John M Hollander

List of Publications by Year
in descending order

84 papers	2,615 citations	172207 29 h-index	189595 50 g-index
86 all docs	86 docs citations	86 times ranked	3500 citing authors

#	Article	IF	Citations
1	Mitochondrial dysfunction in type 2 diabetes mellitus: an organ-based analysis. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E268-E285.	1.8	222
2	Overexpression of Wild-Type Heat Shock Protein 27 and a Nonphosphorylatable Heat Shock Protein 27 Mutant Protects Against Ischemia/Reperfusion Injury in a Transgenic Mouse Model. Circulation, 2004, 110, 3544-3552.	1.6	147
3	Oxidative Stress and Aging: Role of Exercise and Its Influences on Antioxidant Systems. Annals of the New York Academy of Sciences, 1998, 854, 102-117.	1.8	141
4	Mitochondrial dysfunction in the type 2 diabetic heart is associated with alterations in spatially distinct mitochondrial proteomes. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H529-H540.	1.5	136
5	Mitochondria-specific transgenic overexpression of phospholipid hydroperoxide glutathione peroxidase (GPx4) attenuates ischemia/reperfusion-associated cardiac dysfunction. Free Radical Biology and Medicine, 2008, 45, 855-865.	1.3	129
6	Physiological and structural differences in spatially distinct subpopulations of cardiac mitochondria: influence of cardiac pathologies. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1-H14.	1.5	125
7	Diabetic cardiomyopathy-associated dysfunction in spatially distinct mitochondrial subpopulations. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H359-H369.	1.5	122
8	Proteomic alterations of distinct mitochondrial subpopulations in the type 1 diabetic heart: contribution of protein import dysfunction. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R186-R200.	0.9	107
9	miR-141 as a regulator of the mitochondrial phosphate carrier (Slc25a3) in the type 1 diabetic heart. American Journal of Physiology - Cell Physiology, 2012, 303, C1244-C1251.	2.1	100
10	Translational Regulation of the Mitochondrial Genome Following Redistribution of Mitochondrial MicroRNA in the Diabetic Heart. Circulation: Cardiovascular Genetics, 2015, 8, 785-802.	5.1	90
11	Enhanced apoptotic propensity in diabetic cardiac mitochondria: influence of subcellular spatial location. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H633-H642.	1.5	81
12	Mitochondria protection from hypoxia/reoxygenation injury with mitochondria heat shock protein 70 overexpression. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H249-H256.	1.5	71
13	Overexpression of PHGPx and HSP60/10 protects against ischemia/reoxygenation injury. Free Radical Biology and Medicine, 2003, 35, 742-751.	1.3	70
14	Reversal of mitochondrial proteomic loss in Type 1 diabetic heart with overexpression of phospholipid hydroperoxide glutathione peroxidase. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 304, R553-R565.	0.9	63
15	Functional deficiencies of subsarcolemmal mitochondria in the type 2 diabetic human heart. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H54-H65.	1.5	62
16	Exploring the mitochondrial microRNA import pathway through Polynucleotide Phosphorylase (PNPase). Journal of Molecular and Cellular Cardiology, 2017, 110, 15-25.	0.9	60
17	The role of SIRT1 in skeletal muscle function and repair of older mice. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 929-949.	2.9	58
18	Machine-learning to stratify diabetic patients using novel cardiac biomarkers and integrative genomics. Cardiovascular Diabetology, 2019, 18, 78.	2.7	55

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19	Transgenic overexpression of mitofilin attenuates diabetes mellitus-associated cardiac and mitochondria dysfunction. Journal of Molecular and Cellular Cardiology, 2015, 79, 212-223.	0.9	54
20	Microvascular and mitochondrial dysfunction in the female F1 generation after gestational TiO₂nanoparticle exposure. Nanotoxicology, 2015, 9, 941-951.	1.6	53
21	Role of microRNA in metabolic shift during heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H33-H45.	1.5	52
22	Regulating microRNA expression: at the heart of diabetes mellitus and the mitochondrion. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H293-H310.	1.5	48
23	Maternal-engineered nanomaterial exposure disrupts progeny cardiac function and bioenergetics. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H446-H458.	1.5	47
24	Reactive oxygen species damage drives cardiac and mitochondrial dysfunction following acute nano-titanium dioxide inhalation exposure. Nanotoxicology, 2018, 12, 32-48.	1.6	41
25	Endoplasmic reticulum stress-induced complex I defect: Central role of calcium overload. Archives of Biochemistry and Biophysics, 2020, 683, 108299.	1.4	37
26	Cardiac and mitochondrial dysfunction following acute pulmonary exposure to mountaintop removal mining particulate matter. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H2017-H2030.	1.5	36
27	ROS promote epigenetic remodeling and cardiac dysfunction in offspring following maternal engineered nanomaterial (ENM) exposure. Particle and Fibre Toxicology, 2019, 16, 24.	2.8	36
28	Early detection of cardiac dysfunction in the type 1 diabetic heart using speckle-tracking based strain imaging. Journal of Molecular and Cellular Cardiology, 2016, 90, 74-83.	0.9	33
29	Mitochondrial miRNAs in diabetes: just the tip of the iceberg. Canadian Journal of Physiology and Pharmacology, 2017, 95, 1156-1162.	0.7	32
30	Evaluation of the cardiolipin biosynthetic pathway and its interactions in the diabetic heart. Life Sciences, 2013, 93, 313-322.	2.0	26
31	Intermediary metabolism and fatty acid oxidation: novel targets of electron transport chain-driven injury during ischemia and reperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H787-H795.	1.5	26
32	Proteomic Remodeling of Mitochondria in Heart Failure. Congestive Heart Failure, 2011, 17, 262-268.	2.0	23
33	Diabetes mellitus reduces the function and expression of ATP-dependent K+ channels in cardiac mitochondria. Life Sciences, 2013, 92, 664-668.	2.0	23
34	Crystal structure of the mitochondrial protein mitoNEET bound to a benze-sulfonide ligand. Communications Chemistry, 2019, 2, .	2.0	21
35	miRNA-378a as a key regulator of cardiovascular health following engineered nanomaterial inhalation exposure. Nanotoxicology, 2019, 13, 644-663.	1.6	21
36	Mitochondrial proteome disruption in the diabetic heart through targeted epigenetic regulation at the mitochondrial heat shock protein 70 (mtHsp70) nuclear locus. Journal of Molecular and Cellular Cardiology, 2018, 119, 104-115.	0.9	20

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37	Cardiovascular adaptations to particle inhalation exposure: molecular mechanisms of the toxicology. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H282-H305.	1.5	17
38	MiR-34a Interacts with Cytochrome c and Shapes Stroke Outcomes. Scientific Reports, 2020, 10, 3233.	1.6	17
39	Excess coenzyme A reduces skeletal muscle performance and strength in mice overexpressing human PANK2. Molecular Genetics and Metabolism, 2017, 120, 350-362.	0.5	12
40	Exercise Down-Regulates Hepatic Fatty Acid Synthase in Streptozotocin-Treated Rats. Journal of Nutrition, 2001, 131, 2252-2259.	1.3	11
41	Pyrvinium Pamoate Use in a B cell Acute Lymphoblastic Leukemia Model of the Bone Tumor Microenvironment. Pharmaceutical Research, 2020, 37, 43.	1.7	11
42	Aging alters contractile properties and fiber morphology in pigeon skeletal muscle. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 1031-1039.	0.7	10
43	Loss of the redox mitochondrial protein mitoNEET leads to mitochondrial dysfunction in B-cell acute lymphoblastic leukemia. Free Radical Biology and Medicine, 2021, 175, 226-235.	1.3	10
44	Manipulation of the miR-378a/mt-ATP6 regulatory axis rescues ATP synthase in the diabetic heart and offers a novel role for lncRNA Kcnq1ot1. American Journal of Physiology - Cell Physiology, 2022, 322, C482-C495.	2.1	10
45	The Mitochondrial mitoNEET Ligand NL-1 Is Protective in a Murine Model of Transient Cerebral Ischemic Stroke. Pharmaceutical Research, 2021, 38, 803-817.	1.7	9
46	Mild traumatic brain injury increases vulnerability to cerebral ischemia in mice. Experimental Neurology, 2021, 342, 113765.	2.0	9
47	Mitochondrial membranes modify mutant huntingtin aggregation. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183663.	1.4	9
48	Enhanced antioxidant capacity prevents epitranscriptomic and cardiac alterations in adult offspring gestationally-exposed to ENM. Nanotoxicology, 2021, 15, 812-831.	1.6	8
49	Transcriptomics of single dose and repeated carbon black and ozone inhalation co-exposure highlight progressive pulmonary mitochondrial dysfunction. Particle and Fibre Toxicology, 2021, 18, 44.	2.8	8
50	Contractile dysfunction in the diabetic heart is associated with enhanced apoptosis and decreased Hsp25 phosphorylation. FASEB Journal, 2007, 21, A1343.	0.2	2
51	Activation of Mitochondrial Calpain 1 Leads to Degradation of PDH. FASEB Journal, 2018, 32, 543.7.	0.2	1
52	Quantitative proteomic analysis of distinct mitochondrial subpopulations in diabetic myocardium. FASEB Journal, 2008, 22, 1226.36.	0.2	1
53	Enhanced apoptotic propensity in diabetic cardiac interfibrillar mitochondria. FASEB Journal, 2008, 22, 1238.19.	0.2	1
54	Mountainâ€top mining particulate matter exposure increases markers of mitochondriallyâ€driven apoptosis in rat cardiac tissue. FASEB Journal, 2012, 26, 1036.15.	0.2	1

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55	Identifying Unique Patterns of Myocardial Deformation through Segmental Speckle Tracking Stress Strain Following Highâ€Fat Diet. FASEB Journal, 2021, 35, .	0.2	0
56	Integration of dilator and constrictor pathways for arteriolar reactivity in the metabolic syndrome. FASEB Journal, 2009, 23, 948.10.	0.2	0
57	Hyperglycemiaâ€induced mitochondrial dysfunction and oxidant generation in mouse renal microvascular endothelial cells is reversed by Câ€peptide. FASEB Journal, 2009, 23, 594.15.	0.2	0
58	Carbon monoxide provides antioxidant protection in hepatic sinusoids during a remote inflammatory stress by reducing carbonylated MnSOD. FASEB Journal, 2009, 23, 982.3.	0.2	0
59	Vascular thromboxane generation restrains arteriolar hypoxic dilation in skeletal muscle of obese zucker rats. FASEB Journal, 2009, 23, 767.9.	0.2	0
60	Câ€peptide confers protection in renal cortical endothelial cells during Type I diabetes by preventing the phosphorylation of glucoseâ€6â€phosphate dehydrogenase. FASEB Journal, 2009, 23, 971.12.	0.2	0
61	Mitochondriaâ€specific overexpression of phospholipid hydroperoxide glutathione peroxidase (GPx4) attenuates ischemia/reperfusion (I/R) associated apoptosis. FASEB Journal, 2010, 24, lb560.	0.2	0
62	Mitochondrial subpopulationâ€specific proteomic alterations in the type 2 diabetic heart. FASEB Journal, 2010, 24, lb573.	0.2	0
63	Mitochondrial Overexpression of Phospholipid Hydroperoxide Glutathione Peroxidase 4 (mPHGPx) Provides Cardioprotection From Type 1 Diabetes Mellitus Insult. FASEB Journal, 2010, 24, 789.2.	0.2	0
64	Characterization of regression of exerciseâ€induced cardiac hypertrophy. FASEB Journal, 2010, 24, lb593.	0.2	0
65	Mitochondrial phospholipid hydroperoxide glutathione peroxidase (mPHGPx) overexpression preserves the inner mitochondrial membrane in the diabetic heart. FASEB Journal, 2011, 25, 1095.5.	0.2	0
66	Examination of microRNA (miRNA) dysregulation in the type 1 diabetic heart and its functional implications. FASEB Journal, 2011, 25, lb464.	0.2	0
67	Examination of cardiolipin biosynthesis in the diabetic heart. FASEB Journal, 2012, 26, lb746.	0.2	0
68	HDAC6 regulates mitochondrial oxidative phosphorylation by ATP synthase beta subunit acetylation in diabetic cardiomyopathy. FASEB Journal, 2012, 26, 869.13.	0.2	0
69	miRNAâ€141 is a potential regulator of the mitochondrial phosphate carrier (slc25a3) in the type 1 diabetic heart. FASEB Journal, 2012, 26, 869.11.	0.2	0
70	Overexpression of phospholipid hydroperoxide glutathione peroxidase (MPHGPx) attenuates cardiac mitochondrial proteomic loss and reverses protein import detriments observed with type 1 diabetes mellitus. FASEB Journal, 2012, 26, 1127.4.	0.2	0
71	Differential expression of mitoK ATP subunits in cardiac mitochondrial subpopulations and the influence of Type I diabetes. FASEB Journal, 2012, 26, .	0.2	0
72	Longitudinal assessment of type I diabetes mellitus using conventional echocardiography and speckleâ€tracking based strain imaging. FASEB Journal, 2012, 26, 1054.11.	0.2	0

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73	Glutathione Dependent and Independent Salutary Effects of NAC on HIV Tat Proteinopathy. FASEB Journal, 2012, 26, 1117.2.	0.2	0
74	Type 1 diabetes mellitus differentially regulates mitochondriallyâ€encoded proteins in cardiac mitochondrial subpopulations. FASEB Journal, 2012, 26, lb748.	0.2	0
75	Translational regulation of the mitochondrial genome following redistribution of mitochondrial microRNA (MitomiR) in the diabetic heart.. FASEB Journal, 2013, 27, 701.10.	0.2	0
76	Interaction of mitofilin with respiratory complexes in mitochondrial subpopulations. FASEB Journal, 2013, 27, 1126.6.	0.2	0
77	Heat Shock Protein 27 (hsp27) Translocation to the Mitochondria is Associated with Protection Against Diabetic Cardiomyopathy.. FASEB Journal, 2013, 27, 1209.3.	0.2	0
78	Impact of mitochondria phospholipid hydroperoxide glutathione peroxidase (mPHGPx) overexpression on the type 1 diabetic heart. FASEB Journal, 2013, 27, 1209.2.	0.2	0
79	Using Machine Learning to Predict the Development of Diabetes and Potential Biomarkers Linked to Cardiac Risk. FASEB Journal, 2019, 33, 515.16.	0.2	0
80	Activation of Mitochondrial Calpains Contributes to the Selective Degradation of Specific Mitochondrial Proteins. FASEB Journal, 2019, 33, 802.15.	0.2	0
81	microRNA Changes in Diabetic Cardiac Mitochondria: What are they doing there?. FASEB Journal, 2019, 33, 713.3.	0.2	0
82	Elevated ROS and Epigenetic Remodeling Disrupt Cardiac Function in Offspring Following Maternal Engineered Nanomaterial (ENM) Exposure. FASEB Journal, 2019, 33, 802.76.	0.2	0
83	Machine Learning to Identify Regional and Segmental Dysfunction during Type 2 Diabetes Mellitus Progression. FASEB Journal, 2022, 36, .	0.2	0
84	LncRNAs imported into mitochondria possess distinct features stratified by machine learning that promote interaction with the mitochondrial import protein PNPase. FASEB Journal, 2022, 36, .	0.2	0