Stephen M Richards

List of Publications by Year in Descending Order

53 papers	1,191 citations	17 h-index	33 g-index
54 ext. papers	1,301 ext. citations	5.4 avg, IF	3.79 L-index

#	Paper	IF	Citations
53	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	10.3	0
52	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	10.6	5
51	In utero exposure to diesel exhaust particles, but not silica, alters post-natal immune development and function. *Chemosphere*, **2021**, 268, 129314	8.4	0
50	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	6	3
49	Metabolic-vascular coupling in skeletal muscle: A potential role for capillary pericytes?. *Clinical and Experimental Pharmacology and Physiology*, **2020**, 47, 520-528	3	4
48	Postprandial microvascular blood flow in skeletal muscle: Similarities and disparities to the hyperinsulinaemic-euglycaemic clamp. *Clinical and Experimental Pharmacology and Physiology*, **2020**, 47, 725-737	3	5
47	Pregnancy protects against the pro-inflammatory respiratory responses induced by particulate matter exposure. *Chemosphere*, **2019**, 225, 796-802	8.4	2
46	Metformin improves vascular and metabolic insulin action in insulin-resistant muscle. *Journal of Endocrinology*, **2019**, 243, 85-96	4.7	6
45	Acute, local infusion of angiotensin II impairs microvascular and metabolic insulin sensitivity in skeletal muscle. *Cardiovascular Research*, **2019**, 115, 590-601	9.9	4
44	Impairments in Adipose Tissue Microcirculation in Type 2 Diabetes Mellitus Assessed by Real-Time Contrast-Enhanced Ultrasound. *Circulation: Cardiovascular Imaging*, **2018**, 11, e007074	3.9	8
43	Oral glucose challenge impairs skeletal muscle microvascular blood flow in healthy people. *American Journal of Physiology - Endocrinology and Metabolism*, **2018**, 315, E307-E315	6	17
42	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	6	1
41	Regulation of microvascular flow and metabolism: An overview. *Clinical and Experimental Pharmacology and Physiology*, **2017**, 44, 143-149	3	16
40	Determination of Skeletal Muscle Microvascular Flowmotion with Contrast-Enhanced Ultrasound. *Ultrasound in Medicine and Biology*, **2017**, 43, 2013-2023	3.5	6
39	Skeletal Muscle Microvascular-Linked Improvements in Glycemic Control From Resistance Training in Individuals With Type 2 Diabetes. *Diabetes Care*, **2017**, 40, 1256-1263	14.6	36
38	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	6.3	8
37	Muscle microvascular blood flow responses in insulin resistance and ageing. *Journal of Physiology*, **2016**, 594, 2223-31	3.9	41

36	Enhancement of insulin-mediated rat muscle glucose uptake and microvascular perfusion by 5-aminoimidazole-4-carboxamide-1-Ð-ribofuranoside. *Cardiovascular Diabetology*, **2015**, 14, 91	8.7	4
35	A vascular mechanism for high-sodium-induced insulin resistance in rats. *Diabetologia*, **2014**, 57, 2586-95	10.3	21
34	Muscle insulin resistance resulting from impaired microvascular insulin sensitivity in Sprague Dawley rats. *Cardiovascular Research*, **2013**, 98, 28-36	9.9	28
33	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, E745-50	6	28
32	Microvascular contributions to insulin resistance. *Diabetes*, **2013**, 62, 343-5	0.9	11
31	Adiponectin opposes endothelin-1-mediated vasoconstriction in the perfused rat hindlimb. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H79-86	5.2	18
30	Papyriferic acid, an antifeedant triterpene from birch trees, inhibits succinate dehydrogenase from liver mitochondria. *Journal of Chemical Ecology*, **2009**, 35, 1252-61	2.7	14
29	Decreased microvascular vasomotion and myogenic response in rat skeletal muscle in association with acute insulin resistance. *Journal of Physiology*, **2009**, 587, 2579-88	3.9	52
28	Adiposity gain during childhood, ACE I/D polymorphisms and metabolic outcomes. *Obesity*, **2008**, 16, 2141-7	8	12
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, 323-9	3.7	11
26	Insulin and contraction increase nutritive blood flow in rat muscle in vivo determined by microdialysis of L-[14C]glucose. *Journal of Physiology*, **2007**, 585, 217-29	3.9	15
25	Potential for endothelin-1-mediated impairment of contractile activity in hypertension. *Clinical and Experimental Pharmacology and Physiology*, **2007**, 34, 217-22	3	2
24	Obesity, insulin resistance, and capillary recruitment. *Microcirculation*, **2007**, 14, 299-309	2.9	25
23	Graded occlusion of perfused rat muscle vasculature decreases insulin action. *Clinical Science*, **2007**, 112, 457-66	6.5	15
22	Factors influencing the hemodynamic and metabolic effects of insulin in muscle. *Current Diabetes Reviews*, **2006**, 2, 61-70	2.7	7
21	Muscle metabolism and control of capillary blood flow: insulin and exercise. *Essays in Biochemistry*, **2006**, 42, 133-44	7.6	7
20	Microvascular flow routes in muscle controlled by vasoconstrictors. *Microvascular Research*, **2005**, 70, 7-16	3.7	9
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	8.6	16

18	Angiotensin II-mediated phenotypic cardiomyocyte remodeling leads to age-dependent cardiac dysfunction and failure. *Hypertension*, **2005**, 46, 426-32	8.5	81
17	Exercise and insulin-mediated capillary recruitment in muscle. *Exercise and Sport Sciences Reviews*, **2005**, 33, 43-8	6.7	25
16	Skeletal muscle contraction stimulates capillary recruitment and glucose uptake in insulin-resistant obese Zucker rats. *American Journal of Physiology - Endocrinology and Metabolism*, **2004**, 287, E804-9	6	44
15	Insulin sensitivity of muscle capillary recruitment in vivo. *Diabetes*, **2004**, 53, 447-53	0.9	136
14	Blood flow and muscle metabolism: a focus on insulin action. *American Journal of Physiology - Endocrinology and Metabolism*, **2003**, 284, E241-58	6	257
13	TNF-alpha acutely inhibits vascular effects of physiological but not high insulin or contraction. *American Journal of Physiology - Endocrinology and Metabolism*, **2003**, 285, E654-60	6	49
12	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, 1283-91	8.6	7
11	Mechanism of cardioprotective effect of orotic acid. *Cardiovascular Drugs and Therapy*, **1998**, 12 Suppl 2, 159-70	3.9	17
10	Continuous perfusion improves preservation of donor rat hearts: importance of the implantation phase. *Annals of Thoracic Surgery*, **1998**, 65, 1265-72	2.7	25
9	Aspartate improves recovery of the recently infarcted rat heart after cardioplegic arrest. *European Journal of Cardio-thoracic Surgery*, **1998**, 14, 185-90	3	9
8	Cardioprotection by orotic acid: metabolism and mechanism of action. *Journal of Molecular and Cellular Cardiology*, **1997**, 29, 3239-50	5.8	25
7	Uridine preserves ATP during hypoxic perfusion of the rat heart. *Heart, Lung and Circulation*, **1997**, 6, 190-196		6
6	Comparison of UW solution and St. ThomasZsolution in the rat: importance of potassium concentration. *Annals of Thoracic Surgery*, **1996**, 61, 576-84	2.7	14
5	Differing protection with aspartate and glutamate cardioplegia in the isolated rat heart. *Annals of Thoracic Surgery*, **1995**, 59, 1541-8	2.7	25
4	Vasoconstrictor-mediated release of purines and pyrimidines from perfused rat hindlimb, perfused mesenteric arcade and incubated de-endothelialized aorta. *General Pharmacology*, **1994**, 25, 1679-90		1
3	Characterization of perfused periaortic brown adipose tissue from the rat. *Canadian Journal of Physiology and Pharmacology*, **1994**, 72, 344-52	2.4	8
2	[32P]phosphate autoradiography as an indicator of regional myocardial oxygen consumption?. *Journal of Molecular and Cellular Cardiology*, **1993**, 25, 289-302	5.8	3
1	A close association between vasoconstrictor-mediated uracil and lactate release by the perfused rat hindlimb. *General Pharmacology*, **1992**, 23, 65-9		2