Michael C Hogan

List of Publications by Year
in descending order

89 papers	5,263 citations	116194 36 h-index	100535 70 g-index
89 all docs	89 docs citations	89 times ranked	6687 citing authors

#	Article	IF	Citations
1	Illumination of the Endogenous Insulin-Regulated TBC1D4 Interactome in Human Skeletal Muscle. Diabetes, 2022, 71, 906-920.	0.3	3
2	Role of parvalbumin in fatigue-induced changes in force and cytosolic calcium transients in intact single mouse myofibers. Journal of Applied Physiology, 2022, 132, 1041-1053.	1.2	5
3	What Wasserman wrought: a celebratory review of 50Âyears of research arising from the concept of an â€˜anaerobic thresholdâ€™. Journal of Physiology, 2021, 599, 1005-1005.	1.3	3
4	Microvascular O2 delivery and O2 utilization during metabolic transitions in skeletal muscle. One-hundred years after the pioneering work by August Krogh. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 252, 110842.	0.8	8
5	Advances in exercise physiology: exercise and health. Journal of Physiology, 2021, 599, 769-770.	1.3	0
6	AXIN1 knockout does not alter AMPK/mTORC1 regulation and glucose metabolism in mouse skeletal muscle. Journal of Physiology, 2021, 599, 3081-3100.	1.3	6
7	Effect of exercise training on skeletal muscle protein expression in relation to insulin sensitivity: Perâ€protocol analysis of a randomized controlled trial (GOâ€ACTIWE). Physiological Reports, 2021, 9, e14850.	0.7	2
8	Direct small molecule ADaM-site AMPK activators reveal an AMPKÎ³3-independent mechanism for blood glucose lowering. Molecular Metabolism, 2021, 51, 101259.	3.0	10
9	Insulinâ€induced membrane permeability to glucose in human muscles at rest and following exercise. Journal of Physiology, 2020, 598, 303-315.	1.3	35
10	The insulinâ€sensitizing effect of a single exercise bout is similar in type I and type II human muscle fibres. Journal of Physiology, 2020, 598, 5687-5699.	1.3	13
11	pH-Gated Succinate Secretion Regulates Muscle Remodeling in Response to Exercise. Cell, 2020, 183, 62-75.e17.	13.5	129
12	Effect of acute nitrite infusion on contractile economy and metabolism in isolated skeletal muscle in situ during hypoxia. Journal of Physiology, 2020, 598, 2371-2384.	1.3	5
13	Inducible deletion of skeletal muscle AMPKÎ± reveals that AMPK is required for nucleotide balance but dispensable for muscle glucose uptake and fat oxidation during exercise. Molecular Metabolism, 2020, 40, 101028.	3.0	32
14	Reply from Stephen J. Bailey, Paulo G. Gandra, Andrew M. Jones, Michael C. Hogan and Leonardo Nogueira. Journal of Physiology, 2020, 598, 1643-1644.	1.3	0
15	A Single Bout of One-Legged Exercise to Local Exhaustion Decreases Insulin Action in Nonexercised Muscle Leading to Decreased Whole-Body Insulin Action. Diabetes, 2020, 69, 578-590.	0.3	21
16	Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. Molecular Metabolism, 2020, 39, 100998.	3.0	29
17	ApoA-1 improves glucose tolerance by increasing glucose uptake into heart and skeletal muscle independently of AMPKÎ±2. Molecular Metabolism, 2020, 35, 100949.	3.0	25
18	Racial disparities in skeletal muscle: alternative approaches in glucose metabolism after exercise training in obese women of African ancestry. Journal of Physiology, 2020, 598, 2551-2552.	1.3	0

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19	Inhibition of Sâ€nitrosoglutathione Reductase During Contractions Slows Recovery of Lowâ€Frequency Force in Isolated Fastâ€twitch Muscle and in Intact Single Myofibers. FASEB Journal, 2020, 34, 1-1.	0.2	0
20	Incubation with sodium nitrite attenuates fatigue development in intact single mouse fibres at physiological. Journal of Physiology, 2019, 597, 5429-5443.	1.3	40
21	TBC1D4 Is Necessary for Enhancing Muscle Insulin Sensitivity in Response to AICAR and Contraction. Diabetes, 2019, 68, 1756-1766.	0.3	40
22	AMPK and TBC1D1 Regulate Muscle Glucose Uptake After, but Not During, Exercise and Contraction. Diabetes, 2019, 68, 1427-1440.	0.3	67
23	Effect of bariatric surgery on plasma GDF15 in humans. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E615-E621.	1.8	25
24	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. Diabetes, 2019, 68, 502-514.	0.3	20
25	Exercise training reduces the insulinâ€sensitizing effect of a single bout of exercise in human skeletal muscle. Journal of Physiology, 2019, 597, 89-103.	1.3	41
26	Mechanisms Preserving Insulin Action during High Dietary Fat Intake. Cell Metabolism, 2019, 29, 50-63.e4.	7.2	50
27	A mitochondrialâ€targeted antioxidant improves myofilament Ca²⁺ sensitivity during prolonged low frequency force depression at low. Journal of Physiology, 2018, 596, 1079-1089.	1.3	16
28	Exercise increases circulating GDF15 in humans. Molecular Metabolism, 2018, 9, 187-191.	3.0	109
29	Extracellular Vesicles Provide a Means for Tissue Crosstalk during Exercise. Cell Metabolism, 2018, 27, 237-251.e4.	7.2	426
30	Skeletal muscle O-GlcNAc transferase is important for muscle energy homeostasis and whole-body insulin sensitivity. Molecular Metabolism, 2018, 11, 160-177.	3.0	60
31	Effects of menopause and high-intensity training on insulin sensitivity and muscle metabolism. Menopause, 2018, 25, 165-175.	0.8	21
32	Exercise-induced molecular mechanisms promoting glycogen supercompensation in human skeletal muscle. Molecular Metabolism, 2018, 16, 24-34.	3.0	58
33	Activation of Skeletal Muscle AMPK Promotes Glucose Disposal and Glucose Lowering in Non-human Primates and Mice. Cell Metabolism, 2017, 25, 1147-1159.e10.	7.2	205
34	Acute Hypoglycemia in Healthy Humans Impairs Insulin-Stimulated Glucose Uptake and Glycogen Synthase in Skeletal Muscle: A Randomized Clinical Study. Diabetes, 2017, 66, 2483-2494.	0.3	7
35	Exercise Increases Human Skeletal Muscle Insulin Sensitivity via Coordinated Increases in Microvascular Perfusion and Molecular Signaling. Diabetes, 2017, 66, 1501-1510.	0.3	120
36	Multiplexed Temporal Quantification of the Exercise-regulated Plasma Peptidome. Molecular and Cellular Proteomics, 2017, 16, 2055-2068.	2.5	56

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37	Opposite Regulation of Insulin Sensitivity by Dietary Lipid Versus Carbohydrate Excess. Diabetes, 2017, 66, 2583-2595.	0.3	46
38	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. Diabetes, 2017, 66, 598-612.	0.3	137
39	Circulating FGF21 in humans is potently induced by short term overfeeding of carbohydrates. Molecular Metabolism, 2017, 6, 22-29.	3.0	95
40	Skeletal myofiber VEGF regulates contraction-induced perfusion and exercise capacity but not muscle capillarity in adult mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R192-R199.	0.9	19
41	Cytosolic calcium transients are a determinant of contraction-induced HSP72 transcription in single skeletal muscle fibers. Journal of Applied Physiology, 2016, 120, 1260-1266.	1.2	5
42	Exercise and oxidative stress. Journal of Physiology, 2016, 594, 5079-5080.	1.3	15
43	Intact Regulation of the AMPK Signaling Network in Response to Exercise and Insulin in Skeletal Muscle of Male Patients With Type 2 Diabetes: Illumination of AMPK Activation in Recovery From Exercise. Diabetes, 2016, 65, 1219-1230.	0.3	62
44	Optimizing hyaluronidase dose and plasmid DNA delivery greatly improves gene electrotransfer efficiency in rat skeletal muscle. Biochemistry and Biophysics Reports, 2015, 4, 342-350.	0.7	7
45	Human muscle fibre typeâ€specific regulation of AMPK and downstream targets by exercise. Journal of Physiology, 2015, 593, 2053-2069.	1.3	90
46	Recovery of Indicators of Mitochondrial Biogenesis, Oxidative Stress, and Aging With (â^')-Epicatechin in Senile Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1370-1378.	1.7	76
47	Prior AICAR Stimulation Increases Insulin Sensitivity in Mouse Skeletal Muscle in an AMPK-Dependent Manner. Diabetes, 2015, 64, 2042-2055.	0.3	115
48	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. Cell Metabolism, 2015, 22, 922-935.	7.2	333
49	Human Muscle Fiber Typeâ€“Specific Insulin Signaling: Impact of Obesity and Type 2 Diabetes. Diabetes, 2015, 64, 485-497.	0.3	150
50	Acute exercise and physiological insulin induce distinct phosphorylation signatures on TBC1D1 and TBC1D4 proteins in human skeletal muscle. Journal of Physiology, 2014, 592, 351-375.	1.3	95
51	Physical inactivity affects skeletal muscle insulin signaling in a birth weight-dependent manner. Journal of Diabetes and Its Complications, 2014, 28, 71-78.	1.2	23
52	Ca²⁺-pumping impairment during repetitive fatiguing contractions in single myofibers: role of cross-bridge cycling. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R118-R125.	0.9	19
53	Exercise Alleviates Lipid-Induced Insulin Resistance in Human Skeletal Muscleâ€“Signaling Interaction at the Level of TBC1 Domain Family Member 4. Diabetes, 2012, 61, 2743-2752.	0.3	92
54	Mitochondrial activation at the onset of contractions in isolated myofibres during successive contractile periods. Journal of Physiology, 2012, 590, 3597-3609.	1.3	28

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55	Effect of hypoxia on single skeletal muscle fiber contractility at physiological temperature. FASEB Journal, 2012, 26, 1078.27.	0.2	0
56	Sirtuin 1 (SIRT1) Deacetylase Activity Is Not Required for Mitochondrial Biogenesis or Peroxisome Proliferator-activated Receptor-Î³ Coactivator-1Î± (PGC-1Î±) Deacetylation following Endurance Exercise. Journal of Biological Chemistry, 2011, 286, 30561-30570.	1.6	156
57	Reactive oxygen species formation during tetanic contractions in single isolated Xenopus myofibers. Journal of Applied Physiology, 2011, 111, 898-904.	1.2	34
58	Faster O₂ uptake kinetics in canine skeletal muscle in situ after acute creatine kinase inhibition. Journal of Physiology, 2011, 589, 221-233.	1.3	31
59	Acute Oxaloacetate Exposure Enhances Resistance to Fatigue in in vitro Mouse Soleus Muscle. FASEB Journal, 2011, 25, 1104.5.	0.2	1
60	Phenol increases intracellular [Ca2+] during twitch contractions in intact Xenopus skeletal myofibers. Journal of Applied Physiology, 2010, 109, 1384-1393.	1.2	7
61	Phenol increases twitch tension by increasing Ca 2+ transients in intact single Xenopus myofibers. FASEB Journal, 2010, 24, 1048.10.	0.2	0
62	Intracellular Po2 kinetics at different contraction frequencies in Xenopus single skeletal muscle fibers. Journal of Applied Physiology, 2007, 102, 1456-1461.	1.2	10
63	Exercise improves phosphatidylinositol-3,4,5-trisphosphate responsiveness of atypical protein kinase C and interacts with insulin signalling to peptide elongation in human skeletal muscle. Journal of Physiology, 2007, 582, 1289-1301.	1.3	37
64	Skeletal muscle function with acute creatine kinase inhibition. FASEB Journal, 2007, 21, A1356.	0.2	1
65	Vascular NO availability is an important determinant of impaired skeletal muscle microvascular PO2 in chronic heart failure. Acta Physiologica, 2006, 188, 1-1.	1.8	0
66	Fiber type differences in O ₂ cost of force development during fatigue in isolated single fibers. FASEB Journal, 2006, 20, .	0.2	0
67	Inhibition of crossbridge cycling improves cytosolic Ca ²⁺ handling during highâ€frequency stimulation of isolated skeletal myocytes.. FASEB Journal, 2006, 20, A810.	0.2	0
68	Effects of nitric oxide synthase inhibition byl-NAME on oxygen uptake kinetics in isolated canine musclein situ. Journal of Physiology, 2005, 568, 1021-1033.	1.3	40
69	Effect of contraction frequency on the contractile and noncontractile phases of muscle venous blood flow. Journal of Applied Physiology, 2003, 95, 1139-1144.	1.2	18
70	Intracellular Po 2 decreases with increasing stimulation frequency in contracting singleXenopus muscle fibers. Journal of Applied Physiology, 2001, 91, 632-636.	1.2	22
71	Recovery of force during postcontractile depression in singleXenopus muscle fibers. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R1469-R1475.	0.9	5
72	Fall in intracellular P<scp>o</scp>₂at the onset of contractions inXenopussingle skeletal muscle fibers. Journal of Applied Physiology, 2001, 90, 1871-1876.	1.2	120

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73	Preconditioning improves function and recovery of single muscle fibers during severe hypoxia and reoxygenation. American Journal of Physiology - Cell Physiology, 2001, 281, C142-C146.	2.1	24
74	Glucose, exercise and insulin: emerging concepts. Journal of Physiology, 2001, 535, 313-322.	1.3	198
75	Structural basis of muscle O2 diffusing capacity: evidence from muscle function in situ. Journal of Applied Physiology, 2000, 88, 560-566.	1.2	84
76	Phosphorylating pathways and fatigue development in contracting Xenopus single skeletal muscle fibers. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 278, R587-R591.	0.9	15
77	Impairment of Ca²⁺release in singleXenopusmuscle fibers fatigued at varied extracellular P O 2. Journal of Applied Physiology, 2000, 88, 1743-1748.	1.2	26
78	Role of convective O2 delivery in determiningVË™o 2 on-kinetics in canine muscle contracting at peak VË™o 2. Journal of Applied Physiology, 2000, 89, 1293-1301.	1.2	104
79	Human muscle performance and PCr hydrolysis with varied inspired oxygen fractions: a³¹P-MRS study. Journal of Applied Physiology, 1999, 86, 1367-1373.	1.2	228
80	Differential depression of myocardial function and metabolism by lactate and H+. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H3-H8.	1.5	20
81	Phosphorescence quenching method for measurement of intracellular P O 2 in isolated skeletal muscle fibers. Journal of Applied Physiology, 1999, 86, 720-724.	1.2	69
82	Effect of varied extracellular P O 2 on muscle performance inXenopus single skeletal muscle fibers. Journal of Applied Physiology, 1999, 86, 1812-1816.	1.2	29
83	Rapid force recovery in contracting skeletal muscle after brief ischemia is dependent on O₂ availability. Journal of Applied Physiology, 1999, 87, 2225-2229.	1.2	24
84	Skeletal muscle phosphocreatine recovery in exercise-trained humans is dependent on O₂availability. Journal of Applied Physiology, 1999, 86, 2013-2018.	1.2	260
85	Contraction duration affects metabolic energy cost and fatigue in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E397-E402.	1.8	78
86	Bioenergetics of contracting skeletal muscle after partial reduction of blood flow. Journal of Applied Physiology, 1998, 84, 1882-1888.	1.2	39
87	Phosphocreatine hydrolysis during submaximal exercise: the effect of F I O 2. Journal of Applied Physiology, 1998, 85, 1457-1463.	1.2	124
88	Faster adjustment of O2delivery does not affect VË™o 2 on-kinetics in isolated in situ canine muscle. Journal of Applied Physiology, 1998, 85, 1394-1403.	1.2	220
89	Peripheral O2 diffusion does not affect VË™o 2 on-kinetics in isolated in situ canine muscle. Journal of Applied Physiology, 1998, 85, 1404-1412.	1.2	145