

# Rudolf Schubert

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,275  
citations

279798

23  
h-index

214800

47  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1642  
citing authors

#	ARTICLE	IF	CITATIONS
1	cGMP-dependent protein kinase activates Ca-activated K channels in cerebral artery smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 1993, 265, C299-C303.	4.6	555
2	Protein kinases: tuners of the BKCa channel in smooth muscle. <i>Trends in Pharmacological Sciences</i> , 2001, 22, 505-512.	8.7	241
3	Mechanisms of NO/cGMP-Dependent Vasorelaxation. <i>Circulation Research</i> , 2000, 87, 825-830.	4.5	228
4	Role of KCNQ Channels in Skeletal Muscle Arteries and Periadventitial Vascular Dysfunction. <i>Hypertension</i> , 2013, 61, 151-159.	2.7	75
5	The myogenic response: established facts and attractive hypotheses. <i>Clinical Science</i> , 1999, 96, 313-26.	4.3	73
6	Iloprost activates KCa channels of vascular smooth muscle cells: role of cAMP-dependent protein kinase. <i>American Journal of Physiology - Cell Physiology</i> , 1996, 271, C1203-C1211.	4.6	67
7	Protein kinase C reduces the KCa current of rat tail artery smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C648-C658.	4.6	63
8	Rho kinase inhibition partly weakens myogenic reactivity in rat small arteries by changing calcium sensitivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H2288-H2295.	3.2	56
9	Iloprost dilates rat small arteries: role of K(ATP)- and K(Ca)-channel activation by cAMP-dependent protein kinase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997, 272, H1147-H1156.	3.2	54
10	Urocortin relaxes rat tail arteries by a PKA-mediated reduction of the sensitivity of the contractile apparatus for calcium. <i>British Journal of Pharmacology</i> , 2001, 134, 1564-1570.	5.4	50
11	Nitric Oxide Donor Sodium Nitroprusside Dilates Rat Small Arteries by Activation of Inward Rectifier Potassium Channels. <i>Hypertension</i> , 2004, 43, 891-896.	2.7	46
12	Urocortin-Induced Decrease in Ca <sup>2+</sup> Sensitivity of Contraction in Mouse Tail Arteries Is Attributable to cAMP-Dependent Dephosphorylation of MYPT1 and Activation of Myosin Light Chain Phosphatase. <i>Circulation Research</i> , 2006, 98, 1159-1167.	4.5	37
13	Capitalizing on diversity: an integrative approach towards the multiplicity of cellular mechanisms underlying myogenic responsiveness. <i>Cardiovascular Research</i> , 2013, 97, 404-412.	3.8	37
14	Noradrenaline-induced depolarization is smaller in isobaric compared to isometric preparations of rat mesenteric small arteries. <i>Pflugers Archiv European Journal of Physiology</i> , 1996, 431, 794-796.	2.8	31
15	Trophic action of sympathetic nerves reduces arterial smooth muscle Ca <sup>2+</sup> sensitivity during early post-natal development in rats. <i>Acta Physiologica</i> , 2014, 212, 128-141.	3.8	31
16	Analysis of pressurized resistance vessel diameter changes with a low cost digital image processing device. <i>Computer Methods and Programs in Biomedicine</i> , 1996, 50, 23-30.	4.7	30
17	The Unexpected Role of Calcium-Activated Potassium Channels: Limitation of NO-Induced Arterial Relaxation. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	30
18	Multiple Ligand-Ion Solutions: A Guide for Solution Preparation and Computer Program Understanding. <i>Journal of Vascular Research</i> , 1996, 33, 86-98.	1.4	29

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19	Perivascular adipose tissue and the dynamic regulation of $K_{v}^{7}$ and $K_{ir}$ channels: Implications for resistant hypertension. <i>Microcirculation</i> , 2018, 25, e12434.	1.8	28
20	Vasodilation of rat skeletal muscle arteries by the novel BK channel opener GoSlo is mediated by the simultaneous activation of BK and $K_{v}^{7}$ channels. <i>British Journal of Pharmacology</i> , 2020, 177, 1164-1186.	5.4	28
21	Functional remodelling of arterial endothelium during early postnatal development in rats. <i>Cardiovascular Research</i> , 2013, 99, 612-621.	3.8	27
22	Negative feedback regulation of vasoconstriction by potassium channels in 10- to 15-day-old rats: Dominating role of $K_{v}^{7}$ channels. <i>Acta Physiologica</i> , 2019, 225, e13176.	3.8	27
23	The Role of DPO-1 and XE991-Sensitive Potassium Channels in Perivascular Adipose Tissue-Mediated Regulation of Vascular Tone. <i>Frontiers in Physiology</i> , 2016, 7, 335.	2.8	25
24	Higher $Ca^{2+}$ -sensitivity of arterial contraction in 1-week-old rats is due to a greater Rho-kinase activity. <i>Acta Physiologica</i> , 2018, 223, e13044.	3.8	24
25	TASK1 channel blockade by AVE1231 increases vasocontractile responses and BP in 1- to 2-week-old but not adult rats. <i>British Journal of Pharmacology</i> , 2020, 177, 5148-5162.	5.4	22
26	4-Aminopyridine affects rat arterial smooth muscle BKCa currents by changing intracellular pH. <i>British Journal of Pharmacology</i> , 2000, 131, 1643-1650.	5.4	21
27	cAMP-dependent protein kinase is in an active state in rat small arteries possessing a myogenic tone. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H1145-H1155.	3.2	18
28	The involvement of phosphorylation of myosin phosphatase targeting subunit 1 (MYPT1) and MYPT1 isoform expression in NO/cGMP mediated differential vasoregulation of cerebral arteries compared to systemic arteries. <i>Acta Physiologica</i> , 2018, 224, e13079.	3.8	16
29	Changes in Endothelial Nitric Oxide Production in Systemic Vessels during Early Ontogenesis – A Key Mechanism for the Perinatal Adaptation of the Circulatory System. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1421.	4.1	16
30	A program for calculating multiple metal-ligand solutions. <i>Computer Methods and Programs in Biomedicine</i> , 1990, 33, 93-94.	4.7	14
31	Whole-cell patch-clamp: true perforated or spontaneous conventional recordings?. <i>Pflugers Archiv European Journal of Physiology</i> , 2001, 442, 634-638.	2.8	14
32	Cystathionine gamma-lyase of perivascular adipose tissue with reversed regulatory effect in diabetic rat artery. <i>Biotechnology and Biotechnological Equipment</i> , 2015, 29, 147-151.	1.3	13
33	Myoglobin facilitates angiotensin II-induced constriction of renal afferent arterioles. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F908-F916.	2.7	12
34	Hypoxia/Reoxygenation of Rat Renal Arteries Impairs Vasorelaxation via Modulation of Endothelium-Independent sGC/cGMP/PKG Signaling. <i>Frontiers in Physiology</i> , 2018, 9, 480.	2.8	10
35	Curcumin analogs (B2BrBC and C66) supplementation attenuates airway hyperreactivity and promote airway relaxation in neonatal rats exposed to hyperoxia. <i>Physiological Reports</i> , 2020, 8, e14555.	1.7	10
36	Alteration of mRNA and microRNA expression profiles in rat muscular type vasculature in early postnatal development. <i>Scientific Reports</i> , 2015, 5, 11106.	3.3	9

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37	Review of Cyanotoxicity Studies Based on Cell Cultures. <i>Journal of Toxicology</i> , 2022, 2022, 1-17.	3.0	9
38	Remodeling of Arterial Tone Regulation in Postnatal Development: Focus on Smooth Muscle Cell Potassium Channels. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5413.	4.1	8
39	Getting it right matters! Covid-19 pandemic analogies to everyday life in medical sciences. <i>Acta Physiologica</i> , 2021, 233, e13714.	3.8	8
40	The Functional Availability of Arterial Kv7 Channels Is Suppressed Considerably by Large-Conductance Calcium-Activated Potassium Channels in 2- to 3-Month Old but Not in 10- to 15-Day Old Rats. <i>Frontiers in Physiology</i> , 2020, 11, 597395.	2.8	8
41	A novel method to isolate retinal and brain microvessels from individual rats: Microscopic and molecular biological characterization and application in hyperglycemic animals. <i>Vascular Pharmacology</i> , 2018, 110, 24-30.	2.1	7
42	Urocortin increases the intracellular cAMP concentration and thus decreases the degree of phosphorylation of MYPT1 and increases the myosin phosphatase activity. <i>Biophysics (Russian)</i> Tj ETQq0 0 0 rgBT /Qverlock 60 Tf 50 53		
43	Obestatin as contractile mediator of excised frog heart. <i>Open Life Sciences</i> , 2009, 4, 327-334.	1.4	6
44	Pharmacokinetic Modeling of Intra-arterial Nimodipine Therapy for Subarachnoid Hemorrhage-Related Cerebral Vasospasm. <i>Clinical Neuroradiology</i> , 2017, 27, 199-203.	1.9	6
45	Src tyrosine kinases contribute to serotonin-mediated contraction by regulating calcium-dependent pathways in rat skeletal muscle arteries. <i>Pflügers Archiv European Journal of Physiology</i> , 2017, 469, 767-777.	2.8	6
46	Acid sensing ion channels in rat cerebral arteries: Probing the expression pattern and vasomotor activity. <i>Life Sciences</i> , 2019, 227, 193-200.	4.3	6
47	Role of soluble guanylyl cyclase in renal afferent and efferent arterioles. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, F193-F202.	2.7	6
48	Sodium Nitroprusside-Induced Activation of Vascular Smooth Muscle BK Channels Is Mediated by PKG Rather Than by a Direct Interaction with NO. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2798.	4.1	6
49	Comparative transcriptome analysis of inner blood-retinal barrier and blood-brain barrier in rats. <i>Scientific Reports</i> , 2021, 11, 12151.	3.3	5
50	TWIK-Related Acid-Sensitive Potassium Channels (TASK-1) Emerge as Contributors to Tone Regulation in Renal Arteries at Alkaline pH. <i>Frontiers in Physiology</i> , 2022, 13, .	2.8	4
51	The Effects of Acidosis on eNOS in the Systemic Vasculature: A Focus on Early Postnatal Ontogenesis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5987.	4.1	4
52	An explorative vs. traditional practical course: how to inspire scientific thinking in medical students. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2019, 43, 350-354.	1.6	3
53	Relaxation and contraction rates - underestimated parameters of vascular contractility?. <i>Acta Physiologica</i> , 2017, 219, 9-10.	3.8	2
54	MAPKs Are Highly Abundant but Do Not Contribute to $\hat{\pm}$ 1-Adrenergic Contraction of Rat Saphenous Arteries in the Early Postnatal Period. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6037.	4.1	2

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55	Are microRNAs opening up a new world of regulation?. Acta Physiologica, 2015, 215, 130-132.	3.8	1
56	The second life of ion transporters as signal transducers. Acta Physiologica, 2018, 224, e13155.	3.8	1
57	ET-CORM Mediated Vasorelaxation of Small Mesenteric Arteries: Involvement of Kv7 Potassium Channels. Frontiers in Pharmacology, 2021, 12, 702392.	3.5	1
58	Evidence for a functional role of endothelial TRPV4 in shear stress-induced vasodilatation. FASEB Journal, 2006, 20, A1116.	0.5	0