Martin FlÃ¼ck

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2624094/publications.pdf

Version: 2024-02-01

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	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
2	Signatures of muscle disuse in spaceflight and bed rest revealed by single muscle fiber proteomics. , 2022, 1, .		22
3	JNK activation in TA and EDL muscle is load-dependent in rats receiving identical excitation patterns. Scientific Reports, 2021, 11, 16405.	3.3	4
4	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
5	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
6	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
7	Tenascin-C expression controls the maturation of articular cartilage in mice. BMC Research Notes, 2020, 13, 78.	1.4	8
8	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
9	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
10	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
11	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
12	Satellite cell content in Huntingtonâ€™s disease patients in response to endurance training. Orphanet Journal of Rare Diseases, 2019, 14, 135.	2.7	4
13	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
14	Cellular Aspects of Muscle Specialization Demonstrate Genotype â€“ Phenotype Interaction Effects in Athletes. Frontiers in Physiology, 2019, 10, 526.	2.8	24
15	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
16	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
17	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
18	Inhibition of calpain delays early muscle atrophy after rotator cuff tendon release in sheep. Physiological Reports, 2018, 6, e13833.	1.7	7

#	Article	IF	Citations
19	Sarcolab pilot study into skeletal muscleâ€™s adaptation to long-term spaceflight. Npj Microgravity, 2018, 4, 18.	3.7	62
20	Knee Extensors Muscle Plasticity Over a 5-Years Rehabilitation Process After Open Knee Surgery. Frontiers in Physiology, 2018, 9, 1343.	2.8	12
21	Does a Better Perfusion of Deconditioned Muscle Tissue Release Chronic Low Back Pain?. Frontiers in Medicine, 2018, 5, 77.	2.6	15
22	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
23	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
24	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
25	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
26	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
27	Robot-assisted assessment of muscle strength. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 103.	4.6	14
28	T/T homozygosity of the tenascin-C gene polymorphism rs2104772 negatively influences exercise-induced angiogenesis. PLoS ONE, 2017, 12, e0174864.	2.5	24
29	<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
30	One bout of vibration exercise with vascular occlusion activates satellite cells. Experimental Physiology, 2016, 101, 295-307.	2.0	12
31	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
32	The Angiotensin Converting Enzyme Insertion/Deletion Polymorphism Modifies Exercise-Induced Muscle Metabolism. PLoS ONE, 2016, 11, e0149046.	2.5	31
33	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
34	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
35	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
36	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

#	Article	IF	Citations
37	Early Changes in Costameric and Mitochondrial Protein Expression with Unloading Are Muscle Specific. BioMed Research International, 2014, 2014, 1-11.	1.9	16
38	Muscle-Type Specific Autophosphorylation of CaMKII Isoforms after Paced Contractions. BioMed Research International, 2014, 2014, 1-20.	1.9	8
39	CaMKII content affects contractile, but not mitochondrial, characteristics in regenerating skeletal muscle. BMC Physiology, 2014, 14, 7.	3.6	21
40	Hypoxia refines plasticity of mitochondrial respiration to repeated muscle work. European Journal of Applied Physiology, 2014, 114, 405-417.	2.5	45
41	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
42	Costamere remodeling with muscle loading and unloading in healthy young men. Journal of Anatomy, 2013, 223, 525-536.	1.5	44
43	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
44	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
45	Electric pulses augment reporter gene expression in the beating heart. Journal of Gene Medicine, 2012, 14, 191-203.	2.8	12
46	Different Molecular and Structural Adaptations with Eccentric and Conventional Strength Training in Elderly Men and Women. Gerontology, 2011, 57, 528-538.	2.8	68
47	Regulation of whole body energy homeostasis with growth hormone replacement therapy and endurance exercise. Physiological Genomics, 2011, 43, 739-748.	2.3	8
48	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
49	A hypoxia complement differentiates the muscle response to endurance exercise. Experimental Physiology, 2010, 95, 723-735.	2.0	58
50	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
51	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
52	Unraveling the molecular underpinning of nature and nurture of aerobic fitness. Physiological Genomics, 2008, 35, 210-212.	2.3	3
53	Coping with cyclic oxygen availability: evolutionary aspects. Integrative and Comparative Biology, 2007, 47, 524-531.	2.0	24
54	Reply to Padilla, Hamilton, Lundgren, Mckenzie, and Mickleborough. Journal of Applied Physiology, 2007, 103, 731-732.	2.5	0

#	Article	IF	Citations
55	Muscle transcriptome adaptations with mild eccentric ergometer exercise. Pflugers Archiv European Journal of Physiology, 2007, 455, 555-562.	2.8	24
56	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
57	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
58	Endurance training modulates the muscular transcriptome response to acute exercise. Pflugers Archiv European Journal of Physiology, 2006, 451, 678-687.	2.8	85
59	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
60	Expressional reprogramming of survival pathways in rat cardiocytes by neuregulin-1Î². Journal of Applied Physiology, 2005, 99, 313-322.	2.5	38
61	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
62	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
63	Transcriptional reprogramming and ultrastructure during atrophy and recovery of mouse soleus muscle. Physiological Genomics, 2004, 20, 97-107.	2.3	68
64	Exercise-Modulated Mitochondrial Phenotype; Sensors and Gene Regulation. Journal of Muscle Research and Cell Motility, 2004, 25, 235-237.	2.0	6
65	Response of Skeletal Muscle Mitochondria to Hypoxia. Experimental Physiology, 2003, 88, 109-119.	2.0	256
66	VEGF Protein in Human Ischemic Skeletal Muscle. American Journal of Pathology, 2003, 163, 2636-2638.	3.8	1
67	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
68	Transcriptional adaptations of lipid metabolism in tibialis anterior muscle of endurance-trained athletes. Physiological Genomics, 2003, 15, 148-157.	2.3	83
69	Transient induction of cyclin A in loaded chicken skeletal muscle. Journal of Applied Physiology, 2003, 95, 1664-1671.	2.5	1
70	Plasticity of skeletal muscle mitochondria: structure and function. Medicine and Science in Sports and Exercise, 2003, 35, 95-104.	0.4	82
71	Prolonged unloading of rat soleus muscle causes distinct adaptations of the gene profile. FASEB Journal, 2002, 16, 884-886.	0.5	90
72	Normal mammalian skeletal muscle and its phenotypic plasticity. Journal of Experimental Biology, 2002, 205, 2143-52.	1.7	62

#	Article	IF	Citations
73	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
74	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
75	Peptoid-Peptide Hybrids That Bind Syk SH2 Domains Involved in Signal Transduction. ChemBioChem, 2001, 2, 171-179.	2.6	47
76	Skeletal muscle Ca²⁺-independent kinase activity increases during either hypertrophy or running. Journal of Applied Physiology, 2000, 88, 352-358.	2.5	60
77	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
78	SRF protein is upregulated during stretch-induced hypertrophy of rooster ALD muscle. Journal of Applied Physiology, 1999, 86, 1793-1799.	2.5	42
79	Focal adhesion proteins FAK and paxillin increase in hypertrophied skeletal muscle. American Journal of Physiology - Cell Physiology, 1999, 277, C152-C162.	4.6	149
80	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