

# Martin Picard

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105  
papers

5,994  
citations

41  
h-index

76  
g-index

132  
ext. papers

7,730  
ext. citations

6.9  
avg, IF

6.31  
L-index

#	Paper	IF	Citations
105	Mitochondrial dysfunction and lipid accumulation in the human diaphragm during mechanical ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2012</b> , 186, 1140-9	10.2	600
104	The rise of mitochondria in medicine. <i>Mitochondrion</i> , <b>2016</b> , 30, 105-16	4.9	258
103	Mitochondrial dynamics in adaptive and maladaptive cellular stress responses. <i>Nature Cell Biology</i> , <b>2018</b> , 20, 755-765	23.4	227
102	Mitochondrial allostatic load puts the glucocorticoid feedback in glucocorticoids. <i>Nature Reviews Endocrinology</i> , <b>2014</b> , 10, 303-10	15.2	212
101	Mitochondrial structure and function are disrupted by standard isolation methods. <i>PLoS ONE</i> , <b>2011</b> , 6, e18317	3.7	206
100	An energetic view of stress: Focus on mitochondria. <i>Frontiers in Neuroendocrinology</i> , <b>2018</b> , 49, 72-85	8.9	181
99	Progressive increase in mtDNA 3243A>G heteroplasmy causes abrupt transcriptional reprogramming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E4033-42	11.5	180
98	A transdisciplinary perspective of chronic stress in relation to psychopathology throughout life span development. <i>Development and Psychopathology</i> , <b>2011</b> , 23, 725-76	4.3	167
97	Mitochondrial morphology transitions and functions: implications for retrograde signaling?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2013</b> , 304, R393-406	3.2	164
96	Mitochondria: isolation, structure and function. <i>Journal of Physiology</i> , <b>2011</b> , 589, 4413-21	3.9	161
95	Mitochondrial functional impairment with aging is exaggerated in isolated mitochondria compared to permeabilized myofibers. <i>Aging Cell</i> , <b>2010</b> , 9, 1032-46	9.9	156
94	Mitochondrial functions modulate neuroendocrine, metabolic, inflammatory, and transcriptional responses to acute psychological stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E6614-23	11.5	150
93	Mitochondrial morphology is altered in atrophied skeletal muscle of aged mice. <i>Oncotarget</i> , <b>2015</b> , 6, 17923-37	3.3	139
92	Mitochondrial morphology, topology, and membrane interactions in skeletal muscle: a quantitative three-dimensional electron microscopy study. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 161-71	3.7	137
91	Mitochondria impact brain function and cognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7-8	11.5	133
90	Mitochondrial DNA Depletion in Respiratory Chain-Deficient Parkinson Disease Neurons. <i>Annals of Neurology</i> , <b>2016</b> , 79, 366-78	9.4	131
89	Mechanisms of Chronic Muscle Wasting and Dysfunction after an Intensive Care Unit Stay. A Pilot Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2016</b> , 194, 821-830	10.2	122

88	Mitochondrial functional specialization in glycolytic and oxidative muscle fibers: tailoring the organelle for optimal function. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 302, C629-41	5.4	113
87	Trans-mitochondrial coordination of cristae at regulated membrane junctions. <i>Nature Communications</i> , <b>2015</b> , 6, 6259	17.4	101
86	The Spectrum of Mitochondrial Ultrastructural Defects in Mitochondrial Myopathy. <i>Scientific Reports</i> , <b>2016</b> , 6, 30610	4.9	99
85	Alterations in intrinsic mitochondrial function with aging are fiber type-specific and do not explain differential atrophy between muscles. <i>Aging Cell</i> , <b>2011</b> , 10, 1047-55	9.9	97
84	Psychological Stress and Mitochondria: A Systematic Review. <i>Psychosomatic Medicine</i> , <b>2018</b> , 80, 141-153	3.7	94
83	Acute exercise remodels mitochondrial membrane interactions in mouse skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2013</b> , 115, 1562-71	3.7	89
82	Evidence Suggesting Absence of Mitochondrial DNA Methylation. <i>Frontiers in Genetics</i> , <b>2017</b> , 8, 166	4.5	85
81	Circulating cell-free mitochondrial DNA, but not leukocyte mitochondrial DNA copy number, is elevated in major depressive disorder. <i>Neuropsychopharmacology</i> , <b>2018</b> , 43, 1557-1564	8.7	82
80	Chronic stress increases vulnerability to diet-related abdominal fat, oxidative stress, and metabolic risk. <i>Psychoneuroendocrinology</i> , <b>2014</b> , 46, 14-22	5	79
79	Formation of mitochondrial-derived vesicles is an active and physiologically relevant mitochondrial quality control process in the cardiac system. <i>Journal of Physiology</i> , <b>2016</b> , 594, 5343-62	3.9	76
78	Psychological Stress and Mitochondria: A Conceptual Framework. <i>Psychosomatic Medicine</i> , <b>2018</b> , 80, 1263-140	3.7	71
77	Independent impacts of aging on mitochondrial DNA quantity and quality in humans. <i>BMC Genomics</i> , <b>2017</b> , 18, 890	4.5	69
76	Linking the metabolic state and mitochondrial DNA in chronic disease, health, and aging. <i>Diabetes</i> , <b>2013</b> , 62, 672-8	0.9	69
75	The mitochondrial phenotype of peripheral muscle in chronic obstructive pulmonary disease: disuse or dysfunction?. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2008</b> , 178, 1040-7	10.2	66
74	The ageing neuromuscular system and sarcopenia: a mitochondrial perspective. <i>Journal of Physiology</i> , <b>2016</b> , 594, 4499-512	3.9	66
73	Resistance to Ca <sup>2+</sup> -induced opening of the permeability transition pore differs in mitochondria from glycolytic and oxidative muscles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2008</b> , 295, R659-68	3.2	62
72	Mitochondrial DNA copy number is reduced in male combat veterans with PTSD. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2016</b> , 64, 10-7	5.5	56
71	Mitochondrial Nanotunnels. <i>Trends in Cell Biology</i> , <b>2017</b> , 27, 787-799	18.3	56

70	Mitochondrial energy deficiency leads to hyperproliferation of skeletal muscle mitochondria and enhanced insulin sensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 2705-2710	11.5	52
69	Mechanical ventilation triggers abnormal mitochondrial dynamics and morphology in the diaphragm. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 1161-71	3.7	52
68	Quantitative 3D Mapping of the Human Skeletal Muscle Mitochondrial Network. <i>Cell Reports</i> , <b>2019</b> , 26, 996-1009.e4	10.6	50
67	A Mitochondrial Health Index Sensitive to Mood and Caregiving Stress. <i>Biological Psychiatry</i> , <b>2018</b> , 84, 9-17	7.9	50
66	Protective role of Parkin in skeletal muscle contractile and mitochondrial function. <i>Journal of Physiology</i> , <b>2018</b> , 596, 2565-2579	3.9	41
65	Depression, telomeres and mitochondrial DNA: between- and within-person associations from a 10-year longitudinal study. <i>Molecular Psychiatry</i> , <b>2018</b> , 23, 850-857	15.1	41
64	Allostatic load as a tool for monitoring physiological dysregulations and comorbidities in patients with severe mental illnesses. <i>Harvard Review of Psychiatry</i> , <b>2013</b> , 21, 296-313	4.1	41
63	Acute psychological stress increases serum circulating cell-free mitochondrial DNA. <i>Psychoneuroendocrinology</i> , <b>2019</b> , 106, 268-276	5	40
62	Allostatic load and comorbidities: A mitochondrial, epigenetic, and evolutionary perspective. <i>Development and Psychopathology</i> , <b>2016</b> , 28, 1117-1146	4.3	35
61	Mitochondrial DNA Variation Dictates Expressivity and Progression of Nuclear DNA Mutations Causing Cardiomyopathy. <i>Cell Metabolism</i> , <b>2019</b> , 29, 78-90.e5	24.6	35
60	Genetic Evidence for Elevated Pathogenicity of Mitochondrial DNA Heteroplasmy in Autism Spectrum Disorder. <i>PLoS Genetics</i> , <b>2016</b> , 12, e1006391	6	34
59	Mitochondrial synapses: intracellular communication and signal integration. <i>Trends in Neurosciences</i> , <b>2015</b> , 38, 468-74	13.3	32
58	In vivo microscopy reveals extensive embedding of capillaries within the sarcolemma of skeletal muscle fibers. <i>Microcirculation</i> , <b>2014</b> , 21, 131-47	2.9	31
57	The trajectory of life. Decreasing physiological network complexity through changing fractal patterns. <i>Frontiers in Physiology</i> , <b>2015</b> , 6, 169	4.6	31
56	Associations Between Cellular Aging Markers and Metabolic Syndrome: Findings From the CARDIA Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2018</b> , 103, 148-157	5.6	30
55	Health and Disease-Emergent States Resulting From Adaptive Social and Biological Network Interactions. <i>Frontiers in Medicine</i> , <b>2019</b> , 6, 59	4.9	29
54	Complex mitochondrial DNA rearrangements in individual cells from patients with sporadic inclusion body myositis. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 5313-29	20.1	28
53	Circadian regulation of mitochondrial uncoupling and lifespan. <i>Nature Communications</i> , <b>2020</b> , 11, 1927	17.4	27

52	Failed upregulation of TFAM protein and mitochondrial DNA in oxidatively deficient fibers of chronic obstructive pulmonary disease locomotor muscle. <i>Skeletal Muscle</i> , <b>2016</b> , 6, 10	5.1	27
51	Aggressive triple negative breast cancers have unique molecular signature on the basis of mitochondrial genetic and functional defects. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2018</b> , 1864, 1060-1071	6.9	26
50	Relationship between Autophagy and Ventilator-induced Diaphragmatic Dysfunction. <i>Anesthesiology</i> , <b>2015</b> , 122, 1349-61	4.3	26
49	The biology of human hair greying. <i>Biological Reviews</i> , <b>2021</b> , 96, 107-128	13.5	25
48	Accelerating research on biological aging and mental health: Current challenges and future directions. <i>Psychoneuroendocrinology</i> , <b>2019</b> , 106, 293-311	5	24
47	Subcellular origin of mitochondrial DNA deletions in human skeletal muscle. <i>Annals of Neurology</i> , <b>2018</b> , 84, 289-301	9.4	24
46	Pathways to aging: the mitochondrion at the intersection of biological and psychosocial sciences. <i>Journal of Aging Research</i> , <b>2011</b> , 2011, 814096	2.3	22
45	Pparg promotes differentiation and regulates mitochondrial gene expression in bladder epithelial cells. <i>Nature Communications</i> , <b>2019</b> , 10, 4589	17.4	21
44	Mitochondrial function in permeabilized cardiomyocytes is largely preserved in the senescent rat myocardium. <i>PLoS ONE</i> , <b>2012</b> , 7, e43003	3.7	20
43	Role of peroxisome proliferator-activated receptor gamma coactivator 1-alpha (PGC-1) in denervation-induced atrophy in aged muscle: facts and hypotheses. <i>Longevity &amp; Healthspan</i> , <b>2013</b> , 2, 13		18
42	Human aging DNA methylation signatures are conserved but accelerated in cultured fibroblasts. <i>Epigenetics</i> , <b>2019</b> , 14, 961-976	5.7	16
41	Stress and circulating cell-free mitochondrial DNA: A systematic review of human studies, physiological considerations, and technical recommendations. <i>Mitochondrion</i> , <b>2021</b> , 59, 225-245	4.9	16
40	The social nature of mitochondria: Implications for human health. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2021</b> , 120, 595-610	9	16
39	Mitochondria: starving to reach quorum?: Insight into the physiological purpose of mitochondrial fusion. <i>BioEssays</i> , <b>2012</b> , 34, 272-4	4.1	14
38	Is the whole greater than the sum of the parts? Self-rated health and transdisciplinarity. <i>Health</i> , <b>2013</b> , 05, 24-30	0.4	14
37	Mitochondrial phenotypes in purified human immune cell subtypes and cell mixtures. <i>ELife</i> , <b>2021</b> , 10,	8.9	14
36	Mitochondrial Psychobiology: Foundations and Applications. <i>Current Opinion in Behavioral Sciences</i> , <b>2019</b> , 28, 142-151	4	13
35	Blood mitochondrial DNA copy number: What are we counting?. <i>Mitochondrion</i> , <b>2021</b> , 60, 1-11	4.9	13

34	Social Inequalities and the Road to Allostatic Load: From Vulnerability to Resilience <b>2016</b> , 1-54		12
33	Expanding Our Understanding of mtDNA Deletions. <i>Cell Metabolism</i> , <b>2016</b> , 24, 3-4	24.6	12
32	Mitochondrial respiratory capacity modulates LPS-induced inflammatory signatures in human blood. <i>Brain, Behavior, &amp; Immunity - Health</i> , <b>2020</b> , 5, 100080-100080	5.1	12
31	Mitochondrial Nexus to Allostatic Load Biomarkers. <i>Psychosomatic Medicine</i> , <b>2017</b> , 79, 114-117	3.7	10
30	The need for a trans-disciplinary, global health framework. <i>Journal of Alternative and Complementary Medicine</i> , <b>2011</b> , 17, 179-84	2.4	9
29	3D neuronal mitochondrial morphology in axons, dendrites, and somata of the aging mouse hippocampus. <i>Cell Reports</i> , <b>2021</b> , 36, 109509	10.6	8
28	Mitochondrial DNA 3243A>G heteroplasmy is associated with changes in cytoskeletal protein expression and cell mechanics. <i>Journal of the Royal Society Interface</i> , <b>2017</b> , 14,	4.1	6
27	Predictors of ccf-mtDNA reactivity to acute psychological stress identified using machine learning classifiers: A proof-of-concept. <i>Psychoneuroendocrinology</i> , <b>2019</b> , 107, 82-92	5	6
26	Multilevel heterogeneity of mitochondrial respiratory chain deficiency. <i>Journal of Pathology</i> , <b>2018</b> , 246, 261-265	9.4	6
25	Mitochondria in epithelial ovarian carcinoma exhibit abnormal phenotypes and blunted associations with biobehavioral factors. <i>Scientific Reports</i> , <b>2021</b> , 11, 11595	4.9	4
24	Quantitative mapping of human hair greying and reversal in relation to life stress. <i>ELife</i> , <b>2021</b> , 10,	8.9	4
23	Mitochondrial Signaling and Neurodegeneration <b>2016</b> , 107-137		3
22	Author response: Mitochondrial phenotypes in purified human immune cell subtypes and cell mixtures <b>2021</b> ,		3
21	Mitochondrial DNA, nuclear context, and the risk for carcinogenesis. <i>Environmental and Molecular Mutagenesis</i> , <b>2019</b> , 60, 455-462	3.2	3
20	An automated, high-throughput methodology optimized for quantitative cell-free mitochondrial and nuclear DNA isolation from plasma. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 15677-15691	5.4	2
19	Characterization of mitochondrial DNA quantity and quality in the human aged and Alzheimer's disease brain. <i>Molecular Neurodegeneration</i> , <b>2021</b> , 16, 75	19	2
18	Mitochondrial phenotypes in purified human immune cell subtypes and cell mixtures		2
17	Acute Psychological Stress Triggers Circulating Cell-Free Mitochondrial DNA		2

16	Mouse brain-wide mitochondrial connectivity anchored in gene, brain and behavior		2
15	Human studies of mitochondrial biology demonstrate an overall lack of binary sex differences: A multivariate meta-analysis.. <i>FASEB Journal</i> , <b>2022</b> , 36, e22146	0.9	1
14	Added sugar intake during pregnancy: Fetal behavior, birth outcomes, and placental DNA methylation. <i>Developmental Psychobiology</i> , <b>2021</b> , 63, 878-889	3	1
13	Cellular specificity of mitochondrial and immunometabolic features in major depression.. <i>Molecular Psychiatry</i> , <b>2022</b> ,	15.1	1
12	The impact of perceived stress on the hair follicle: Towards solving a psychoneuroendocrine and neuroimmunological puzzle. <i>Frontiers in Neuroendocrinology</i> , <b>2022</b> , 101008	8.9	1
11	Why Do We Care More About Disease than Health?. <i>Phenomics</i> ,1		0
10	Blood-based mitochondrial respiratory chain function in major depression. <i>Translational Psychiatry</i> , <b>2021</b> , 11, 593	8.6	0
9	Integrating Sex and Gender in Mitochondrial Science. <i>Current Opinion in Physiology</i> , <b>2022</b> , 26, 100536	2.6	0
8	Mitochondrial respiratory chain protein co-regulation in the human brain. <i>Heliyon</i> , <b>2022</b> , 8, e09353	3.6	0
7	Leukocyte cytokine responses in adult patients with mitochondrial DNA defects. <i>Journal of Molecular Medicine</i> , <b>2022</b> , 100, 963-971	5.5	0
6	Phenotype-Specific Permeability Transition Pore Regulation in Rat Skeletal Muscle. <i>FASEB Journal</i> , <b>2008</b> , 22, 962.4	0.9	
5	Differences in Extent of Age-related Atrophy Between Muscles is Associated with Mitochondrial ROS Production But Not with PTP Sensitivity. <i>FASEB Journal</i> , <b>2011</b> , 25, 1114.1	0.9	
4	Mitochondrial Functional Specialization in Glycolytic and Oxidative Muscle Fibers: Tailoring the Organelle for Optimal Function. <i>FASEB Journal</i> , <b>2012</b> , 26, 887.19	0.9	
3	Contractile In/Activity Influence Mitochondrial Morphology and Membrane Interactions in Mouse Skeletal Muscle. <i>FASEB Journal</i> , <b>2013</b> , 27, 1202.2	0.9	
2	Reply. <i>Environmental and Molecular Mutagenesis</i> , <b>2019</b> , 60, 465	3.2	
1	Cheveux blancs : est-ce rversible ? <b>2021</b> , N° 138, 14-15		