

Matthew E Pamenter

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9113496/publications.pdf>

Version: 2024-02-01

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	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. <i>Respiratory Physiology and Neurobiology</i> , 2006, 154, 226-240.	0.7	85
3	Hypoxia induces Kv channel current inhibition by increased NADPH oxidase-derived reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2012, 52, 1033-1042.	1.3	68
4	The exceptional longevity of the naked moleâ€”rat may be explained by mitochondrial antioxidant defenses. <i>Aging Cell</i> , 2019, 18, e12916.	3.0	67
5	Mitochondria: a multimodal hub of hypoxia tolerance. <i>Canadian Journal of Zoology</i> , 2014, 92, 569-589.	0.4	63
6	The naked truth: a comprehensive clarification and classification of current â€”mythsâ€” in naked moleâ€”rat biology. <i>Biological Reviews</i> , 2022, 97, 115-140.	4.7	62
7	Endogenous GABA _A and GABA _B receptor-mediated electrical suppression is critical to neuronal anoxia tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11274-11279.	3.3	61
8	Anoxia-induced changes in reactive oxygen species and cyclic nucleotides in the painted turtle. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2007, 177, 473-481.	0.7	59
9	Oxygen in demand: How oxygen has shaped vertebrate physiology. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 186, 4-26.	0.8	54
10	Behavioural responses of naked mole rats to acute hypoxia and anoxia. <i>Biology Letters</i> , 2017, 13, 20170545.	1.0	51
11	Cross-Species Insights Into Genomic Adaptations to Hypoxia. <i>Frontiers in Genetics</i> , 2020, 11, 743.	1.1	48
12	Glutamate receptors in the nucleus tractus solitarius contribute to ventilatory acclimatization to hypoxia in rat. <i>Journal of Physiology</i> , 2014, 592, 1839-1856.	1.3	46
13	Mitochondrial ATPâ€”sensitive K ⁺ channels regulate NMDAR activity in the cortex of the anoxic western painted turtle. <i>Journal of Physiology</i> , 2008, 586, 1043-1058.	1.3	45
14	Do naked mole rats accumulate a metabolic acidosis or an oxygen debt in severe hypoxia?. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	45
15	The hypoxia-tolerant vertebrate brain: Arresting synaptic activity. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2018, 224, 61-70.	0.7	42
16	Autophagy and Apoptosis Are Differentially Induced in Neurons and Astrocytes Treated with an In Vitro Mimic of the Ischemic Penumbra. <i>PLoS ONE</i> , 2012, 7, e51469.	1.1	42
17	Piscine insights into comparisons of anoxia tolerance, ammonia toxicity, stroke and hepatic encephalopathy. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 147, 332-343.	0.8	41
18	Î”-Opioid receptor antagonism induces NMDA receptor-dependent excitotoxicity in anoxic turtle cortex. <i>Journal of Experimental Biology</i> , 2008, 211, 3512-3517.	0.8	41

#	ARTICLE	IF	CITATIONS
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.	1.8	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.	1.2	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.	1.2	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, .	0.8	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.	0.8	38
24	Mitochondrial responses to prolonged anoxia in brain of red-eared slider turtles. <i>Biology Letters</i> , 2016, 12, 20150797.	1.0	37
25	Comparative studies of mitochondrial reactive oxygen species in animal longevity: Technical pitfalls and possibilities. <i>Aging Cell</i> , 2019, 18, e13009.	3.0	35
26	Mitochondrial but not plasmalemmal BK channels are hypoxia-insensitive in human glioma. <i>Glia</i> , 2014, 62, 504-513.	2.5	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.	1.3	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.	1.3	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.	5.8	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.	0.9	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.	1.8	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.	0.8	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.	0.7	26
34	Goldfish Response to Chronic Hypoxia: Mitochondrial Respiration, Fuel Preference and Energy Metabolism. <i>Metabolites</i> , 2021, 11, 187.	1.3	26
35	Adaptations to a hypoxic lifestyle in naked mole-rats. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	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.	2.4	23

#	ARTICLE	IF	CITATIONS
37	The brains of six African mole-rat species show divergent responses to hypoxia. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	23
38	Glutamatergic Receptors Modulate Normoxic but Not Hypoxic Ventilation and Metabolism in Naked Mole Rats. <i>Frontiers in Physiology</i> , 2019, 10, 106.	1.3	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.	1.1	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.	1.1	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.	0.7	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.	0.7	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.	2.0	16
44	Naked mole-rat brain mitochondria tolerate <i>in vitro</i> ischaemia. <i>Journal of Physiology</i> , 2021, 599, 4671-4685.	1.3	16
45	Effects of cold on murine brain mitochondrial function. <i>PLoS ONE</i> , 2018, 13, e0208453.	1.1	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.	0.7	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.	0.9	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.	0.7	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.	1.3	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.	1.2	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.	0.8	12
52	Fossorial Damaraland mole rats do not exhibit a blunted hypercapnic ventilatory response. <i>Biology Letters</i> , 2019, 15, 20190006.	1.0	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, .	0.8	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.	1.1	11

#	ARTICLE	IF	CITATIONS
55	DIDS Prevents Ischemic Membrane Degradation in Cultured Hippocampal Neurons by Inhibiting Matrix Metalloproteinase Release. <i>PLoS ONE</i> , 2012, 7, e43995.	1.1	10
56	Evaporative cooling and vasodilation mediate thermoregulation in naked mole-rats during normoxia but not hypoxia. <i>Journal of Thermal Biology</i> , 2019, 84, 228-235.	1.1	10
57	Naked mole rats activate neuroprotective proteins during hypoxia. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2019, 331, 571-576.	0.9	10
58	Na ⁺ /K ⁺ -ATPase activity is regionally regulated by acute hypoxia in naked mole-rat brain. <i>Neuroscience Letters</i> , 2021, 764, 136244.	1.0	10
59	Signalling mechanisms of long term facilitation of breathing with intermittent hypoxia. <i>F1000prime Reports</i> , 2013, 5, 23.	5.9	10
60	What to do with low O ₂ : Redox adaptations in vertebrates native to hypoxic environments. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2022, 271, 111259.	0.8	9
61	Fossorial giant Zambian mole-rats have blunted ventilatory responses to environmental hypoxia and hypercapnia. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 243, 110672.	0.8	8
62	MicroRNA-mediated inhibition of AMPK coordinates tissue-specific downregulation of skeletal muscle metabolism in hypoxic naked mole-rats. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	8
63	Burrowing star-nosed moles (<i>Condylura cristata</i>) are not hypoxia tolerant. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	7
64	Profound metabolic depression in the hypoxia-tolerant naked mole rat (879.2). <i>FASEB Journal</i> , 2014, 28, 879.2.	0.2	7
65	Endogenous reductions in N-methyl-L-aspartate receptor activity inhibit nitric oxide production in the anoxic freshwater turtle cortex. <i>FEBS Letters</i> , 2008, 582, 1738-1742.	1.3	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. <i>Journal of Molecular Evolution</i> , 2019, 87, 147-151.	0.8	6
67	Nitric oxide homeostasis is maintained during acute in vitro hypoxia and following reoxygenation in naked mole-rat but not mouse cortical neurons. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 250, 110792.	0.8	6
68	Utilizing comparative models in biomedical research. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2021, 255, 110593.	0.7	6
69	Supermole-rat to the rescue: Does the naked mole-rat offer a panacea for all that ails us?. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2022, 266, 111139.	0.8	6
70	Different patterns of chronic hypoxia lead to hierarchical adaptive mechanisms in goldfish metabolism. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	5
71	Comparative insights into mitochondrial adaptations to anoxia in brain. <i>Neural Regeneration Research</i> , 2016, 11, 723.	1.6	4
72	Lactate inhibits naked mole-rat cardiac mitochondrial respiration. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2022, , 1.	0.7	4

#	ARTICLE	IF	CITATIONS
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, .	1.3	4
74	Do BK channels mediate glioma hypoxia-tolerance?. <i>Channels</i> , 2014, 8, 176-177.	1.5	3
75	Longevity or hypoxia: who's driving?. <i>Aging</i> , 2019, 11, 5864-5865.	1.4	3
76	High-Throughput Cell Death Assays. <i>Methods in Molecular Biology</i> , 2015, 1254, 153-163.	0.4	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.	1.8	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.	0.8	1
79	Dynamic calculation of ATP/O ratios measured using Magnesium Green (MgGr)â„¢. <i>MethodsX</i> , 2021, 8, 101520.	0.7	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.	0.2	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.	0.2	0
83	Phrenic Nerve and Carotid Body Responses to Hypoxia and CO 2 in Naked Mole Rats. <i>FASEB Journal</i> , 2019, 33, lb576.	0.2	0