Martin FlÃ¼ck

List of Publications by Year
in descending order

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80 papers	3,261 citations	126907 33 h-index	155660 55 g-index
83 all docs	83 docs citations	83 times ranked	3710 citing authors

#	Article	IF	Citations
1	Response of Skeletal Muscle Mitochondria to Hypoxia. Experimental Physiology, 2003, 88, 109-119.	2.0	256
2	Functional, structural and molecular plasticity of mammalian skeletal muscle in response to exercise stimuli. Journal of Experimental Biology, 2006, 209, 2239-2248.	1.7	232
3	Exercise training in normobaric hypoxia in endurance runners. III. Muscular adjustments of selected gene transcripts. Journal of Applied Physiology, 2006, 100, 1258-1266.	2.5	186
4	Focal adhesion proteins FAK and paxillin increase in hypertrophied skeletal muscle. American Journal of Physiology - Cell Physiology, 1999, 277, C152-C162.	4.6	149
5	Exercise training in normobaric hypoxia in endurance runners. I. Improvement in aerobic performance capacity. Journal of Applied Physiology, 2006, 100, 1238-1248.	2.5	129
6	Selected Contribution: Skeletal muscle focal adhesion kinase, paxillin, and serum response factor are loading dependent. Journal of Applied Physiology, 2001, 90, 1174-1183.	2.5	114
7	Quantitative Shear-Wave US Elastography of the Supraspinatus Muscle: Reliability of the Method and Relation to Tendon Integrity and Muscle Quality. Radiology, 2016, 278, 465-474.	7.3	110
8	Prolonged unloading of rat soleus muscle causes distinct adaptations of the gene profile. FASEB Journal, 2002, 16, 884-886.	0.5	90
9	Endurance training modulates the muscular transcriptome response to acute exercise. Pflugers Archiv European Journal of Physiology, 2006, 451, 678-687.	2.8	85
10	Mechano-regulated Tenascin-C orchestrates muscle repair. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13662-13667.	7.1	85
11	Transcriptional adaptations of lipid metabolism in tibialis anterior muscle of endurance-trained athletes. Physiological Genomics, 2003, 15, 148-157.	2.3	83
12	Plasticity of skeletal muscle mitochondria: structure and function. Medicine and Science in Sports and Exercise, 2003, 35, 95-104.	0.4	82
13	Transcriptional reprogramming and ultrastructure during atrophy and recovery of mouse soleus muscle. Physiological Genomics, 2004, 20, 97-107.	2.3	68
14	Different Molecular and Structural Adaptations with Eccentric and Conventional Strength Training in Elderly Men and Women. Gerontology, 2011, 57, 528-538.	2.8	68
15	Sarcolab pilot study into skeletal muscleâ€™s adaptation to long-term spaceflight. Npj Microgravity, 2018, 4, 18.	3.7	62
16	Normal mammalian skeletal muscle and its phenotypic plasticity. Journal of Experimental Biology, 2002, 205, 2143-52.	1.7	62
17	Skeletal muscle Ca²⁺-independent kinase activity increases during either hypertrophy or running. Journal of Applied Physiology, 2000, 88, 352-358.	2.5	60
18	Focal adhesion kinase is a loadâ€dependent governor of the slow contractile and oxidative muscle phenotype. Journal of Physiology, 2009, 587, 3703-3717.	2.9	58

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19	A hypoxia complement differentiates the muscle response to endurance exercise. Experimental Physiology, 2010, 95, 723-735.	2.0	58
20	Anabolic Steroids Reduce Muscle Degeneration Associated With Rotator Cuff Tendon Release in Sheep. American Journal of Sports Medicine, 2015, 43, 2393-2400.	4.2	56
21	Skeletal Muscle CaMKII Enriches in Nuclei and Phosphorylates Myogenic Factor SRF at Multiple Sites. Biochemical and Biophysical Research Communications, 2000, 270, 488-494.	2.1	53
22	Peptoid-Peptide Hybrids That Bind Syk SH2 Domains Involved in Signal Transduction. ChemBioChem, 2001, 2, 171-179.	2.6	47
23	The angiotensin converting enzyme insertion/deletion polymorphism alters the response of muscle energy supply lines to exercise. European Journal of Applied Physiology, 2013, 113, 1719-1729.	2.5	45
24	Hypoxia refines plasticity of mitochondrial respiration to repeated muscle work. European Journal of Applied Physiology, 2014, 114, 405-417.	2.5	45
25	Reloading of atrophied rat soleus muscle induces tenascin-C expression around damaged muscle fibers. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R792-R801.	1.8	44
26	Costamere remodeling with muscle loading and unloading in healthy young men. Journal of Anatomy, 2013, 223, 525-536.	1.5	44
27	Delayed-Onset Muscle Soreness: Temporal Assessment With Quantitative MRI and Shear-Wave Ultrasound Elastography. American Journal of Roentgenology, 2017, 208, 402-412.	2.2	43
28	Fibre-type specific concentration of focal adhesion kinase at the sarcolemma: influence of fibre innervation and regeneration. Journal of Experimental Biology, 2002, 205, 2337-48.	1.7	43
29	SRF protein is upregulated during stretch-induced hypertrophy of rooster ALD muscle. Journal of Applied Physiology, 1999, 86, 1793-1799.	2.5	42
30	Transcriptional reprogramming during reloading of atrophied rat soleus muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R4-R14.	1.8	41
31	Expressional reprogramming of survival pathways in rat cardiocytes by neuregulin-1Î². Journal of Applied Physiology, 2005, 99, 313-322.	2.5	38
32	Changes of Supraspinatus Muscle Volume and Fat Fraction After Successful or Failed Arthroscopic Rotator Cuff Repair. American Journal of Sports Medicine, 2019, 47, 3080-3088.	4.2	37
33	Transcriptional profiling of tissue plasticity: role of shifts in gene expression and technical limitations. Journal of Applied Physiology, 2005, 99, 397-413.	2.5	35
34	The Metabolic Response of Skeletal Muscle to Endurance Exercise Is Modified by the ACE-I/D Gene Polymorphism and Training State. Frontiers in Physiology, 2017, 8, 993.	2.8	31
35	The Angiotensin Converting Enzyme Insertion/Deletion Polymorphism Modifies Exercise-Induced Muscle Metabolism. PLoS ONE, 2016, 11, e0149046.	2.5	31
36	Quantitative changes in focal adhesion kinase and its inhibitor, FRNK, drive load-dependent expression of costamere components. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R647-R657.	1.8	30

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37	<scp>ACE</scp> inhibition modifies exerciseâ€induced proâ€angiogenic and mitochondrial gene transcript expression. Scandinavian Journal of Medicine and Science in Sports, 2016, 26, 1180-1187.	2.9	27
38	Recovery from 6â€month spaceflight at the International Space Station: muscleâ€related stress into a proinflammatory setting. FASEB Journal, 2019, 33, 5168-5180.	0.5	25
39	Coping with cyclic oxygen availability: evolutionary aspects. Integrative and Comparative Biology, 2007, 47, 524-531.	2.0	24
40	Muscle transcriptome adaptations with mild eccentric ergometer exercise. Pflugers Archiv European Journal of Physiology, 2007, 455, 555-562.	2.8	24
41	Muscle Degeneration Associated With Rotator Cuff Tendon Release and/or Denervation in Sheep. American Journal of Sports Medicine, 2017, 45, 651-658.	4.2	24
42	Cellular Aspects of Muscle Specialization Demonstrate Genotype â€“ Phenotype Interaction Effects in Athletes. Frontiers in Physiology, 2019, 10, 526.	2.8	24
43	T/T homozygosity of the tenascin-C gene polymorphism rs2104772 negatively influences exercise-induced angiogenesis. PLoS ONE, 2017, 12, e0174864.	2.5	24
44	Signatures of muscle disuse in spaceflight and bed rest revealed by single muscle fiber proteomics. , 2022, 1, .		22
45	CaMKII content affects contractile, but not mitochondrial, characteristics in regenerating skeletal muscle. BMC Physiology, 2014, 14, 7.	3.6	21
46	Costamere protein expression and tissue composition of rotator cuff muscle after tendon release in sheep. Journal of Orthopaedic Research, 2018, 36, 272-281.	2.3	19
47	Exercise intensity modulates capillary perfusion in correspondence with ACE I/D modulated serum angiotensin II levels. Applied & Translational Genomics, 2015, 4, 33-37.	2.1	18
48	Protective Effect of Focal Adhesion Kinase against Skeletal Muscle Reperfusion Injury after Acute Limb Ischemia. European Journal of Vascular and Endovascular Surgery, 2015, 49, 306-313.	1.5	18
49	Resistance training preserves high-intensity interval training induced improvements in skeletal muscle capillarization of healthy old men: a randomized controlled trial. Scientific Reports, 2020, 10, 6578.	3.3	18
50	Genomic and lipidomic actions of nandrolone on detached rotator cuff muscle in sheep. Journal of Steroid Biochemistry and Molecular Biology, 2017, 165, 382-395.	2.5	17
51	Early Changes in Costameric and Mitochondrial Protein Expression with Unloading Are Muscle Specific. BioMed Research International, 2014, 2014, 1-11.	1.9	16
52	Does a Better Perfusion of Deconditioned Muscle Tissue Release Chronic Low Back Pain?. Frontiers in Medicine, 2018, 5, 77.	2.6	15
53	Robot-assisted assessment of muscle strength. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 103.	4.6	14
54	Electric pulses augment reporter gene expression in the beating heart. Journal of Gene Medicine, 2012, 14, 191-203.	2.8	12

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55	A mixed-effects model of the dynamic response of muscle gene transcript expression to endurance exercise. European Journal of Applied Physiology, 2013, 113, 1279-1290.	2.5	12
56	One bout of vibration exercise with vascular occlusion activates satellite cells. Experimental Physiology, 2016, 101, 295-307.	2.0	12
57	Knee Extensors Muscle Plasticity Over a 5-Years Rehabilitation Process After Open Knee Surgery. Frontiers in Physiology, 2018, 9, 1343.	2.8	12
58	Cardiovascular and Muscular Consequences of Work-Matched Interval-Type of Concentric and Eccentric Pedaling Exercise on a Soft Robot. Frontiers in Physiology, 2017, 8, 640.	2.8	11
59	Down-Regulation of Mitochondrial Metabolism after Tendon Release Primes Lipid Accumulation in Rotator Cuff Muscle. American Journal of Pathology, 2020, 190, 1513-1529.	3.8	10
60	Neurectomy preserves fast fibers when combined with tenotomy of infraspinatus muscle via upregulation of myogenesis. Muscle and Nerve, 2019, 59, 100-107.	2.2	9
61	Regulation of whole body energy homeostasis with growth hormone replacement therapy and endurance exercise. Physiological Genomics, 2011, 43, 739-748.	2.3	8
62	Muscle-Type Specific Autophosphorylation of CaMKII Isoforms after Paced Contractions. BioMed Research International, 2014, 2014, 1-20.	1.9	8
63	Adjustments of muscle capillarity but not mitochondrial protein with skiing in the elderly. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, e360-7.	2.9	8
64	Tenascin-C expression controls the maturation of articular cartilage in mice. BMC Research Notes, 2020, 13, 78.	1.4	8
65	Inhibition of calpain delays early muscle atrophy after rotator cuff tendon release in sheep. Physiological Reports, 2018, 6, e13833.	1.7	7
66	Exercise-Modulated Mitochondrial Phenotype; Sensors and Gene Regulation. Journal of Muscle Research and Cell Motility, 2004, 25, 235-237.	2.0	6
67	Muscle unloading potentiates the effects of acetylâ€‹scp›L‹/scp›â€‹carnitine on the slow oxidative muscle phenotype. BioFactors, 2010, 36, 70-77.	5.4	6
68	Transplant of Autologous Mesenchymal Stem Cells Halts Fatty Atrophy of Detached Rotator Cuff Muscle After Tendon Repair: Molecular, Microscopic, and Macroscopic Results From an Ovine Model. American Journal of Sports Medicine, 2021, 49, 3970-3980.	4.2	6
69	Concentric and Eccentric Pedaling-Type Interval Exercise on a Soft Robot for Stable Coronary Artery Disease Patients: Toward a Personalized Protocol. JMIR Research Protocols, 2019, 8, e10970.	1.0	5
70	Satellite cell content in Huntingtonâ€™s disease patients in response to endurance training. Orphanet Journal of Rare Diseases, 2019, 14, 135.	2.7	4
71	JNK activation in TA and EDL muscle is load-dependent in rats receiving identical excitation patterns. Scientific Reports, 2021, 11, 16405.	3.3	4
72	Variability in the Aerobic Fitness-Related Dependence on Respiratory Processes During Muscle Work Is Associated With the ACE-I/D Genotype. Frontiers in Sports and Active Living, 0, 4, .	1.8	4

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73	Unraveling the molecular underpinning of nature and nurture of aerobic fitness. Physiological Genomics, 2008, 35, 210-212.	2.3	3
74	Focal adhesion kinase coordinates costamere-related JNK signaling with muscle fiber transformation after Achilles tenotomy and tendon reconstruction. Experimental and Molecular Pathology, 2019, 108, 42-56.	2.1	3
75	The Cardiovascular Response to Interval Exercise Is Modified by the Contraction Type and Training in Proportion to Metabolic Stress of Recruited Muscle Groups. Sensors, 2021, 21, 173.	3.8	3
76	Accelerated Muscle Deoxygenation in Aerobically Fit Subjects During Exhaustive Exercise Is Associated With the ACE Insertion Allele. Frontiers in Sports and Active Living, 2022, 4, 814975.	1.8	3
77	VEGF Protein in Human Ischemic Skeletal Muscle. American Journal of Pathology, 2003, 163, 2636-2638.	3.8	1
78	Transient induction of cyclin A in loaded chicken skeletal muscle. Journal of Applied Physiology, 2003, 95, 1664-1671.	2.5	1
79	Reply to Padilla, Hamilton, Lundgren, Mckenzie, and Mickleborough. Journal of Applied Physiology, 2007, 103, 731-732.	2.5	0
80	Time course of costamere-related alterations in focal adhesion signaling and composition of rat soleus muscle after achilles tenotomy. Data in Brief, 2019, 25, 103999.	1.0	0