James A Timmons

List of Publications by Year
in descending order

83	8,522	71004	71088
papers	citations	43 h-index	80 g-index

88	88	88	11723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A human-based multi-gene signature enables quantitative drug repurposing for metabolic disease. ELife, 2022, 11, .	2.8	9
2	Human and mouse muscle transcriptomic analyses identify insulin receptor mRNA downregulation in hyperinsulinemiaâ€associated insulin resistance. FASEB Journal, 2022, 36, e22088.	0.2	18
3	Whole blood transcriptomic profiling identifies molecular pathways related to cardiovascular mortality in heart failure. European Journal of Heart Failure, 2022, 24, 1009-1019.	2.9	6
4	Molecular Transducers of Human Skeletal Muscle Remodeling under Different Loading States. Cell Reports, 2020, 32, 107980.	2.9	30
5	A statistical and biological response to an informatics appraisal of healthy aging gene signatures. Genome Biology, 2019, 20, 152.	3.8	1
6	Longevityâ€related molecular pathways are subject to midlife â€œswitchâ€in humans. Aging Cell, 2019, 18, e12970.	3.0	25
7	Novel approach reveals genomic landscapes of single-strand DNA breaks with nucleotide resolution in human cells. Nature Communications, 2019, 10, 5799.	5.8	38
8	A coding and non-coding transcriptomic perspective on the genomics of human metabolic disease. Nucleic Acids Research, 2018, 46, 7772-7792.	6.5	41
9	Molecular Diagnostics of Ageing and Tackling Age-related Disease. Trends in Pharmacological Sciences, 2017, 38, 67-80.	4.0	7
10	A dynamic ribosomal biogenesis response is not required for IGFâ€1â€“mediated hypertrophy of human primary myotubes. FASEB Journal, 2017, 31, 5196-5207.	0.2	9
11	A reverse genetics cellâ€based evaluation of genes linked to healthy human tissue age. FASEB Journal, 2017, 31, 96-108.	0.2	9
12	Effects of physical activity on the link between PGC-1a and FNDC5 in muscle, circulating Î™risin and UCP1 of white adipocytes in humans: A systematic review. F1000Research, 2017, 6, 286.	0.8	29
13	A Practical and Time-Efficient High-Intensity Interval Training Program Modifies Cardio-Metabolic Risk Factors in Adults with Risk Factors for Type II Diabetes. Frontiers in Endocrinology, 2017, 8, 229.	1.5	78
14	Effects of physical activity on the link between PGC-1a and FNDC5 in muscle, circulating Î™risin and UCP1 of white adipocytes in humans: A systematic review. F1000Research, 2017, 6, 286.	0.8	33
15	iGEMS: an integrated model for identification of alternative exon usage events. Nucleic Acids Research, 2016, 44, e109-e109.	6.5	18
16	Expression of protocadherin gamma in skeletal muscle tissue is associated with age and muscle weakness. Journal of Cachexia, Sarcopenia and Muscle, 2016, 7, 604-614.	2.9	55
17	Biomarkers of browning of white adipose tissue and their regulation during exercise- and diet-induced weight loss,. American Journal of Clinical Nutrition, 2016, 104, 557-565.	2.2	50
18	Molecular studies of exercise, skeletal muscle, and ageing. F1000Research, 2016, 5, 1087.	0.8	10

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19	Multiple sources of bias confound functional enrichment analysis of global -omics data. Genome Biology, 2015, 16, 186.	3.8	131
20	Single-Gene Genotyping and Personalized Preventive Care. JAMA - Journal of the American Medical Association, 2015, 314, 297.	3.8	0
21	A novel multi-tissue RNA diagnostic of healthy ageing relates to cognitive health status. Genome Biology, 2015, 16, 185.	3.8	189
22	Resistance to Aerobic Exercise Training Causes Metabolic Dysfunction and Reveals Novel Exercise-Regulated Signaling Networks. Diabetes, 2013, 62, 2717-2727.	0.3	68
23	Integrative pathway analysis of a genome-wide association study of VÌ‡o2max response to exercise training. Journal of Applied Physiology, 2013, 115, 1343-1359.	1.2	45
24	Molecular Networks of Human Muscle Adaptation to Exercise and Age. PLoS Genetics, 2013, 9, e1003389.	1.5	160
25	Focal adhesion kinase is required for IGF-I-mediated growth of skeletal muscle cells via a TSC2/mTOR/S6K1-associated pathway. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E183-E193.	1.8	68
26	Loss of neuronatin promotes â€œbrowningâ€•of primary mouse adipocytes while reducing Glut1-mediated glucose disposal. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E885-E894.	1.8	35
27	An essential role for Tbx15 in the differentiation of brown and â€œbriteâ€•but not white adipocytes. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1053-E1060.	1.8	75
28	Timeâ€series transcriptional profiling yields new perspectives on susceptibility to murine osteoarthritis. Arthritis and Rheumatism, 2012, 64, 3256-3266.	6.7	54
29	Is irisin a human exercise gene?. Nature, 2012, 488, E9-E10.	13.7	320
30	Recruited vs. nonrecruited molecular signatures of brown, â€œbrite,â€•and white adipose tissues. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E19-E31.	1.8	467
31	Suppression of Skeletal Muscle Turnover in Cancer Cachexia: Evidence from the Transcriptome in Sequential Human Muscle Biopsies. Clinical Cancer Research, 2012, 18, 2817-2827.	3.2	76
32	Variability in training-induced skeletal muscle adaptation. Journal of Applied Physiology, 2011, 110, 846-853.	1.2	161
33	High responders to resistance exercise training demonstrate differential regulation of skeletal muscle microRNA expression. Journal of Applied Physiology, 2011, 110, 309-317.	1.2	292
34	What happens if you pose the wrong questions?. Journal of Physiology, 2011, 589, 4799-4801.	1.3	2
35	Genes thatAKTto determine physiological heterogeneity in response to exercise. Experimental Physiology, 2011, 96, 259-260.	0.9	0
36	Gene-chip studies of adipogenesis-regulated microRNAs in mouse primary adipocytes and human obesity. BMC Endocrine Disorders, 2011, 11, 7.	0.9	113

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37	Genomics and Genetics in the Biology of Adaptation to Exercise. , 2011, 1, 1603-1648.		140
38	Modulation of MicroRNAs During Exercise and Disease in Human Skeletal Muscle. Exercise and Sport Sciences Reviews, 2011, 39, 218.	1.6	6
39	A transcriptional map of the impact of endurance exercise training on skeletal muscle phenotype. Journal of Applied Physiology, 2011, 110, 46-59.	1.2	209
40	Chronic Peroxisome Proliferator-activated Receptor Î³ (PPARÎ³) Activation of Epididymally Derived White Adipocyte Cultures Reveals a Population of Thermogenically Competent, UCP1-containing Adipocytes Molecularly Distinct from Classic Brown Adipocytes. Journal of Biological Chemistry, 2010, 285, 7153-7164.	1.6	1,131
41	Using molecular classification to predict gains in maximal aerobic capacity following endurance exercise training in humans. Journal of Applied Physiology, 2010, 108, 1487-1496.	1.2	296
42	Integration of microRNA changes in vivo identifies novel molecular features of muscle insulin resistance in type 2 diabetes. Genome Medicine, 2010, 2, 9.	3.6	225
43	Using transcriptomics to identify and validate novel biomarkers of human skeletal muscle cancer cachexia. Genome Medicine, 2010, 2, 1.	3.6	124
44	Skin Electroporation: Effects on Transgene Expression, DNA Persistence and Local Tissue Environment. PLoS ONE, 2009, 4, e7226.	1.1	122
45	Chapter 12 Using Functional Genomics to Study PINK1 and Metabolic Physiology. Methods in Enzymology, 2009, 457, 211-229.	0.4	3
46	The Importance of Brown Adipose Tissue. New England Journal of Medicine, 2009, 361, 415-421.	13.9	55
47	Distinct expression of muscleâ€specific MicroRNAs (myomirs) in brown adipocytes. Journal of Cellular Physiology, 2009, 218, 444-449.	2.0	138
48	Extremely short duration high intensity interval training substantially improves insulin action in young healthy males. BMC Endocrine Disorders, 2009, 9, 3.	0.9	286
49	Systematic analysis of adaptations in aerobic capacity and submaximal energy metabolism provides a unique insight into determinants of human aerobic performance. Journal of Applied Physiology, 2009, 106, 1479-1486.	1.2	155
50	Genomic variants at the PINK1 locus are associated with transcript abundance and plasma nonesterified fatty acid concentrations in European whites. FASEB Journal, 2008, 22, 3135-3145.	0.2	13
51	Thermogenically competent nonadrenergic recruitment in brown preadipocytes by a PPARÎ³ agonist. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E287-E296.	1.8	125
52	Commentary on Viewpoint: Perspective on the future use of genomics in exercise prescription. Journal of Applied Physiology, 2008, 104, 1250-1250.	1.2	7
53	Dysregulation of Mitochondrial Dynamics and the Muscle Transcriptome in ICU Patients Suffering from Sepsis Induced Multiple Organ Failure. PLoS ONE, 2008, 3, e3686.	1.1	137
54	Altered regulation of the PINK1 locus: a link between type 2 diabetes and neurodegeneration?. FASEB Journal, 2007, 21, 3653-3665.	0.2	83

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55	Myogenic gene expression signature establishes that brown and white adipocytes originate from distinct cell lineages. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4401-4406.	3.3	637
56	Using systems biology to define the essential biological networks responsible for adaptation to endurance exercise training. Biochemical Society Transactions, 2007, 35, 1306-1309.	1.6	35
57	The human PINK1 locus is regulated in vivo by a non-coding natural antisense RNA during modulation of mitochondrial function. BMC Genomics, 2007, 8, 74.	1.2	125
58	Expression profiling following local muscle inactivity in humans provides new perspective on diabetes-related genes. Genomics, 2006, 87, 165-172.	1.3	64
59	Does everything now make (anti)sense?. Biochemical Society Transactions, 2006, 34, 1148-1150.	1.6	29
60	Oligonucleotide microarray expression profiling: Human skeletal muscle phenotype and aerobic exercise training. IUBMB Life, 2006, 58, 15-24.	1.5	12
61	Chronic Treatment with the Î²2-Adrenoceptor Agonist Prodrug BRL-47672 Impairs Rat Skeletal Muscle Function by Inducing a Comprehensive Shift to a Faster Muscle Phenotype. Journal of Pharmacology and Experimental Therapeutics, 2006, 319, 439-446.	1.3	20
62	The Experimental Type 2 Diabetes Therapy Glycogen Phosphorylase Inhibition Can Impair Aerobic Muscle Function During Prolonged Contraction. Diabetes, 2006, 55, 1855-1861.	0.3	26
63	Glycogen phosphorylase inhibition as a therapeutic target: a review of the recent patent literature. Expert Opinion on Therapeutic Patents, 2006, 16, 459-466.	2.4	43
64	Considerations when using the significance analysis of microarrays (SAM) algorithm. BMC Bioinformatics, 2005, 6, 129.	1.2	101
65	Metabolic adaptations to repeated periods of contraction with reduced blood flow in canine skeletal muscle. BMC Physiology, 2005, 5, 11.	3.6	7
66	Modulation of extracellular matrix genes reflects the magnitude of physiological adaptation to aerobic exercise training in humans. BMC Biology, 2005, 3, 19.	1.7	108
67	Human muscle gene expression responses to endurance training provide a novel perspective on Duchenne muscular dystrophy. FASEB Journal, 2005, 19, 750-760.	0.2	128
68	Glycogen Phosphorylase Inhibition in Type 2 Diabetes Therapy: A Systematic Evaluation of Metabolic and Functional Effects in Rat Skeletal Muscle. Diabetes, 2005, 54, 2453-2459.	0.3	71
69	CHASING THE ???GHOST??? OF THE ACETYL GROUP DEFICIT. Medicine and Science in Sports and Exercise, 2005, 37, 162.	0.2	0
70	VEGF-A splice variants and related receptor expression in human skeletal muscle following submaximal exercise. Journal of Applied Physiology, 2005, 98, 2137-2146.	1.2	78
71	The Effect of the Î²2-Adrenoceptor Agonist Prodrug BRL-47672 on Cardiovascular Function, Skeletal Muscle Myosin Heavy Chain, and MyoD Expression in the Rat. Journal of Pharmacology and Experimental Therapeutics, 2004, 311, 1225-1231.	1.3	15
72	Acetyl group availability influences phosphocreatine degradation even during intense muscle contraction. Journal of Physiology, 2004, 561, 851-859.	1.3	16

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73	Metabolic inertia in contracting skeletal muscle: a novel approach for pharmacological intervention in peripheral vascular disease. British Journal of Clinical Pharmacology, 2003, 57, 237-243.	1.1	24
74	Can we â€œswitchâ€•the emphasis please?. Journal of Applied Physiology, 2002, 92, 2221-2221.	1.2	1
75	1 Interaction Between Aerobic and Anaerobic Metabolism During Intense Muscle Contraction. Exercise and Sport Sciences Reviews, 1998, 26, 1???30.	1.6	38
76	Regulation of skeletal muscle carbohydrate oxidation during steady-state contraction. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R1384-R1389.	0.9	8
77	Muscle acetyl group availability is a major determinant of oxygen deficit in humans during submaximal exercise. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E377-E380.	1.8	86
78	Pyruvate Dehydrogenase Complex Activation Status and Acetyl Group Availability as a Site of Interchange between Anaerobic and Oxidative Metabolism during Intense Exercise. Advances in Experimental Medicine and Biology, 1998, 441, 287-298.	0.8	7
79	Substrate availability limits human skeletal muscle oxidative ATP regeneration at the onset of ischemic exercise.. Journal of Clinical Investigation, 1998, 101, 79-85.	3.9	71
80	Muscle creatine loading in men. Journal of Applied Physiology, 1996, 81, 232-237.	1.2	674
81	Increased acetyl group availability enhances contractile function of canine skeletal muscle during ischemia.. Journal of Clinical Investigation, 1996, 97, 879-883.	3.9	69
82	Reproducibility of cardiorespiratory measurements during submaximal and maximal running in children.. British Journal of Sports Medicine, 1995, 29, 66-71.	3.1	19
83	Validation of the Sensormedics (S2900Z) Metabolic Cart for Pediatric Exercise Testing. Applied Physiology, Nutrition, and Metabolism, 1994, 19, 472-479.	1.7	13