Jose Pablo Vazquez-Medina

List of Publications by Year
in descending order

72 papers	1,265 citations	331538 21 h-index	395590 33 g-index
89 all docs	89 docs citations	89 times ranked	1293 citing authors

#	Article	IF	Citations
1	Peroxiredoxin 6 phospholipid hydroperoxidase activity in the repair of peroxidized cell membranes. Redox Biology, 2018, 14, 41-46.	3.9	79
2	Prolonged fasting does not increase oxidative damage or inflammation in postweaned northern elephant seal pups. Journal of Experimental Biology, 2010, 213, 2524-2530.	0.8	66
3	Coping with physiological oxidative stress: a review of antioxidant strategies in seals. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 741-750.	0.7	66
4	The Role of Peroxiredoxin 6 in Cell Signaling. Antioxidants, 2018, 7, 172.	2.2	65
5	Differential antioxidant protection in tissues from marine mammals with distinct diving capacities. Shallow/short vs. deep/long divers. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2011, 158, 438-443.	0.8	56
6	The phospholipase A₂activity of peroxiredoxin 6 modulates NADPH oxidase 2 activationvialysophosphatidic acid receptor signaling in the pulmonary endothelium and alveolar macrophages. FASEB Journal, 2016, 30, 2885-2898.	0.2	56
7	Prolonged fasting increases glutathione biosynthesis in postweaned northern elephant seals. Journal of Experimental Biology, 2011, 214, 1294-1299.	0.8	54
8	Angiotensin receptor-mediated oxidative stress is associated with impaired cardiac redox signaling and mitochondrial function in insulin-resistant rats. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H599-H607.	1.5	54
9	Antioxidant enzymes in ringed seal tissues: Potential protection against dive-associated ischemia/reperfusion. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2006, 142, 198-204.	1.3	52
10	Glutathione protection against dive-associated ischemia/reperfusion in ringed seal tissues. Journal of Experimental Marine Biology and Ecology, 2007, 345, 110-118.	0.7	51
11	Apnea stimulates the adaptive response to oxidative stress in elephant seal pups. Journal of Experimental Biology, 2011, 214, 4193-4200.	0.8	50
12	Glut4 is upregulated despite decreased insulin signaling during prolonged fasting in northern elephant seal pups. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R150-R154.	0.9	48
13	Oxidative stress is a potential cost of breeding in male and female northern elephant seals. Functional Ecology, 2015, 29, 367-376.	1.7	44
14	Genetic inactivation of the phospholipase A₂activity of peroxiredoxin 6 in mice protects against LPS-induced acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L656-L668.	1.3	33
15	Natural Tolerance to Ischemia and Hypoxemia in Diving Mammals: A Review. Frontiers in Physiology, 2019, 10, 1199.	1.3	32
16	Fasting ameliorates oxidative stress: A review of physiological strategies across life history events in wild vertebrates. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 256, 110929.	0.8	29
17	Decreased expression of adipose CD36 and FATP1 are associated with increased plasma non-esterified fatty acids during prolonged fasting in northern elephant seal pups (Mirounga angustirostris). Journal of Experimental Biology, 2012, 215, 2455-2464.	0.8	27
18	Antioxidant capacity develops with maturation in the deep-diving hooded seal. Journal of Experimental Biology, 2011, 214, 2903-2910.	0.8	26

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19	Insulin and GLP-1 infusions demonstrate the onset of adipose-specific insulin resistance in a large fasting mammal: potential glucogenic role for GLP-1. Physiological Reports, 2013, 1, e00023.	0.7	26
20	Prolonged fasting activates hypoxia inducible factors-1Î±, -2Î± and -3Î± in a tissue-specific manner in northern elephant seal pups. Gene, 2013, 526, 155-163.	1.0	24
21	â€œOxidative stress induced by phthalates in mammals: State of the art and potential biomarkersâ€• Environmental Research, 2022, 206, 112636.	3.7	24
22	Prolonged fasting increases purine recycling in post-weaned northern elephant seals. Journal of Experimental Biology, 2012, 215, 1448-1455.	0.8	23
23	Angiotensin Receptor Blockade Recovers Hepatic UCP2 Expression and Aconitase and SDH Activities and Ameliorates Hepatic Oxidative Damage in Insulin Resistant Rats. Endocrinology, 2012, 153, 5746-5759.	1.4	23
24	Onset of Inflammation With Ischemia: Implications for Donor Lung Preservation and Transplant Survival. American Journal of Transplantation, 2016, 16, 2598-2611.	2.6	21
25	Prolonged food deprivation increases mRNA expression of deiodinase 1 and 2, and thyroid hormone receptor Î²-1 in a fasting-adapted mammal. Journal of Experimental Biology, 2013, 216, 4647-4654.	0.8	20
26	Prolonged fasting activates Nrf2 in postweaned elephant seals. Journal of Experimental Biology, 2013, 216, 2870-8.	0.8	20
27	Maturation increases superoxide radical production without increasing oxidative damage in the skeletal muscle of hooded seals (CystophoraÂcristata). Canadian Journal of Zoology, 2011, 89, 206-212.	0.4	19
28	Angiotensin and mineralocorticoid receptor antagonism attenuates cardiac oxidative stress in angiotensin II â€infused rats. Clinical and Experimental Pharmacology and Physiology, 2015, 42, 1178-1188.	0.9	17
29	Chronic AT1 blockade improves glucose homeostasis in obese OLETF rats. Journal of Endocrinology, 2018, 237, 271-284.	1.2	17
30	Activation of systemic, but not local, renin-angiotensin system is associated with up-regulation of TNF-Î± during prolonged fasting in northern elephant seal pups. Journal of Experimental Biology, 2013, 216, 3215-21.	0.8	15
31	Non-Mammalian Prdx6 Enzymes (Proteins with 1-Cys Prdx Mechanism) Display PLA2 Activity Similar to the Human Orthologue. Antioxidants, 2019, 8, 52.	2.2	12
32	Potentiation of Acetylcholine-Induced Relaxation of Aorta in Male UC Davis Type 2 Diabetes Mellitus (UCD-T2DM) Rats: Sex-Specific Responses. Frontiers in Physiology, 2021, 12, 616317.	1.3	12
33	Purine nucleoside phosphorylase and xanthine oxidase activities in erythrocytes and plasma from marine, semiaquatic and terrestrial mammals. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 171, 31-35.	0.8	11
34	Elephant seal muscle cells adapt to sustained glucocorticoid exposure by shifting their metabolic phenotype. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R413-R428.	0.9	7
35	Plasma FGF21 concentrations, adipose fibroblast growth factor receptor-1 and Î²-klotho expression decrease with fasting in northern elephant seals. General and Comparative Endocrinology, 2015, 216, 86-89.	0.8	6
36	Functional Studies with Primary Cells Provide a System for Genome-to-Phenome Investigations in Marine Mammals. Integrative and Comparative Biology, 2020, 60, 348-360.	0.9	5

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37	Ontogeny of Carbon Monoxide-Related Gene Expression in a Deep-Diving Marine Mammal. Frontiers in Physiology, 2021, 12, 762102.	1.3	5
38	Selection on dispersal drives evolution of metabolic capacities for energy production in female wingâ€polymorphic sand field crickets, Gryllus firmus. Journal of Evolutionary Biology, 2022, 35, 599-609.	0.8	5
39	Short-term elevations in glucocorticoids do not alter telomere lengths: A systematic review and meta-analysis of non-primate vertebrate studies. PLoS ONE, 2021, 16, e0257370.	1.1	4
40	Redox Signaling and the Onset of the Inflammatory Cascade. , 2018, , 37-42.		3
41	Chronic AT₁ blockade improves hyperglycemia by decreasing adipocyte inflammation and decreasing hepatic PCK1 and G6PC1 expression in obese rats. American Journal of Physiology - Endocrinology and Metabolism, 2021, 321, E714-E727.	1.8	3
42	In silico Characterization of the Heme Oxygenase 1 From Bottlenose Dolphin (Tursiops truncatus): Evidence of Changes in the Active Site and Purifying Selection. Frontiers in Physiology, 2021, 12, 711645.	1.3	2
43	Repeated stimulation of the HPA axis alters white blood cell count without increasing oxidative stress or inflammatory cytokines in fasting elephant seal pups. Journal of Experimental Biology, 2021, 224, .	0.8	2
44	Sleep- and Diving-Associated Apneas Do Not Induce Oxidative Damage in Northern Elephant Seals. Free Radical Biology and Medicine, 2010, 49, S30-S31.	1.3	1
45	Muscular apoptosis but not oxidative stress increases with old age in a long-lived diver, the Weddell seal. Journal of Experimental Biology, 2019, 222, .	0.8	1
46	Antioxidant response to cadmium exposure in primary skeletal muscle cells isolated from humans and elephant seals. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2020, 227, 108641.	1.3	1
47	High Dietary Glucose Intake Increases Hepatic Triglyceride Content and Oxidative Stress: Contributions of Angiotensin Receptor. FASEB Journal, 2012, 26, 714.8.	0.2	1
48	Seal Endothelial Cells: a Comparative Model to Study Natural Tolerance to Ischemia/Reperfusion. FASEB Journal, 2018, 32, 859.8.	0.2	1
49	Prolonged Fasting Increases DNA Methylation in Northern Elephant Seal Pups. FASEB Journal, 2020, 34, 1-1.	0.2	1
50	Peroxiredoxin 6 Suppresses Erastin-induced Ferroptosis in Lung Endothelial Cells. Free Radical Biology and Medicine, 2020, 159, S100.	1.3	0
51	Reactive oxygen species, redox signaling, and regulation of vascular endothelial signaling. , 2021, , 37-45.		0
52	Elephant Seal Endothelial Cells are Resistant to Oxidative Stress. FASEB Journal, 2021, 35, .	0.2	0
53	Sustained exposure to glucocorticoids promotes muscle remodeling and shifts metabolic phenotype in elephant seal myotubes. FASEB Journal, 2021, 35, .	0.2	0
54	Glut4 Increases with Prolonged Fasting in Northern Elephant Seals. FASEB Journal, 2009, 23, 598.3.	0.2	0

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55	Fasting increases antioxidant enzymes and glutathione content in elephant seals. FASEB Journal, 2010, 24, 1055.8.	0.2	0
56	Prolonged fasting suppresses cellular insulinâ€dependent activity in adipose tissue of the northern elephant seal. FASEB Journal, 2010, 24, 1055.11.	0.2	0
57	Prolonged Fasting Increases Nrf2 Nuclear Accumulation and DNA Binding Ability in Postweaned Northern Elephant Seals. FASEB Journal, 2012, 26, .	0.2	0
58	Decreased expression of adipose fatty acid transporters CD36 and FATP1 contributes to increased plasma free fatty acids during prolonged fasting in northern elephant seal pups. FASEB Journal, 2012, 26, 886.10.	0.2	0
59	Angiotensin Receptor Blockade Reduces Oxidative Stress while Improving Redox Signaling and Mitochondrial Function in the Heart of Dietâ€induced Obese Insulin Resistant Rats. FASEB Journal, 2013, 27, 918.3.	0.2	0
60	Lysophosphatidic acid signaling is required for NADPH oxidase activation during agonist stimulation in pulmonary microvascular endothelial cells (1153.8). FASEB Journal, 2014, 28, 1153.8.	0.2	0
61	Prdx6PLA 2 â€derived Lysophosphatidic Acid Signaling is required for Nox2 Activation in Pulmonary Microvascular Endothelial Cells and Alveolar Macrophages. FASEB Journal, 2015, 29, 955.1.	0.2	0
62	Ageâ€and Muscleâ€Specific Oxidative Stress Management Strategies in a Longâ€Lived Diver, the Weddell Seal. FASEB Journal, 2018, 32, 861.5.	0.2	0
63	Mitochondrial Fragmentation in Skeletal Muscle Derived Cells from an Old Male Donor May Relate to Decreased Oxygen Consumption Rates. FASEB Journal, 2020, 34, 1-1.	0.2	0
64	Changes in Morphology of Primary Muscle Cells Exposed to Diâ€(2â€ethylhexyl) Phthalate. FASEB Journal, 2020, 34, 1-1.	0.2	0
65	Direct reprogramming of dermal fibroblasts derived from Northern elephant seals into muscle cells. FASEB Journal, 2020, 34, 1-1.	0.2	0
66	Differential white blood cell numbers in response to lipopolysaccharide exposure in marine and terrestrial mammals. FASEB Journal, 2020, 34, 1-1.	0.2	0
67	Primary Endothelial Cells from Seals Mount a Rapid and Sustained Response to Acute Hypoxia. FASEB Journal, 2020, 34, 1-1.	0.2	0
68	Skeletal Muscle Cells Derived From Old Donors Show Mitochondrial Fragmentation And Decreased Oxygen Consumption Rates. Medicine and Science in Sports and Exercise, 2020, 52, 153-154.	0.2	0
69	Peroxiredoxin 6 suppresses erastinâ€induced ferroptosis in lung endothelial cells. FASEB Journal, 2022, 36, .	0.2	0
70	Rapid Hypoxiaâ€Induced Upregulation of Glutathioneâ€Related Genes May Protect Elephant Seal Endothelial Cells Against Oxidative Stress. FASEB Journal, 2022, 36, .	0.2	0
71	Mitochondria from Skeletal Muscle Cells Derived from Old Donors Show Reduced Energy Production and Respiratory Capacity. FASEB Journal, 2022, 36, .	0.2	0
72	Direct reprogramming of dermal fibroblasts derived from Northern elephant seals into muscle cells. FASEB Journal, 2022, 36, .	0.2	0