

Claire E Stewart

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

4,010
citations

34
h-index

62
g-index

96
ext. papers

4,607
ext. citations

5.4
avg, IF

5.43
L-index

#	Paper	IF	Citations
91	Growth, differentiation, and survival: multiple physiological functions for insulin-like growth factors. <i>Physiological Reviews</i> , 1996 , 76, 1005-26	47.9	626
90	Loss of the imprinted IGF2/cation-independent mannose 6-phosphate receptor results in fetal overgrowth and perinatal lethality. <i>Genes and Development</i> , 1994 , 8, 2953-63	12.6	438
89	Insulin-like growth factor-II is an autocrine survival factor for differentiating myoblasts. <i>Journal of Biological Chemistry</i> , 1996 , 271, 11330-8	5.4	156
88	Human Skeletal Muscle Possesses an Epigenetic Memory of Hypertrophy. <i>Scientific Reports</i> , 2018 , 8, 1898	4.9	130
87	Longevity and skeletal muscle mass: the role of IGF signalling, the sirtuins, dietary restriction and protein intake. <i>Aging Cell</i> , 2015 , 14, 511-23	9.9	128
86	Does skeletal muscle have an EpiMemory? The role of epigenetics in nutritional programming, metabolic disease, aging and exercise. <i>Aging Cell</i> , 2016 , 15, 603-16	9.9	101
85	Insulin-like growth factor binding protein-5 modulates muscle differentiation through an insulin-like growth factor-dependent mechanism. <i>Journal of Cell Biology</i> , 1996 , 133, 683-93	7.3	94
84	A systems-based investigation into vitamin D and skeletal muscle repair, regeneration, and hypertrophy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E1019-31	6	87
83	Tumor necrosis factor-alpha-induced apoptosis is associated with suppression of insulin-like growth factor binding protein-5 secretion in differentiating murine skeletal myoblasts. <i>Journal of Cellular Physiology</i> , 2000 , 183, 330-7	7	85
82	Sarcopenia during COVID-19 lockdown restrictions: long-term health effects of short-term muscle loss. <i>GeroScience</i> , 2020 , 42, 1547-1578	8.9	83
81	Age-dependent alteration in muscle regeneration: the critical role of tissue niche. <i>Biogerontology</i> , 2013 , 14, 273-92	4.5	79
80	Powerful signals for weak muscles. <i>Ageing Research Reviews</i> , 2009 , 8, 251-67	12	78
79	Genetic variation and exercise-induced muscle damage: implications for athletic performance, injury and ageing. <i>European Journal of Applied Physiology</i> , 2016 , 116, 1595-625	3.4	77
78	Overexpression of insulin-like growth factor-II induces accelerated myoblast differentiation. <i>Journal of Cellular Physiology</i> , 1996 , 169, 23-32	7	71
77	Dual control of muscle cell survival by distinct growth factor-regulated signaling pathways. <i>Molecular and Cellular Biology</i> , 2000 , 20, 3256-65	4.8	66
76	Fuel for the work required: a practical approach to amalgamating train-low paradigms for endurance athletes. <i>Physiological Reports</i> , 2016 , 4, e12803	2.6	65
75	Inter-individual variability in the adaptation of human muscle specific tension to progressive resistance training. <i>European Journal of Applied Physiology</i> , 2010 , 110, 1117-25	3.4	61

74	Modelling in vivo skeletal muscle ageing in vitro using three-dimensional bioengineered constructs. <i>Aging Cell</i> , 2012 , 11, 986-95	9.9	52
73	Characterization of differentiated subcutaneous and visceral adipose tissue from children: the influences of TNF-alpha and IGF-I. <i>Journal of Lipid Research</i> , 2005 , 46, 93-103	6.3	52
72	Insulin-like growth factors (IGF-I and IGF-II) inhibit C2 skeletal myoblast differentiation and enhance TNF alpha-induced apoptosis. <i>Journal of Cellular Physiology</i> , 2001 , 189, 207-15	7	50
71	Resistance training increases in vivo quadriceps femoris muscle specific tension in young men. <i>Acta Physiologica</i> , 2010 , 199, 83-9	5.6	49
70	Lean mass, muscle strength and gene expression in community dwelling older men: findings from the Hertfordshire Sarcopenia Study (HSS). <i>Calcified Tissue International</i> , 2014 , 95, 308-16	3.9	48
69	C2 and C2C12 murine skeletal myoblast models of atrophic and hypertrophic potential: relevance to disease and ageing?. <i>Journal of Cellular Physiology</i> , 2010 , 225, 240-50	7	48
68	Regenerative function of immune system: Modulation of muscle stem cells. <i>Ageing Research Reviews</i> , 2016 , 27, 67-76	12	48
67	Ca ²⁺ /calmodulin-dependent transcriptional pathways: potential mediators of skeletal muscle growth and development. <i>Biological Reviews</i> , 2009 , 84, 637-52	13.5	45
66	The individual and combined influence of ACE and ACTN3 genotypes on muscle phenotypes before and after strength training. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2014 , 24, 642-8	4.6	44
65	Characterisation of the IGF system in a primary adult human skeletal muscle cell model, and comparison of the effects of insulin and IGF-I on protein metabolism. <i>Journal of Endocrinology</i> , 2000 , 167, 403-15	4.7	42
64	Developmental influences, muscle morphology, and sarcopenia in community-dwelling older men. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012 , 67, 82-7	6.4	41
63	Skeletal muscle cells possess a memory of acute early life TNF- α exposure: role of epigenetic adaptation. <i>Biogerontology</i> , 2016 , 17, 603-17	4.5	38
62	Beneficial synergistic interactions of TNF-alpha and IL-6 in C2 skeletal myoblasts--potential cross-talk with IGF system. <i>Growth Factors</i> , 2008 , 26, 61-73	1.6	38
61	Potentiation of insulin-like growth factor-I (IGF-I) activity by an antibody: supportive evidence for enhancement of IGF-I bioavailability in vivo by IGF binding proteins. <i>Endocrinology</i> , 1993 , 133, 1462-5	4.8	36
60	Methylome of human skeletal muscle after acute & chronic resistance exercise training, detraining & retraining. <i>Scientific Data</i> , 2018 , 5, 180213	8.2	36
59	Influence of exercise intensity in older persons with unchanged habitual nutritional intake: skeletal muscle and endocrine adaptations. <i>Age</i> , 2010 , 32, 139-53		35
58	Sirtuin 1 regulates skeletal myoblast survival and enhances differentiation in the presence of resveratrol. <i>Experimental Physiology</i> , 2012 , 97, 400-18	2.4	34
57	What causes in vivo muscle specific tension to increase following resistance training?. <i>Experimental Physiology</i> , 2011 , 96, 145-55	2.4	34

56	Muscle tissue oxygenation and VEGF in VO-matched vibration and squatting exercise. <i>Clinical Physiology and Functional Imaging</i> , 2010 , 30, 269-78	2.4	34
55	Hertfordshire sarcopenia study: design and methods. <i>BMC Geriatrics</i> , 2010 , 10, 43	4.1	34
54	The role of insulin-like-growth factor binding protein 2 (IGFBP2) and phosphatase and tensin homologue (PTEN) in the regulation of myoblast differentiation and hypertrophy. <i>Growth Hormone and IGF Research</i> , 2013 , 23, 53-61	2	32
53	Omega-3 fatty acid EPA improves regenerative capacity of mouse skeletal muscle cells exposed to saturated fat and inflammation. <i>Biogerontology</i> , 2017 , 18, 109-129	4.5	32
52	Reduction of myoblast differentiation following multiple population doublings in mouse C2 C12 cells: a model to investigate ageing?. <i>Journal of Cellular Biochemistry</i> , 2011 , 112, 3773-85	4.7	32
51	Pro- and anti-apoptotic roles for IGF-I in TNF-alpha-induced apoptosis: a MAP kinase mediated mechanism. <i>Growth Factors</i> , 2008 , 26, 239-53	1.6	32
50	Transcriptomic and epigenetic regulation of disuse atrophy and the return to activity in skeletal muscle. <i>FASEB Journal</i> , 2017 , 31, 5268-5282	0.9	31
49	Testosterone enables growth and hypertrophy in fusion impaired myoblasts that display myotube atrophy: deciphering the role of androgen and IGF-I receptors. <i>Biogerontology</i> , 2016 , 17, 619-39	4.5	29
48	l-glutamine Improves Skeletal Muscle Cell Differentiation and Prevents Myotube Atrophy After Cytokine (TNF- α) Stress Via Reduced p38 MAPK Signal Transduction. <i>Journal of Cellular Physiology</i> , 2016 , 231, 2720-32	7	29
47	Post-exercise carbohydrate and energy availability induce independent effects on skeletal muscle cell signalling and bone turnover: implications for training adaptation. <i>Journal of Physiology</i> , 2019 , 597, 4779-4796	3.9	28
46	Impaired hypertrophy in myoblasts is improved with testosterone administration. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013 , 138, 152-61	5.1	28
45	Point:Counterpoint: IGF is/is not the major physiological regulator of muscle mass. Point: IGF is the major physiological regulator of muscle mass. <i>Journal of Applied Physiology</i> , 2010 , 108, 1820-1; discussion 1823-4; author reply 1832	3.7	28
44	Myoblast models of skeletal muscle hypertrophy and atrophy. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2011 , 14, 230-6	3.8	27
43	The training stimulus experienced by the leg muscles during cycling in humans. <i>Experimental Physiology</i> , 2009 , 94, 684-94	2.4	27
42	DNA methylation across the genome in aged human skeletal muscle tissue and muscle-derived cells: the role of HOX genes and physical activity. <i>Scientific Reports</i> , 2020 , 10, 15360	4.9	27
41	The role of resveratrol on skeletal muscle cell differentiation and myotube hypertrophy during glucose restriction. <i>Molecular and Cellular Biochemistry</i> , 2018 , 444, 109-123	4.2	26
40	Inhibitory effects of IL-6 on IGF-1 activity in skeletal myoblasts could be mediated by the activation of SOCS-3. <i>Journal of Cellular Biochemistry</i> , 2012 , 113, 923-33	4.7	25
39	Influence of exercise intensity on training-induced tendon mechanical properties changes in older individuals. <i>Age</i> , 2014 , 36, 9657		23

38	PD98059 enhances C2 myoblast differentiation through p38 MAPK activation: a novel role for PD98059. <i>Journal of Endocrinology</i> , 2008 , 198, 243-52	4.7	21
37	Isolation and validation of human prepubertal skeletal muscle cells: maturation and metabolic effects of IGF-I, IGFBP-3 and TNFalpha. <i>Journal of Physiology</i> , 2005 , 568, 229-42	3.9	20
36	Phospho-tyrosine phosphatase inhibitor Bpv(Hopic) enhances C2C12 myoblast migration in vitro. Requirement of PI3K/AKT and MAPK/ERK pathways. <i>Journal of Muscle Research and Cell Motility</i> , 2013 , 34, 125-36	3.5	19
35	Increased, not decreased activation of the insulin-like growth factor (IGF) receptor signalling pathway during ceramide-induced apoptosis. <i>Growth Hormone and IGF Research</i> , 1999 , 9, 131-42	2	17
34	Influences of carbohydrate plus amino acid supplementation on differing exercise intensity adaptations in older persons: skeletal muscle and endocrine responses. <i>Age</i> , 2010 , 32, 125-38		15
33	Do PTK2 gene polymorphisms contribute to the interindividual variability in muscle strength and the response to resistance training? A preliminary report. <i>Journal of Applied Physiology</i> , 2012 , 112, 1329-34	3.7	14
32	Growth hormone deficiency after childhood bone marrow transplantation with total body irradiation: interaction with adiposity and age. <i>Clinical Endocrinology</i> , 2015 , 83, 508-17	3.4	13
31	TRIM63 (MuRF-1) gene polymorphism is associated with biomarkers of exercise-induced muscle damage. <i>Physiological Genomics</i> , 2018 , 50, 142-143	3.6	12
30	Depot-specific effects of fatty acids on lipid accumulation in children's adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 361, 356-61	3.4	12
29	Overview of insulin-like growth factor physiology. <i>Growth Hormone and IGF Research</i> , 2000 , 10 Suppl A, S8-9	2	12
28	Increased tyrosine kinase activity but not calcium mobilization is required for ceramide-induced apoptosis. <i>Experimental Cell Research</i> , 1999 , 250, 329-38	4.2	12
27	The lymphocyte secretome from young adults enhances skeletal muscle proliferation and migration, but effects are attenuated in the secretome of older adults. <i>Physiological Reports</i> , 2015 , 3, e12518	2.6	10
26	Activated lymphocytes secretome inhibits differentiation and induces proliferation of C2C12 myoblasts. <i>Cellular Physiology and Biochemistry</i> , 2014 , 33, 117-28	3.9	10
25	A semi-automated programme for tracking myoblast migration following mechanical damage: manipulation by chemical inhibitors. <i>Cellular Physiology and Biochemistry</i> , 2011 , 27, 625-36	3.9	10
24	Adaptations of the IGF system during malignancy: human skeletal muscle versus the systemic environment. <i>Hormone and Metabolic Research</i> , 2003 , 35, 667-74	3.1	10
23	C2 skeletal myoblast survival, death, proliferation and differentiation: regulation by Adra1d. <i>Cellular Physiology and Biochemistry</i> , 2010 , 25, 253-62	3.9	8
22	Effective formation of major histocompatibility complex class II-peptide complexes from endogenous antigen by thyroid epithelial cells. <i>Immunology</i> , 2000 , 99, 367-74	7.8	8
21	Variations of collagen-encoding genes are associated with exercise-induced muscle damage. <i>Physiological Genomics</i> , 2018 , 50, 691-693	3.6	7

20	Knockdown of the E3 ubiquitin ligase UBR5 and its role in skeletal muscle anabolism. <i>American Journal of Physiology - Cell Physiology</i> , 2021 , 320, C45-C56	5.4	7
19	Identification and characterization of novel Kirrel isoform during myogenesis. <i>Physiological Reports</i> , 2013 , 1, e00044	2.6	6
18	Epigenetics of Skeletal Muscle Aging 2018 , 389-416		6
17	Combined resistance and aerobic exercise intervention improves fitness, insulin resistance and quality of life in survivors of childhood haemopoietic stem cell transplantation with total body irradiation. <i>Pediatric Blood and Cancer</i> , 2020 , 67, e28687	3	5
16	Exercising Bioengineered Skeletal Muscle In Vitro: Biopsy to Bioreactor. <i>Methods in Molecular Biology</i> , 2019 , 1889, 55-79	1.4	5
15	Murine myoblast migration: influence of replicative ageing and nutrition. <i>Biogerontology</i> , 2017 , 18, 947-964	2.4	4
14	Site-specific differences of insulin action in adipose tissue derived from normal prepubertal children. <i>Experimental Cell Research</i> , 2005 , 308, 469-78	4.2	4
13	Adult stem cells: the therapeutic potential of skeletal muscle. <i>Current Stem Cell Research and Therapy</i> , 2006 , 1, 157-71	3.6	4
12	How the love of muscle can break a heart: Impact of anabolic androgenic steroids on skeletal muscle hypertrophy, metabolic and cardiovascular health. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2021 , 22, 389-405	10.5	4
11	Inter-individual variability in the response to maximal eccentric exercise. <i>European Journal of Applied Physiology</i> , 2016 , 116, 2055-6	3.4	3
10	Neuromuscular fatigue and recovery after strenuous exercise depends on skeletal muscle size and stem cell characteristics. <i>Scientific Reports</i> , 2021 , 11, 7733	4.9	3
9	Dynamic Profiling of Protein Mole Synthesis Rates during C2C12 Myoblast Differentiation. <i>Proteomics</i> , 2021 , 21, e2000071	4.8	3
8	Knockdown of the E3 Ubiquitin ligase UBR5 and its role in skeletal muscle anabolism		2
7	Mechanical loading of bioengineered skeletal muscle in vitro recapitulates gene expression signatures of resistance exercise in vivo. <i>Journal of Cellular Physiology</i> , 2021 , 236, 6534-6547	7	2
6	Multiscale-Engineered Muscle Constructs: PEG Hydrogel Micro-Patterning on an Electrospun PCL Mat Functionalized with Gold Nanoparticles.. <i>International Journal of Molecular Sciences</i> , 2021 , 23,	6.3	1
5	Stem cells and regenerative medicine in sport science. <i>Emerging Topics in Life Sciences</i> , 2021 , 5, 563-573	3.5	1
4	(-)-Epicatechin Alters Reactive Oxygen and Nitrogen Species Production Independent of Mitochondrial Respiration in Human Vascular Endothelial Cells.. <i>Oxidative Medicine and Cellular Longevity</i> , 2022 , 2022, 4413191	6.7	0
3	Soluble Factors Released From Activated T Lymphocytes Regulate C2C12 Myoblast Proliferation and Cellular Signaling, but Effects Are Blunted in the Elderly. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019 , 74, 1375-1385	6.4	0

- 2 Immobility and diminished skeletal muscle recovery with age: the sedentary myoblast. *Journal of Physiology*, **2013**, 591, 3671-2 3·9
- 1 Last Word on Point:Counterpoint: IGF is the major physiological regulator of muscle mass. *Journal of Applied Physiology*, **2010**, 108, 1832-1832 3·7