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List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,627
citations

159358

30
h-index

133063

59
g-index

80
all docs

80
docs citations

80
times ranked

4856
citing authors

#	ARTICLE	IF	CITATIONS
1	â€œVasocrineâ€ signalling from perivascular fat: a mechanism linking insulin resistance to vascular disease. <i>Lancet, The</i> , 2005, 365, 1817-1820.	6.3	478
2	Endothelial dysfunction and diabetes: roles of hyperglycemia, impaired insulin signaling and obesity. <i>Cell and Tissue Research</i> , 2009, 335, 165-189.	1.5	249
3	Microvascular Dysfunction. <i>Hypertension</i> , 2007, 50, 204-211.	1.3	205
4	Mechanistic Links Between Obesity, Diabetes, and Blood Pressure: Role of Perivascular Adipose Tissue. <i>Physiological Reviews</i> , 2019, 99, 1701-1763.	13.1	157
5	Effective Treatment of Edema and Endothelial Barrier Dysfunction With Imatinib. <i>Circulation</i> , 2012, 126, 2728-2738.	1.6	147
6	ESC Working Group on Coronary Pathophysiology and Microcirculation position paper on â€œcoronary microvascular dysfunction in cardiovascular diseaseâ€™. <i>Cardiovascular Research</i> , 2020, 116, 741-755.	1.8	147
7	Microvascular Dysfunction: A Potential Mechanism in the Pathogenesis of Obesityâ€associated Insulin Resistance and Hypertension. <i>Microcirculation</i> , 2012, 19, 5-18.	1.0	119
8	Perivascular Adipose Tissue Control of Insulin-Induced Vasoreactivity in Muscle Is Impaired in db/db Mice. <i>Diabetes</i> , 2013, 62, 590-598.	0.3	105
9	Physiological concentrations of insulin induce endothelin-mediated vasoconstriction during inhibition of NOS or PI3-kinase in skeletal muscle arterioles. <i>Cardiovascular Research</i> , 2002, 56, 464-471.	1.8	104
10	Vasoconstrictor effects of insulin in skeletal muscle arterioles are mediated by ERK1/2 activation in endothelium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H2043-H2048.	1.5	102
11	Regulation of Vascular Function and Insulin Sensitivity by Adipose Tissue: Focus on Perivascular Adipose Tissue. <i>Microcirculation</i> , 2007, 14, 389-402.	1.0	102
12	Endothelial dysfunction in (pre)diabetes: Characteristics, causative mechanisms and pathogenic role in type 2 diabetes. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2013, 14, 39-48.	2.6	102
13	Cardiovascular disease and COVID-19: a consensus paper from the ESC Working Group on Coronary Pathophysiology & Microcirculation, ESC Working Group on Thrombosis and the Association for Acute CardioVascular Care (ACVC), in collaboration with the European Heart Rhythm Association (FHRA). <i>Cardiovascular Research</i> , 2021, 117, 2705-2729.	1.8	95
14	Selective resistance to vasoactive effects of insulin in muscle resistance arteries of obese Zucker (<i>fa</i>/<i>fa</i>) rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1134-E1139.	1.8	80
15	Reactive Oxygen Speciesâ€Induced Stimulation of 5â€AMP-Activated Protein Kinase Mediates Sevoflurane-Induced Cardioprotection. <i>Circulation</i> , 2009, 120, S10-5.	1.6	79
16	Perivascular Adipose Tissue and Its Role in Type 2 Diabetes and Cardiovascular Disease. <i>Current Diabetes Reports</i> , 2011, 11, 211-217.	1.7	79
17	Birth Weight Relates to Salt Sensitivity of Blood Pressure in Healthy Adults. <i>Hypertension</i> , 2008, 51, 928-932.	1.3	78
18	Paracrine regulation of vascular tone, inflammation and insulin sensitivity by perivascular adipose tissue. <i>Vascular Pharmacology</i> , 2012, 56, 204-209.	1.0	77

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19	Physiological Concentrations of Insulin Induce Endothelin-Dependent Vasoconstriction of Skeletal Muscle Resistance Arteries in the Presence of Tumor Necrosis Factor- α : Dependence on c-Jun N-Terminal Kinase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 274-280.	1.1	73
20	Insulin-Induced Microvascular Recruitment in Skin and Muscle are Related and Both are Associated with Whole-Body Glucose Uptake. <i>Microcirculation</i> , 2012, 19, 494-500.	1.0	68
21	Activation of AMP-Activated Protein Kinase by 5-Aminoimidazole-4-Carboxamide-1- β -D-Ribofuranoside in the Muscle Microcirculation Increases Nitric Oxide Synthesis and Microvascular Perfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 1137-1142.	1.1	62
22	Bariatric Surgery as a Novel Treatment for Type 2 Diabetes Mellitus. <i>Archives of Surgery</i> , 2011, 146, 744.	2.3	62
23	Protein Kinase C δ Activation Induces Insulin-Mediated Constriction of Muscle Resistance Arteries. <i>Diabetes</i> , 2008, 57, 706-713.	0.3	60
24	Reduction in skin microvascular density and changes in vessel morphology in patients treated with sunitinib. <i>Anti-Cancer Drugs</i> , 2010, 21, 439-446.	0.7	58
25	Coronary microvascular dysfunction in a porcine model of early atherosclerosis and diabetes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H85-H94.	1.5	50
26	Insulin-induced changes in skeletal muscle microvascular perfusion are dependent upon perivascular adipose tissue in women. <i>Diabetologia</i> , 2015, 58, 1907-1915.	2.9	44
27	Body Mass Index Is Associated With Microvascular Endothelial Dysfunction in Patients With Treated Metabolic Risk Factors and Suspected Coronary Artery Disease. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	44
28	Empagliflozin restores chronic kidney disease-induced impairment of endothelial regulation of cardiomyocyte relaxation and contraction. <i>Kidney International</i> , 2021, 99, 1088-1101.	2.6	37
29	Contrast-enhanced ultrasound for quantification of tissue perfusion in humans. <i>Microcirculation</i> , 2020, 27, e12588.	1.0	36
30	Cardioprotection Via Activation of Protein Kinase C- δ Depends on Modulation of the Reverse Mode of the Na ⁺ /Ca ²⁺ Exchanger. <i>Circulation</i> , 2006, 114, I-226-I-232.	1.6	34
31	Renal hypoperfusion and impaired endothelium-dependent vasodilation in an animal model of VILI: the role of the peroxynitrite-PARP pathway. <i>Critical Care</i> , 2010, 14, R45.	2.5	28
32	Neovascularization of the atherosclerotic plaque. <i>Current Opinion in Lipidology</i> , 2015, 26, 405-411.	1.2	28
33	Glucocorticoid treatment impairs microvascular function in healthy men in association with its adverse effects on glucose metabolism and blood pressure: a randomised controlled trial. <i>Diabetologia</i> , 2013, 56, 2383-2391.	2.9	26
34	Globular adiponectin controls insulin-mediated vasoreactivity in muscle through AMPK β 2. <i>Vascular Pharmacology</i> , 2016, 78, 24-35.	1.0	26
35	FGF23 impairs peripheral microvascular function in renal failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H1414-H1424.	1.5	25
36	Microvascular dysfunction: causative role in the association between hypertension, insulin resistance and the metabolic syndrome?. <i>Essays in Biochemistry</i> , 2006, 42, 163-176.	2.1	25

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37	Effects of hyperoxia on vascular tone in animal models: systematic review and meta-analysis. <i>Critical Care</i> , 2018, 22, 189.	2.5	24
38	Insulin-Induced Changes in Microvascular Vasomotion and Capillary Recruitment are Associated in Humans. <i>Microcirculation</i> , 2014, 21, 380-387.	1.0	23
39	Role of Insulin-Stimulated Adipose Tissue Perfusion in the Development of Whole-Body Insulin Resistance. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 411-418.	1.1	22
40	Mechanisms, therapeutic implications, and methodological challenges of gut microbiota and cardiovascular diseases: a position paper by the ESC Working Group on Coronary Pathophysiology and Microcirculation. <i>Cardiovascular Research</i> , 2022, 118, 3171-3182.	1.8	21
41	Depletion of Arg/Abl2 improves endothelial cell adhesion and prevents vascular leak during inflammation. <i>Angiogenesis</i> , 2021, 24, 677-693.	3.7	19
42	Relationships Between Type 2 Diabetes, Neuropathy, and Microvascular Dysfunction: Evidence From Patients With Cryptogenic Axonal Polyneuropathy. <i>Diabetes Care</i> , 2017, 40, 583-590.	4.3	16
43	High Fibroblast Growth Factor 23 concentrations in experimental renal failure impair calcium handling in cardiomyocytes. <i>Physiological Reports</i> , 2018, 6, e13591.	0.7	15
44	The Role of Systemic Microvascular Dysfunction in Heart Failure with Preserved Ejection Fraction. <i>Biomolecules</i> , 2022, 12, 278.	1.8	14
45	Sleep quality and duration are related to microvascular function: the Amsterdam Growth and Health Longitudinal Study. <i>Journal of Sleep Research</i> , 2015, 24, 140-147.	1.7	12
46	Four-and-a-half LIM domain protein 2 (FHL2) deficiency protects mice from diet-induced obesity and high FHL2 expression marks human obesity. <i>Metabolism: Clinical and Experimental</i> , 2021, 121, 154815.	1.5	12
47	Body mass index is related to microvascular vasomotion, this is partly explained by adiponectin. <i>European Journal of Clinical Investigation</i> , 2014, 44, 660-667.	1.7	11
48	The Vascular Contribution to Insulin Resistance: Promise, Proof, and Pitfalls. <i>Diabetes</i> , 2012, 61, 3063-3065.	0.3	10
49	Hyperoxia does not affect oxygen delivery in healthy volunteers while causing a decrease in sublingual perfusion. <i>Microcirculation</i> , 2018, 25, e12433.	1.0	10
50	Insulin Receptor Substrate 2 Controls Insulin-Mediated Vasoreactivity and Perivascular Adipose Tissue Function in Muscle. <i>Frontiers in Physiology</i> , 2018, 9, 245.	1.3	10
51	Myocardial contrast echocardiography in mice: technical and physiological aspects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H381-H391.	1.5	10
52	Crosstalk proposal: <i>de novo</i> capillary recruitment in healthy muscle is necessary. <i>Journal of Physiology</i> , 2014, 592, 5129-5131.	1.3	9
53	C1q/TNF-related protein 1: a novel link between visceral fat and athero-inflammation. <i>European Heart Journal</i> , 2016, 37, 1772-1774.	1.0	9
54	Perivascular Adipose Tissue Controls Insulin-Stimulated Perfusion, Mitochondrial Protein Expression, and Glucose Uptake in Muscle Through Adipomuscular Arterioles. <i>Diabetes</i> , 2020, 69, 603-613.	0.3	9

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55	Insulin Sensitivity Determines Effects of Insulin and Meal Ingestion on Systemic Vascular Resistance in Healthy Subjects. <i>Microcirculation</i> , 2016, 23, 62-68.	1.0	8
56	Iloprost infusion prevents the insulin-induced reduction in skeletal muscle microvascular blood volume but does not enhance peripheral glucose uptake in type 2 diabetic patients. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 2523-2531.	2.2	8
57	The presence of cerebral white matter lesions and lower skin microvascular perfusion predicts lower cognitive performance in type 1 diabetes patients with retinopathy but not in healthy controls: A longitudinal study. <i>Microcirculation</i> , 2019, 26, e12530.	1.0	8
58	Metabolic-vascular coupling in skeletal muscle: A potential role for capillary pericytes?. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020, 47, 520-528.	0.9	7
59	The Relationship of Body Fatness and Body Fat Distribution with Microvascular Recruitment: The Amsterdam Growth and Health Longitudinal Study. <i>Microcirculation</i> , 2012, 19, 273-279.	1.0	6
60	JNK2 in myeloid cells impairs insulin's vasodilator effects in muscle during early obesity development through perivascular adipose tissue dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H364-H374.	1.5	6
61	Effects of a Hypercaloric and Hypocaloric Diet on Insulin-Induced Microvascular Recruitment, Glucose Uptake, and Lipolysis in Healthy Lean Men. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1695-1704.	1.1	6
62	Perivascular fat in human muscle. <i>Lancet Diabetes and Endocrinology</i> , the, 2016, 4, 958.	5.5	5
63	Glucose-mediated insulin secretion is improved in FHL2-deficient mice and elevated FHL2 expression in humans is associated with type 2 diabetes. <i>Diabetologia</i> , 2022, 65, 1721-1733.	2.9	5
64	Combined Intravital Microscopy and Contrast-enhanced Ultrasonography of the Mouse Hindlimb to Study Insulin-induced Vasodilation and Muscle Perfusion. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	4
65	Perfusion controls muscle glucose uptake by altering the rate of glucose dispersion in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E311-E312.	1.8	4
66	Response to Letter Regarding Article, "Reactive Oxygen Species-Induced Stimulation of 5 α -AMP-Activated Protein Kinase Mediates Sevoflurane-Induced Cardioprotection". <i>Circulation</i> , 2010, 121, .	1.6	3
67	The effect of perioperative insulin treatment on cardiodepression in mild adiposity in mice. <i>Cardiovascular Diabetology</i> , 2016, 15, 135.	2.7	3
68	Phenotyping the Microcirculation With Contrast-Enhanced Ultrasound. <i>Hypertension</i> , 2012, 60, e38; author reply e39.	1.3	2
69	Effects of imatinib on vascular insulin sensitivity and free fatty acid transport in early weight gain. <i>PLoS ONE</i> , 2021, 16, e0250442.	1.1	2
70	Does microvascular dysfunction link obesity with insulin resistance and hypertension?. <i>Expert Review of Endocrinology and Metabolism</i> , 2006, 1, 181-187.	1.2	1
71	Rebuttal from Eugene J. Barrett, Michelle A. Keske, Stephen Rattigan and Etto C. Eringa. <i>Journal of Physiology</i> , 2014, 592, 5137-5138.	1.3	1
72	Improving insights into the heterogeneous HFpEF syndrome through microvascular research. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 167, 106-108.	0.9	1

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73	PS3 - 16. Insulin induced vasoreactivity is dependent on perivascular adipose tissue as well as resistance artery properties after a two-week high fat diet in mice. Nederlands Tijdschrift Voor Diabetologie, 2011, 9, 101-101.	0.0	0
74	PS14 - 74. Microvascular insulin sensitivity in human skeletal muscle and skin are related and both are associated with metabolic insulin sensitivity. Nederlands Tijdschrift Voor Diabetologie, 2011, 9, 140-141.	0.0	0
75	To PRESERVE and protect. Journal of Hypertension, 2011, 29, 1859-1860.	0.3	0
76	PS9 - 6. Cardiac microvascular perfusion defects precede insulin resistance in mildly obese mice. Nederlands Tijdschrift Voor Diabetologie, 2013, 11, 169-170.	0.0	0
77	PS9 - 9. Human coronary artery disease is characterized by defects in coronary insulin signaling. Nederlands Tijdschrift Voor Diabetologie, 2013, 11, 183-183.	0.0	0
78	MP345CHRONIC KIDNEY DISEASE DISTURBS CARDIAC CALCIUM HANDLING DUE TO HIGH FGF23 LEVELSFGF23 LEVELS. Nephrology Dialysis Transplantation, 2016, 31, i454-i454.	0.4	0
79	MP349ENDOTHELIAL DYSFUNCTION IN EXPERIMENTAL CHRONIC KIDNEY DISEASE IS CAUSED BY FGF23. Nephrology Dialysis Transplantation, 2016, 31, i456-i456.	0.4	0
80	Increased Intra-individual Perivascular Adipose Tissue Density and Increased Inflammatory RNA Expression of Perivascular Adipose Tissue in Patients with Abdominal Aortic Aneurysms. European Journal of Vascular and Endovascular Surgery, 2019, 58, e349-e350.	0.8	0