

# Karl Sward

## List of Publications by Citations

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108  
papers

6,258  
citations

29  
h-index

78  
g-index

111  
ext. papers

7,095  
ext. citations

4.8  
avg, IF

4.7  
L-index

#	Paper	IF	Citations
108	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
107	Cholesterol depletion impairs vascular reactivity to endothelin-1 by reducing store-operated Ca <sup>2+</sup> entry dependent on TRPC1. <i>Circulation Research</i> , <b>2003</b> , 93, 839-47	15.7	179
106	Inhibition of Rho-associated kinase blocks agonist-induced Ca <sup>2+</sup> sensitization of myosin phosphorylation and force in guinea-pig ileum. <i>Journal of Physiology</i> , <b>2000</b> , 522 Pt 1, 33-49	3.9	171
105	Cholesterol depletion disrupts caveolae and differentially impairs agonist-induced arterial contraction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2002</b> , 22, 1267-72	9.4	145
104	The role of RhoA and Rho-associated kinase in vascular smooth muscle contraction. <i>Current Hypertension Reports</i> , <b>2003</b> , 5, 66-72	4.7	132
103	Stretch-induced contractile differentiation of vascular smooth muscle: sensitivity to actin polymerization inhibitors. <i>American Journal of Physiology - Cell Physiology</i> , <b>2003</b> , 284, C1387-96	5.4	79
102	An assay to evaluate the long-term effects of inflammatory mediators on murine airway smooth muscle: evidence that TNF $\alpha$ up-regulates 5-HT(2A)-mediated contraction. <i>British Journal of Pharmacology</i> , <b>2002</b> , 137, 971-82	8.6	62
101	Caveolae-associated signalling in smooth muscle. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2004</b> , 82, 289-99	2.4	56
100	Cholesterol dependence of vascular ERK1/2 activation and growth in response to stretch: role of endothelin-1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2003</b> , 23, 1528-34	9.4	56
99	MicroRNAs are essential for stretch-induced vascular smooth muscle contractile differentiation via microRNA (miR)-145-dependent expression of L-type calcium channels. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 19199-206	5.4	54
98	Disproportionally low clearance of macromolecules from the plasma to the peritoneal cavity in a mouse model of peritoneal dialysis. <i>Nephrology Dialysis Transplantation</i> , <b>2007</b> , 22, 88-95	4.3	49
97	Extracellular-Matrix-Reinforced Bioinks for 3D Bioprinting Human Tissue. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005476	24	47
96	Arterial remodeling and plasma volume expansion in caveolin-1-deficient mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2007</b> , 293, R1222-31	3.2	46
95	Influence of mitochondrial inhibition on global and local [Ca <sup>2+</sup> ] <sub>i</sub> in rat tail artery. <i>Circulation Research</i> , <b>2002</b> , 90, 792-9	15.7	46
94	Targeting smooth muscle microRNAs for therapeutic benefit in vascular disease. <i>Pharmacological Research</i> , <b>2013</b> , 75, 28-36	10.2	45
93	Melatonin restores impaired contractility in aged guinea pig urinary bladder. <i>Journal of Pineal Research</i> , <b>2008</b> , 44, 416-25	10.4	45
92	Plasma membrane cyclic nucleotide phosphodiesterase 3B (PDE3B) is associated with caveolae in primary adipocytes. <i>Cellular Signalling</i> , <b>2006</b> , 18, 1713-21	4.9	41

91	Ablation of SM22alpha decreases contractility and actin contents of mouse vascular smooth muscle. <i>FEBS Letters</i> , <b>2004</b> , 562, 141-6	3.8	41
90	Elevated Glucose Levels Promote Contractile and Cytoskeletal Gene Expression in Vascular Smooth Muscle via Rho/Protein Kinase C and Actin Polymerization. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 3552-68	5.4	39
89	Bitter taste receptor agonists mediate relaxation of human and rodent vascular smooth muscle. <i>European Journal of Pharmacology</i> , <b>2014</b> , 740, 302-11	5.3	39
88	Differential dependence of stretch and shear stress signaling on caveolin-1 in the vascular wall. <i>American Journal of Physiology - Cell Physiology</i> , <b>2008</b> , 294, C271-9	5.4	39
87	Increased Rho activation and PKC-mediated smooth muscle contractility in the absence of caveolin-1. <i>American Journal of Physiology - Cell Physiology</i> , <b>2006</b> , 291, C1326-35	5.4	38
86	The ATP Receptors P2X7 and P2X4 Modulate High Glucose and Palmitate-Induced Inflammatory Responses in Endothelial Cells. <i>PLoS ONE</i> , <b>2015</b> , 10, e0125111	3.7	36
85	Diverse effects of oats on cholesterol metabolism in C57BL/6 mice correlate with expression of hepatic bile acid-producing enzymes. <i>European Journal of Nutrition</i> , <b>2013</b> , 52, 1755-69	5.2	32
84	Mir-29 repression in bladder outlet obstruction contributes to matrix remodeling and altered stiffness. <i>PLoS ONE</i> , <b>2013</b> , 8, e82308	3.7	32
83	Hypertension reduces soluble guanylyl cyclase expression in the mouse aorta via the Notch signaling pathway. <i>Scientific Reports</i> , <b>2017</b> , 7, 1334	4.9	31
82	CD14 Is a Co-Receptor for TLR4 in the S100A9-Induced Pro-Inflammatory Response in Monocytes. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156377	3.7	31
81	Lovastatin induces relaxation and inhibits L-type Ca(2+) current in the rat basilar artery. <i>Basic and Clinical Pharmacology and Toxicology</i> , <b>2003</b> , 93, 128-34		30
80	Stretch-sensitive down-regulation of the miR-144/451 cluster in vascular smooth muscle and its role in AMP-activated protein kinase signaling. <i>PLoS ONE</i> , <b>2013</b> , 8, e65135	3.7	30
79	Induction of angiotensin-converting enzyme after miR-143/145 deletion is critical for impaired smooth muscle contractility. <i>American Journal of Physiology - Cell Physiology</i> , <b>2014</b> , 307, C1093-101	5.4	29
78	Myocardin Family Members Drive Formation of Caveolae. <i>PLoS ONE</i> , <b>2015</b> , 10, e0133931	3.7	28
77	Regulation of smooth muscle dystrophin and synaptopodin 2 expression by actin polymerization and vascular injury. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2015</b> , 35, 1489-97	9.4	27
76	Deletion of Dicer in smooth muscle affects voiding pattern and reduces detrusor contractility and neuroeffector transmission. <i>PLoS ONE</i> , <b>2012</b> , 7, e35882	3.7	26
75	Elevated pulmonary arterial pressure and altered expression of Ddah1 and Arg1 in mice lacking cavin-1/PTRF. <i>Physiological Reports</i> , <b>2013</b> , 1, e00008	2.6	26
74	Biomechanical properties and innervation of the female caveolin-1-deficient detrusor. <i>British Journal of Pharmacology</i> , <b>2011</b> , 162, 1156-70	8.6	26

73	Arterial dysfunction but maintained systemic blood pressure in cavin-1-deficient mice. <i>PLoS ONE</i> , <b>2014</b> , 9, e92428	3.7	26
72	Effect of melatonin on age associated changes in Guinea pig bladder function. <i>Journal of Urology</i> , <b>2007</b> , 177, 1558-61	2.5	25
71	Emerging roles of the myocardin family of proteins in lipid and glucose metabolism. <i>Journal of Physiology</i> , <b>2016</b> , 594, 4741-52	3.9	25
70	Impaired contractility and detrusor hypertrophy in cavin-1-deficient mice. <i>European Journal of Pharmacology</i> , <b>2012</b> , 689, 179-85	5.3	22
69	Effects of oats on plasma cholesterol and lipoproteins in C57BL/6 mice are substrain specific. <i>British Journal of Nutrition</i> , <b>2010</b> , 103, 513-21	3.6	21
68	Loss of Vascular Myogenic Tone in miR-143/145 Knockout Mice Is Associated With Hypertension-Induced Vascular Lesions in Small Mesenteric Arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2018</b> , 38, 414-424	9.4	21
67	Gene Expression and MicroRNA Expression Analysis in Small Arteries of Spontaneously Hypertensive Rats. Evidence for ER Stress. <i>PLoS ONE</i> , <b>2015</b> , 10, e0137027	3.7	20
66	Long-term regulation of contractility and calcium current in smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>1997</b> , 273, C1714-20	5.4	20
65	ApoA-I Milano stimulates lipolysis in adipose cells independently of cAMP/PKA activation. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 2248-59	6.3	18
64	Detrusor induction of miR-132/212 following bladder outlet obstruction: association with MeCP2 repression and cell viability. <i>PLoS ONE</i> , <b>2015</b> , 10, e0116784	3.7	18
63	HIF-mediated metabolic switching in bladder outlet obstruction mitigates the relaxing effect of mitochondrial inhibition. <i>Laboratory Investigation</i> , <b>2014</b> , 94, 557-68	5.9	18
62	Inhibition of Polyamine Uptake Potentiates the Anti-Proliferative Effect of Polyamine Synthesis Inhibition and Preserves the Contractile Phenotype of Vascular Smooth Muscle Cells. <i>Journal of Cellular Physiology</i> , <b>2016</b> , 231, 1334-42	7	18
61	ATP depletion and cell death in the neonatal lamb ductus arteriosus. <i>Pediatric Research</i> , <b>2005</b> , 57, 801-5	3.2	17
60	Expression of microRNAs is essential for arterial myogenic tone and pressure-induced activation of the PI3-kinase/Akt pathway. <i>Cardiovascular Research</i> , <b>2014</b> , 101, 288-96	9.9	15
59	Regulation of vascular smooth muscle mechanotransduction by microRNAs and L-type calcium channels. <i>Communicative and Integrative Biology</i> , <b>2013</b> , 6, e22278	1.7	15
58	Pressurized carbon dioxide as a potential tool for decellularization of pulmonary arteries for transplant purposes. <i>Scientific Reports</i> , <b>2020</b> , 10, 4031	4.9	14
57	Human urinary bladder smooth muscle is dependent on membrane cholesterol for cholinergic activation. <i>European Journal of Pharmacology</i> , <b>2010</b> , 634, 142-8	5.3	13
56	Regulation of microRNA expression in vascular smooth muscle by MRTF-A and actin polymerization. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2017</b> , 1864, 1088-1098	4.9	12

55	A Small Molecule Pyrazolo[3,4-d]Pyrimidinone Inhibitor of Zipper-Interacting Protein Kinase Suppresses Calcium Sensitization of Vascular Smooth Muscle. <i>Molecular Pharmacology</i> , <b>2016</b> , 89, 105-117	4.3	12
54	Late onset vascular dysfunction in the R6/1 model of Huntington's disease. <i>European Journal of Pharmacology</i> , <b>2013</b> , 698, 345-53	5.3	12
53	Biochemical and functional correlates of an increased membrane density of caveolae in hypertrophic rat urinary bladder. <i>European Journal of Pharmacology</i> , <b>2010</b> , 649, 362-8	5.3	12
52	The involvement of protein kinase C in myosin phosphorylation and force development in rat tail arterial smooth muscle. <i>Biochemical Journal</i> , <b>2000</b> , 352, 573-582	3.8	12
51	Thrombospondin-4 knockout in hypertension protects small-artery endothelial function but induces aortic aneurysms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2016</b> , 310, H1486-93	5.2	12
50	Impaired nerve-mediated relaxation of penile tissue from caveolin-1 deficient mice. <i>European Journal of Pharmacology</i> , <b>2009</b> , 602, 399-405	5.3	11
49	MicroRNAs in Bladder Outlet Obstruction: Relationship to Growth and Matrix Remodelling. <i>Basic and Clinical Pharmacology and Toxicology</i> , <b>2016</b> , 119 Suppl 3, 5-17	3.1	11
48	Dietary rose hip exerts antiatherosclerotic effects and increases nitric oxide-mediated dilation in ApoE-null mice. <i>Journal of Nutritional Biochemistry</i> , <b>2017</b> , 44, 52-59	6.3	10
47	Identification of the intermediate filament protein synemin/SYNM as a target of myocardin family coactivators. <i>American Journal of Physiology - Cell Physiology</i> , <b>2019</b> , 317, C1128-C1142	5.4	10
46	Vascular smooth muscle cell proliferation depends on caveolin-1-regulated polyamine uptake. <i>Bioscience Reports</i> , <b>2014</b> , 34, e00153	4.1	10
45	Rosiglitazone drives cavin-2/SDPR expression in adipocytes in a CEBP $\beta$ -dependent manner. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173412	3.7	9
44	Nexilin/NEXN controls actin polymerization in smooth muscle and is regulated by myocardin family coactivators and YAP. <i>Scientific Reports</i> , <b>2018</b> , 8, 13025	4.9	9
43	Localization and Regulation of Polymeric Ig Receptor in Healthy and Diseased Human Kidney. <i>American Journal of Pathology</i> , <b>2019</b> , 189, 1933-1944	5.8	8
42	Assessing the contribution of thrombospondin-4 induction and ATF6 $\beta$ activation to endoplasmic reticulum expansion and phenotypic modulation in bladder outlet obstruction. <i>Scientific Reports</i> , <b>2016</b> , 6, 32449	4.9	8
41	Non-uniform changes in membrane receptors in the rat urinary bladder following outlet obstruction. <i>European Journal of Pharmacology</i> , <b>2015</b> , 762, 82-8	5.3	7
40	Association of muscarinic M $\mu$ receptors and Kir6.1 with caveolae in human detrusor muscle. <i>European Journal of Pharmacology</i> , <b>2012</b> , 683, 238-45	5.3	7
39	Effects of oxygen tension on energetics of cultured vascular smooth muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2002</b> , 283, H110-7	5.2	7
38	Effect of glibenclamide on membrane response to metabolic inhibition in smooth muscle of rat portal vein. <i>Journal of Vascular Research</i> , <b>1994</b> , 31, 82-91	1.9	7

37	Similar regulatory mechanisms of caveolins and cavin-3 by myocardin family coactivators in arterial and bladder smooth muscle. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176759	3.7	7
36	Neurite outgrowth in cultured mouse pelvic ganglia - Effects of neurotrophins and bladder tissue. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2017</b> , 205, 41-49	2.4	6
35	Thrombospondin-4 mediates cardiovascular remodelling in angiotensin II-induced hypertension. <i>Cardiovascular Pathology</i> , <b>2018</b> , 35, 12-19	3.8	6
34	Myocardin-Dependent Kv1.5 Channel Expression Prevents Phenotypic Modulation of Human Vessels in Organ Culture. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2019</b> , 39, e273-e286	9.4	6
33	Cavin-3 (PRKCDBP) deficiency reduces the density of caveolae in smooth muscle. <i>Cell and Tissue Research</i> , <b>2017</b> , 368, 591-602	4.2	5
32	Antagonistic relationship between the unfolded protein response and myocardin-driven transcription in smooth muscle. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 7370-7382	7	5
31	MicroRNA-Dependent Control of Serotonin-Induced Pulmonary Arterial Contraction. <i>Journal of Vascular Research</i> , <b>2017</b> , 54, 246-256	1.9	5
30	Glucosylceramide synthase deficiency in the heart compromises $\beta$ -adrenergic receptor trafficking. <i>European Heart Journal</i> , <b>2021</b> , 42, 4481-4492	9.5	5
29	Array profiling reveals contribution of Cthrc1 to growth of the denervated rat urinary bladder. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 314, F893-F905	4.3	4
28	Inducible Deletion of YAP and TAZ in Adult Mouse Smooth Muscle Causes Rapid and Lethal Colonic Pseudo-Obstruction. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2021</b> , 11, 623-637	7.9	4
27	Expression of endothelin type B receptors (EDNRB) on smooth muscle cells is controlled by MKL2, ternary complex factors, and actin dynamics. <i>American Journal of Physiology - Cell Physiology</i> , <b>2018</b> , 315, C873-C884	5.4	4
26	Injury induced expression of caveolar proteins in human kidney tubules - role of megakaryoblastic leukemia 1. <i>BMC Nephrology</i> , <b>2017</b> , 18, 320	2.7	3
25	Inhibition of polyamine formation antagonizes vascular smooth muscle cell proliferation and preserves the contractile phenotype. <i>Basic and Clinical Pharmacology and Toxicology</i> , <b>2014</b> , 115, 379-88	3.1	3
24	Inhibition of Ca <sup>2+</sup> -calcineurin/Nuclear Factor of Activated T-cells (NFAT) signaling reduces the expression of TRPC1 but not TRPC6 in vascular smooth muscle. <i>FASEB Journal</i> , <b>2007</b> , 21, A1243	0.9	2
23	Regulation of the Muscarinic M Receptor by Myocardin-Related Transcription Factors. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 710968	4.6	2
22	Human host defense peptide LL-37 facilitates double-stranded RNA pro-inflammatory signaling through up-regulation of TLR3 expression in vascular smooth muscle cells. <i>Inflammation Research</i> , <b>2020</b> , 69, 579-588	7.2	1
21	Vasopressin-induced mouse urethral contraction is modulated by caveolin-1. <i>European Journal of Pharmacology</i> , <b>2015</b> , 750, 59-65	5.3	1
20	Cell Type Dependent Suppression of Inflammatory Mediators by Myocardin Related Transcription Factors. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 732564	4.6	1

19	NG2/CSPG4, CD146/MCAM and VAP1/AOC3 are regulated by myocardin-related transcription factors in smooth muscle cells. <i>Scientific Reports</i> , <b>2021</b> , 11, 5955	4.9	1
18	MRTFA overexpression promotes conversion of human coronary artery smooth muscle cells into lipid-laden foam cells. <i>Vascular Pharmacology</i> , <b>2021</b> , 138, 106837	5.9	1
17	The antimicrobial peptide LL-37 triggers release of apoptosis-inducing factor and shows direct effects on mitochondria.. <i>Biochemistry and Biophysics Reports</i> , <b>2022</b> , 29, 101192	2.2	0
16	A hypothesis for insulin resistance in primary human adipocytes involving MRTF-A and suppression of PPAR $\alpha$ . <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 533, 64-69	3.4	0
15	Ligand-Independent G Protein-Coupled Estrogen Receptor/G Protein-Coupled Receptor 30 Activity: Lack of Receptor-Dependent Effects of G-1 and 17-Estradiol. <i>Molecular Pharmacology</i> , <b>2021</b> , 100, 271-282	4.3	0
14	YAP and TAZ in Vascular Smooth Muscle Confer Protection Against Hypertensive Vasculopathy.. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2022</b> , ATVBAHA121317365	9.4	0
13	Effects of polyamine synthesis inhibition on polyamines, growth and mechanical properties in hypertrophic rat urinary bladder. <i>Basic and Clinical Pharmacology and Toxicology</i> , <b>1998</b> , 82, 287-94		
12	Expression of endothelin type B receptors (EDNRB) on smooth muscle cells is controlled by ternary complex factors and the actin cytoskeleton. <i>FASEB Journal</i> , <b>2018</b> , 32, lb283	0.9	
11	Association of M3 muscarinic receptors and Kir6.1 with human detrusor caveolae. <i>FASEB Journal</i> , <b>2011</b> , 25, lb511	0.9	
10	The role of miRNAs in bladder contractility. <i>FASEB Journal</i> , <b>2011</b> , 25, lb589	0.9	
9	Cavin1 deficiency results in abnormal vascular function in mice. <i>FASEB Journal</i> , <b>2012</b> , 26, 832.11	0.9	
8	Substrain-specific cholesterol-lowering effects of oats in mice: - Clues for mechanism of action?. <i>FASEB Journal</i> , <b>2012</b> , 26, 969.7	0.9	
7	Dicer-deletion in the detrusor reduces contractility and expression of L-type Ca <sup>2+</sup> channels. <i>FASEB Journal</i> , <b>2012</b> , 26, 1140.8	0.9	
6	Reduced detrusor contractility in cavin-1 deficient mice. <i>FASEB Journal</i> , <b>2012</b> , 26, 1140.9	0.9	
5	Characterization of smooth muscle microRNA and mRNA genes that are regulated by actin polymerization. <i>FASEB Journal</i> , <b>2013</b> , 27, 922.7	0.9	
4	Vascular function in cavin-1-deficient mice: role of arginase 1 and dimethylarginine dimethylaminohydrolase 1. <i>FASEB Journal</i> , <b>2013</b> , 27, 1195.6	0.9	
3	Smooth muscle microRNAs play a crucial role in regulation of myogenic tone in small mesenteric arteries. <i>FASEB Journal</i> , <b>2013</b> , 27, 922.4	0.9	
2	Smooth muscle microRNAs regulate serotonin-induced contraction in pulmonary and systemic arteries. <i>FASEB Journal</i> , <b>2013</b> , 27, 1196.1	0.9	

- 1 New Kids on the Block: The Emerging Role of YAP/TAZ in Vascular Cell Mechanotransduction.  
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