

# Todd A Trappe

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,629  
citations

136740

32  
h-index

189595

50  
g-index

51  
all docs

51  
docs citations

51  
times ranked

4015  
citing authors

#	ARTICLE	IF	CITATIONS
1	Collagen, cross-linking, and advanced glycation end products in aging human skeletal muscle. <i>Journal of Applied Physiology</i> , 2007, 103, 2068-2076.	1.2	315
2	Single Muscle Fibre Contractile Properties in Young and Old Men and Women. <i>Journal of Physiology</i> , 2003, 552, 47-58.	1.3	278
3	Human single muscle fibre function with 84 day bed-rest and resistance exercise. <i>Journal of Physiology</i> , 2004, 557, 501-513.	1.3	215
4	Transcriptome signature of resistance exercise adaptations: mixed muscle and fiber type specific profiles in young and old adults. <i>Journal of Applied Physiology</i> , 2012, 112, 1625-1636.	1.2	209
5	Single-cell transcriptional profiles in human skeletal muscle. <i>Scientific Reports</i> , 2020, 10, 229.	1.6	188
6	Aerobic exercise training improves whole muscle and single myofiber size and function in older women. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R1452-R1459.	0.9	183
7	Aerobic exercise training induces skeletal muscle hypertrophy and age-dependent adaptations in myofiber function in young and older men. <i>Journal of Applied Physiology</i> , 2012, 113, 1495-1504.	1.2	160
8	Influence of acetaminophen and ibuprofen on skeletal muscle adaptations to resistance exercise in older adults. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R655-R662.	0.9	149
9	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. <i>Cell</i> , 2020, 181, 1464-1474.	13.5	147
10	Skeletal muscle proteolysis in response to short-term unloading in humans. <i>Journal of Applied Physiology</i> , 2008, 105, 902-906.	1.2	108
11	Decreased thin filament density and length in human atrophic soleus muscle fibers after spaceflight. <i>Journal of Applied Physiology</i> , 2000, 88, 567-572.	1.2	104
12	Effects of aging and lifelong aerobic exercise on basal and exercise-induced inflammation. <i>Journal of Applied Physiology</i> , 2020, 128, 87-99.	1.2	96
13	Single muscle fiber function with concurrent exercise or nutrition countermeasures during 60 days of bed rest in women. <i>Journal of Applied Physiology</i> , 2007, 103, 1242-1250.	1.2	82
14	Disproportionate loss of thin filaments in human soleus muscle after 17-day bed rest. , 1998, 21, 1280-1289.		80
15	Cardiovascular and skeletal muscle health with lifelong exercise. <i>Journal of Applied Physiology</i> , 2018, 125, 1636-1645.	1.2	80
16	Influence of age and resistance exercise on human skeletal muscle proteolysis: a microdialysis approach. <i>Journal of Physiology</i> , 2004, 554, 803-813.	1.3	77
17	Cardiorespiratory responses to physical work during and following 17 days of bed rest and spaceflight. <i>Journal of Applied Physiology</i> , 2006, 100, 951-957.	1.2	77
18	Effects of prostaglandins and COX-inhibiting drugs on skeletal muscle adaptations to exercise. <i>Journal of Applied Physiology</i> , 2013, 115, 909-919.	1.2	76

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19	Human soleus single muscle fiber function with exercise or nutrition countermeasures during 60 days of bed rest. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R939-R947.	0.9	70
20	Skeletal muscle signature of a champion sprint runner. <i>Journal of Applied Physiology</i> , 2015, 118, 1460-1466.	1.2	65
21	Human soleus and vastus lateralis muscle protein metabolism with an amino acid infusion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 288, E479-E485.	1.8	63
22	Effect of acute resistance exercise and sex on human patellar tendon structural and regulatory mRNA expression. <i>Journal of Applied Physiology</i> , 2009, 106, 468-475.	1.2	59
23	Contractile and connective tissue protein content of human skeletal muscle: effects of 35 and 90 days of simulated microgravity and exercise countermeasures. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R1722-R1727.	0.9	57
24	Human skeletal muscle fiber type specific protein content. <i>Analytical Biochemistry</i> , 2012, 425, 175-182.	1.1	55
25	Thin filament diversity and physiological properties of fast and slow fiber types in astronaut leg muscles. <i>Journal of Applied Physiology</i> , 2002, 92, 817-825.	1.2	49
26	Prostaglandin and myokine involvement in the cyclooxygenase-inhibiting drug enhancement of skeletal muscle adaptations to resistance exercise in older adults. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R198-R205.	0.9	44
27	Human vastus lateralis and soleus muscles display divergent cellular contractile properties. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R1593-R1598.	0.9	43
28	Effect of a cyclooxygenase-2 inhibitor on postexercise muscle protein synthesis in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E354-E361.	1.8	43
29	COX Inhibitor Influence on Skeletal Muscle Fiber Size and Metabolic Adaptations to Resistance Exercise in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 1289-1294.	1.7	43
30	Influence of aging and long-term unloading on the structure and function of human skeletal muscle. This paper is one of a selection of papers published in this Special Issue, entitled 14th International Biochemistry of Exercise Conference "Muscles as Molecular and Metabolic Machines," and has undergone the Journal's usual peer review process. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009, 34, 459-464.	0.9	42
31	Titin and nebulin content in human skeletal muscle following eccentric resistance exercise. <i>Muscle and Nerve</i> , 2002, 25, 289-292.	1.0	41
32	Skeletal muscle size, function, and adiposity with lifelong aerobic exercise. <i>Journal of Applied Physiology</i> , 2020, 128, 368-378.	1.2	41
33	Quantification of Muscle Volume by Echography: Comparison with MRI Data on Subjects in Long-Term Bed Rest. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1092-1097.	0.7	36
34	Muscle proteins during 60-day bedrest in women: Impact of exercise or nutrition. <i>Muscle and Nerve</i> , 2009, 39, 463-471.	1.0	32
35	Prostaglandin $E_{2}$ /cyclooxygenase pathway in human skeletal muscle: influence of muscle fiber type and age. <i>Journal of Applied Physiology</i> , 2016, 120, 546-551.	1.2	29
36	Insulin stimulation of muscle protein synthesis in obese Zucker rats is not via a rapamycin-sensitive pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 279, E182-E187.	1.8	25

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37	Single-muscle fiber contractile properties in lifelong aerobic exercising women. <i>Journal of Applied Physiology</i> , 2019, 127, 1710-1719.	1.2	24
38	Effects of aging and lifelong aerobic exercise on basal and exercise-induced inflammation in women. <i>Journal of Applied Physiology</i> , 2020, 129, 1493-1504.	1.2	19
39	Cyclooxygenase mRNA expression in human patellar tendon at rest and after exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R192-R199.	0.9	15
40	Contractile protein concentrations in human single muscle fibers. <i>Journal of Muscle Research and Cell Motility</i> , 2004, 25, 55-59.	0.9	14
41	Aspirin as a COX inhibitor and anti-inflammatory drug in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2017, 123, 1610-1616.	1.2	14
42	Human skeletal muscle size with ultrasound imaging: a comprehensive review. <i>Journal of Applied Physiology</i> , 2022, 132, 1267-1279.	1.2	14
43	Local anesthetic effects on gene transcription in human skeletal muscle biopsies. <i>Muscle and Nerve</i> , 2013, 48, 591-593.	1.0	13
44	Effects of aging and lifelong aerobic exercise on expression of innate immune components in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2020, 129, 1483-1492.	1.2	12
45	Single muscle fibre contractile characteristics with lifelong endurance exercise. <i>Journal of Physiology</i> , 2021, 599, 3549-3565.	1.3	12
46	PERSONAL DIGITAL VIDEO: A METHOD TO MONITOR DRUG REGIMEN ADHERENCE DURING HUMAN CLINICAL INVESTIGATIONS. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006, 33, 1125-1127.	0.9	7
47	Human adipose and skeletal muscle tissue DNA, RNA, and protein content. <i>Journal of Applied Physiology</i> , 2021, 131, 1370-1379.	1.2	7
48	Muscle-Specific Substrate Use During Cycle Exercise at 1 G: Implications for Astronaut Muscle Health. <i>Aviation, Space, and Environmental Medicine</i> , 2013, 84, 789-796.	0.6	6
49	Low-dose aspirin and COX inhibition in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2020, 129, 1477-1482.	1.2	6
50	Influence of low-dose aspirin, resistance exercise, and sex on human skeletal muscle PGE <sub>2</sub> /COX pathway activity. <i>Physiological Reports</i> , 2021, 9, e14790.	0.7	4
51	Titin and nebulin content in human skeletal muscle following eccentric resistance exercise. <i>Muscle and Nerve</i> , 2002, 25, 289.	1.0	1