Nathan K Lebrasseur

List of Publications by Year
in descending order

128 papers	21,728 citations	16451 64 h-index	15266 126 g-index
139 all docs	139 docs citations	139 times ranked	22400 citing authors

#	Article	IF	Citations
1	Ascertainment of Delirium Status Using Natural Language Processing From Electronic Health Records. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 524-530.	3.6	18
2	The point of no return? Functional disability transitions in patients with and without rheumatoid arthritis: A population-based cohort study. Seminars in Arthritis and Rheumatism, 2022, 52, 151941.	3.4	2
3	Resilience to aging is a heterogeneous characteristic defined by physical stressors. Aging Pathobiology and Therapeutics, 2022, 4, 19-22.	0.5	2
4	Targeted clearance of <i>p21</i>â€•but not <i>p16</i>â€positive senescent cells prevents radiationâ€induced osteoporosis and increased marrow adiposity. Aging Cell, 2022, 21, e13602.	6.7	40
5	A hybrid model to identify fall occurrence from electronic health records. International Journal of Medical Informatics, 2022, 162, 104736.	3.3	10
6	To the editor: Response to Kao etÂal.. Seminars in Arthritis and Rheumatism, 2022, 55, 151990.	3.4	0
7	Inflammatory biomarkers, multi-morbidity, and biologic aging. Journal of International Medical Research, 2022, 50, 030006052211093.	1.0	7
8	Characterization of cellular senescence in aging skeletal muscle. Nature Aging, 2022, 2, 601-615.	11.6	61
9	Senolytic Drugs: Reducing Senescent Cell Viability to Extend Health Span. Annual Review of Pharmacology and Toxicology, 2021, 61, 779-803.	9.4	151
10	Association of Infant Antibiotic Exposure With Childhood Health Outcomes. Mayo Clinic Proceedings, 2021, 96, 66-77.	3.0	110
11	Wholeâ€body senescent cell clearance alleviates ageâ€related brain inflammation and cognitive impairment in mice. Aging Cell, 2021, 20, e13296.	6.7	186
12	Senolytics reduce coronavirus-related mortality in old mice. Science, 2021, 373, .	12.6	184
13	Exercise reduces circulating biomarkers of cellular senescence in humans. Aging Cell, 2021, 20, e13415.	6.7	47
14	Fisetin for <scp>COVID</scp>â€19 in skilled nursing facilities: Senolytic trials in the <scp>COVID</scp> era. Journal of the American Geriatrics Society, 2021, 69, 3023-3033.	2.6	35
15	Exercise Intolerance in Older Adults WithÂHeartÂFailure With Preserved EjectionÂFraction. Journal of the American College of Cardiology, 2021, 78, 1166-1187.	2.8	87
16	Frailty in CKD and Transplantation. Kidney International Reports, 2021, 6, 2270-2280.	0.8	33
17	Development of ResperciseÂ® a Digital Application for Standardizing Home Exercise in COPD Clinical Trials. Chronic Obstructive Pulmonary Diseases (Miami, Fla), 2021, 8, 269-276.	0.7	1
18	IDENTIFYING BIOMARKERS FOR BIOLOGICAL AGE: GEROSCIENCE AND THE ICFSR TASK FORCE. Journal of Frailty & Aging,the, 2021, 10, 1-6.	1.3	18

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19	Novel small molecule inhibition of IKK/NFâ€ÎºB activation reduces markers of senescence and improves healthspan in mouse models of aging. Aging Cell, 2021, 20, e13486.	6.7	24
20	Skeletal muscle aging, cellular senescence, and senotherapeutics: Current knowledge and future directions. Mechanisms of Ageing and Development, 2021, 200, 111595.	4.6	31
21	Time-restricted feeding prevents deleterious metabolic effects of circadian disruption through epigenetic control of Î² cell function. Science Advances, 2021, 7, eabg6856.	10.3	21
22	High fat diet consumption results in mitochondrial dysfunction, oxidative stress, and oligodendrocyte loss in the central nervous system. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165630.	3.8	34
23	Harnessing the effects of endurance exercise to optimize cognitive health: Fundamental insights from Dr. Mark P. Mattson. Ageing Research Reviews, 2020, 64, 101147.	10.9	4
24	Knockout of sulfatase 2 is associated with decreased steatohepatitis and fibrosis in a mouse model of nonalcoholic fatty liver disease. American Journal of Physiology - Renal Physiology, 2020, 319, G333-G344.	3.4	4
25	Effect of menopausal hormone therapy on proteins associated with senescence and inflammation. Physiological Reports, 2020, 8, e14535.	1.7	5
26	A Western diet impairs CNS energy homeostasis and recovery after spinal cord injury: Link to astrocyte metabolism. Neurobiology of Disease, 2020, 141, 104934.	4.4	15
27	Frailty is a determinant of suboptimal chemotherapy in women with advanced ovarian cancer. Gynecologic Oncology, 2020, 158, 646-652.	1.4	16
28	Frailty in Patients With Mild Autonomous Cortisol Secretion is Higher Than in Patients with Nonfunctioning Adrenal Tumors. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e3307-e3315.	3.6	20
29	Dietary carbohydrates modulate metabolic and Î²-cell adaptation to high-fat diet-induced obesity. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E856-E865.	3.5	14
30	The senescence-associated secretome as an indicator of age and medical risk. JCI Insight, 2020, 5, .	5.0	175
31	Senolytics decrease senescent cells in humans: Preliminary report from a clinical trial of Dasatinib plus Quercetin in individuals with diabetic kidney disease. EBioMedicine, 2019, 47, 446-456.	6.1	697
32	The clinical impact and biological mechanisms of skeletal muscle aging. Bone, 2019, 127, 26-36.	2.9	46
33	Lateâ€life timeâ€restricted feeding and exercise differentially alter healthspan in obesity. Aging Cell, 2019, 18, e12966.	6.7	13
34	Gait as an Integrative Measure and Predictor of Health Across Species. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 1411-1412.	3.6	9
35	TFAM Enhances Fat Oxidation and Attenuates High-Fat Dietâ€"Induced Insulin Resistance in Skeletal Muscle. Diabetes, 2019, 68, 1552-1564.	0.6	54
36	Targeting senescent cells alleviates obesityâ€induced metabolic dysfunction. Aging Cell, 2019, 18, e12950.	6.7	395

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37	The Relationship Between Frailty and Decreased Physical Performance With Death on the Kidney Transplant Waiting List. Progress in Transplantation, 2019, 29, 108-114.	0.7	27
38	The influence of GDF11 on brain fate and function. GeroScience, 2019, 41, 1-11.	4.6	28
39	Lengthâ€independent telomere damage drives postâ€mitotic cardiomyocyte senescence. EMBO Journal, 2019, 38, .	7.8	307
40	Frailty and Clinical Outcomes in Chronic Obstructive Pulmonary Disease. Annals of the American Thoracic Society, 2019, 16, 217-224.	3.2	75
41	Senolytics in idiopathic pulmonary fibrosis: Results from a first-in-human, open-label, pilot study. EBioMedicine, 2019, 40, 554-563.	6.1	746
42	Hyperoxia-induced Cellular Senescence in Fetal Airway Smooth Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 51-60.	2.9	56
43	Targeting Senescent Cells in Fibrosis: Pathology, Paradox, and Practical Considerations. Current Rheumatology Reports, 2018, 20, 3.	4.7	74
44	Circulating levels of monocyte chemoattractant proteinâ€1 as a potential measure of biological age in mice and frailty in humans. Aging Cell, 2018, 17, e12706.	6.7	77
45	Cellular Senescence Biomarker p16INK4a+ Cell Burden in Thigh Adipose is Associated With Poor Physical Function in Older Women. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 939-945.	3.6	92
46	Plasma Sphingolipids are Associated With Gait Parameters in the Mayo Clinic Study of Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 960-965.	3.6	19
47	Loss of Ovarian Hormones and Accelerated Somatic and Mental Aging. Physiology, 2018, 33, 374-383.	3.1	35
48	Senolytics improve physical function and increase lifespan in old age. Nature Medicine, 2018, 24, 1246-1256.	30.7	1,384
49	Association between high fat consumption, myelin loss, and mitochondrial dynamics. FASEB Journal, 2018, 32, 543.15.	0.5	0
50	17Î±-Estradiol Alleviates Age-related Metabolic and Inflammatory Dysfunction in Male Mice Without Inducing Feminization. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 3-15.	3.6	91
51	Cellular senescence mediates fibrotic pulmonary disease. Nature Communications, 2017, 8, 14532.	12.8	1,008
52	Physical Resilience: Opportunities and Challenges in Translation. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 978-979.	3.6	28
53	The Impact of Frailty on Patient-Centered Outcomes Following Aortic Valve Replacement. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 917-921.	3.6	36
54	A longitudinal study of whole body, tissue, and cellular physiology in a mouse model of fibrosing NASH with high fidelity to the human condition. American Journal of Physiology - Renal Physiology, 2017, 312, G666-G680.	3.4	55

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55	Relationship between pre-transplant physical function and outcomes after kidney transplant. Clinical Transplantation, 2017, 31, e12952.	1.6	31
56	Targeting cellular senescence prevents age-related bone loss in mice. Nature Medicine, 2017, 23, 1072-1079.	30.7	754
57	High fat diet and exercise lead to a disrupted and pathogenic DNA methylome in mouse liver. Epigenetics, 2017, 12, 55-69.	2.7	40
58	Cellular senescence: Implications for metabolic disease. Molecular and Cellular Endocrinology, 2017, 455, 93-102.	3.2	63
59	Biology of premature ageing in survivors of cancer. ESMO Open, 2017, 2, e000250.	4.5	148
60	Identification of Senescent Cells in the Bone Microenvironment. Journal of Bone and Mineral Research, 2016, 31, 1920-1929.	2.8	352
61	CXCL10-Mediates Macrophage, but not Other Innate Immune Cells-Associated Inflammation in Murine Nonalcoholic Steatohepatitis. Scientific Reports, 2016, 6, 28786.	3.3	99
62	Disease drivers of aging. Annals of the New York Academy of Sciences, 2016, 1386, 45-68.	3.8	97
63	Energetic interventions for healthspan and resiliency with aging. Experimental Gerontology, 2016, 86, 73-83.	2.8	39
64	Quantification of GDF11 and Myostatin in Human Aging and Cardiovascular Disease. Cell Metabolism, 2016, 23, 1207-1215.	16.2	176
65	Exercise Prevents Diet-Induced Cellular Senescence in Adipose Tissue. Diabetes, 2016, 65, 1606-1615.	0.6	185
66	Cellular Senescence and the Biology of Aging, Disease, and Frailty. Nestle Nutrition Institute Workshop Series, 2015, 83, 11-18.	0.1	117
67	Myostatin as a mediator of sarcopenia versus homeostatic regulator of muscle mass: insights using a new mass spectrometry-based assay. Skeletal Muscle, 2015, 5, 21.	4.2	93
68	Targeting senescent cells enhances adipogenesis and metabolic function in old age. ELife, 2015, 4, e12997.	6.0	436
69	JAK inhibition alleviates the cellular senescence-associated secretory phenotype and frailty in old age. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6301-10.	7.1	543
70	Conditional deletion of Hdac3 in osteoprogenitor cells attenuates diet-induced systemic metabolic dysfunction. Molecular and Cellular Endocrinology, 2015, 410, 42-51.	3.2	12
71	TRAIL receptor deletion in mice suppresses the inflammation of nutrient excess. Journal of Hepatology, 2015, 62, 1156-1163.	3.7	85
72	Shear wave elastography of passive skeletal muscle stiffness: Influences of sex and age throughout adulthood. Clinical Biomechanics, 2015, 30, 22-27.	1.2	223

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73	The Achillesâ€™ heel of senescent cells: from transcriptome to senolytic drugs. Aging Cell, 2015, 14, 644-658.	6.7	1,534
74	Cellular Senescence in Type 2 Diabetes: A Therapeutic Opportunity. Diabetes, 2015, 64, 2289-2298.	0.6	294
75	Effects of exercise on vasomotor function and vascular distensibility in angiotensin IIâ€induced hypertension. FASEB Journal, 2015, 29, 994.25.	0.5	0
76	Body Composition During Childhood and Adolescence: Relations to Bone Strength and Microstructure. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 4641-4648.	3.6	45
77	Regenerating Skeletal Muscle in the Face of Aging and Disease. American Journal of Physical Medicine and Rehabilitation, 2014, 93, S88-S96.	1.4	17
78	Measuring Gait Speed in the Out-Patient Clinic: Methodology and Feasibility. Respiratory Care, 2014, 59, 531-537.	1.6	72
79	Glycolytic fastâ€twitch muscle fiber restoration counters adverse ageâ€related changes in body composition and metabolism. Aging Cell, 2014, 13, 80-91.	6.7	73
80	Preclinical Studies on Neurobehavioral and Neuromuscular Effects of Cocaine Hydrolase Gene Therapy in Mice. Journal of Molecular Neuroscience, 2014, 53, 409-416.	2.3	22
81	Liver-Specific GH Receptor Gene-Disrupted (LiGHRKO) Mice Have Decreased Endocrine IGF-I, Increased Local IGF-I, and Altered Body Size, Body Composition, and Adipokine Profiles. Endocrinology, 2014, 155, 1793-1805.	2.8	125
82	Physiologic and metabolic safety of butyrylcholinesterase gene therapy in mice. Vaccine, 2014, 32, 4155-4162.	3.8	21
83	Myostatin and Sarcopenia: Opportunities and Challenges - A Mini-Review. Gerontology, 2014, 60, 289-293.	2.8	145
84	Determinants of Gait Speed in COPD. Chest, 2014, 146, 104-110.	0.8	48
85	Growth hormone action predicts age-related white adipose tissue dysfunction and senescent cell burden in mice. Aging, 2014, 6, 575-586.	3.1	107
86	The Biology of Aging: Role in Cancer, Metabolic Dysfunction, and Health Disparities. , 2014, , 91-118.		0
87	Influence of fish oil on skeletal muscle mitochondrial energetics and lipid metabolites during high-fat diet. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E1391-E1403.	3.5	116
88	Skeletal muscle mass is associated with bone geometry and microstructure and serum insulin-like growth factor binding protein-2 levels in adult women and men. Journal of Bone and Mineral Research, 2012, 27, 2159-2169.	2.8	88
89	The A2b Adenosine Receptor Modulates Glucose Homeostasis and Obesity. PLoS ONE, 2012, 7, e40584.	2.5	97
90	Building muscle, browning fat and preventing obesity by inhibiting myostatin. Diabetologia, 2012, 55, 13-17.	6.3	38

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91	Clearance of p16Ink4a-positive senescent cells delays ageing-associated disorders. Nature, 2011, 479, 232-236.	27.8	2,806
92	Substitution at carbon 2 of 19-nor-1Î±,25-dihydroxyvitamin D3 with 3-hydroxypropyl group generates an analogue with enhanced chemotherapeutic potency in PC-3 prostate cancer cells. Journal of Steroid Biochemistry and Molecular Biology, 2011, 127, 269-275.	2.5	28
93	Metabolic benefits of resistance training and fast glycolytic skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E3-E10.	3.5	90
94	Acute exercise activates AMPK and eNOS in the mouse aorta. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1255-H1265.	3.2	67
95	Clinical Meaningfulness of the Changes in Muscle Performance and Physical Function Associated With Testosterone Administration in Older Men With Mobility Limitation. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 1090-1099.	3.6	141
96	<i>Brd2</i> disruption in mice causes severe obesity without TypeÂ2 diabetes. Biochemical Journal, 2010, 425, 71-85.	3.7	162
97	Commentaries on Viewpoint: Gold standards for scientists who are conducting animal-based exercise studies. Journal of Applied Physiology, 2010, 108, 222-225.	2.5	19
98	Habitual Physical Activity Levels Are Associated with Performance in Measures of Physical Function and Mobility in Older Men. Journal of the American Geriatrics Society, 2010, 58, 1727-1733.	2.6	116
99	Mice Deficient in Phosphofructokinaseâ€M Have Greatly Decreased Fat Stores. Obesity, 2010, 18, 434-440.	3.0	10
100	Postnatal PPARÎ´ Activation and Myostatin Inhibition Exert Distinct yet Complimentary Effects on the Metabolic Profile of Obese Insulin-Resistant Mice. PLoS ONE, 2010, 5, e11307.	2.5	58
101	Adverse Events Associated with Testosterone Administration. New England Journal of Medicine, 2010, 363, 109-122.	27.0	1,293
102	Myostatin Inhibition Enhances the Effects of Exercise on Performance and Metabolic Outcomes in Aged Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2009, 64A, 940-948.	3.6	151
103	Effects of testosterone therapy on muscle performance and physical function in older men with mobility limitations (The TOM Trial): Design and methods. Contemporary Clinical Trials, 2009, 30, 133-140.	1.8	28
104	Palmitate alters neuregulin signaling and biology in cardiac myocytes. Biochemical and Biophysical Research Communications, 2009, 379, 32-37.	2.1	18
105	Serum Neuregulin-1Î² as a Biomarker of Cardiovascular Fitness. Open Biomarkers Journal, 2009, 2, 1-5.	0.1	23
106	Tests of Muscle Strength and Physical Function: Reliability and Discrimination of Performance in Younger and Older Men and Older Men with Mobility Limitations. Journal of the American Geriatrics Society, 2008, 56, 2118-2123.	2.6	71
107	Effects of dihydrotestosterone on differentiation and proliferation of human mesenchymal stem cells and preadipocytes. Molecular and Cellular Endocrinology, 2008, 296, 32-40.	3.2	138
108	Fast/Glycolytic Muscle Fiber Growth Reduces Fat Mass and Improves Metabolic Parameters in Obese Mice. Cell Metabolism, 2008, 7, 159-172.	16.2	331

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109	Deletion of Cavin/PTRF Causes Global Loss of Caveolae, Dyslipidemia, and Glucose Intolerance. Cell Metabolism, 2008, 8, 310-317.	16.2	313
110	Effects of Fenofibrate on Cardiac Remodeling in Aldosterone-Induced Hypertension. Hypertension, 2007, 50, 489-496.	2.7	53
111	Transcriptional Profiling of Testosterone-Regulated Genes in the Skeletal Muscle of Human Immunodeficiency Virus-Infected Men Experiencing Weight Loss. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 2793-2802.	3.6	28
112	Peroxisome Proliferator-Activated Receptor Î±â€"Independent Actions of Fenofibrate Exacerbates Left Ventricular Dilation and Fibrosis in Chronic Pressure Overload. Hypertension, 2007, 49, 1084-1094.	2.7	57
113	Skeletal Muscle Fiber-type Switching, Exercise Intolerance, and Myopathy in PGC-1Î± Muscle-specific Knock-out Animals. Journal of Biological Chemistry, 2007, 282, 30014-30021.	3.4	530
114	The Transcriptional Coactivator PGC-1Î² Drives the Formation of Oxidative Type IIX Fibers in Skeletal Muscle. Cell Metabolism, 2007, 5, 35-46.	16.2	343
115	Muscle Impairments and Behavioral Factors Mediate Functional Limitations and Disability Following Stroke. Physical Therapy, 2006, 86, 1342-1350.	2.4	85
116	Thiazolidinediones can rapidly activate AMP-activated protein kinase in mammalian tissues. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E175-E181.	3.5	247
117	The expression of neuregulin and erbB receptors in human skeletal muscle: effects of progressive resistance training. European Journal of Applied Physiology, 2005, 94, 371-375.	2.5	20
118	Neuregulin-1Î± and Î² isoform expression in cardiac microvascular endothelial cells and function in cardiac myocytes in vitro. Experimental Cell Research, 2005, 311, 135-146.	2.6	98
119	Oleate prevents palmitate-induced cytotoxic stress in cardiac myocytes. Biochemical and Biophysical Research Communications, 2005, 336, 309-315.	2.1	129
120	Contraction-mediated mTOR, p70S6k, and ERK1/2 phosphorylation in aged skeletal muscle. Journal of Applied Physiology, 2004, 97, 243-248.	2.5	109
121	Cardiac Endothelial Cells Regulate Reactive Oxygen Species-induced Cardiomyocyte Apoptosis through Neuregulin-1Î²/erbB4 Signaling. Journal of Biological Chemistry, 2004, 279, 51141-51147.	3.4	167
122	High-Intensity Resistance Training Improves Muscle Strength, Self-Reported Function, and Disability in Long-Term Stroke Survivors. Stroke, 2004, 35, 1404-1409.	2.0	275
123	Title is missing!. American Journal of Physical Medicine and Rehabilitation, 2003, 82, 605-613.	1.4	3
124	Mechanisms in the pathogenesis of diabetic cardiomyopathy. Current Opinion in Endocrinology, Diabetes and Obesity, 2003, 10, 251-255.	0.6	5
125	Differential activation of mTOR signaling by contractile activity in skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 285, R1086-R1090.	1.8	89
126	Changes in Function and Disability After Resistance Training: Does Velocity Matter?. American Journal of Physical Medicine and Rehabilitation, 2003, 82, 605-613.	1.4	63

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127	Regulation of neuregulin/ErbB signaling by contractile activity in skeletal muscle. American Journal of Physiology - Cell Physiology, 2003, 284, C1149-C1155.	4.6	95
128	Highâ€Velocity Resistance Training Increases Skeletal Muscle Peak Power in Older Women. Journal of the American Geriatrics Society, 2002, 50, 655-662.	2.6	371