Maik Gollasch

List of Publications by Citations

80 papers	4,797 citations	35 h-index	69 g-index
89 ext. papers	5,497 ext. citations	6.6 avg, IF	5.25 L-index

#	Paper	IF	Citations
80	Increased vascular smooth muscle contractility in TRPC6-/- mice. *Molecular and Cellular Biology*, **2005**, 25, 6980-9	4.8	409
79	Periadventitial fat releases a vascular relaxing factor. *FASEB Journal*, **2002**, 16, 1057-63	0.9	363
78	Gq-coupled receptors as mechanosensors mediating myogenic vasoconstriction. *EMBO Journal*, **2008**, 27, 3092-103	13	269
77	Mice with disrupted BK channel beta1 subunit gene feature abnormal Ca(2+) spark/STOC coupling and elevated blood pressure. *Circulation Research*, **2000**, 87, E53-60	15.7	265
76	Visceral periadventitial adipose tissue regulates arterial tone of mesenteric arteries. *Hypertension*, **2004**, 44, 271-6	8.5	226
75	Short-Chain Fatty Acid Propionate Protects From Hypertensive Cardiovascular Damage. *Circulation*, **2019**, 139, 1407-1421	16.7	204
74	Adiponectin is a novel humoral vasodilator. *Cardiovascular Research*, **2007**, 75, 719-27	9.9	202
73	Elevated blood pressure linked to primary hyperaldosteronism and impaired vasodilation in BK channel-deficient mice. *Circulation*, **2005**, 112, 60-8	16.7	195
72	Ignition of calcium sparks in arterial and cardiac muscle through caveolae. *Circulation Research*, **2000**, 87, 1034-9	15.7	148
71	Systemic peripheral artery relaxation by KCNQ channel openers and hydrogen sulfide. *Journal of Hypertension*, **2010**, 28, 1875-82	1.9	134
70	Perivascular adipose tissue and mesenteric vascular function in spontaneously hypertensive rats. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2006**, 26, 1297-302	9.4	133
69	Improved tag-switch method reveals that thioredoxin acts as depersulfidase and controls the intracellular levels of protein persulfidation. *Chemical Science*, **2016**, 7, 3414-3426	9.4	128
68	Paracrine role for periadventitial adipose tissue in the regulation of arterial tone. *Trends in Pharmacological Sciences*, **2004**, 25, 647-53	13.2	128
67	Interaction between P450 eicosanoids and nitric oxide in the control of arterial tone in mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 54-60	9.4	126
66	Mechanisms of ADRF release from rat aortic adventitial adipose tissue. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 286, H1107-13	5.2	126
65	L-type calcium channel expression depends on the differentiated state of vascular smooth muscle cells. *FASEB Journal*, **1998**, 12, 593-601	0.9	126
64	Vasodilator signals from perivascular adipose tissue. *British Journal of Pharmacology*, **2012**, 165, 633-42	8.6	104

63	Ontogeny of local sarcoplasmic reticulum Ca2+ signals in cerebral arteries: Ca2+ sparks as elementary physiological events. *Circulation Research*, **1998**, 83, 1104-14	15.7	99
62	Disruption of vascular Ca2+-activated chloride currents lowers blood pressure. *Journal of Clinical Investigation*, **2014**, 124, 675-86	15.9	94
61	Regional differences in perivascular adipose tissue impacting vascular homeostasis. *Trends in Endocrinology and Metabolism*, **2015**, 26, 367-75	8.8	85
60	Stretch-activation of angiotensin II type 1a receptors contributes to the myogenic response of mouse mesenteric and renal arteries. *Circulation Research*, **2014**, 115, 263-72	15.7	84
59	K+ currents in human coronary artery vascular smooth muscle cells. *Circulation Research*, **1996**, 78, 676-88	15.7	73
58	Differential effects of cystathionine-γ-lyase-dependent vasodilatory H2S in periadventitial vasoregulation of rat and mouse aortas. *PLoS ONE*, **2012**, 7, e41951	3.7	67
57	Protein kinase C ε targeting is regulated by temporal and spatial changes in intracellular free calcium concentration [Ca2+]i. *FASEB Journal*, **2000**, 14, 1653-1663	0.9	64
56	TRPC6 G757D Loss-of-Function Mutation Associates with FSGS. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 2771-83	12.7	63
55	SGK1 induces vascular smooth muscle cell calcification through NF-κB signaling. *Journal of Clinical Investigation*, **2018**, 128, 3024-3040	15.9	59
54	Role of KCNQ channels in skeletal muscle arteries and periadventitial vascular dysfunction. *Hypertension*, **2013**, 61, 151-9	8.5	54
53	Regulator of G protein signalling 2 ameliorates angiotensin II-induced hypertension in mice. *Experimental Physiology*, **2007**, 92, 1014-22	2.4	53
52	The BK channel beta1 subunit gene is associated with human baroreflex and blood pressure regulation. *Journal of Hypertension*, **2002**, 20, 927-33	1.9	53
51	A reduction in the amount and anti-contractile effect of periadventitial mesenteric adipose tissue precedes hypertension development in spontaneously hypertensive rats. *Hypertension Research*, **2008**, 31, 1415-23	4.7	51
50	Indirect coupling between Cav1.2 channels and ryanodine receptors to generate Ca2+ sparks in murine arterial smooth muscle cells. *Journal of Physiology*, **2007**, 584, 205-19	3.9	51
49	Perivascular adipose tissue, potassium channels, and vascular dysfunction. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 1827-30	9.4	44
48	Regulation of spontaneous transient outward potassium currents in human coronary arteries. *Circulation*, **1997**, 95, 503-10	16.7	44
47	beta(1)-Subunit of BK channels regulates arterial wall[Ca(2+)] and diameter in mouse cerebral arteries. *Journal of Applied Physiology*, **2001**, 91, 1350-4	3.7	43
46	Cystathionine γ-Lyase-Produced Hydrogen Sulfide Controls Endothelial NO Bioavailability and Blood Pressure. *Hypertension*, **2018**, 71, 1210-1217	8.5	39

45	Adipose-Vascular Coupling and Potential Therapeutics. *Annual Review of Pharmacology and Toxicology*, **2017**, 57, 417-436	17.9	30
44	Perivascular Adipose Tissue: the Sixth Man of the Cardiovascular System. *Cardiovascular Drugs and Therapy*, **2018**, 32, 481-502	3.9	27
43	A Clinical Perspective: Contribution of Dysfunctional Perivascular Adipose Tissue (PVAT) to Cardiovascular Risk. *Current Hypertension Reports*, **2016**, 18, 82	4.7	25
42	Role of TRPV1 channels in ischemia/reperfusion-induced acute kidney injury. *PLoS ONE*, **2014**, 9, e109843	3.7	24
41	Hypoxia and ischemia-reperfusion: a BiK contribution?. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 307, H811-7	5.2	19
40	mTOR and regulation of energy homeostasis in humans. *Journal of Molecular Medicine*, **2013**, 91, 1167-75	3.5	19
39	The Role of DPO-1 and XE991-Sensitive Potassium Channels in Perivascular Adipose Tissue-Mediated Regulation of Vascular Tone. *Frontiers in Physiology*, **2016**, 7, 335	4.6	19
38	Role of Cystathionine Gamma-Lyase in Immediate Renal Impairment and Inflammatory Response in Acute Ischemic Kidney Injury. *Scientific Reports*, **2016**, 6, 27517	4.9	18
37	Role of Ryanodine Type 2 Receptors in Elementary Ca Signaling in Arteries and Vascular Adaptive Responses. *Journal of the American Heart Association*, **2019**, 8, e010090	6	17
36	Phosphodiesterase 3A and Arterial Hypertension. *Circulation*, **2020**, 142, 133-149	16.7	17
35	Do K 7.1 channels contribute to control of arterial vascular tone?. *British Journal of Pharmacology*, **2017**, 174, 150-162	8.6	13
34	Perivascular adipose tissue and the dynamic regulation of K 7 and K channels: Implications for resistant hypertension. *Microcirculation*, **2018**, 25, e12434	2.9	13
33	RXFP1 Receptor Activation by Relaxin-2 Induces Vascular Relaxation in Mice a GProtein/PI3K/Nitric Oxide-Coupled Pathway. *Frontiers in Physiology*, **2018**, 9, 1234	4.6	13
32	Transient Receptor Potential Vanilloid 4 Channel Deficiency Aggravates Tubular Damage after Acute Renal Ischaemia Reperfusion. *Scientific Reports*, **2018**, 8, 4878	4.9	12
31	Palmitic Acid Methyl Ester and Its Relation to Control of Tone of Human Visceral Arteries and Rat Aortas by Perivascular Adipose Tissue. *Frontiers in Physiology*, **2018**, 9, 583	4.6	12
30	Regulation of arterial tone by smooth muscle myosin type II. *American Journal of Physiology - Cell Physiology*, **2002**, 283, C1383-9	5.4	12
29	Age attenuates the T-type Ca 3.2-RyR axis in vascular smooth muscle. *Aging Cell*, **2020**, 19, e13134	9.9	11
28	A CD2AP Mutation Associated with Focal Segmental Glomerulosclerosis in Young Adulthood. *Clinical Medicine Insights: Case Reports*, **2016**, 9, 15-9	0.8	11

27	Caveolae Link Ca3.2 Channels to BK-Mediated Feedback in Vascular Smooth Muscle. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 2371-2381	9.4	11
26	Elementary calcium signaling in arterial smooth muscle. *Channels*, **2019**, 13, 505-519	3	10
25	Distinguishing Between Biological and Technical Replicates in Hypertension Research on Isolated Arteries. *Frontiers in Medicine*, **2019**, 6, 126	4.9	9
24	Pathophysiological Role of Caveolae in Hypertension. *Frontiers in Medicine*, **2019**, 6, 153	4.9	8
23	Differential targeting and signalling of voltage-gated T-type Ca 3.2 and L-type Ca 1.2 channels to ryanodine receptors in mesenteric arteries. *Journal of Physiology*, **2018**, 596, 4863-4877	3.9	8
22	Renal Fibrosis, Immune Cell Infiltration and Changes of TRPC Channel Expression after Unilateral Ureteral Obstruction in Trpc6-/- Mice. *Cellular Physiology and Biochemistry*, **2019**, 52, 1484-1502	3.9	7
21	Distinct roles of angiotensin receptors in autonomic dysreflexia following high-level spinal cord injury in mice. *Experimental Neurology*, **2019**, 311, 173-181	5.7	5
20	Assessment of nanoindentation in stiffness measurement of soft biomaterials: kidney, liver, spleen and uterus. *Scientific Reports*, **2020**, 10, 18784	4.9	4
19	Prophylactic inhibition of soluble epoxide hydrolase delays onset of nephritis and ameliorates kidney damage in NZB/W F1 mice. *Scientific Reports*, **2019**, 9, 8993	4.9	3
18	Antihypertensive Treatment Patterns and Blood Pressure Control in Older Adults: Results from the Berlin Aging Study II. *Drugs and Aging*, **2018**, 35, 993-1003	4.7	3
17	Arteriovenous malformation in a kidney allograft. *CKJ: Clinical Kidney Journal*, **2009**, 2, 320-2	4.5	2
16	Carbon monoxide targets the pore-forming BK alpha subunit in vascular smooth muscle Ca2+-activated large-conductance K+ channels. *FASEB Journal*, **2008**, 22, 1206.5	0.9	2
15	Molecular basis for the sensitivity of TRP channels to polyunsaturated fatty acids. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2018**, 391, 833-846	3.4	1
14	Myogenic Vasoconstriction Requires Canonical Gq/11 Signaling of the Angiotensin II Type 1a Receptor in the Murine Vasculature		1
13	Reproducibility of Heart Rate Variability Revealed by Repeated Measurements during and after Hemodialysis. *Blood Purification*, **2020**, 49, 356-363	3.1	1
12	Re: Sun-Kui Ke et al. TRiPping over vasotonus regulation in the lung. *Respiratory Physiology and Neurobiology*, **2016**, 227, 71-2	2.8	1
11	Possible Digenic Disease in a Caucasian Family with COL4A3 and COL4A5 Mutations. *Nephron*, **2019**, 141, 213-218	3.3	0
10	Myogenic Vasoconstriction Requires Canonical G Signaling of the Angiotensin II Type 1 Receptor.. *Journal of the American Heart Association*, **2022**, 11, e022070	6	0

9	Aging Affects K7 Channels and Perivascular Adipose Tissue-Mediated Vascular Tone.. *Frontiers in Physiology*, **2021**, 12, 749709	4.6	0
8	Role of TRPC6 in kidney damage after acute ischemic kidney injury.. *Scientific Reports*, **2022**, 12, 3038	4.9	0
7	Gq-coupled vasopressor receptors are essential mechanosensitive components for the myogenic vasoconstriction. *FASEB Journal*, **2008**, 22, 737.5	0.9	
6	Stretch-activation of angiotensin II type 1a receptors contributes to the myogenic response of mouse mesenteric and renal arteries (1067.8). *FASEB Journal*, **2014**, 28, 1067.8	0.9	
5	Major role of ryanodine type 2 receptors in global and local intracellular calcium release in arterial smooth muscle (1067.7). *FASEB Journal*, **2014**, 28, 1067.7	0.9	
4	eNOS-NO-induced small blood vessel relaxation requires EHD2-dependent caveolae stabilization **2019**, 14, e0223620		
3	eNOS-NO-induced small blood vessel relaxation requires EHD2-dependent caveolae stabilization **2019**, 14, e0223620		
2	eNOS-NO-induced small blood vessel relaxation requires EHD2-dependent caveolae stabilization **2019**, 14, e0223620		
1	eNOS-NO-induced small blood vessel relaxation requires EHD2-dependent caveolae stabilization **2019**, 14, e0223620		