

Stephen M Richards

List of Publications by Citations

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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	Blood flow and muscle metabolism: a focus on insulin action. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 284, E241-58	6	257
52	Insulin sensitivity of muscle capillary recruitment in vivo. <i>Diabetes</i> , 2004 , 53, 447-53	0.9	136
51	Angiotensin II-mediated phenotypic cardiomyocyte remodeling leads to age-dependent cardiac dysfunction and failure. <i>Hypertension</i> , 2005 , 46, 426-32	8.5	81
50	Decreased microvascular vasomotion and myogenic response in rat skeletal muscle in association with acute insulin resistance. <i>Journal of Physiology</i> , 2009 , 587, 2579-88	3.9	52
49	TNF-alpha acutely inhibits vascular effects of physiological but not high insulin or contraction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 285, E654-60	6	49
48	Skeletal muscle contraction stimulates capillary recruitment and glucose uptake in insulin-resistant obese Zucker rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 287, E804-9	6	44
47	Muscle microvascular blood flow responses in insulin resistance and ageing. <i>Journal of Physiology</i> , 2016 , 594, 2223-31	3.9	41
46	Skeletal Muscle Microvascular-Linked Improvements in Glycemic Control From Resistance Training in Individuals With Type 2 Diabetes. <i>Diabetes Care</i> , 2017 , 40, 1256-1263	14.6	36
45	Muscle insulin resistance resulting from impaired microvascular insulin sensitivity in Sprague Dawley rats. <i>Cardiovascular Research</i> , 2013 , 98, 28-36	9.9	28
44	Local NOS inhibition impairs vascular and metabolic actions of insulin in rat hindleg muscle in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 305, E745-50	6	28
43	Cardioprotection by orotic acid: metabolism and mechanism of action. <i>Journal of Molecular and Cellular Cardiology</i> , 1997 , 29, 3239-50	5.8	25
42	Continuous perfusion improves preservation of donor rat hearts: importance of the implantation phase. <i>Annals of Thoracic Surgery</i> , 1998 , 65, 1265-72	2.7	25
41	Obesity, insulin resistance, and capillary recruitment. <i>Microcirculation</i> , 2007 , 14, 299-309	2.9	25
40	Differing protection with aspartate and glutamate cardioplegia in the isolated rat heart. <i>Annals of Thoracic Surgery</i> , 1995 , 59, 1541-8	2.7	25
39	Exercise and insulin-mediated capillary recruitment in muscle. <i>Exercise and Sport Sciences Reviews</i> , 2005 , 33, 43-8	6.7	25
38	A vascular mechanism for high-sodium-induced insulin resistance in rats. <i>Diabetologia</i> , 2014 , 57, 2586-95	10.3	21
37	Adiponectin opposes endothelin-1-mediated vasoconstriction in the perfused rat hindlimb. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H79-86	5.2	18

36	Oral glucose challenge impairs skeletal muscle microvascular blood flow in healthy people. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 315, E307-E315	6	17
35	Mechanism of cardioprotective effect of orotic acid. <i>Cardiovascular Drugs and Therapy</i> , 1998 , 12 Suppl 2, 159-70	3.9	17
34	Regulation of microvascular flow and metabolism: An overview. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2017 , 44, 143-149	3	16
33	Metabolic and vascular actions of endothelin-1 are inhibited by insulin-mediated vasodilation in perfused rat hindlimb muscle. <i>British Journal of Pharmacology</i> , 2005 , 145, 992-1000	8.6	16
32	Insulin and contraction increase nutritive blood flow in rat muscle in vivo determined by microdialysis of L-[14C]glucose. <i>Journal of Physiology</i> , 2007 , 585, 217-29	3.9	15
31	Graded occlusion of perfused rat muscle vasculature decreases insulin action. <i>Clinical Science</i> , 2007 , 112, 457-66	6.5	15
30	Papyriferic acid, an antifeedant triterpene from birch trees, inhibits succinate dehydrogenase from liver mitochondria. <i>Journal of Chemical Ecology</i> , 2009 , 35, 1252-61	2.7	14
29	Comparison of UW solution and St. ThomasZsolution in the rat: importance of potassium concentration. <i>Annals of Thoracic Surgery</i> , 1996 , 61, 576-84	2.7	14
28	Adiposity gain during childhood, ACE I/D polymorphisms and metabolic outcomes. <i>Obesity</i> , 2008 , 16, 2141-7	8	12
27	Microvascular contributions to insulin resistance. <i>Diabetes</i> , 2013 , 62, 343-5	0.9	11
26	Contrast-enhanced ultrasound measurement of microvascular perfusion relevant to nutrient and hormone delivery in skeletal muscle: a model study in vitro. <i>Microvascular Research</i> , 2008 , 75, 323-9	3.7	11
25	Microvascular flow routes in muscle controlled by vasoconstrictors. <i>Microvascular Research</i> , 2005 , 70, 7-16	3.7	9
24	Aspartate improves recovery of the recently infarcted rat heart after cardioplegic arrest. <i>European Journal of Cardio-thoracic Surgery</i> , 1998 , 14, 185-90	3	9
23	Impairments in Adipose Tissue Microcirculation in Type 2 Diabetes Mellitus Assessed by Real-Time Contrast-Enhanced Ultrasound. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11, e007074	3.9	8
22	Acute vascular and metabolic actions of the green tea polyphenol epigallocatechin 3-gallate in rat skeletal muscle. <i>Journal of Nutritional Biochemistry</i> , 2017 , 40, 23-31	6.3	8
21	Characterization of perfused periaortic brown adipose tissue from the rat. <i>Canadian Journal of Physiology and Pharmacology</i> , 1994 , 72, 344-52	2.4	8
20	Factors influencing the hemodynamic and metabolic effects of insulin in muscle. <i>Current Diabetes Reviews</i> , 2006 , 2, 61-70	2.7	7
19	T-1032, a cyclic GMP phosphodiesterase-5 inhibitor, acutely blocks physiologic insulin-mediated muscle haemodynamic effects and glucose uptake in vivo. <i>British Journal of Pharmacology</i> , 2003 , 140, 1283-91	8.6	7

18	Muscle metabolism and control of capillary blood flow: insulin and exercise. <i>Essays in Biochemistry</i> , 2006 , 42, 133-44	7.6	7
17	Determination of Skeletal Muscle Microvascular Flowmotion with Contrast-Enhanced Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2013-2023	3.5	6
16	Uridine preserves ATP during hypoxic perfusion of the rat heart. <i>Heart, Lung and Circulation</i> , 1997 , 6, 190-196		6
15	Metformin improves vascular and metabolic insulin action in insulin-resistant muscle. <i>Journal of Endocrinology</i> , 2019 , 243, 85-96	4.7	6
14	Postprandial microvascular blood flow in skeletal muscle: Similarities and disparities to the hyperinsulinaemic-euglycaemic clamp. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020 , 47, 725-737	3	5
13	An Abductive Inference Approach to Assess the Performance-Enhancing Effects of Drugs Included on the World Anti-Doping Agency Prohibited List. <i>Sports Medicine</i> , 2021 , 51, 1353-1376	10.6	5
12	Enhancement of insulin-mediated rat muscle glucose uptake and microvascular perfusion by 5-aminoimidazole-4-carboxamide-1- β -ribofuranoside. <i>Cardiovascular Diabetology</i> , 2015 , 14, 91	8.7	4
11	Metabolic-vascular coupling in skeletal muscle: A potential role for capillary pericytes?. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020 , 47, 520-528	3	4
10	Acute, local infusion of angiotensin II impairs microvascular and metabolic insulin sensitivity in skeletal muscle. <i>Cardiovascular Research</i> , 2019 , 115, 590-601	9.9	4
9	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	6	3
8	[32 P]phosphate autoradiography as an indicator of regional myocardial oxygen consumption?. <i>Journal of Molecular and Cellular Cardiology</i> , 1993 , 25, 289-302	5.8	3
7	Pregnancy protects against the pro-inflammatory respiratory responses induced by particulate matter exposure. <i>Chemosphere</i> , 2019 , 225, 796-802	8.4	2
6	Potential for endothelin-1-mediated impairment of contractile activity in hypertension. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007 , 34, 217-22	3	2
5	A close association between vasoconstrictor-mediated uracil and lactate release by the perfused rat hindlimb. <i>General Pharmacology</i> , 1992 , 23, 65-9		2
4	Vasoconstrictor-mediated release of purines and pyrimidines from perfused rat hindlimb, perfused mesenteric arcade and incubated de-endothelialized aorta. <i>General Pharmacology</i> , 1994 , 25, 1679-90		1
3	Are the metabolic benefits of resistance training in type 2 diabetes linked to improvements in adipose tissue microvascular blood flow?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 315, E1242-E1250	6	1
2	In utero exposure to diesel exhaust particles, but not silica, alters post-natal immune development and function. <i>Chemosphere</i> , 2021 , 268, 129314	8.4	0
1	Impaired postprandial skeletal muscle vascular responses to a mixed meal challenge in normoglycaemic people with a parent with type 2 diabetes. <i>Diabetologia</i> , 2022 , 65, 216-225	10.3	0

