Michael Sturek

List of Publications by Citations

157 papers	4,539 citations	40 h-index	62 g-index
167 ext. papers	5,132 ext. citations	4.1 avg, IF	5.42 L-index

#	Paper	IF	Citations
157	Flipped classroom model improves graduate student performance in cardiovascular, respiratory, and renal physiology. *American Journal of Physiology - Advances in Physiology Education*, **2013**, 37, 316-20	1.9	288
156	Nutritional model of steatohepatitis and metabolic syndrome in the Ossabaw miniature swine. *Hepatology*, **2009**, 50, 56-67	11.2	156
155	Epicardial perivascular adipose-derived leptin exacerbates coronary endothelial dysfunction in metabolic syndrome via a protein kinase C-beta pathway. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 1711-7	9.4	140
154	Components of metabolic syndrome and coronary artery disease in female Ossabaw swine fed excess atherogenic diet. *Comparative Medicine*, **2006**, 56, 35-45	1.6	139
153	Smooth muscle cell plasticity: fact or fiction?. *Circulation Research*, **2013**, 112, 17-22	15.7	119
152	Perivascular adipose tissue potentiates contraction of coronary vascular smooth muscle: influence of obesity. *Circulation*, **2013**, 128, 9-18	16.7	105
151	Label-free bond-selective imaging by listening to vibrationally excited molecules. *Physical Review Letters*, **2011**, 106, 238106	7.4	105
150	Metabolic syndrome and coronary artery disease in Ossabaw compared with Yucatan swine. *Comparative Medicine*, **2010**, 60, 300-15	1.6	105
149	Functional P2Y2 nucleotide receptors mediate uridine 5'-triphosphate-induced intimal hyperplasia in collared rabbit carotid arteries. *Circulation*, **2002**, 106, 2720-6	16.7	100
148	Impaired capsaicin-induced relaxation of coronary arteries in a porcine model of the metabolic syndrome. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 294, H2489-96	5.2	98
147	Measurement of neuronal Ca2+ transients using simultaneous microfluorimetry and electrophysiology. *Pflugers Archiv European Journal of Physiology*, **1988**, 412, 216-23	4.6	96
146	High-speed intravascular photoacoustic imaging of lipid-laden atherosclerotic plaque enabled by a 2-kHz barium nitrite raman laser. *Scientific Reports*, **2014**, 4, 6889	4.9	90
145	Characterisation of gut microbiota in Ossabaw and Göttingen minipigs as models of obesity and metabolic syndrome. *PLoS ONE*, **2013**, 8, e56612	3.7	86
144	Imaging and quantitative analysis of atherosclerotic lesions by CARS-based multimodal nonlinear optical microscopy. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 1342-8	9.4	83
143	Development and evaluation of transferrin-stabilized paclitaxel nanocrystal formulation. *Journal of Controlled Release*, **2014**, 176, 76-85	11.7	76
142	Effects of stent sizing on endothelial and vessel wall stress: potential mechanisms for in-stent restenosis. *Journal of Applied Physiology*, **2009**, 106, 1686-91	3.7	75
141	Exercise training decreases store-operated Ca2+entry associated with metabolic syndrome and coronary atherosclerosis. *Cardiovascular Research*, **2010**, 85, 631-40	9.9	72

140	Marvels, mysteries, and misconceptions of vascular compensation to peripheral artery occlusion. *Microcirculation*, **2010**, 17, 3-20	2.9	71
139	Label-free quantitative imaging of cholesterol in intact tissues by hyperspectral stimulated Raman scattering microscopy. *Angewandte Chemie - International Edition*, **2013**, 52, 13042-6	16.4	70
138	F-NaF and F-FDG as molecular probes in the evaluation of atherosclerosis. *European Journal of Nuclear Medicine and Molecular Imaging*, **2018**, 45, 2190-2200	8.8	67
137	Impaired function of coronary BK(Ca) channels in metabolic syndrome. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 297, H1629-37	5.2	67
136	High-sensitivity intravascular photoacoustic imaging of lipid-laden plaque with a collinear catheter design. *Scientific Reports*, **2016**, 6, 25236	4.9	64
135	Contribution of adenosine A(2A) and A(2B) receptors to ischemic coronary dilation: role of K(V) and K(ATP) channels. *Microcirculation*, **2010**, 17, 600-7	2.9	61
134	Mechanisms of coronary dysfunction in obesity and insulin resistance. *Microcirculation*, **2007**, 14, 317-38	2.9	58
133	Multiple effects of ryanodine on intracellular free Ca2+ in smooth muscle cells from bovine and porcine coronary artery: modulation of sarcoplasmic reticulum function. *British Journal of Pharmacology*, **1992**, 105, 903-11	8.6	57
132	Gender, exercise training, and eNOS expression in porcine skeletal muscle arteries. *Journal of Applied Physiology*, **2003**, 95, 250-64	3.7	56
131	Benefits of exercise training on coronary blood flow in coronary artery disease patients. *Progress in Cardiovascular Diseases*, **2015**, 57, 443-53	8.5	55
130	Epicardial adipose excision slows the progression of porcine coronary atherosclerosis. *Journal of Cardiothoracic Surgery*, **2014**, 9, 2	1.6	52
129	Dynamic micro- and macrovascular remodeling in coronary circulation of obese Ossabaw pigs with metabolic syndrome. *Journal of Applied Physiology*, **2012**, 113, 1128-40	3.7	50
128	Cloning, up-regulation, and mitogenic role of porcine P2Y2 receptor in coronary artery smooth muscle cells. *Molecular Pharmacology*, **2004**, 66, 1265-74	4.3	49
127	Altered mechanism of adenosine-induced coronary arteriolar dilation in early-stage metabolic syndrome. *Experimental Biology and Medicine*, **2009**, 234, 683-92	3.7	46
126	Real-time intravascular photoacoustic-ultrasound imaging of lipid-laden plaque in human coronary artery at 16 frames per second. *Scientific Reports*, **2017**, 7, 1417	4.9	45
125	Ca2+ Regulation and Endothelial Vascular Function. *Endothelium: Journal of Endothelial Cell Research*, **1994**, 1, 223-236		43
124	Microparticles produced by the hydrogel template method for sustained drug delivery. *International Journal of Pharmaceutics*, **2014**, 461, 258-69	6.5	42
123	Bond-selective photoacoustic imaging by converting molecular vibration into acoustic waves. *Photoacoustics*, **2016**, 4, 11-21	9	42

122	Fast assessment of lipid content in arteries in vivo by intravascular photoacoustic tomography. *Scientific Reports*, **2018**, 8, 2400	4.9	41
121	C-reactive protein correlates with macrophage accumulation in coronary arteries of hypercholesterolemic pigs. *Journal of Applied Physiology*, **2003**, 95, 1301-4	3.7	41
120	Contribution of voltage-dependent K+ channels to metabolic control of coronary blood flow. *Journal of Molecular and Cellular Cardiology*, **2012**, 52, 912-9	5.8	40
119	Ca2+ regulatory mechanisms of exercise protection against coronary artery disease in metabolic syndrome and diabetes. *Journal of Applied Physiology*, **2011**, 111, 573-86	3.7	40
118	Cell-signaling evidence for adenosine stimulation of coronary smooth muscle proliferation via the A1 adenosine receptor. *Circulation Research*, **2005**, 97, 574-82	15.7	39
117	Serum and growth factor requirements for proliferation of human adrenocortical cells in culture: comparison with bovine adrenocortical cells. *In Vitro*, **1983**, 19, 863-9		37
116	Canonical transient receptor potential channels expression is elevated in a porcine model of metabolic syndrome. *Molecular Endocrinology*, **2009**, 23, 689-99		36
115	Exercise training prevents Ca2+ dysregulation in coronary smooth muscle from diabetic dyslipidemic yucatan swine. *Journal of Applied Physiology*, **2006**, 101, 752-62	3.7	35
114	Retinal capillary basement membrane thickening in a porcine model of diabetes mellitus. *Comparative Medicine*, **2002**, 52, 523-9	1.6	35
113	Hyperglycemia-induced insulin resistance in diabetic dyslipidemic Yucatan swine. *Comparative Medicine*, **2003**, 53, 53-64	1.6	35
112	High-speed intravascular photoacoustic imaging at 1.7 □m with a KTP-based OPO. *Biomedical Optics Express*, **2015**, 6, 4557-66	3.5	34
111	Contribution of BK(Ca) channels to local metabolic coronary vasodilation: Effects of metabolic syndrome. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 298, H966-73	5.2	34
110	Increased atherosclerosis in diabetic dyslipidemic swine: protection by atorvastatin involves decreased VLDL triglycerides but minimal effects on the lipoprotein profile. *Journal of Lipid Research*, **2002**, 43, 1618-29	6.3	34
109	Effect of atorvastatin on intracellular calcium uptake in coronary smooth muscle cells from diabetic pigs fed an atherogenic diet. *Atherosclerosis*, **2001**, 159, 117-24	3.1	34
108	Novel mitogenic effect of adenosine on coronary artery smooth muscle cells: role for the A1 adenosine receptor. *Circulation Research*, **2005**, 96, 982-90	15.7	33
107	Adenosine A1 receptors in neointimal hyperplasia and in-stent stenosis in Ossabaw miniature swine. *Coronary Artery Disease*, **2008**, 19, 27-31	1.4	32
106	Morbid obesity and metabolic syndrome in Ossabaw miniature swine are associated with increased platelet reactivity. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, **2011**, 4, 99-105	3.4	30
105	Enhanced L-type Ca2+ channel current density in coronary smooth muscle of exercise-trained pigs is compensated to limit myoplasmic free Ca2+ accumulation. *Journal of Physiology*, **2000**, 528, 435-45	3.9	30

104	(18)F-NaF PET Imaging of Early Coronary Artery Calcification. *JACC: Cardiovascular Imaging*, **2016**, 9, 627-8	8.4	28
103	Guidelines for animal exercise and training protocols for cardiovascular studies. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 318, H1100-H1138	5.2	27
102	The inhibition of platelet adhesion and activation on collagen during balloon angioplasty by collagen-binding peptidoglycans. *Biomaterials*, **2011**, 32, 2516-23	15.6	27
101	Calcium channel Orai1 promotes lymphocyte IL-17 expression and progressive kidney injury. *Journal of Clinical Investigation*, **2019**, 129, 4951-4961	15.9	27
100	Effects of diet-induced obesity on metabolic parameters and reproductive function in female Ossabaw minipigs. *Comparative Medicine*, **2014**, 64, 44-9	1.6	27
99	Atherosclerosis imaging with F-sodium fluoride PET: state-of-the-art review. *European Journal of Nuclear Medicine and Molecular Imaging*, **2020**, 47, 1538-1551	8.8	26
98	Epicardial Adipose Tissue Removal Potentiates Outward Remodeling and Arrests Coronary Atherogenesis. *Annals of Thoracic Surgery*, **2017**, 103, 1622-1630	2.7	25
97	Ossabaw Island Miniature Swine **2007**, 397-402		25
96	Porcine model of diabetic dyslipidemia: insulin and feed algorithms for mimicking diabetes mellitus in humans. *Comparative Medicine*, **2003**, 53, 42-52	1.6	25
95	Long-term spironolactone treatment reduces coronary TRPC expression, vasoconstriction, and atherosclerosis in metabolic syndrome pigs. *Basic Research in Cardiology*, **2017**, 112, 54	11.8	24
94	Exercise improves impaired ventricular function and alterations of cardiac myofibrillar proteins in diabetic dyslipidemic pigs. *Journal of Applied Physiology*, **2005**, 98, 461-7	3.7	24
93	Calcium channel modulation by dihydropyridines in vascular smooth muscle. *Annals of the New York Academy of Sciences*, **1988**, 522, 25-31	6.5	24
92	Decorin mimic inhibits vascular smooth muscle proliferation and migration. *PLoS ONE*, **2013**, 8, e82456	3.7	23
91	Spectral analysis assisted photoacoustic imaging for lipid composition differentiation. *Photoacoustics*, **2017**, 7, 12-19	9	20
90	Bromoenol lactone inhibits voltage-gated Ca2+ and transient receptor potential canonical channels. *Journal of Pharmacology and Experimental Therapeutics*, **2011**, 339, 329-40	4.7	20
89	Increased calcium buffering in coronary smooth muscle cells from diabetic dyslipidemic pigs. *Atherosclerosis*, **2003**, 167, 15-23	3.1	20
88	Functional nucleotide receptor expression and sarcoplasmic reticulum morphology in dedifferentiated porcine coronary smooth muscle cells. *Journal of Vascular Research*, **2001**, 38, 432-43	1.9	20
87	Adenosine receptor regulation of coronary blood flow in Ossabaw miniature swine. *Journal of Pharmacology and Experimental Therapeutics*, **2010**, 335, 781-7	4.7	19

86	Effects of Obesity and Metabolic Syndrome on Steroidogenesis and Folliculogenesis in the Female Ossabaw Mini-Pig. *PLoS ONE*, **2015**, 10, e0128749	3.7	18
85	Sarcoplasmic reticulum Ca(2+) uptake is impaired in coronary smooth muscle distal to coronary occlusion. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 281, H223-31	5.2	18
84	Effect of High-Calcium Diet on Coronary Artery Disease in Ossabaw Miniature Swine With Metabolic Syndrome. *Journal of the American Heart Association*, **2015**, 4, e001620	6	17
83	Remodeling of coronary arteries in diabetic patients-an intravascular ultrasound study. *Echocardiography*, **2004**, 21, 139-44	1.5	17
82	Liver injury and fibrosis induced by dietary challenge in the Ossabaw miniature Swine. *PLoS ONE*, **2015**, 10, e0124173	3.7	17
81	Differences in nitric oxide production in porcine resistance arteries and epicardial conduit coronary arteries. *Journal of Cellular Physiology*, **1996**, 168, 539-48	7	16
80	Metabolic Syndrome Abolishes Glucagon-Like Peptide 1 Receptor Agonist Stimulation of SERCA in Coronary Smooth Muscle. *Diabetes*, **2015**, 64, 3321-7	0.9	15
79	Metabolic syndrome impairs notch signaling and promotes apoptosis in chronically ischemic myocardium. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 1048-55; discussion 1055	1.5	15
78	Orosomucoid expression profiles in liver, adipose tissues and serum of lean and obese domestic pigs, G□ttingen minipigs and Ossabaw minipigs. *Veterinary Immunology and Immunopathology*, **2013**, 151, 325-30	2	15
77	Short-term exercise training prevents micro- and macrovascular disease following coronary stenting. *Journal of Applied Physiology*, **2010**, 108, 1766-74	3.7	15
76	Noninvasive measures of body fat percentage in male Yucatan swine. *Comparative Medicine*, **2005**, 55, 445-51	1.6	15
75	Intracellular calcium increases in vascular smooth muscle cells with progression of chronic kidney disease in a rat model. *Nephrology Dialysis Transplantation*, **2017**, 32, 450-458	4.3	14
74	Effect of different obesogenic diets on pancreatic histology in Ossabaw miniature swine. *Pancreas*, **2011**, 40, 438-43	2.6	14
73	Drug-eluting stent for delivery of signal pathway-specific 1,3-dipropyl-8-cyclopentyl xanthine. *Molecular Pharmaceutics*, **2009**, 6, 1110-7	5.6	14
72	Gender and genetic differences in bladder smooth muscle PPAR mRNA in a porcine model of the metabolic syndrome. *Molecular and Cellular Biochemistry*, **2007**, 302, 43-9	4.2	14
71	Altered calcium sensitivity contributes to enhanced contractility of collateral-dependent coronary arteries. *Journal of Applied Physiology*, **2004**, 97, 310-6	3.7	14
70	Mechanisms underlying capsaicin effects in canine coronary artery: implications for coronary spasm. *Cardiovascular Research*, **2014**, 103, 607-18	9.9	12
69	Label-Free Quantitative Imaging of Cholesterol in Intact Tissues by Hyperspectral Stimulated Raman Scattering Microscopy. *Angewandte Chemie*, **2013**, 125, 13280-13284	3.6	12

68	Diabetic dyslipidemia and exercise alter the plasma low-density lipoproteome in Yucatan pigs. *Proteomics*, **2009**, 9, 2468-83	4.8	12
67	Mechanisms of altered contractile responses to vasopressin and endothelin in canine coronary collateral arteries. *Circulation*, **1997**, 95, 231-9	16.7	12
66	Biphasic alterations in coronary smooth muscle Ca(2+) regulation in a repeat cross-sectional study of coronary artery disease severity in metabolic syndrome. *Atherosclerosis*, **2016**, 249, 1-9	3.1	12
65	Alloxan-induced diabetes exacerbates coronary atherosclerosis and calcification in Ossabaw miniature swine with metabolic syndrome. *Journal of Translational Medicine*, **2018**, 16, 58	8.5	11
64	Evaluating the mechanisms of improved glucose homeostasis after bariatric surgery in Ossabaw miniature swine. *Journal of Diabetes Research*, **2014**, 2014, 526972	3.9	11
63	Swine Disease Models for Optimal Vascular Engineering. *Annual Review of Biomedical Engineering*, **2020**, 22, 25-49	12	10
62	Animal Models for COVID-19: More to the Picture Than ACE2, Rodents, Ferrets, and Non-human Primates. A Case for Porcine Respiratory Coronavirus and the Obese Ossabaw Pig. *Frontiers in Microbiology*, **2020**, 11, 573756	5.7	10
61	Comparative Quantification of Arterial Lipid by Intravascular Photoacoustic-Ultrasound Imaging and Near-Infrared Spectroscopy-Intravascular Ultrasound. *Journal of Cardiovascular Translational Research*, **2019**, 12, 211-220	3.3	10
60	Vascular-associated lymphoid tissue in swine (Sus scrofa). *Comparative Medicine*, **2008**, 58, 168-73	1.6	9
59	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, 1409-16	2.5	8
58	Effect of metabolic syndrome and aging on Ca dysfunction in coronary smooth muscle and coronary artery disease severity in Ossabaw miniature swine. *Experimental Gerontology*, **2018**, 108, 247-255	4.5	8
57	Shock wave lithotripsy targeting of the kidney and pancreas does not increase the severity of metabolic syndrome in a porcine model. *Journal of Urology*, **2014**, 192, 1257-65	2.5	7
56	Pharmacological characterization of a UTP-sensitive P2Y nucleotide receptor in organ cultured coronary arteries. *Vascular Pharmacology*, **2002**, 39, 83-8	5.9	7
55	Training-induced sarcoplasmic reticulum Ca2+ unloading occurs without Ca2+ influx. *Medicine and Science in Sports and Exercise*, **2005**, 37, 1119-25	1.2	7
54	Platelets from diabetic pigs exhibit hypersensitivity to thrombin. *Comparative Medicine*, **2008**, 58, 481-4	1.6	7
53	Effect of exercise on postprandial lipemia following a higher calorie meal in Yucatan miniature swine. *Metabolism: Clinical and Experimental*, **2004**, 53, 1021-6	12.7	6
52	The effect of calcium channel antagonists on peripheral neurones. *Annals of the New York Academy of Sciences*, **1988**, 522, 269-77	6.5	6
51	Alterations in the oxidative metabolic profile in vascular smooth muscle from hyperlipidemic and diabetic swine. *Molecular and Cellular Biochemistry*, **2001**, 217, 99-106	4.2	5

50	Atherosclerosis Imaging with F-Sodium Fluoride PET. *Diagnostics*, **2020**, 10,	3.8	5
49	Robust effect of metabolic syndrome on major metabolic pathways in the myocardium. *PLoS ONE*, **2019**, 14, e0225857	3.7	5
48	Effect of Age on Diabetogenicity of Alloxan in Ossabaw Miniature Swine. *Comparative Medicine*, **2019**, 69, 114-122	1.6	3
47	Enhancing pork flavor and fat quality with swine raised in sylvan systems: Potential niche-market application for the Ossabaw hog. *Renewable Agriculture and Food Systems*, **2006**, 21, 183-191	1.8	3
46	Endothelin-induced myoplasmic Ca2+ responses and tyrosine phosphorylation in coronary smooth muscle. *Journal of Cardiovascular Pharmacology*, **2002**, 40, 18-27	3.1	3
45	Repeat cross-sectional data on the progression of the metabolic syndrome in Ossabaw miniature swine. *Data in Brief*, **2016**, 7, 1393-5	1.2	3
44	Endotoxin impairs agonist-stimulated intracellular free calcium (Ca(i)) responses in freshly dispersed aortic endothelial cells. *Shock*, **2001**, 15, 386-91	3.4	2
43	Vascular Muscle Calcium Channel Modulation in Hypertension. *Journal of Cardiovascular Pharmacology*, **1989**, 14, S45-S48	3.1	2
42	AMP kinase gene mutation is consistent with a thrifty phenotype (metabolic syndrome) in a population of feral swine. *FASEB Journal*, **2006**, 20, A299	0.9	2
41	Increased cholesterol in metabolic syndrome Ossabaw swine precedes store-operated Ca2+ influx and the development of coronary artery disease. *FASEB Journal*, **2008**, 22, 1152.17	0.9	2
40	A Large Animal Survival Model to Evaluate Bariatric Surgery Mechanisms. *Surgical Science*, **2015**, 6, 337-345	0.1	2
39	Highly sensitive lipid detection and localization in atherosclerotic plaque with a dual-frequency intravascular photoacoustic/ultrasound catheter. *Translational Biophotonics*, **2020**, 2, e202000004	2.2	2
38	The genome of the naturally evolved obesity-prone Ossabaw miniature pig. *IScience*, **2021**, 24, 103081	6.1	2
37	Correction to Drug-Eluting Stent for Delivery of Signal Pathway-Specific 1,3-Dipropyl-8-cyclopentyl Xanthine *Molecular Pharmaceutics*, **2012**, 9, 3409-3409	5.6	1
36	Ossabaw Pig Demonstrates Detrusor Fibrosis and Detrusor Underactivity Associated with Oxidative Stress in Metabolic Syndrome. *Comparative Medicine*, **2020**, 70, 329-334	1.6	1
35	Placenta growth factor expression is regulated by stretch and correlates with microvascular dysfunction and plasma LDL. *FASEB Journal*, **2006**, 20, A716	0.9	1
34	Detrusor muscle contractility and compliance are impacted by diet in Ossabaw miniature pigs with metabolic syndrome (MetS). *FASEB Journal*, **2008**, 22, 1164.5	0.9	1
33	Intracellular Ca Dysregulation in Coronary Smooth Muscle Is Similar in Coronary Disease of Humans and Ossabaw Miniature Swine. *Journal of Cardiovascular Translational Research*, **2021**, 1	3.3	1

32	Research advisor's checklist. *Physiologist*, **2011**, 54, 95-9		1
31	Reduced expression of leukemia inhibitory factor correlates with coronary atherosclerosis in the metabolic syndrome.. *FASEB Journal*, **2006**, 20, A698	0.9	0
30	Rationale and methods for assessment of coronary flow prior to coronary intervention: where are we headed?. *Journal of Interventional Cardiology*, **2002**, 15, 335-41	1.8	
29	Ossabaw Pig Demonstrates Detrusor Fibrosis and Detrusor Underactivity Associated with Oxidative Stress in Metabolic Syndrome. *Comparative Medicine*, **2020**, 70, 329-334	1.6	
28	Cloning and Characterization of the Porcine P2Y6 Receptor: Evidence for Gi Protein-mediated Signaling in Coronary Smooth Muscle. *FASEB Journal*, **2006**, 20, A252	0.9	
27	Coronary artery placenta growth factor expression is reduced by diabetes and hyperlipidemia. *FASEB Journal*, **2006**, 20, A716	0.9	
26	Diabetic Dyslipidemia and Exercise alter the Plasma Low Density Lipoproteome. *FASEB Journal*, **2006**, 20, A529	0.9	
25	Expression Level of Canonical Transient Receptor Potential (TRPC) Channels is Increased in the Adrenal Medulla of Ossabaw Miniature Pigs Manifesting the Metabolic Syndrome. *FASEB Journal*, **2008**, 22, 1201.14	0.9	
24	Occlusive, diffuse coronary artery disease in Ossabaw miniature swine with metabolic syndrome. *FASEB Journal*, **2008**, 22, 1152.10	0.9	
23	Increased cholesterol is vital to the development of coronary artery disease and type 2 diabetes in Ossabaw swine. *FASEB Journal*, **2008**, 22, 1152.18	0.9	
22	Species differences in collaterals arising from femoral artery occlusion: a comparison from mice to men. *FASEB Journal*, **2008**, 22, 1147.4	0.9	
21	Impaired contribution of voltage-dependent K+ channels to ischemic coronary vasodilation in Ossabaw swine with metabolic syndrome. *FASEB Journal*, **2008**, 22, 1152.3	0.9	
20	Structural changes in skeletal muscles of Ossabaw miniature swine with metabolic syndrome. *FASEB Journal*, **2008**, 22, 882.6	0.9	
19	Role of large conductance Ca2+-activated K+ (BKCa) channels in local metabolic coronary vasodilation in Ossabaw swine with metabolic syndrome. *FASEB Journal*, **2008**, 22, 1152.4	0.9	
18	Hindlimb collateral growth after superficial femoral artery (SFA) ligation in the Ossabaw pig. *FASEB Journal*, **2008**, 22, 1147.5	0.9	
17	Metabolic syndrome abolishes A2A receptor and KATP channel involvement in coronary arteriolar dilation to adenosine in Ossabaw swine. *FASEB Journal*, **2008**, 22, 1226.26	0.9	
16	Effect of metabolic syndrome and aging on coronary artery disease severity and Ca2+ dysregulation in coronary smooth muscle in Ossabaw miniature swine. *FASEB Journal*, **2018**, 32, 770.16	0.9	
15	Similar dysfunctional Ca2+ regulation in coronary smooth muscle from explanted human hearts and Ossabaw miniature swine strongly supports the translational relevance of this large animal model. *FASEB Journal*, **2019**, 33, 689.5	0.9	

14	Adenosine A2a/b receptor-mediated vasodilation is antagonized by adenosine A1 receptor in coronary circulation of healthy Ossabaw swine. *FASEB Journal*, **2009**, 23, 1032.9	0.9
13	Role of Adenosine A1 Receptors and P2Y2 Receptors and ERK1/2 Activation in Coronary Atherosclerosis and In-stent Stenosis. *FASEB Journal*, **2009**, 23, 593.12	0.9
12	Store-operated Ca2+ influx predicts coronary artery disease and is induced by dyslipidemia in metabolic syndrome and type 2 diabetes. *FASEB Journal*, **2010**, 24, 978.4	0.9
11	Coronary artery microvascular narrowing downstream of stent implantation. *FASEB Journal*, **2010**, 24, 789.6	0.9
10	Inward coronary artery microvessel remodeling in Ossabaw swine with metabolic syndrome. *FASEB Journal*, **2010**, 24, 789.3	0.9
9	Epicardial perivascular adipose tissue exacerbates coronary endothelial dysfunction in metabolic syndrome via leptin-induced activation of PKC-□*FASEB Journal*, **2010**, 24, 978.5	0.9
8	Contribution of Adenosine A2A and A2B Receptor Subtypes to Coronary Reactive Hyperemia: Role of KV and KATP Channels. *FASEB Journal*, **2010**, 24, 1034.8	0.9
7	AMP kinase mutation exacerbates electrocardiographic ST segment elevation in Ossabaw miniature swine during myocardial ischemia. *FASEB Journal*, **2011**, 25, 1099.6	0.9
6	Differential Stiffness between Resistance Microvessels and Conduit Arteries in the Coronary Circulation of Ossabaw Swine with Metabolic Syndrome. *FASEB Journal*, **2012**, 26, 1055.8	0.9
5	Surgical excision of coronary epicardial adipose tissue provides evidence for its role in coronary artery disease. *FASEB Journal*, **2012**, 26, 866.19	0.9
4	Effect of dietary calcium supplementation on store-operated calcium entry in coronary smooth muscle cells from Ossabaw miniature swine with coronary artery disease. *FASEB Journal*, **2013**, 27, 1195.7	0.9
3	An in vitro model of coronary artery disease and the changes in intracellular calcium regulation during its progression.. *FASEB Journal*, **2013**, 27, lb652	0.9
2	Effects of GLP-1 receptor agonist on Ca2+ handling in coronary smooth muscle cells from metabolic syndrome Ossabaw swine with coronary artery disease. *FASEB Journal*, **2013**, 27, 1195.5	0.9
1	Augmented Ca2+-activated Ca2+ influx and voltage-gated Ca2+ entry in coronary vs. peripheral conduit arteries in domestic swine. (LB668). *FASEB Journal*, **2014**, 28, LB668	0.9