

Bret H Goodpaster

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

19,310
citations

28274

55
h-index

46799

89
g-index

92
all docs

92
docs citations

92
times ranked

19434
citing authors

#	ARTICLE	IF	CITATIONS
1	The Loss of Skeletal Muscle Strength, Mass, and Quality in Older Adults: The Health, Aging and Body Composition Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 1059-1064.	3.6	2,216
2	Strength, But Not Muscle Mass, Is Associated With Mortality in the Health, Aging and Body Composition Study Cohort. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 72-77.	3.6	1,299
3	Longitudinal study of muscle strength, quality, and adipose tissue infiltration. <i>American Journal of Clinical Nutrition</i> , 2009, 90, 1579-1585.	4.7	1,042
4	Attenuation of skeletal muscle and strength in the elderly: The Health ABC Study. <i>Journal of Applied Physiology</i> , 2001, 90, 2157-2165.	2.5	976
5	Skeletal Muscle Lipid Content and Insulin Resistance: Evidence for a Paradox in Endurance-Trained Athletes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001, 86, 5755-5761.	3.6	939
6	Skeletal muscle attenuation determined by computed tomography is associated with skeletal muscle lipid content. <i>Journal of Applied Physiology</i> , 2000, 89, 104-110.	2.5	713
7	Skeletal muscle fatty acid metabolism in association with insulin resistance, obesity, and weight loss. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 277, E1130-E1141.	3.5	629
8	Metabolic Flexibility in Health and Disease. <i>Cell Metabolism</i> , 2017, 25, 1027-1036.	16.2	586
9	Thigh adipose tissue distribution is associated with insulin resistance in obesity and in type 2 diabetes mellitus. <i>American Journal of Clinical Nutrition</i> , 2000, 71, 885-892.	4.7	584
10	Obesity, Regional Body Fat Distribution, and the Metabolic Syndrome in Older Men and Women. <i>Archives of Internal Medicine</i> , 2005, 165, 777.	3.8	532
11	Association Between Regional Adipose Tissue Distribution and Both Type 2 Diabetes and Impaired Glucose Tolerance in Elderly Men and Women. <i>Diabetes Care</i> , 2003, 26, 372-379.	8.6	526
12	Effects of Diet and Physical Activity Interventions on Weight Loss and Cardiometabolic Risk Factors in Severely Obese Adults. <i>JAMA - Journal of the American Medical Association</i> , 2010, 304, 1795.	7.4	447
13	Subdivisions of subcutaneous abdominal adipose tissue and insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 278, E941-E948.	3.5	443
14	Intramuscular lipid content is increased in obesity and decreased by weight loss. <i>Metabolism: Clinical and Experimental</i> , 2000, 49, 467-472.	3.4	419
15	Strength and Muscle Quality in a Well-Functioning Cohort of Older Adults: The Health, Aging and Body Composition Study. <i>Journal of the American Geriatrics Society</i> , 2003, 51, 323-330.	2.6	417
16	Skeletal Muscle Triglycerides, Diacylglycerols, and Ceramides in Insulin Resistance. <i>Diabetes</i> , 2011, 60, 2588-2597.	0.6	340
17	Enhanced Fat Oxidation Through Physical Activity Is Associated With Improvements in Insulin Sensitivity in Obesity. <i>Diabetes</i> , 2003, 52, 2191-2197.	0.6	330
18	Effects of physical activity on strength and skeletal muscle fat infiltration in older adults: a randomized controlled trial. <i>Journal of Applied Physiology</i> , 2008, 105, 1498-1503.	2.5	330

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19	Exercise-induced alterations in intramyocellular lipids and insulin resistance: the athlete's paradox revisited. American Journal of Physiology - Endocrinology and Metabolism, 2008, 294, E882-E888.	3.5	302
20	Adipose tissue in muscle: a novel depot similar in size to visceral adipose tissue. American Journal of Clinical Nutrition, 2005, 81, 903-910.	4.7	291
21	Physical Activity as a Preventative Factor for Frailty: The Health, Aging, and Body Composition Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2009, 64A, 61-68.	3.6	280
22	Exerkines in health, resilience and disease. Nature Reviews Endocrinology, 2022, 18, 273-289.	9.6	268
23	Reduced physical activity increases intermuscular adipose tissue in healthy young adults. American Journal of Clinical Nutrition, 2007, 85, 377-384.	4.7	253
24	Effects of Exercise and Aging on Skeletal Muscle. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a029785.	6.2	236
25	Skeletal Muscle Lipid Content and Insulin Resistance: Evidence for a Paradox in Endurance-Trained Athletes. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 5755-5761.	3.6	223
26	Role of intramyocellular lipids in human health. Trends in Endocrinology and Metabolism, 2012, 23, 391-398.	7.1	210
27	Inflammation and Race and Gender Differences in Computerized Tomography-measured Adipose Depots. Obesity, 2009, 17, 1062-1069.	3.0	200
28	Visceral Obesity and Insulin Resistance Are Associated with Plasma Aldosterone Levels in Women. Obesity, 1999, 7, 355-362.	4.0	197
29	Surgical vs Medical Treatments for Type 2 Diabetes Mellitus. JAMA Surgery, 2014, 149, 707.	4.3	194
30	Physical Inactivity and Obesity Underlie the Insulin Resistance of Aging. Diabetes Care, 2009, 32, 1547-1549.	8.6	193
31	Composition of Skeletal Muscle Evaluated with Computed Tomography. Annals of the New York Academy of Sciences, 2000, 904, 18-24.	3.8	187
32	Insulin Resistance Is Associated With Higher Intramyocellular Triglycerides in Type I but Not Type II Myocytes Concomitant With Higher Ceramide Content. Diabetes, 2010, 59, 80-88.	0.6	182
33	Skeletal muscle lipid accumulation in obesity, insulin resistance, and type 2 diabetes. Pediatric Diabetes, 2004, 5, 219-226.	2.9	162
34	Precision exercise medicine: understanding exercise response variability. British Journal of Sports Medicine, 2019, 53, 1141-1153.	6.7	162
35	Implications of low muscle mass across the continuum of care: a narrative review. Annals of Medicine, 2018, 50, 675-693.	3.8	153
36	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. Cell, 2020, 181, 1464-1474.	28.9	147

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37	Effects of Obesity on Substrate Utilization during Exercise. <i>Obesity</i> , 2002, 10, 575-584.	4.0	138
38	Exercise and Weight Loss Improve Muscle Mitochondrial Respiration, Lipid Partitioning, and Insulin Sensitivity After Gastric Bypass Surgery. <i>Diabetes</i> , 2015, 64, 3737-3750.	0.6	134
39	The Relationship of Reduced Peripheral Nerve Function and Diabetes With Physical Performance in Older White and Black Adults. <i>Diabetes Care</i> , 2008, 31, 1767-1772.	8.6	110
40	Moderate Exercise Attenuates the Loss of Skeletal Muscle Mass That Occurs With Intentional Caloric Restriction-Induced Weight Loss in Older, Overweight to Obese Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 575-580.	3.6	108
41	Clinical trial demonstrates exercise following bariatric surgery improves insulin sensitivity. <i>Journal of Clinical Investigation</i> , 2015, 125, 248-257.	8.2	108
42	Skeletal muscle triglyceride: Marker or mediator of obesity-induced insulin resistance in type 2 diabetes mellitus?. <i>Current Diabetes Reports</i> , 2002, 2, 216-222.	4.2	106
43	Mitochondrial Deficiency Is Associated With Insulin Resistance. <i>Diabetes</i> , 2013, 62, 1032-1035.	0.6	104
44	Adipose tissue infiltration in skeletal muscle: age patterns and association with diabetes among men of African ancestry. <i>American Journal of Clinical Nutrition</i> , 2008, 87, 1590-1595.	4.7	101
45	Triheptanoin versus trioctanoin for long-chain fatty acid oxidation disorders: a double blinded, randomized controlled trial. <i>Journal of Inherited Metabolic Disease</i> , 2017, 40, 831-843.	3.6	89
46	Impact of Weight Loss on Physical Function with Changes in Strength, Muscle Mass, and Muscle Fat Infiltration in Overweight to Moderately Obese Older Adults: A Randomized Clinical Trial. <i>Journal of Obesity</i> , 2011, 2011, 1-10.	2.7	85
47	Body Composition Remodeling and Mortality: The Health Aging and Body Composition Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, glw163.	3.6	82
48	A Novel Endocrine Role for the BAT-Released Lipokine 12,13-diHOME to Mediate Cardiac Function. <i>Circulation</i> , 2021, 143, 145-159.	1.6	81
49	Skeletal Muscle Mitochondrial Function and Fatigability in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1379-1385.	3.6	79
50	Skeletal muscle lipid concentration quantified by magnetic resonance imaging. <i>American Journal of Clinical Nutrition</i> , 2004, 79, 748-754.	4.7	77
51	Transition to Sarcopenia and Determinants of Transitions in Older Adults: A Population-Based Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 751-758.	3.6	76
52	Exercise increases mitochondrial complex I activity and DRP1 expression in the brains of aged mice. <i>Experimental Gerontology</i> , 2017, 90, 1-13.	2.8	65
53	A role for exercise after bariatric surgery?. <i>Diabetes, Obesity and Metabolism</i> , 2016, 18, 16-23.	4.4	64
54	Effect of Physical Activity versus Health Education on Physical Function, Grip Strength and Mobility. <i>Journal of the American Geriatrics Society</i> , 2017, 65, 1427-1433.	2.6	63

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55	Effects of acute lipid overload on skeletal muscle insulin resistance, metabolic flexibility, and mitochondrial performance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E1117-E1124.	3.5	60
56	Calorie Restriction-induced Weight Loss and Exercise Have Differential Effects on Skeletal Muscle Mitochondria Despite Similar Effects on Insulin Sensitivity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 81-87.	3.6	59
57	Magnetic Resonance Imaging in Human Body Composition Research: From Quantitative to Qualitative Tissue Measurement. <i>Annals of the New York Academy of Sciences</i> , 2000, 904, 12-17.	3.8	56
58	Skeletal muscle as a regulator of the longevity protein, Klotho. <i>Frontiers in Physiology</i> , 2014, 5, 189.	2.8	52
59	Serum Autotaxin/ENPP2 correlates with insulin resistance in older humans with obesity. <i>Obesity</i> , 2015, 23, 2371-2376.	3.0	52
60	Arsenic induces sustained impairment of skeletal muscle and muscle progenitor cell ultrastructure and bioenergetics. <i>Free Radical Biology and Medicine</i> , 2014, 74, 64-73.	2.9	49
61	Randomized trial reveals that physical activity and energy expenditure are associated with weight and body composition after RYGB. <i>Obesity</i> , 2017, 25, 1206-1216.	3.0	45
62	Intramyocellular lipid droplets and insulin sensitivity, the human perspective. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 1242-1249.	2.4	44
63	Exercise and Bariatric Surgery: An Effective Therapeutic Strategy. <i>Exercise and Sport Sciences Reviews</i> , 2018, 46, 262-270.	3.0	44
64	Plasma lactate as a marker of metabolic health: Implications of elevated lactate for impairment of aerobic metabolism in the metabolic syndrome. <i>Surgery</i> , 2019, 166, 861-866.	1.9	43
65	Exercise Response Variations in Skeletal Muscle PCr Recovery Rate and Insulin Sensitivity Relate to Muscle Epigenomic Profiles in Individuals With Type 2 Diabetes. <i>Diabetes Care</i> , 2018, 41, 2245-2254.	8.6	41
66	Dose response of exercise training following roux-en-Y gastric bypass surgery: A randomized trial. <i>Obesity</i> , 2015, 23, 2454-2461.	3.0	40
67	Interactions Among Glucose Delivery, Transport, and Phosphorylation That Underlie Skeletal Muscle Insulin Resistance in Obesity and Type 2 Diabetes: Studies With Dynamic PET Imaging. <i>Diabetes</i> , 2014, 63, 1058-1068.	0.6	39
68	CrossTalk proposal: Intramyocellular ceramide accumulation does modulate insulin resistance. <i>Journal of Physiology</i> , 2016, 594, 3167-3170.	2.9	39
69	Impaired Mitochondrial Energetics Characterize Poor Early Recovery of Muscle Mass Following Hind Limb Unloading in Old Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 1313-1322.	3.6	37
70	Relationship among physical activity, sedentary behaviors, and cardiometabolic risk factors during gastric bypass surgery-induced weight loss. <i>Surgery for Obesity and Related Diseases</i> , 2017, 13, 210-219.	1.2	34
71	The relationship between mitochondrial function and walking performance in older adults with a wide range of physical function. <i>Experimental Gerontology</i> , 2016, 81, 1-7.	2.8	33
72	Sensory and Motor Peripheral Nerve Function and Longitudinal Changes in Quadriceps Strength. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 464-470.	3.6	30

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73	Effect of acute physiological free fatty acid elevation in the context of hyperinsulinemia on fiber type-specific IMCL accumulation. <i>Journal of Applied Physiology</i> , 2017, 123, 71-78.	2.5	24
74	Conjugated Linoleic Acid Modulates Clinical Responses to Oral Nitrite and Nitrate. <i>Hypertension</i> , 2017, 70, 634-644.	2.7	23
75	Intramyocellular Lipid Droplet Size Rather Than Total Lipid Content is Related to Insulin Sensitivity After 8 Weeks of Overfeeding. <i>Obesity</i> , 2017, 25, 2079-2087.	3.0	22
76	Effects of Oral Sodium Nitrite on Blood Pressure, Insulin Sensitivity, and Intima-Media Arterial Thickening in Adults With Hypertension and Metabolic Syndrome. <i>Hypertension</i> , 2020, 76, 866-874.	2.7	19
77	Weight Loss and Exercise Differentially Affect Insulin Sensitivity, Body Composition, Cardiorespiratory Fitness, and Muscle Strength in Older Adults With Obesity: A Randomized Controlled Trial. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 1088-1097.	3.6	18
78	Stewing in Not-So-Good Juices: Interactions of Skeletal Muscle With Adipose Secretions. <i>Diabetes</i> , 2015, 64, 3055-3057.	0.6	15
79	Decreased Mitochondrial Dynamics Is Associated with Insulin Resistance, Metabolic Rate, and Fitness in African Americans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 1210-1220.	3.6	15
80	The Relationship Between Intermuscular Fat and Physical Performance Is Moderated by Muscle Area in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 115-122.	3.6	15
81	The Metabolic Significance of Intermuscular Adipose Tissue: Is IMAT a Friend or a Foe to Metabolic Health?. <i>Diabetes</i> , 2021, 70, 2457-2467.	0.6	15
82	Mitochondrial Respiration is Associated with Lower Energy Expenditure and Lower Aerobic Capacity in African American Women. <i>Obesity</i> , 2018, 26, 903-909.	3.0	14
83	Peripheral Nerve Function and Lower Extremity Muscle Power in Older Men. <i>Archives of Physical Medicine and Rehabilitation</i> , 2014, 95, 726-733.	0.9	13
84	Asymmetry in CT Scan Measures of Thigh Muscle 2 Months After Hip Fracture: The Baltimore Hip Studies. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 753-756.	3.6	10
85	Resting and exercise energy metabolism in weight-reduced adults with severe obesity. <i>Obesity</i> , 2016, 24, 1290-1298.	3.0	8
86	CrossTalk proposal: Intramuscular lipid accumulation causes insulin resistance. <i>Journal of Physiology</i> , 2020, 598, 3803-3806.	2.9	8
87	Asymmetry in CT Scan Measures of Thigh Muscle 2 Months After Hip Fracture: The Baltimore Hip Studies. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1276-1280.	3.6	6
88	Weighty Matters in HFpEF and Aging. <i>JACC: Heart Failure</i> , 2018, 6, 650-652.	4.1	5
89	Improved Mitochondrial Function Is Linked With Improved Insulin Sensitivity Through Reductions in FFA. <i>Diabetes</i> , 2014, 63, 2611-2612.	0.6	4
90	Rebuttal from Bret H. Goodpaster. <i>Journal of Physiology</i> , 2020, 598, 3811-3811.	2.9	0

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91	Higher energy expenditure but lower physical activity levels with increasing obesity. FASEB Journal, 2012, 26, 1012.4.	0.5	0