## Stephen M Richards

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Blood flow and muscle metabolism: a focus on insulin action. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E241-E258.	3.5	293
2	Insulin Sensitivity of Muscle Capillary Recruitment In Vivo. Diabetes, 2004, 53, 447-453.	0.6	146
3	Angiotensin II–Mediated Phenotypic Cardiomyocyte Remodeling Leads to Age-Dependent Cardiac Dysfunction and Failure. Hypertension, 2005, 46, 426-432.	2.7	87
4	Decreased microvascular vasomotion and myogenic response in rat skeletal muscle in association with acute insulin resistance. Journal of Physiology, 2009, 587, 2579-2588.	2.9	67
5	Skeletal muscle contraction stimulates capillary recruitment and glucose uptake in insulin-resistant obese Zucker rats. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E804-E809.	3.5	55
6	TNF-α acutely inhibits vascular effects of physiological but not high insulin or contraction. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E654-E660.	3.5	54
7	Muscle microvascular blood flow responses in insulin resistance and ageing. Journal of Physiology, 2016, 594, 2223-2231.	2.9	50
8	Skeletal Muscle Microvascular-Linked Improvements in Glycemic Control From Resistance Training in Individuals With Type 2 Diabetes. Diabetes Care, 2017, 40, 1256-1263.	8.6	50
9	Muscle insulin resistance resulting from impaired microvascular insulin sensitivity in Sprague Dawley rats. Cardiovascular Research, 2013, 98, 28-36.	3.8	34
10	Local NOS inhibition impairs vascular and metabolic actions of insulin in rat hindleg muscle in vivo. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E745-E750.	3.5	33
11	Obesity, Insulin Resistance, and Capillary Recruitment. Microcirculation, 2007, 14, 299-309.	1.8	30
12	Exercise and insulin-mediated capillary recruitment in muscle. Exercise and Sport Sciences Reviews, 2005, 33, 43-8.	3.0	27
13	Differing protection with aspartate and glutamate cardioplegia in the isolated rat heart. Annals of Thoracic Surgery, 1995, 59, 1541-1548.	1.3	26
14	Continuous Perfusion Improves Preservation of Donor Rat Hearts: Importance of the Implantation Phase. Annals of Thoracic Surgery, 1998, 65, 1265-1272.	1.3	26
15	Cardioprotection by Orotic Acid: Metabolism and Mechanism of Action. Journal of Molecular and Cellular Cardiology, 1997, 29, 3239-3250.	1.9	25
16	A vascular mechanism for high-sodium-induced insulin resistance in rats. Diabetologia, 2014, 57, 2586-2595.	6.3	25
17	Oral glucose challenge impairs skeletal muscle microvascular blood flow in healthy people. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E307-E315.	3.5	24
18	Mechanism of cardioprotective effect of orotic acid. Cardiovascular Drugs and Therapy, 1998, 12, 159-170.	2.6	20

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19	Metabolic and vascular actions of endothelin-1 are inhibited by insulin-mediated vasodilation in perfused rat hindlimb muscle. British Journal of Pharmacology, 2005, 145, 992-1000.	5.4	20
20	Adiponectin opposes endothelin-1-mediated vasoconstriction in the perfused rat hindlimb. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H79-H86.	3.2	19
21	Regulation of microvascular flow and metabolism: An overview. Clinical and Experimental Pharmacology and Physiology, 2017, 44, 143-149.	1.9	19
22	Papyriferic Acid, An Antifeedant Triterpene From Birch Trees, Inhibits Succinate Dehydrogenase From Liver Mitochondria. Journal of Chemical Ecology, 2009, 35, 1252-1261.	1.8	17
23	Impairments in Adipose Tissue Microcirculation in Type 2 Diabetes Mellitus Assessed by Real-Time Contrast-Enhanced Ultrasound. Circulation: Cardiovascular Imaging, 2018, 11, e007074.	2.6	17
24	Insulin and contraction increase nutritive blood flow in rat muscle <i>in vivo</i> determined by microdialysis of <scp>l</scp> â€{ <sup>14</sup> C]glucose. Journal of Physiology, 2007, 585, 217-229.	2.9	16
25	Comparison of UW solution and St. Thomas' solution in the rat: Importance of potassium concentration. Annals of Thoracic Surgery, 1996, 61, 576-584.	1.3	15
26	Graded occlusion of perfused rat muscle vasculature decreases insulin action. Clinical Science, 2007, 112, 457-466.	4.3	15
27	Contrast-enhanced ultrasound measurement of microvascular perfusion relevant to nutrient and hormone delivery in skeletal muscle: A model study in vitro. Microvascular Research, 2008, 75, 323-329.	2.5	13
28	Microvascular Contributions to Insulin Resistance. Diabetes, 2013, 62, 343-345.	0.6	13
29	An Abductive Inference Approach to Assess the Performance-Enhancing Effects of Drugs Included on the World Anti-Doping Agency Prohibited List. Sports Medicine, 2021, 51, 1353-1376.	6.5	13
30	Adiposity Gain During Childhood, ACE I/D Polymorphisms and Metabolic Outcomes. Obesity, 2008, 16, 2141-2147.	3.0	12
31	Acute vascular and metabolic actions of the green tea polyphenol epigallocatechin 3-gallate in rat skeletal muscle. Journal of Nutritional Biochemistry, 2017, 40, 23-31.	4.2	12
32	Metformin improves vascular and metabolic insulin action in insulin-resistant muscle. Journal of Endocrinology, 2019, 243, 85-96.	2.6	11
33	Aspartate improves recovery of the recently infarcted rat heart after cardioplegic arrest. European Journal of Cardio-thoracic Surgery, 1998, 14, 185-190.	1.4	10
34	Postprandial microvascular blood flow in skeletal muscle: Similarities and disparities to the hyperinsulinaemicâ€euglycaemic clamp. Clinical and Experimental Pharmacology and Physiology, 2020, 47, 725-737.	1.9	10
35	T-1032, a cyclic GMP phosphodiesterase-5 inhibitor, acutely blocks physiologic insulin-mediated muscle haemodynamic effects and glucose uptake in vivo. British Journal of Pharmacology, 2003, 140, 1283-1291.	5.4	9
36	Microvascular flow routes in muscle controlled by vasoconstrictors. Microvascular Research, 2005, 70, 7-16.	2.5	9

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37	Factors Influencing the Hemodynamic and Metabolic Effects of Insulin in Muscle. Current Diabetes Reviews, 2006, 2, 61-70.	1.3	9
38	Characterization of perfused periaortic brown adipose tissue from the rat. Canadian Journal of Physiology and Pharmacology, 1994, 72, 344-352.	1.4	8
39	Uridine preserves ATP during hypoxic perfusion of the rat heart. Heart, Lung and Circulation, 1997, 6, 190-196.	0.1	8
40	Acute, local infusion of angiotensin II impairs microvascular and metabolic insulin sensitivity in skeletal muscle. Cardiovascular Research, 2019, 115, 590-601.	3.8	8
41	Metabolicâ€vascular coupling in skeletal muscle: A potential role for capillary pericytes?. Clinical and Experimental Pharmacology and Physiology, 2020, 47, 520-528.	1.9	7
42	Impaired postprandial skeletal muscle vascular responses to a mixed meal challenge in normoglycaemic people with a parent with type 2 diabetes. Diabetologia, 2022, 65, 216-225.	6.3	7
43	Muscle metabolism and control of capillary blood flow: insulin and exercise. Essays in Biochemistry, 2006, 42, 133-144.	4.7	7
44	Determination of Skeletal Muscle Microvascular Flowmotion with Contrast-Enhanced Ultrasound. Ultrasound in Medicine and Biology, 2017, 43, 2013-2023.	1.5	6
45	Enhancement of insulin-mediated rat muscle glucose uptake and microvascular perfusion by 5-aminoimidazole-4-carboxamide-1-β-d-ribofuranoside. Cardiovascular Diabetology, 2015, 14, 91.	6.8	5
46	POTENTIAL FOR ENDOTHELIN-1-MEDIATED IMPAIRMENT OF CONTRACTILE ACTIVITY IN HYPERTENSION. Clinical and Experimental Pharmacology and Physiology, 2007, 34, 217-222.	1.9	4
47	Pregnancy protects against the pro-inflammatory respiratory responses induced by particulate matter exposure. Chemosphere, 2019, 225, 796-802.	8.2	4
48	Perfusion controls muscle glucose uptake by altering the rate of glucose dispersion in vivo. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E311-E312.	3.5	4
49	[32P]Phosphate Autoradiography as an Indicator of Regional Myocardial Oxygen Consumption?. Journal of Molecular and Cellular Cardiology, 1993, 25, 289-302.	1.9	3
50	Are the metabolic benefits of resistance training in type 2 diabetes linked to improvements in adipose tissue microvascular blood flow?. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E1242-E1250.	3.5	3
51	A close association between vasoconstrictor-mediated uracil and lactate release by the perfused rat hindlimb. General Pharmacology, 1992, 23, 65-69.	0.7	2
52	Vasoconstrictor-mediated release of purines and pyrimidines from perfused rat hindlimb, perfused mesenteric arcade and incubated de-endothelialized aorta. General Pharmacology, 1994, 25, 1679-1690.	0.7	1
53	In utero exposure to diesel exhaust particles, but not silica, alters post-natal immune development and function. Chemosphere, 2021, 268, 129314.	8.2	1
54	Impaired postprandial adipose tissue microvascular blood flow responses to a mixed-nutrient meal in first-degree relatives of adults with type 2 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 0, , .	3.5	0