

# David J Marcinek

## List of Publications by Year in descending order

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73  
papers

4,366  
citations

117625

34  
h-index

110387

64  
g-index

95  
all docs

95  
docs citations

95  
times ranked

6552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Urolithin A Supplementation on Muscle Endurance and Mitochondrial Health in Older Adults. <i>JAMA Network Open</i> , 2022, 5, e2144279.	5.9	61
2	A replication-linked mutational gradient drives somatic mutation accumulation and influences germline polymorphisms and genome composition in mitochondrial DNA. <i>Nucleic Acids Research</i> , 2021, 49, 11103-11118.	14.5	20
3	Ice seals as sentinels for algal toxin presence in the Pacific Arctic and subarctic marine ecosystems. <i>Marine Mammal Science</i> , 2021, 37, 1292-1308.	1.8	9
4	Are fat and sugar just as detrimental in old age?. <i>GeroScience</i> , 2021, 43, 1615-1625.	4.6	6
5	Functional recovery from eccentric injury is maintained in sarcopenic mouse muscle. <i>JCSM Rapid Communications</i> , 2021, 4, 222-231.	1.6	4
6	Astaxanthin supplementation enhances metabolic adaptation with aerobic training in the elderly. <i>Physiological Reports</i> , 2021, 9, e14887.	1.7	9
7	In vivo mitochondrial ATP production is improved in older adult skeletal muscle after a single dose of elamipretide in a randomized trial. <i>PLoS ONE</i> , 2021, 16, e0253849.	2.5	21
8	High intensity muscle stimulation activates a systemic Nrf2-mediated redox stress response. <i>Free Radical Biology and Medicine</i> , 2021, 172, 82-89.	2.9	10
9	Elamipretide (SS-31) treatment attenuates age-associated post-translational modifications of heart proteins. <i>GeroScience</i> , 2021, 43, 2395-2412.	4.6	17
10	An Analysis of Metabolic Changes in the Retina and Retinal Pigment Epithelium of Aging Mice. , 2021, 62, 20.		5
11	Increased tumour burden alters skeletal muscle properties in the KPC mouse model of pancreatic cancer. <i>JCSM Rapid Communications</i> , 2020, 3, 44-55.	1.6	1
12	SS-31 and NMN: Two paths to improve metabolism and function in aged hearts. <i>Aging Cell</i> , 2020, 19, e13213.	6.7	38
13	Mitochondrial protein interaction landscape of SS-31. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15363-15373.	7.1	88
14	Late-life restoration of mitochondrial function reverses cardiac dysfunction in old mice. <i>ELife</i> , 2020, 9, .	6.0	68
15	Reduction of elevated proton leak rejuvenates mitochondria in the aged cardiomyocyte. <i>ELife</i> , 2020, 9, .	6.0	54
16	Discovery of a Potential Human Serum Biomarker for Chronic Seafood Toxin Exposure Using an SPR Biosensor. <i>Toxins</i> , 2019, 11, 293.	3.4	11
17	Improving mitochondrial function with SS-31 reverses age-related redox stress and improves exercise tolerance in aged mice. <i>Free Radical Biology and Medicine</i> , 2019, 134, 268-281.	2.9	101
18	Repeated low level domoic acid exposure increases CA1 VGluT1 levels, but not bouton density, VGluT2 or VGAT levels in the hippocampus of adult mice. <i>Harmful Algae</i> , 2018, 79, 74-86.	4.8	6

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19	Building strength, endurance, and mobility using an astaxanthin formulation with functional training in elderly. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018, 9, 826-833.	7.3	30
20	Fatiguing contractions increase protein S-glutathionylation occupancy in mouse skeletal muscle. <i>Redox Biology</i> , 2018, 17, 367-376.	9.0	68
21	Domoic acid in California sea lion fetal fluids indicates continuous exposure to a neuroteratogen poses risks to mammals. <i>Harmful Algae</i> , 2018, 79, 53-57.	4.8	29
22	Nitric Oxide Regulates Skeletal Muscle Fatigue, Fiber Type, Microtubule Organization, and Mitochondrial ATP Synthesis Efficiency Through cGMP-Dependent Mechanisms. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 966-985.	5.4	33
23	The mitochondrial-targeted peptide, SS-31, improves glomerular architecture in mice of advanced age. <i>Kidney International</i> , 2017, 91, 1126-1145.	5.2	85
24	Mitochondrial protein interactome elucidated by chemical cross-linking mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1732-1737.	7.1	165
25	Acute and chronic dietary exposure to domoic acid in recreational harvesters: A survey of shellfish consumption behavior. <i>Environment International</i> , 2017, 101, 70-79.	10.0	44
26	Effect of contaminants of emerging concern on liver mitochondrial function in Chinook salmon. <i>Aquatic Toxicology</i> , 2017, 190, 21-31.	4.0	36
27	Chronic low-level exposure to the common seafood toxin domoic acid causes cognitive deficits in mice. <i>Harmful Algae</i> , 2017, 64, 20-29.	4.8	57
28	Skeletal muscle bioenergetics in aging and heart failure. <i>Heart Failure Reviews</i> , 2017, 22, 167-178.	3.9	14
29	Fatiguing Contractions Induce Acute Redox Signaling in Mouse Muscle. <i>Free Radical Biology and Medicine</i> , 2017, 112, 191-192.	2.9	3
30	Cyclophosphamide leads to persistent deficits in physical performance and in vivo mitochondria function in a mouse model of chemotherapy late effects. <i>PLoS ONE</i> , 2017, 12, e0181086.	2.5	27
31	Age modifies respiratory complex I and protein homeostasis in a muscle type-specific manner. <i>Aging Cell</i> , 2016, 15, 89-99.	6.7	62
32	NAD <sup>+</sup> repletion improves muscle function in muscular dystrophy and counters global PARylation. <i>Science Translational Medicine</i> , 2016, 8, 361ra139.	12.4	208
33	Evaluation of in vivo mitochondrial bioenergetics in skeletal muscle using NMR and optical methods. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 716-724.	3.8	21
34	Olfactory Transcriptional Analysis of Salmon Exposed to Mixtures of Chlorpyrifos and Malathion Reveal Novel Molecular Pathways of Neurobehavioral Injury. <i>Toxicological Sciences</i> , 2016, 149, 145-157.	3.1	19
35	The Measurement of Reversible Redox Dependent Post-translational Modifications and Their Regulation of Mitochondrial and Skeletal Muscle Function. <i>Frontiers in Physiology</i> , 2015, 6, 347.	2.8	46
36	Effect of omega-3 fatty acid oxidation products on the cellular and mitochondrial toxicity of BDE 47. <i>Toxicology in Vitro</i> , 2015, 29, 672-680.	2.4	17

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37	Respiratory chain protein turnover rates in mice are highly heterogeneous but strikingly conserved across tissues, ages, and treatments. <i>FASEB Journal</i> , 2015, 29, 3582-3592.	0.5	69
38	Chronic low-level domoic acid exposure alters gene transcription and impairs mitochondrial function in the CNS. <i>Aquatic Toxicology</i> , 2014, 155, 151-159.	4.0	35
39	Mitochondrial oxidative stress in aging and healthspan. <i>Longevity &amp; Healthspan</i> , 2014, 3, 6.	6.7	354
40	In Vivo Metabolic Spectroscopy Identifies Deficits in Mitochondrial Quality and Capacity in Aging Skeletal Muscle. <i>Clinical Pharmacology and Therapeutics</i> , 2014, 96, 669-671.	4.7	5
41	Mitochondrial-targeted peptide rapidly improves mitochondrial energetics and skeletal muscle performance in aged mice. <i>Aging Cell</i> , 2013, 12, 763-771.	6.7	146
42	Defects in mitochondrial localization and ATP synthesis in the mdx mouse model of Duchenne muscular dystrophy are not alleviated by PDE5 inhibition. <i>Human Molecular Genetics</i> , 2013, 22, 153-167.	2.9	101
43	Higher Mitochondrial Respiration and Uncoupling with Reduced Electron Transport Chain Content <i>in Vivo</i> in Muscle of Sedentary Versus Active Subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 129-136.	3.6	28
44	Targeting redox biology to reverse mitochondrial dysfunction. <i>Aging</i> , 2013, 5, 588-589.	3.1	13
45	Impaired adaptability of in vivo mitochondrial energetics to acute oxidative insult in aged skeletal muscle. <i>Mechanisms of Ageing and Development</i> , 2012, 133, 620-628.	4.6	28
46	A Novel Antibody-Based Biomarker for Chronic Algal Toxin Exposure and Sub-Acute Neurotoxicity. <i>PLoS ONE</i> , 2012, 7, e36213.	2.5	35
47	Reversal of Age-Related Mitochondrial Dysfunction In Vivo by Treatment with the Mitochondrially Targeted Therapeutic SS-31. <i>FASEB Journal</i> , 2012, 26, 1144.10.	0.5	0
48	Mitochondrial Oxidative Stress Mediates Angiotensin II-Induced Cardiac Hypertrophy and $\text{Ca}^{2+}$ Overexpression-Induced Heart Failure. <i>Circulation Research</i> , 2011, 108, 837-846.	4.5	450
49	Reduced Coupling of Oxidative Phosphorylation In Vivo Precedes Electron Transport Chain Defects Due to Mild Oxidative Stress in Mice. <i>PLoS ONE</i> , 2011, 6, e26963.	2.5	39
50	Oxidative Stress-Induced Maximal Oxygen Flux and Signaling Response is Muscle Fiber-Type Dependent. <i>FASEB Journal</i> , 2011, 25, 1114.6.	0.5	0
51	Lactic acidosis in vivo: testing the link between lactate generation and $\text{H}^+$ accumulation in ischemic mouse muscle. <i>Journal of Applied Physiology</i> , 2010, 108, 1479-1486.	2.5	61
52	Age-dependent cardiomyopathy in mitochondrial mutator mice is attenuated by overexpression of catalase targeted to mitochondria. <i>Aging Cell</i> , 2010, 9, 536-544.	6.7	242
53	Comparative Skeletal Muscle Aging. , 2010, , 287-317.		3
54	Oxidative stress leads to reduced coupling of oxidative phosphorylation in in vivo resting mouse skeletal muscle. <i>FASEB Journal</i> , 2010, 24, 1045.11.	0.5	0

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55	Noninvasive <i>In Vivo</i> Small Animal MRI and MRS: Basic Experimental Procedures. <i>Journal of Visualized Experiments</i> , 2009, , .	0.3	5
56	Does Mitochondrial Uncoupling Generate More Mitochondria in Muscle?. <i>FASEB Journal</i> , 2009, 23, 600.30.	0.5	0
57	Aging increases resting oxygen consumption in type II skeletal muscle. <i>FASEB Journal</i> , 2009, 23, 954.10.	0.5	0
58	Mitochondrial function in vivo: Spectroscopy provides window on cellular energetics. <i>Methods</i> , 2008, 46, 312-318.	3.8	52
59	Mice with Mitochondrial Complex I Deficiency Develop a Fatal Encephalomyopathy. <i>Cell Metabolism</i> , 2008, 7, 312-320.	16.2	357
60	Mild mitochondrial uncoupling impacts cellular aging in human muscles <i>in vivo</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1057-1062.	7.1	191
61	Mitochondrial Dysfunction. <i>Exercise and Sport Sciences Reviews</i> , 2007, 35, 43-49.	3.0	57
62	Mitochondrial dysfunction and age. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2007, 10, 688-692.	2.5	94
63	Wavelength Shift Analysis: A Simple Method to Determine the Contribution of Hemoglobin and Myoglobin to <i>In Vivo</i> Optical Spectra. <i>Applied Spectroscopy</i> , 2007, 61, 665-669.	2.2	48
64	Mitochondrial function, fibre types and ageing: new insights from human muscle <i>in vivo</i> . <i>Experimental Physiology</i> , 2007, 92, 333-339.	2.0	75
65	Reduced mitochondrial efficiency: dysfunction or defence in ageing muscle?. , 2006, , 30-31.		1
66	Reduced mitochondrial coupling <i>in vivo</i> alters cellular energetics in aged mouse skeletal muscle. <i>Journal of Physiology</i> , 2005, 569, 467-473.	2.9	104
67	Mitochondrial Energy Coupling (ATP/O <sub>2</sub> ) In Human Muscle. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S455.	0.4	0
68	Mitochondrial dysfunction measured in vivo. <i>Acta Physiologica Scandinavica</i> , 2004, 182, 343-352.	2.2	29
69	Mitochondrial coupling in vivo in mouse skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 286, C457-C463.	4.6	74
70	Oxygen regulation and limitation to cellular respiration in mouse skeletal muscle in vivo. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H1900-H1908.	3.2	62
71	Basal glycogenolysis in mouse skeletal muscle: in vitro model predicts in vivo fluxes. <i>Molecular Biology Reports</i> , 2002, 29, 135-139.	2.3	5
72	Depth and muscle temperature of Pacific bluefin tuna examined with acoustic and pop-up satellite archival tags. <i>Marine Biology</i> , 2001, 138, 869-885.	1.5	84

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73	Movements and Temperature Preferences of Atlantic Bluefin Tuna ( <i>Thunnus thynnus</i> ) off North Carolina: A Comparison of Acoustic, Archival and Pop-Up Satellite Tags. <i>Reviews: Methods and Technologies in Fish Biology and Fisheries</i> , 2001, , 89-108.	0.6	14