

# Christiaan L Leeuwenburgh

List of Publications by Year  
in descending order

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278  
papers

31,553  
citations

4388

86  
h-index

4774

169  
g-index

281  
all docs

281  
docs citations

281  
times ranked

43858  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Sirt3 Mediates Reduction of Oxidative Damage and Prevention of Age-Related Hearing Loss under Caloric Restriction. <i>Cell</i> , 2010, 143, 802-812.	28.9	1,008
4	Molecular inflammation: Underpinnings of aging and age-related diseases. <i>Ageing Research Reviews</i> , 2009, 8, 18-30.	10.9	1,004
5	A Low Dose of Dietary Resveratrol Partially Mimics Caloric Restriction and Retards Aging Parameters in Mice. <i>PLoS ONE</i> , 2008, 3, e2264.	2.5	504
6	New insights into the role of mitochondria in aging: mitochondrial dynamics and more. <i>Journal of Cell Science</i> , 2010, 123, 2533-2542.	2.0	448
7	Reactive Nitrogen Intermediates Promote Low Density Lipoprotein Oxidation in Human Atherosclerotic Intima. <i>Journal of Biological Chemistry</i> , 1997, 272, 1433-1436.	3.4	422
8	Mitochondrial dysfunction and sarcopenia of aging: From signaling pathways to clinical trials. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2288-2301.	2.8	414
9	Flipping the Metabolic Switch: Understanding and Applying the Health Benefits of Fasting. <i>Obesity</i> , 2018, 26, 254-268.	3.0	402
10	Exercise training-induced alterations in skeletal muscle antioxidant capacity: a brief review. <i>Medicine and Science in Sports and Exercise</i> , 1999, 31, 987-997.	0.4	376
11	Long-Term Ascorbic Acid Administration Reverses Endothelial Vasomotor Dysfunction in Patients With Coronary Artery Disease. <i>Circulation</i> , 1999, 99, 3234-3240.	1.6	358
12	The COVID-19 pandemic and physical activity. <i>Sports Medicine and Health Science</i> , 2020, 2, 55-64.	2.0	354
13	Skeletal muscle autophagy and apoptosis during aging: Effects of calorie restriction and life-long exercise. <i>Experimental Gerontology</i> , 2010, 45, 138-148.	2.8	345
14	Mass Spectrometric Quantification of Markers for Protein Oxidation by Tyrosyl Radical, Copper, and Hydroxyl Radical in Low Density Lipoprotein Isolated from Human Atherosclerotic Plaques. <i>Journal of Biological Chemistry</i> , 1997, 272, 3520-3526.	3.4	329
15	Apoptosis in skeletal muscle with aging. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 282, R519-R527.	1.8	310
16	Doxorubicin treatment in vivo causes cytochrome C release and cardiomyocyte apoptosis, as well as increased mitochondrial efficiency, superoxide dismutase activity, and Bcl-2:Bax ratio. <i>Cancer Research</i> , 2002, 62, 4592-8.	0.9	301
17	Frailty syndrome and skeletal muscle: results from the Invecchiare in Chianti study. <i>American Journal of Clinical Nutrition</i> , 2006, 83, 1142-1148.	4.7	298
18	Skeletal muscle apoptosis, sarcopenia and frailty at old age. <i>Experimental Gerontology</i> , 2006, 41, 1234-1238.	2.8	288

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19	Age-related hearing loss in C57BL/6J mice is mediated by Bak-dependent mitochondrial apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19432-19437.	7.1	287
20	The impact of aging on mitochondrial function and biogenesis pathways in skeletal muscle of sedentary high- and low-functioning elderly individuals. Aging Cell, 2012, 11, 801-809.	6.7	284
21	Nordihydroguaiaretic acid and aspirin increase lifespan of genetically heterogeneous male mice. Aging Cell, 2008, 7, 641-650.	6.7	283
22	Age-associated increases in oxidative stress and antioxidant enzyme activities in cardiac interfibrillar mitochondria: implications for the mitochondrial theory of aging. FASEB Journal, 2005, 19, 1-21.	0.5	277
23	Muscle fiber-specific apoptosis and TNF $\alpha$ signaling in sarcopenia are attenuated by life-long calorie restriction. FASEB Journal, 2005, 19, 1-33.	0.5	251
24	Mitochondrial pathways in sarcopenia of aging and disuse muscle atrophy. Biological Chemistry, 2013, 394, 393-414.	2.5	246
25	Models of accelerated sarcopenia: Critical pieces for solving the puzzle of age-related muscle atrophy. Ageing Research Reviews, 2010, 9, 369-383.	10.9	244
26	Skeletal Muscle Mitochondrial Energetics Are Associated With Maximal Aerobic Capacity and Walking Speed in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 447-455.	3.6	240
27	The Role of Apoptosis in the Normal Aging Brain, Skeletal Muscle, and Heart. Annals of the New York Academy of Sciences, 2002, 959, 93-107.	3.8	227
28	Mitochondrial DNA Mutations Induce Mitochondrial Dysfunction, Apoptosis and Sarcopenia in Skeletal Muscle of Mitochondrial DNA Mutator Mice. PLoS ONE, 2010, 5, e11468.	2.5	225
29	Mitochondrial dysfunction is an early indicator of doxorubicin-induced apoptosis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2002, 1588, 94-101.	3.8	214
30	Caloric restriction in humans: Potential pitfalls and health concerns. Mechanisms of Ageing and Development, 2006, 127, 1-7.	4.6	212
31	Mitochondrial quality control mechanisms as molecular targets in cardiac ageing. Nature Reviews Cardiology, 2018, 15, 543-554.	13.7	207
32	The role of mitochondrial DNA mutations in aging and sarcopenia: Implications for the mitochondrial vicious cycle theory of aging. Experimental Gerontology, 2008, 43, 24-33.	2.8	202
33	Contribution of Impaired Mitochondrial Autophagy to Cardiac Aging. Circulation Research, 2012, 110, 1125-1138.	4.5	202
34	Aging and the Role of Reactive Nitrogen Species. Annals of the New York Academy of Sciences, 2002, 959, 66-81.	3.8	200
35	Age-related differences in apoptosis with disuse atrophy in soleus muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R1288-R1296.	1.8	185
36	Aging and lifelong calorie restriction result in adaptations of skeletal muscle apoptosis repressor, apoptosis-inducing factor, X-linked inhibitor of apoptosis, caspase-3, and caspase-12. Free Radical Biology and Medicine, 2004, 36, 27-39.	2.9	182

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37	An aging Interventions Testing Program: study design and interim report. <i>Aging Cell</i> , 2007, 6, 565-575.	6.7	177
38	Successful aging: Advancing the science of physical independence in older adults. <i>Ageing Research Reviews</i> , 2015, 24, 304-327.	10.9	172
39	Autophagy in the Heart and Liver During Normal Aging and Calorie Restriction. <i>Rejuvenation Research</i> , 2007, 10, 281-292.	1.8	164
40	Role of mitochondrial dysfunction and altered autophagy in cardiovascular aging and disease: from mechanisms to therapeutics. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H459-H476.	3.2	163
41	Resveratrol and novel potent activators of SIRT1: effects on aging and age-related diseases. <i>Nutrition Reviews</i> , 2008, 66, 591-596.	5.8	159
42	Sarcopenia of aging: Underlying cellular mechanisms and protection by calorie restriction. <i>BioFactors</i> , 2009, 35, 28-35.	5.4	158
43	Cytochrome <i>c</i> release from mitochondria in the aging heart: a possible mechanism for apoptosis with age. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 282, R423-R430.	1.8	152
44	Age-related activation of mitochondrial caspase-independent apoptotic signaling in rat gastrocnemius muscle. <i>Mechanisms of Ageing and Development</i> , 2008, 129, 542-549.	4.6	150
45	Mitochondrial death effectors: Relevance to sarcopenia and disuse muscle atrophy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 235-244.	2.4	150
46	Caloric Restriction Attenuates Dityrosine Cross-Linking of Cardiac and Skeletal Muscle Proteins in Aging Mice. <i>Archives of Biochemistry and Biophysics</i> , 1997, 346, 74-80.	3.0	148
47	Mitochondrial DNA mutations, energy metabolism and apoptosis in aging muscle. <i>Ageing Research Reviews</i> , 2006, 5, 179-195.	10.9	147
48	Persistent inflammation, immunosuppression, and catabolism syndrome after severe blunt trauma. <i>Journal of Trauma and Acute Care Surgery</i> , 2014, 76, 21-30.	2.1	145
49	The Effects of Time Restricted Feeding on Overweight, Older Adults: A Pilot Study. <i>Nutrients</i> , 2019, 11, 1500.	4.1	142
50	Upregulated autophagy protects cardiomyocytes from oxidative stress-induced toxicity. <i>Autophagy</i> , 2013, 9, 328-344.	9.1	138
51	A hydroxyl radical-like species oxidizes cynomolgus monkey artery wall proteins in early diabetic vascular disease. <i>Journal of Clinical Investigation</i> , 2001, 107, 853-860.	8.2	135
52	Method for measuring ATP production in isolated mitochondria: ATP production in brain and liver mitochondria of Fischer-344 rats with age and caloric restriction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 285, R1259-R1267.	1.8	134
53	Dysregulation of Mitochondrial Quality Control Processes Contribute to Sarcopenia in a Mouse Model of Premature Aging. <i>PLoS ONE</i> , 2013, 8, e69327.	2.5	132
54	Apoptosis and exercise. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 393-396.	0.4	129

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55	A Dietary Supplement Attenuates IL-6 and CRP after Eccentric Exercise in Untrained Males. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 2032-2037.	0.4	128
56	Autophagy Suppresses Age-Dependent Ischemia and Reperfusion Injury in Livers of Mice. <i>Gastroenterology</i> , 2011, 141, 2188-2199.e6.	1.3	128
57	Apoptosis in Skeletal Myocytes: A Potential Target for Interventions against Sarcopenia and Physical Frailty – A Mini-Review. <i>Gerontology</i> , 2012, 58, 99-106.	2.8	127
58	Fueling Inflamm-Aging through Mitochondrial Dysfunction: Mechanisms and Molecular Targets. <i>International Journal of Molecular Sciences</i> , 2017, 18, 933.	4.1	127
59	A method to determine RNA and DNA oxidation simultaneously by HPLC-ECD: greater RNA than DNA oxidation in rat liver after doxorubicin administration. <i>Biological Chemistry</i> , 2006, 387, 103-11.	2.5	126
60	Cardiac mitochondrial bioenergetics, oxidative stress, and aging. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C1983-C1992.	4.6	125
61	The Role of Apoptosis in Age-Related Skeletal Muscle Atrophy. <i>Sports Medicine</i> , 2005, 35, 473-483.	6.5	123
62	Beneficial effects of exercise on age-related mitochondrial dysfunction and oxidative stress in skeletal muscle. <i>Journal of Physiology</i> , 2016, 594, 5105-5123.	2.9	120
63	Increased iron content and RNA oxidative damage in skeletal muscle with aging and disuse atrophy. <i>Experimental Gerontology</i> , 2008, 43, 563-570.	2.8	118
64	Doxorubicin treatment in vivo activates caspase-12 mediated cardiac apoptosis in both male and female rats. <i>FEBS Letters</i> , 2004, 577, 483-490.	2.8	117
65	Hydroxyl radical generation during exercise increases mitochondrial protein oxidation and levels of urinary dityrosine. <i>Free Radical Biology and Medicine</i> , 1999, 27, 186-192.	2.9	116
66	Exercise by lifelong voluntary wheel running reduces subsarcolemmal and interfibrillar mitochondrial hydrogen peroxide production in the heart. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R1564-R1572.	1.8	116
67	Role of Apoptosis in Sarcopenia. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2003, 58, M999-M1001.	3.6	115
68	Molecular mechanism of PPAR in the regulation of age-related inflammation. <i>Ageing Research Reviews</i> , 2008, 7, 126-136.	10.9	113
69	Modulation of GH/IGF-1 axis: Potential strategies to counteract sarcopenia in older adults. <i>Mechanisms of Ageing and Development</i> , 2008, 129, 593-601.	4.6	110
70	Circulating Mitochondrial DNA at the Crossroads of Mitochondrial Dysfunction and Inflammation During Aging and Muscle Wasting Disorders. <i>Rejuvenation Research</i> , 2018, 21, 350-359.	1.8	104
71	Effect of Low-Intensity vs High-Intensity Home-Based Walking Exercise on Walk Distance in Patients With Peripheral Artery Disease. <i>JAMA - Journal of the American Medical Association</i> , 2021, 325, 1266.	7.4	102
72	Changes in IL-15 expression and death-receptor apoptotic signaling in rat gastrocnemius muscle with aging and life-long calorie restriction. <i>Mechanisms of Ageing and Development</i> , 2009, 130, 272-280.	4.6	101

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73	Effects of Popular Diets without Specific Calorie Targets on Weight Loss Outcomes: Systematic Review of Findings from Clinical Trials. <i>Nutrients</i> , 2017, 9, 822.	4.1	101
74	Iron Accumulation with Age, Oxidative Stress and Functional Decline. <i>PLoS ONE</i> , 2008, 3, e2865.	2.5	100
75	Age-related differences in lower extremity tissue compartments and associations with physical function in older adults. <i>Experimental Gerontology</i> , 2012, 47, 38-44.	2.8	100
76	Mitochondrial iron accumulation with age and functional consequences. <i>Aging Cell</i> , 2008, 7, 706-716.	6.7	99
77	Practicality of Intermittent Fasting in Humans and its Effect on Oxidative Stress and Genes Related to Aging and Metabolism. <i>Rejuvenation Research</i> , 2015, 18, 162-172.	1.8	98
78	Modulation of age-induced apoptotic signaling and cellular remodeling by exercise and calorie restriction in skeletal muscle. <i>Free Radical Biology and Medicine</i> , 2008, 44, 160-168.	2.9	97
79	Radical Scavenging and Reducing Ability of Tilapia ( <i>Oreochromis niloticus</i> ) Protein Hydrolysates. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 10359-10367.	5.2	97
80	Fasting or caloric restriction for Healthy Aging. <i>Experimental Gerontology</i> , 2013, 48, 1003-1005.	2.8	97
81	Current nutritional recommendations and novel dietary strategies to manage sarcopenia. <i>Journal of Frailty &amp; Aging</i> , 2013, 2, 38-53.	1.3	94
82	Isotope Dilution Mass Spectrometric Quantification of 3-Nitrotyrosine in Proteins and Tissues Is Facilitated by Reduction to 3-Aminotyrosine. <i>Analytical Biochemistry</i> , 1998, 259, 127-135.	2.4	92
83	Long-Term Effects of Caloric Restriction or Exercise on DNA and RNA Oxidation Levels in White Blood Cells and Urine in Humans. <i>Rejuvenation Research</i> , 2008, 11, 793-799.	1.8	92
84	Detecting oxidative modification of biomolecules with isotope dilution mass spectrometry: Sensitive and quantitative assays for oxidized amino acids in proteins and tissues. <i>Methods in Enzymology</i> , 1999, 300, 124-144.	1.0	91
85	Benchmarking clinical outcomes and the immunocatabolic phenotype of chronic critical illness after sepsis in surgical intensive care unit patients. <i>Journal of Trauma and Acute Care Surgery</i> , 2018, 84, 342-349.	2.1	91
86	Energy expenditure of calorically restricted rats is higher than predicted from their altered body composition. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 783-793.	4.6	88
87	Mice expressing an error-prone DNA polymerase in mitochondria display elevated replication pausing and chromosomal breakage at fragile sites of mitochondrial DNA. <i>Nucleic Acids Research</i> , 2009, 37, 2327-2335.	14.5	87
88	Bioenergetics and permeability transition pore opening in heart subsarcolemmal and interfibrillar mitochondria: Effects of aging and lifelong calorie restriction. <i>Mechanisms of Ageing and Development</i> , 2009, 130, 297-307.	4.6	81
89	Impaired Iron Status in Aging Research. <i>International Journal of Molecular Sciences</i> , 2012, 13, 2368-2386.	4.1	81
90	Calorie restriction combined with resveratrol induces autophagy and protects 26-month-old rat hearts from doxorubicin-induced toxicity. <i>Free Radical Biology and Medicine</i> , 2014, 74, 252-262.	2.9	80

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91	OXIDATIVE DAMAGE INCREASES WITH REPRODUCTIVE ENERGY EXPENDITURE AND IS REDUCED BY FOOD-SUPPLEMENTATION. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 67, no-no.	2.3	78
92	Tumor necrosis factor $\hat{\pm}$ signaling in skeletal muscle: effects of age and caloric restriction. <i>Journal of Nutritional Biochemistry</i> , 2006, 17, 501-508.	4.2	76
93	Skeletal Muscle Apoptotic Signaling Predicts Thigh Muscle Volume and Gait Speed in Community-Dwelling Older Persons: An Exploratory Study. <i>PLoS ONE</i> , 2012, 7, e32829.	2.5	76
94	Increased oxidative stress in kwashiorkor. <i>Journal of Pediatrics</i> , 2000, 137, 421-424.	1.8	75
95	Persistent inflammation, immunosuppression, and catabolism and the development of chronic critical illness after surgery. <i>Surgery</i> , 2018, 164, 178-184.	1.9	75
96	C-Reactive Protein Genotypes Affect Baseline, but not Exercise Trainingâ€“Induced Changes, in C-Reactive Protein Levels. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 1874-1879.	2.4	72
97	Effects of Age and Sedentary Lifestyle on Skeletal Muscle NF- $\hat{A}$ B Signaling in Men. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010, 65A, 532-537.	3.6	72
98	Safety and metabolic outcomes of resveratrol supplementation in older adults: results of a twelve-week, placebo-controlled pilot study. <i>Experimental Gerontology</i> , 2014, 57, 181-187.	2.8	70
99	Skeletal Muscle Pathology in Peripheral Artery Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 2577-2585.	2.4	70
100	Effects of Caloric Restriction and Exercise on Age-Related, Chronic Inflammation Assessed by C-Reactive Protein and Interleukin-6. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 211-217.	3.6	69
101	The emerging role of iron dyshomeostasis in the mitochondrial decay of aging. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 487-493.	4.6	69
102	Lifelong exercise and mild (8%) caloric restriction attenuate age-induced alterations in plantaris muscle morphology, oxidative stress and IGF-1 in the Fischer-344 rat. <i>Experimental Gerontology</i> , 2008, 43, 317-329.	2.8	68
103	Urinary analysis of 8-oxoguanine, 8-oxoguanosine, fapy-guanine and 8-oxo-2 $\hat{A}$ -deoxyguanosine by high-performance liquid chromatographyâ€“electrospray tandem mass spectrometry as a measure of oxidative stress. <i>Journal of Chromatography A</i> , 2007, 1167, 54-62.	3.7	67
104	Influence of Calorie Restriction on Measures of Age-Related Cognitive Decline: Role of Increased Physical Activity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 850-859.	3.6	67
105	Autophagy and leucine promote chronological longevity and respiration proficiency during calorie restriction in yeast. <i>Experimental Gerontology</i> , 2013, 48, 1107-1119.	2.8	67
106	Life long calorie restriction increases heat shock proteins and proteasome activity in soleus muscles of Fisher 344 rats. <i>Experimental Gerontology</i> , 2005, 40, 37-42.	2.8	66
107	Effects of a weight loss plus exercise program on physical function in overweight, older women: a randomized controlled trial. <i>Clinical Interventions in Aging</i> , 2011, 6, 141.	2.9	66
108	Effect of Intermittent Phrenic Nerve Stimulation During Cardiothoracic Surgery on Mitochondrial Respiration in the Human Diaphragm*. <i>Critical Care Medicine</i> , 2014, 42, e152-e156.	0.9	66



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109	Mitochondrial DNA Mutations and Apoptosis in Mammalian Aging. <i>Cancer Research</i> , 2006, 66, 7386-7389.	0.9	65
110	Mitochondria and Ageing. <i>Journal of Aging Research</i> , 2011, 2011, 1-3.	0.9	65
111	Advanced age is associated with worsened outcomes and a unique genomic response in severely injured patients with hemorrhagic shock. <i>Critical Care</i> , 2015, 19, 77.	5.8	65
112	Sepsis and Critical Illness Research Center investigators: protocols and standard operating procedures for a prospective cohort study of sepsis in critically ill surgical patients. <i>BMJ Open</i> , 2017, 7, e015136.	1.9	65
113	Evaluation of sex differences on mitochondrial bioenergetics and apoptosis in mice. <i>Experimental Gerontology</i> , 2007, 42, 173-182.	2.8	64
114	Aging and Calorie Restriction Oppositely Affect Mitochondrial Biogenesis through TFAM Binding at Both Origins of Mitochondrial DNA Replication in Rat Liver. <i>PLoS ONE</i> , 2013, 8, e74644.	2.5	64
115	Protective Immunity and Defects in the Neonatal and Elderly Immune Response to Sepsis. <i>Journal of Immunology</i> , 2014, 192, 3156-3165.	0.8	64
116	Myeloid-derived suppressor cell function and epigenetic expression evolves over time after surgical sepsis. <i>Critical Care</i> , 2019, 23, 355.	5.8	64
117	Dietary Restriction: Standing Up for Sirtuins. <i>Science</i> , 2010, 329, 1012-1013.	12.6	63
118	Life-long calorie restriction in Fischer 344 rats attenuates age-related loss in skeletal muscle-specific force and reduces extracellular space. <i>Journal of Applied Physiology</i> , 2003, 95, 2554-2562.	2.5	62
119	Effects of short-term GH supplementation and treadmill exercise training on physical performance and skeletal muscle apoptosis in old rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R558-R567.	1.8	62
120	Fatty Streak Formation in Fat-Fed Mice Expressing Human Copper-Zinc Superoxide Dismutase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997, 17, 1734-1740.	2.4	61
121	Hepatic Oxidative Stress During Aging: Effects of 8% Long-Term Calorie Restriction and Lifelong Exercise. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 529-538.	5.4	61
122	Comparison of lifelong and late life exercise on oxidative stress in the cerebellum. <i>Neurobiology of Aging</i> , 2009, 30, 903-909.	3.1	61
123	Multiple Pathways to the Same End: Mechanisms of Myonuclear Apoptosis in Sarcopenia of Aging. <i>Scientific World Journal</i> , The, 2010, 10, 340-349.	2.1	61
124	Dietary Antioxidants as Modifiers of Physiologic Adaptations to Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 1857-1868.	0.4	61
125	A Detailed Characterization of the Dysfunctional Immunity and Abnormal Myelopoiesis Induced by Severe Shock and Trauma in the Aged. <i>Journal of Immunology</i> , 2015, 195, 2396-2407.	0.8	61
126	Chronic Pain, Perceived Stress, and Cellular Aging: An Exploratory Study. <i>Molecular Pain</i> , 2012, 8, 1744-8069-8-12.	2.1	60



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127	Effect of Resveratrol on Walking Performance in Older People With Peripheral Artery Disease. JAMA Cardiology, 2017, 2, 902.	6.1	60
128	Loss of sirtuin 1 and mitofusin 2 contributes to enhanced ischemia/reperfusion injury in aged livers. Aging Cell, 2018, 17, e12761.	6.7	60
129	Life-long calorie restriction (CR) increases expression of apoptosis repressor with a caspase recruitment domain (ARC) in the brain. FASEB Journal, 2003, 17, 1-18.	0.5	59
130	Cellular Mechanisms of Cardioprotection by Calorie Restriction: State of the Science and Future Perspectives. Clinics in Geriatric Medicine, 2009, 25, 715-732.	2.6	58
131	Short-term CR decreases cardiac mitochondrial oxidant production but increases carbonyl content. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R254-R259.	1.8	54
132	Age- and calorie restriction-related changes in rat brain mitochondrial DNA and TFAM binding. Age, 2013, 35, 1607-1620.	3.0	54
133	Glycine supplementation extends lifespan of male and female mice. Aging Cell, 2019, 18, e12953.	6.7	53
134	Lifelong Calorie Restriction Alleviates Age-Related Oxidative Damage in Peripheral Nerves. Rejuvenation Research, 2010, 13, 65-74.	1.8	52
135	Molecular architecture of myelinated peripheral nerves is supported by calorie restriction with aging. Aging Cell, 2009, 8, 178-191.	6.7	51
136	Redox Balance in the Aging Microcirculation: New Friends, New Foes, and New Clinical Directions. Microcirculation, 2012, 19, 19-28.	1.8	50
137	Markers of protein oxidation by hydroxyl radical and reactive nitrogen species in tissues of aging rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R453-R461.	1.8	49
138	The hydrogen sulfide signaling system: changes during aging and the benefits of caloric restriction. Age, 2010, 32, 467-481.	3.0	47
139	Short-term caloric restriction, resveratrol, or combined treatment regimens initiated in late-life alter mitochondrial protein expression profiles in a fiber-type specific manner in aged animals. Experimental Gerontology, 2013, 48, 858-868.	2.8	47
140	Impact of Inflammation on the Relationship Among Alcohol Consumption, Mortality, and Cardiac Events. Archives of Internal Medicine, 2006, 166, 1490.	3.8	46
141	Phrenic Nerve Stimulation Increases Human Diaphragm Fiber Force after Cardiothoracic Surgery. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 837-839.	5.6	46
142	Systemic inflammation, body composition, and physical performance in old community-dwellers. Journal of Cachexia, Sarcopenia and Muscle, 2017, 8, 69-77.	7.3	46
143	Oxidized amino acids in the urine of aging rats: potential markers for assessing oxidative stress in vivo. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 276, R128-R135.	1.8	45
144	Aged Mice Are Unable To Mount an Effective Myeloid Response to Sepsis. Journal of Immunology, 2014, 192, 612-622.	0.8	45

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145	Effects of Long-Term Exercise on Age-Related Hearing Loss in Mice. <i>Journal of Neuroscience</i> , 2016, 36, 11308-11319.	3.6	45
146	The "BIOmarkers associated with Sarcopenia and PHysical frailty in EldeRly pErsons" (BIOSPHERE) study: Rationale, design and methods. <i>European Journal of Internal Medicine</i> , 2018, 56, 19-25.	2.2	45
147	Cocoa to Improve Walking Performance in Older People With Peripheral Artery Disease. <i>Circulation Research</i> , 2020, 126, 589-599.	4.5	45
148	Iron homeostasis and organismal aging. <i>Ageing Research Reviews</i> , 2021, 72, 101510.	10.9	44
149	Anabolic effects of testosterone are preserved during inhibition of 5 $\alpha$ -reductase. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E507-E514.	3.5	43
150	Patterns of Circulating Inflammatory Biomarkers in Older Persons with Varying Levels of Physical Performance: A Partial Least Squares-Discriminant Analysis Approach. <i>Frontiers in Medicine</i> , 2014, 1, 27.	2.6	43
151	Short-Term Caloric Restriction and Sites of Oxygen Radical Generation in Kidney and Skeletal Muscle Mitochondria. <i>Annals of the New York Academy of Sciences</i> , 2004, 1019, 333-342.	3.8	42
152	A Better Understanding of Why Murine Models of Trauma Do Not Recapitulate the Human Syndrome*. <i>Critical Care Medicine</i> , 2014, 42, 1406-1413.	0.9	41
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