Johnathan D Tune

List of Publications by Year
in descending order

80 papers	3,124 citations	159358 30 h-index	168136 53 g-index
81 all docs	81 docs citations	81 times ranked	3259 citing authors

#	Article	IF	Citations
1	Flipped classroom model improves graduate student performance in cardiovascular, respiratory, and renal physiology. American Journal of Physiology - Advances in Physiology Education, 2013, 37, 316-320.	0.8	367
2	Cardiovascular consequences of metabolic syndrome. Translational Research, 2017, 183, 57-70.	2.2	307
3	Matching coronary blood flow to myocardial oxygen consumption. Journal of Applied Physiology, 2004, 97, 404-415.	1.2	276
4	Regulation of Coronary Blood Flow. , 2017, 7, 321-382.		198
5	Hydrogen Peroxide. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 2614-2621.	1.1	164
6	Control of Coronary Blood Flow during Exercise. Experimental Biology and Medicine, 2002, 227, 238-250.	1.1	99
7	H2O2-induced redox-sensitive coronary vasodilation is mediated by 4-aminopyridine-sensitive K+ channels. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2473-H2482.	1.5	89
8	Role of potassium channels in coronary vasodilation. Experimental Biology and Medicine, 2010, 235, 10-22.	1.1	81
9	Impaired function of coronary BK_{Ca}channels in metabolic syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H1629-H1637.	1.5	77
10	Adenosine is not responsible for local metabolic control of coronary blood flow in dogs during exercise. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H74-H84.	1.5	74
11	Feedforward sympathetic coronary vasodilation in exercising dogs. Journal of Applied Physiology, 2000, 89, 1892-1902.	1.2	73
12	Resistin impairs endothelium-dependent dilation to bradykinin, but not acetylcholine, in the coronary circulation. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2997-H3002.	1.5	73
13	Role of Nitric Oxide and Adenosine in Control of Coronary Blood Flow in Exercising Dogs. Circulation, 2000, 101, 2942-2948.	1.6	65
14	Dynamic micro- and macrovascular remodeling in coronary circulation of obese Ossabaw pigs with metabolic syndrome. Journal of Applied Physiology, 2012, 113, 1128-1140.	1.2	64
15	KATP + channels, nitric oxide, and adenosine are not required for local metabolic coronary vasodilation. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H868-H875.	1.5	63
16	Coronary arteriolar vasoconstriction to angiotensin II is augmented in prediabetic metabolic syndrome via activation of AT1 receptors. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2154-H2162.	1.5	59
17	Leptin resistance extends to the coronary vasculature in prediabetic dogs and provides a protective adaptation against endothelial dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1038-H1046.	1.5	57
18	Inhibition of sodiumâ€“glucose cotransporter-2 preserves cardiac function during regional myocardial ischemia independent of alterations in myocardial substrate utilization. Basic Research in Cardiology, 2019, 114, 25.	2.5	57

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19	Altered Mechanism of Adenosine-Induced Coronary Arteriolar Dilation in Early-Stage Metabolic Syndrome. Experimental Biology and Medicine, 2009, 234, 683-692.	1.1	52
20	Contribution of voltage-dependent K+ channels to metabolic control of coronary blood flow. Journal of Molecular and Cellular Cardiology, 2012, 52, 912-919.	0.9	48
21	Coronary blood flow regulation in the prediabetic metabolic syndrome. Basic Research in Cardiology, 2003, 98, 416-423.	2.5	45
22	Experimental animal models of coronary microvascular dysfunction. Cardiovascular Research, 2020, 116, 756-770.	1.8	43
23	Endogenous Adiposeâ€Derived Factors Diminish Coronary Endothelial Function via Inhibition of Nitric Oxide Synthase. Microcirculation, 2008, 15, 417-426.	1.0	41
24	Contribution of BKCa channels to local metabolic coronary vasodilation: effects of metabolic syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H966-H973.	1.5	39
25	Perivascular Adipose Tissue and Coronary Vascular Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1643-1649.	1.1	39
26	Control of Coronary Blood Flow During Hypoxemia. Advances in Experimental Medicine and Biology, 2007, 618, 25-39.	0.8	36
27	Role of K_{ATP} ⁺ channels and adenosine in the control of coronary blood flow during exercise. Journal of Applied Physiology, 2000, 89, 529-536.	1.2	35
28	Contribution of voltage-dependent K+ and Ca2+ channels to coronary pressure-flow autoregulation. Basic Research in Cardiology, 2012, 107, 264.	2.5	35
29	Lean and Obese Coronary Perivascular Adipose Tissue Impairs Vasodilation via Differential Inhibition of Vascular Smooth Muscle K ⁺ Channels. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1393-1400.	1.1	35
30	Local metabolic hypothesis is not sufficient to explain coronary autoregulatory behavior. Basic Research in Cardiology, 2018, 113, 33.	2.5	34
31	Sensitization of Coronary Î± -Adrenoceptor Vasoconstriction in the Prediabetic Metabolic Syndrome. Microcirculation, 2006, 13, 587-595.	1.0	31
32	Insulin improves contractile function during moderate ischemia in canine left ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H1574-H1581.	1.5	29
33	Coronary Vasomotor Reactivity to Endothelin-1 in the Prediabetic Metabolic Syndrome. Microcirculation, 2006, 13, 209-218.	1.0	24
34	Glucagon-Like Peptide 1 Receptor Activation Augments Cardiac Output and Improves Cardiac Efficiency in Obese Swine After Myocardial Infarction. Diabetes, 2017, 66, 2230-2240.	0.3	24
35	Effects of leptin on cardiovascular physiology. Journal of the American Society of Hypertension, 2007, 1, 231-241.	2.3	23
36	Leptin augments coronary vasoconstriction and smooth muscle proliferation via a Rho-kinase-dependent pathway. Basic Research in Cardiology, 2016, 111, 25.	2.5	23

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37	Obesity alters molecular and functional cardiac responses to ischemia/reperfusion and glucagon-like peptide-1 receptor agonism. Basic Research in Cardiology, 2016, 111, 43.	2.5	21
38	Role of K ATP + channels in local metabolic coronary vasodilation. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H2115-H2123.	1.5	20
39	Coronary blood flow control is impaired at rest and during exercise in conscious diabetic dogs. Basic Research in Cardiology, 2002, 97, 248-257.	2.5	20
40	Critical contribution of KV1 channels to the regulation of coronary blood flow. Basic Research in Cardiology, 2016, 111, 56.	2.5	20
41	Î±-Adrenoceptor-mediated coronary vasoconstriction is augmented during exercise in experimental diabetes mellitus. Journal of Applied Physiology, 2004, 97, 431-438.	1.2	18
42	ATP-Dependent K+ Channels Contribute to Local Metabolic Coronary Vasodilation in Experimental Diabetes. Diabetes, 2002, 51, 1201-1207.	0.3	17
43	K_V7 channels contribute to paracrine, but not metabolic or ischemic, regulation of coronary vascular reactivity in swine. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H693-H704.	1.5	17
44	Mechanisms underlying capsaicin effects in canine coronary artery: implications for coronary spasm. Cardiovascular Research, 2014, 103, 607-618.	1.8	14
45	Disentangling the Gordian knot of local metabolic control of coronary blood flow. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H11-H24.	1.5	14
46	Biphasic alterations in coronary smooth muscle Ca2+ regulation in a repeat cross-sectional study of coronary artery disease severity in metabolic syndrome. Atherosclerosis, 2016, 249, 1-9.	0.4	13
47	Regulation of myocardial oxygen delivery in response to graded reductions in hematocrit: role of K+ channels. Basic Research in Cardiology, 2017, 112, 65.	2.5	13
48	Comparison of isoflurane and Î±-chloralose in an anesthetized swine model of acute pulmonary embolism producing right ventricular dysfunction. Comparative Medicine, 2015, 65, 54-61.	0.4	13
49	Endogenous nitric oxide modulates myocardial oxygen consumption in canine right ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H831-H837.	1.5	9
50	Effect of Renal Shock Wave Lithotripsy on the Development of Metabolic Syndrome in a Juvenile Swine Model: A Pilot Study. Journal of Urology, 2015, 193, 1409-1416.	0.2	8
51	Combination GLP-1 and Insulin Treatment Fails to Alter Myocardial Fuel Selection vs. Insulin Alone in Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 3456-3465.	1.8	5
52	Mineralocorticoid receptor blockade normalizes coronary resistance in obese swine independent of functional alterations in Kv channels. Basic Research in Cardiology, 2021, 116, 35.	2.5	5
53	Bioengineering Systems for Modulating Notch Signaling in Cardiovascular Development, Disease, and Regeneration. Journal of Cardiovascular Development and Disease, 2021, 8, 125.	0.8	5
54	Repeat cross-sectional data on the progression of the metabolic syndrome in Ossabaw miniature swine. Data in Brief, 2016, 7, 1393-1395.	0.5	3

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55	Distinct hemodynamic responses to (pyr)apelin-13 in large animal models. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H747-H755.	1.5	3
56	Multiscale model of the physiological control of myocardial perfusion to delineate putative metabolic feedback mechanisms. Journal of Physiology, 2022, 600, 1913-1932.	1.3	3
57	Small-Group Activity to Reinforce the Impact of Valvular Defects and Heart Failure on Cardiac Pressure-Volume Relationships. MedEdPORTAL: the Journal of Teaching and Learning Resources, 2018, 14, 10675.	0.5	2
58	ROCK as a molecular bond connecting coronary microvascular and cardiac remodelling. Cardiovascular Research, 2017, 113, 1273-1275.	1.8	1
59	Perivascular adipose tissue impairs coronary endothelial function via protein kinase Câ€beta dependent phosphorylation of nitric oxide synthase. FASEB Journal, 2008, 22, 743.9.	0.2	1
60	Adaptations in the balance between coronary blood flow and myocardial metabolism in endurance athletes. Journal of Physiology, 2008, 586, 5043-5043.	1.3	0
61	Dynamic Regulation of the Subunit Composition of BK Channels in Smooth Muscle. Circulation Research, 2017, 121, 594-595.	2.0	0
62	Smooth Muscle Contraction Is Regulated by Chloride Channels: Functional Evidence for TMEM16A in Porcine Coronary Arteries. FASEB Journal, 2021, 35, .	0.2	0
63	PERIVASCULAR ADIPOSE TISSUE ALTERS CORONARY ARTERIAL SMOOTH MUSCLE AND ENDOTHELIAL FUNCTION. FASEB Journal, 2007, 21, A1228.	0.2	0
64	Impaired contribution of voltageâ€dependent K + channels to ischemic coronary vasodilation in Ossabaw swine with metabolic syndrome. FASEB Journal, 2008, 22, 1152.3.	0.2	0
65	Role of large conductance Ca 2+ â€activated K + (BK Ca) channels in local metabolic coronary vasodilation in Ossabaw swine with metabolic syndrome. FASEB Journal, 2008, 22, 1152.4.	0.2	0
66	Functional expression of P2Y 1 purinergic receptors in the coronary circulation. FASEB Journal, 2010, 24, 1034.11.	0.2	0
67	Epicardial perivascular adipose tissue exacerbates coronary endothelial dysfunction in metabolic syndrome via leptinâ€induced activation of PKCâ€Î². FASEB Journal, 2010, 24, 978.5.	0.2	0
68	Contribution of Adenosine A 2A and A 2B Receptor Subtypes to Coronary Reactive Hyperemia: Role of K V and K ATP Channels. FASEB Journal, 2010, 24, 1034.8.	0.2	0
69	Contribution of IKCa Channels to the Control of Coronary Blood Flow. FASEB Journal, 2011, 25, 1025.6.	0.2	0
70	The effects of Type 1 diabetes on colon smooth muscle. FASEB Journal, 2011, 25, 1123.1.	0.2	0
71	Augmented coronary vasoconstriction to epicardial perivascular adipose tissue in metabolic syndrome. FASEB Journal, 2012, 26, 866.11.	0.2	0
72	Contribution of Cav1.2 Channels to Coronary Microvascular Dysfunction in Metabolic Syndrome. FASEB Journal, 2012, 26, 860.16.	0.2	0

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73	Contribution of Voltageâ€Dependent Potassium & Calcium Channels to Coronary Pressureâ€Flow Autoregulation. FASEB Journal, 2012, 26, 1055.12.	0.2	0
74	Dysfunction of coronary smooth muscle Ca 2+ regulation in the progression of metabolic syndrome and coronary artery disease in Ossabaw miniature swine. FASEB Journal, 2012, 26, .	0.2	0
75	Cardiac responses to intravenous glucagonâ€like peptide 1 are impaired in metabolic syndrome. FASEB Journal, 2012, 26, .	0.2	0
76	Role of Voltageâ€dependent Kv7 Channels in the Regulation of Coronary Blood Flow. FASEB Journal, 2013, 27, 1185.4.	0.2	0
77	Role of Hydrogen Sulfide in the Regulation of Coronary Blood Flow. FASEB Journal, 2013, 27, 1185.3.	0.2	0
78	Coronary Vascular Effects of Leptin and Calpastatin in Lean vs. Obese Hearts. FASEB Journal, 2015, 29, 644.5.	0.2	0
79	Inhibition of Sodium Glucose Cotransporterâ€2 Preserves Cardiac Function during Regional Myocardial Ischemia via a Frankâ€Starling Mechanism. FASEB Journal, 2018, 32, .	0.2	0
80	Hypoxemia Augments the Local Metabolic Error Signal and Improves Coronary Pressureâ€Flow Autoregulation. FASEB Journal, 2022, 36, .	0.2	0