

# Michael C Hogan

## List of Publications by Year in descending order

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89  
papers

5,263  
citations

101535  
36  
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88628  
70  
g-index

89  
all docs

89  
docs citations

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times ranked

6164  
citing authors

#	ARTICLE	IF	CITATIONS
1	Illumination of the Endogenous Insulin-Regulated TBC1D4 Interactome in Human Skeletal Muscle. <i>Diabetes</i> , 2022, 71, 906-920.	0.6	3
2	Role of parvalbumin in fatigue-induced changes in force and cytosolic calcium transients in intact single mouse myofibers. <i>Journal of Applied Physiology</i> , 2022, 132, 1041-1053.	2.5	5
3	What Wasserman wrought: a celebratory review of 50 years of research arising from the concept of an "anaerobic threshold". <i>Journal of Physiology</i> , 2021, 599, 1005-1005.	2.9	3
4	Microvascular O <sub>2</sub> delivery and O <sub>2</sub> utilization during metabolic transitions in skeletal muscle. One-hundred years after the pioneering work by August Krogh. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2021, 252, 110842.	1.8	8
5	Advances in exercise physiology: exercise and health. <i>Journal of Physiology</i> , 2021, 599, 769-770.	2.9	0
6	AXIN1 knockout does not alter AMPK/mTORC1 regulation and glucose metabolism in mouse skeletal muscle. <i>Journal of Physiology</i> , 2021, 599, 3081-3100.	2.9	6
7	Effect of exercise training on skeletal muscle protein expression in relation to insulin sensitivity: Per protocol analysis of a randomized controlled trial (GO-ACTIVE). <i>Physiological Reports</i> , 2021, 9, e14850.	1.7	2
8	Direct small molecule ADaM-site AMPK activators reveal an AMPK $\beta$ -independent mechanism for blood glucose lowering. <i>Molecular Metabolism</i> , 2021, 51, 101259.	6.5	10
9	Insulin-induced membrane permeability to glucose in human muscles at rest and following exercise. <i>Journal of Physiology</i> , 2020, 598, 303-315.	2.9	35
10	The insulin-sensitizing effect of a single exercise bout is similar in type I and type II human muscle fibres. <i>Journal of Physiology</i> , 2020, 598, 5687-5699.	2.9	13
11	pH-Gated Succinate Secretion Regulates Muscle Remodeling in Response to Exercise. <i>Cell</i> , 2020, 183, 62-75.e17.	28.9	129
12	Effect of acute nitrite infusion on contractile economy and metabolism in isolated skeletal muscle in situ during hypoxia. <i>Journal of Physiology</i> , 2020, 598, 2371-2384.	2.9	5
13	Inducible deletion of skeletal muscle AMPK $\beta$ reveals that AMPK is required for nucleotide balance but dispensable for muscle glucose uptake and fat oxidation during exercise. <i>Molecular Metabolism</i> , 2020, 40, 101028.	6.5	32
14	Reply from Stephen J. Bailey, Paulo G. Gandra, Andrew M. Jones, Michael C. Hogan and Leonardo Nogueira. <i>Journal of Physiology</i> , 2020, 598, 1643-1644.	2.9	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. <i>Diabetes</i> , 2020, 69, 578-590.	0.6	21
16	Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. <i>Molecular Metabolism</i> , 2020, 39, 100998.	6.5	29
17	ApoA-1 improves glucose tolerance by increasing glucose uptake into heart and skeletal muscle independently of AMPK $\beta$ . <i>Molecular Metabolism</i> , 2020, 35, 100949.	6.5	25
18	Racial disparities in skeletal muscle: alternative approaches in glucose metabolism after exercise training in obese women of African ancestry. <i>Journal of Physiology</i> , 2020, 598, 2551-2552.	2.9	0

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19	Inhibition of S-nitrosoglutathione Reductase During Contractions Slows Recovery of Low-Frequency Force in Isolated Fast-twitch Muscle and in Intact Single Myofibers. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
20	Incubation with sodium nitrite attenuates fatigue development in intact single mouse fibres at physiological. <i>Journal of Physiology</i> , 2019, 597, 5429-5443.	2.9	40
21	TBC1D4 Is Necessary for Enhancing Muscle Insulin Sensitivity in Response to AICAR and Contraction. <i>Diabetes</i> , 2019, 68, 1756-1766.	0.6	40
22	AMPK and TBC1D1 Regulate Muscle Glucose Uptake After, but Not During, Exercise and Contraction. <i>Diabetes</i> , 2019, 68, 1427-1440.	0.6	67
23	Effect of bariatric surgery on plasma GDF15 in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E615-E621.	3.5	25
24	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. <i>Diabetes</i> , 2019, 68, 502-514.	0.6	20
25	Exercise training reduces the insulin-sensitizing effect of a single bout of exercise in human skeletal muscle. <i>Journal of Physiology</i> , 2019, 597, 89-103.	2.9	41
26	Mechanisms Preserving Insulin Action during High Dietary Fat Intake. <i>Cell Metabolism</i> , 2019, 29, 50-63.e4.	16.2	50
27	A mitochondrial-targeted antioxidant improves myofilament $Ca^{2+}$ sensitivity during prolonged low frequency force depression at low. <i>Journal of Physiology</i> , 2018, 596, 1079-1089.	2.9	16
28	Exercise increases circulating GDF15 in humans. <i>Molecular Metabolism</i> , 2018, 9, 187-191.	6.5	109
29	Extracellular Vesicles Provide a Means for Tissue Crosstalk during Exercise. <i>Cell Metabolism</i> , 2018, 27, 237-251.e4.	16.2	426
30	Skeletal muscle O-GlcNAc transferase is important for muscle energy homeostasis and whole-body insulin sensitivity. <i>Molecular Metabolism</i> , 2018, 11, 160-177.	6.5	60
31	Effects of menopause and high-intensity training on insulin sensitivity and muscle metabolism. <i>Menopause</i> , 2018, 25, 165-175.	2.0	21
32	Exercise-induced molecular mechanisms promoting glycogen supercompensation in human skeletal muscle. <i>Molecular Metabolism</i> , 2018, 16, 24-34.	6.5	58
33	Activation of Skeletal Muscle AMPK Promotes Glucose Disposal and Glucose Lowering in Non-human Primates and Mice. <i>Cell Metabolism</i> , 2017, 25, 1147-1159.e10.	16.2	205
34	Acute Hypoglycemia in Healthy Humans Impairs Insulin-Stimulated Glucose Uptake and Glycogen Synthase in Skeletal Muscle: A Randomized Clinical Study. <i>Diabetes</i> , 2017, 66, 2483-2494.	0.6	7
35	Exercise Increases Human Skeletal Muscle Insulin Sensitivity via Coordinated Increases in Microvascular Perfusion and Molecular Signaling. <i>Diabetes</i> , 2017, 66, 1501-1510.	0.6	120
36	Multiplexed Temporal Quantification of the Exercise-regulated Plasma Peptidome. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 2055-2068.	3.8	56

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37	Opposite Regulation of Insulin Sensitivity by Dietary Lipid Versus Carbohydrate Excess. <i>Diabetes</i> , 2017, 66, 2583-2595.	0.6	46
38	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. <i>Diabetes</i> , 2017, 66, 598-612.	0.6	137
39	Circulating FGF21 in humans is potently induced by short term overfeeding of carbohydrates. <i>Molecular Metabolism</i> , 2017, 6, 22-29.	6.5	95
40	Skeletal myofiber VEGF regulates contraction-induced perfusion and exercise capacity but not muscle capillarity in adult mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R192-R199.	1.8	19
41	Cytosolic calcium transients are a determinant of contraction-induced HSP72 transcription in single skeletal muscle fibers. <i>Journal of Applied Physiology</i> , 2016, 120, 1260-1266.	2.5	5
42	Exercise and oxidative stress. <i>Journal of Physiology</i> , 2016, 594, 5079-5080.	2.9	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. <i>Diabetes</i> , 2016, 65, 1219-1230.	0.6	62
44	Optimizing hyaluronidase dose and plasmid DNA delivery greatly improves gene electrotransfer efficiency in rat skeletal muscle. <i>Biochemistry and Biophysics Reports</i> , 2015, 4, 342-350.	1.3	7
45	Human muscle fibre type-specific regulation of AMPK and downstream targets by exercise. <i>Journal of Physiology</i> , 2015, 593, 2053-2069.	2.9	90
46	Recovery of Indicators of Mitochondrial Biogenesis, Oxidative Stress, and Aging With (âˆš)-Epicatechin in Senile Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1370-1378.	3.6	76
47	Prior AICAR Stimulation Increases Insulin Sensitivity in Mouse Skeletal Muscle in an AMPK-Dependent Manner. <i>Diabetes</i> , 2015, 64, 2042-2055.	0.6	115
48	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. <i>Cell Metabolism</i> , 2015, 22, 922-935.	16.2	333
49	Human Muscle Fiber Type-Specific Insulin Signaling: Impact of Obesity and Type 2 Diabetes. <i>Diabetes</i> , 2015, 64, 485-497.	0.6	150
50	Acute exercise and physiological insulin induce distinct phosphorylation signatures on TBC1D1 and TBC1D4 proteins in human skeletal muscle. <i>Journal of Physiology</i> , 2014, 592, 351-375.	2.9	95
51	Physical inactivity affects skeletal muscle insulin signaling in a birth weight-dependent manner. <i>Journal of Diabetes and Its Complications</i> , 2014, 28, 71-78.	2.3	23
52	Ca <sup>2+</sup> -pumping impairment during repetitive fatiguing contractions in single myofibers: role of cross-bridge cycling. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R118-R125.	1.8	19
53	Exercise Alleviates Lipid-Induced Insulin Resistance in Human Skeletal Muscle-Signaling Interaction at the Level of TBC1 Domain Family Member 4. <i>Diabetes</i> , 2012, 61, 2743-2752.	0.6	92
54	Mitochondrial activation at the onset of contractions in isolated myofibres during successive contractile periods. <i>Journal of Physiology</i> , 2012, 590, 3597-3609.	2.9	28

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55	Effect of hypoxia on single skeletal muscle fiber contractility at physiological temperature. FASEB Journal, 2012, 26, 1078.27.	0.5	0
56	Sirtuin 1 (SIRT1) Deacetylase Activity Is Not Required for Mitochondrial Biogenesis or Peroxisome Proliferator-activated Receptor- $\beta$ Coactivator-1 $\alpha$ (PGC-1 $\alpha$ ) Deacetylation following Endurance Exercise. Journal of Biological Chemistry, 2011, 286, 30561-30570.	3.4	156
57	Reactive oxygen species formation during tetanic contractions in single isolated <i>Xenopus</i> myofibers. Journal of Applied Physiology, 2011, 111, 898-904.	2.5	34
58	Faster O <sub>2</sub> uptake kinetics in canine skeletal muscle <i>in situ</i> after acute creatine kinase inhibition. Journal of Physiology, 2011, 589, 221-233.	2.9	31
59	Acute Oxaloacetate Exposure Enhances Resistance to Fatigue in <i>in vitro</i> Mouse Soleus Muscle. FASEB Journal, 2011, 25, 1104.5.	0.5	1
60	Phenol increases intracellular [Ca <sup>2+</sup> ] during twitch contractions in intact <i>Xenopus</i> skeletal myofibers. Journal of Applied Physiology, 2010, 109, 1384-1393.	2.5	7
61	Phenol increases twitch tension by increasing Ca <sup>2+</sup> transients in intact single <i>Xenopus</i> myofibers. FASEB Journal, 2010, 24, 1048.10.	0.5	0
62	Intracellular Po <sub>2</sub> kinetics at different contraction frequencies in <i>Xenopus</i> single skeletal muscle fibers. Journal of Applied Physiology, 2007, 102, 1456-1461.	2.5	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.	2.9	37
64	Skeletal muscle function with acute creatine kinase inhibition. FASEB Journal, 2007, 21, A1356.	0.5	1
65	Vascular NO availability is an important determinant of impaired skeletal muscle microvascular PO <sub>2</sub> in chronic heart failure. Acta Physiologica, 2006, 188, 1-1.	3.8	0
66	Fiber type differences in O <sub>2</sub> cost of force development during fatigue in isolated single fibers. FASEB Journal, 2006, 20, .	0.5	0
67	Inhibition of crossbridge cycling improves cytosolic Ca <sup>2+</sup> handling during high-frequency stimulation of isolated skeletal myocytes.. FASEB Journal, 2006, 20, A810.	0.5	0
68	Effects of nitric oxide synthase inhibition by L-NAME on oxygen uptake kinetics in isolated canine muscle <i>in situ</i> . Journal of Physiology, 2005, 568, 1021-1033.	2.9	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.	2.5	18
70	Intracellular Po <sub>2</sub> decreases with increasing stimulation frequency in contracting single <i>Xenopus</i> muscle fibers. Journal of Applied Physiology, 2001, 91, 632-636.	2.5	22
71	Recovery of force during postcontractile depression in single <i>Xenopus</i> muscle fibers. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R1469-R1475.	1.8	5
72	Fall in intracellular P <sub>o</sub> <sub>2</sub> at the onset of contractions in <i>Xenopus</i> single skeletal muscle fibers. Journal of Applied Physiology, 2001, 90, 1871-1876.	2.5	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.	4.6	24
74	Glucose, exercise and insulin: emerging concepts. Journal of Physiology, 2001, 535, 313-322.	2.9	198
75	Structural basis of muscle O <sub>2</sub> diffusing capacity: evidence from muscle function in situ. Journal of Applied Physiology, 2000, 88, 560-566.	2.5	84
76	Phosphorylating pathways and fatigue development in contracting <i>Xenopus</i> single skeletal muscle fibers. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 278, R587-R591.	1.8	15
77	Impairment of Ca <sup>2+</sup> release in single <i>Xenopus</i> muscle fibers fatigued at varied extracellular P O <sub>2</sub> . Journal of Applied Physiology, 2000, 88, 1743-1748.	2.5	26
78	Role of convective O <sub>2</sub> delivery in determining V̇E <sup>TM</sup> <sub>O<sub>2</sub></sub> on-kinetics in canine muscle contracting at peak V̇E <sup>TM</sup> <sub>O<sub>2</sub></sub> . Journal of Applied Physiology, 2000, 89, 1293-1301.	2.5	104
79	Human muscle performance and PCr hydrolysis with varied inspired oxygen fractions: a <sup>31</sup> P-MRS study. Journal of Applied Physiology, 1999, 86, 1367-1373.	2.5	228
80	Differential depression of myocardial function and metabolism by lactate and H <sup>+</sup> . American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H3-H8.	3.2	20
81	Phosphorescence quenching method for measurement of intracellular P O <sub>2</sub> in isolated skeletal muscle fibers. Journal of Applied Physiology, 1999, 86, 720-724.	2.5	69
82	Effect of varied extracellular P O <sub>2</sub> on muscle performance in <i>Xenopus</i> single skeletal muscle fibers. Journal of Applied Physiology, 1999, 86, 1812-1816.	2.5	29
83	Rapid force recovery in contracting skeletal muscle after brief ischemia is dependent on O <sub>2</sub> availability. Journal of Applied Physiology, 1999, 87, 2225-2229.	2.5	24
84	Skeletal muscle phosphocreatine recovery in exercise-trained humans is dependent on O <sub>2</sub> availability. Journal of Applied Physiology, 1999, 86, 2013-2018.	2.5	260
85	Contraction duration affects metabolic energy cost and fatigue in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E397-E402.	3.5	78
86	Bioenergetics of contracting skeletal muscle after partial reduction of blood flow. Journal of Applied Physiology, 1998, 84, 1882-1888.	2.5	39
87	Phosphocreatine hydrolysis during submaximal exercise: the effect of F I O <sub>2</sub> . Journal of Applied Physiology, 1998, 85, 1457-1463.	2.5	124
88	Faster adjustment of O <sub>2</sub> delivery does not affect V̇E <sup>TM</sup> <sub>O<sub>2</sub></sub> on-kinetics in isolated in situ canine muscle. Journal of Applied Physiology, 1998, 85, 1394-1403.	2.5	220
89	Peripheral O <sub>2</sub> diffusion does not affect V̇E <sup>TM</sup> <sub>O<sub>2</sub></sub> on-kinetics in isolated in situ canine muscle. Journal of Applied Physiology, 1998, 85, 1404-1412.	2.5	145