	Ventilatory, metabolic, and thermoregulatory responses of Damaraland mole rats to acute and chronic hypoxia. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2019, 189, 319-334.	0.7	16
38	The exceptional longevity of the naked moleâ€rat may be explained by mitochondrial antioxidant defenses. Aging Cell, 2019, 18, e12916.	3.0	67
39	Naked mole rats reduce the expression of ATP-dependent but not ATP-independent heat shock proteins in acute hypoxia. Journal of Experimental Biology, 2019, 222, .	0.8	11
40	Phrenic Nerve and Carotid Body Responses to Hypoxia and CO 2 in Naked Mole Rats. FASEB Journal, 2019, 33, lb576.	0.2	0
41	Longevity or hypoxia: whoâ€™s driving?. Aging, 2019, 11, 5864-5865.	1.4	3
42	Naked mole rat brain mitochondria electron transport system flux and H+ leak are reduced during acute hypoxia. Journal of Experimental Biology, 2018, 221, .	0.8	39
43	Atypical behavioural, metabolic and thermoregulatory responses to hypoxia in the naked mole rat (<i>Heterocephalus glaber</i>). Journal of Zoology, 2018, 305, 106-115.	0.8	38
44	Divergent behavioural responses to acute hypoxia between individuals and groups of naked mole rats. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 38-44.	0.7	26
45	The hypoxia-tolerant vertebrate brain: Arresting synaptic activity. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 61-70.	0.7	42
46	Effects of cold on murine brain mitochondrial function. PLoS ONE, 2018, 13, e0208453.	1.1	15
47	Behavioural responses to environmental hypercapnia in two eusocial species of African mole rats. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 811-819.	0.7	14
48	Sweet Success: Metabolic Substrate Adaptations To Acute Hypoxia In The Naked Mole Rat (Heterocephalus Glaber). FASEB Journal, 2018, 32, 858.8.	0.2	0
49	Behavioural responses of naked mole rats to acute hypoxia and anoxia. Biology Letters, 2017, 13, 20170545.	1.0	51
50	Time Domains of the Hypoxic Ventilatory Response and Their Molecular Basis. , 2016, 6, 1345-1385.		97
51	Mitochondrial responses to prolonged anoxia in brain of red-eared slider turtles. Biology Letters, 2016, 12, 20150797.	1.0	37
52	Naked mole rats exhibit metabolic but not ventilatory plasticity following chronic sustained hypoxia. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160216.	1.2	40
53	Comparative insights into mitochondrial adaptations to anoxia in brain. Neural Regeneration Research, 2016, 11, 723.	1.6	4
54	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. Journal of Applied Physiology, 2015, 118, 750-759.	1.2	12

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55	Oxygen in demand: How oxygen has shaped vertebrate physiology. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 186, 4-26.	0.8	54
56	Adenosine receptors mediate the hypoxic ventilatory response but not the hypoxic metabolic response in the naked mole rat during acute hypoxia. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141722.	1.2	39
57	Decreases in mitochondrial reactive oxygen species initiate GABA_A receptorâ€mediated electrical suppression in anoxiaâ€tolerant turtle neurons. Journal of Physiology, 2015, 593, 2311-2326.	1.3	29
58	High-Throughput Cell Death Assays. Methods in Molecular Biology, 2015, 1254, 153-163.	0.4	2
59	Neuroprotective Interactions Between Delta-Opioid Receptors and Glutamatergic Signaling Mediate Hypoxia-Tolerance in Brain. , 2015, , 363-388.		0
60	Huff and Puff or Shut'er Down: Hypoxiaâ€Tolerant Mammals Respond Differently to Low Oxygen. FASEB Journal, 2015, 29, 686.3.	0.2	0
61	Do BK channels mediate glioma hypoxia-tolerance?. Channels, 2014, 8, 176-177.	1.5	3
62	Glutamate receptors in the nucleus tractus solitarius contribute to ventilatory acclimatization to hypoxia in rat. Journal of Physiology, 2014, 592, 1839-1856.	1.3	46
63	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. Physiological Reports, 2014, 2, e12092.	0.7	16
64	Mitochondria: a multimodal hub of hypoxia tolerance. Canadian Journal of Zoology, 2014, 92, 569-589.	0.4	63
65	Mitochondrial but not plasmalemmal BK channels are hypoxiaâ€sensitive in human glioma. Glia, 2014, 62, 504-513.	2.5	33
66	Profound metabolic depression in the hypoxiaâ€tolerant naked mole rat (879.2). FASEB Journal, 2014, 28, 879.2.	0.2	7
67	Signalling mechanisms of long term facilitation of breathing with intermittent hypoxia. F1000prime Reports, 2013, 5, 23.	5.9	10
68	DIDS (4,4-Diisothiocyanatostilbenedisulphonic Acid) Induces Apoptotic Cell Death in a Hippocampal Neuronal Cell Line and Is Not Neuroprotective against Ischemic Stress. PLoS ONE, 2013, 8, e60804.	1.1	11
69	Painted Turtle Cortex is Resistant to an<i>in Vitro</i>Mimic of the Ischemic Mammalian Penumbra. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 2033-2043.	2.4	23
70	DIDS Prevents Ischemic Membrane Degradation in Cultured Hippocampal Neurons by Inhibiting Matrix Metalloproteinase Release. PLoS ONE, 2012, 7, e43995.	1.1	10
71	Hypoxia induces Kv channel current inhibition by increased NADPH oxidase-derived reactive oxygen species. Free Radical Biology and Medicine, 2012, 52, 1033-1042.	1.3	68
72	An in vitro ischemic penumbral mimic perfusate increases NADPH oxidase-mediated superoxide production in cultured hippocampal neurons. Brain Research, 2012, 1452, 165-172.	1.1	19

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73	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.	1.1	42
74	The relationship between NMDA receptor function and the high ammonia tolerance of anoxia-tolerant goldfish. Journal of Experimental Biology, 2011, 214, 4107-4120.	0.8	26
75	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.	3.3	61
76	Mitochondrial ATPâ€sensitive K⁺ channels regulate NMDAR activity in the cortex of the anoxic western painted turtle. Journal of Physiology, 2008, 586, 1043-1058.	1.3	45
77	Endogenous reductions in <i>N</i>â€methylâ€<scp>d</scp>â€aspartate receptor activity inhibit nitric oxide production in the anoxic freshwater turtle cortex. FEBS Letters, 2008, 582, 1738-1742.	1.3	6
78	Adenosine A1 receptor activation mediates NMDA receptor activity in a pertussis toxin-sensitive manner during normoxia but not anoxia in turtle cortical neurons. Brain Research, 2008, 1213, 27-34.	1.1	18
79	Evidence of anoxia-induced channel arrest in the brain of the goldfish (Carassius auratus). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2008, 148, 355-362.	1.3	29
80	Î´-Opioid receptor antagonism induces NMDA receptor-dependent excitotoxicity in anoxic turtle cortex. Journal of Experimental Biology, 2008, 211, 3512-3517.	0.8	41
81	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.	0.8	41
82	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.	0.7	59
83	Adaptive responses of vertebrate neurons to anoxiaâ€"Matching supply to demand. Respiratory Physiology and Neurobiology, 2006, 154, 226-240.	0.7	85