Rudolf Schubert

List of Publications by Year
in descending order

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	Sodium Nitroprusside-Induced Activation of Vascular Smooth Muscle BK Channels Is Mediated by PKG Rather Than by a Direct Interaction with NO. International Journal of Molecular Sciences, 2022, 23, 2798.	4.1	6
2	Review of Cyanotoxicity Studies Based on Cell Cultures. Journal of Toxicology, 2022, 2022, 1-17.	3.0	9
3	TWIK-Related Acid-Sensitive Potassium Channels (TASK-1) Emerge as Contributors to Tone Regulation in Renal Arteries at Alkaline pH. Frontiers in Physiology, 2022, 13, .	2.8	4
4	The Effects of Acidosis on eNOS in the Systemic Vasculature: A Focus on Early Postnatal Ontogenesis. International Journal of Molecular Sciences, 2022, 23, 5987.	4.1	4
5	Role of soluble guanylyl cyclase in renal afferent and efferent arterioles. American Journal of Physiology - Renal Physiology, 2021, 320, F193-F202.	2.7	6
6	Remodeling of Arterial Tone Regulation in Postnatal Development: Focus on Smooth Muscle Cell Potassium Channels. International Journal of Molecular Sciences, 2021, 22, 5413.	4.1	8
7	MAPKs Are Highly Abundant but Do Not Contribute to Î±1-Adrenergic Contraction of Rat Saphenous Arteries in the Early Postnatal Period. International Journal of Molecular Sciences, 2021, 22, 6037.	4.1	2
8	Comparative transcriptome analysis of inner blood-retinal barrier and bloodâ€“brain barrier in rats. Scientific Reports, 2021, 11, 12151.	3.3	5
9	Getting it right matters! Covidâ€19 pandemic analogies to everyday life in medical sciences. Acta Physiologica, 2021, 233, e13714.	3.8	8
10	ET-CORM Mediated Vasorelaxation of Small Mesenteric Arteries: Involvement of Kv7 Potassium Channels. Frontiers in Pharmacology, 2021, 12, 702392.	3.5	1
11	Vasodilation of rat skeletal muscle arteries by the novel BK channel opener GoSlo is mediated by the simultaneous activation of BK and K_v7 channels. British Journal of Pharmacology, 2020, 177, 1164-1186.	5.4	28
12	Curcumin analogs (B2BrBC and C66) supplementation attenuates airway hyperreactivity and promote airway relaxation in neonatal rats exposed to hyperoxia. Physiological Reports, 2020, 8, e14555.	1.7	10
13	TASKâ€1 channel blockade by AVE1231 increases vasocontractile responses and BP in 1â€to 2â€weekâ€old but not adult rats. British Journal of Pharmacology, 2020, 177, 5148-5162.	5.4	22
14	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. Frontiers in Physiology, 2020, 11, 597395.	2.8	8
15	Negative feedback regulation of vasocontraction by potassium channels in 10â€to 15â€dayâ€old rats: Dominating role of K_v7 channels. Acta Physiologica, 2019, 225, e13176.	3.8	27
16	An explorative vs. traditional practical course: how to inspire scientific thinking in medical students. American Journal of Physiology - Advances in Physiology Education, 2019, 43, 350-354.	1.6	3
17	Acid sensing ion channels in rat cerebral arteries: Probing the expression pattern and vasomotor activity. Life Sciences, 2019, 227, 193-200.	4.3	6
18	Changes in Endothelial Nitric Oxide Production in Systemic Vessels during Early Ontogenesisâ€"A Key Mechanism for the Perinatal Adaptation of the Circulatory System. International Journal of Molecular Sciences, 2019, 20, 1421.	4.1	16

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19	The Unexpected Role of Calciumâ€Activated Potassium Channels: Limitation of NOâ€Induced Arterial Relaxation. Journal of the American Heart Association, 2018, 7, .	3.7	30
20	Higher Ca²⁺â€sensitivity of arterial contraction in 1â€weekâ€old rats is due to a greater Rhoâ€kinase activity. Acta Physiologica, 2018, 223, e13044.	3.8	24
21	The involvement of phosphorylation of myosin phosphatase targeting subunit 1 (<scp>MYPT</scp>1) and <scp>MYPT</scp>1 isoform expression in <scp>NO</scp>/<scp>cGMP</scp> mediated differential vasoregulation of cerebral arteries compared to systemic arteries. Acta Physiologica, 2018, 224, e13079.	3.8	16
22	Perivascular adipose tissue and the dynamic regulation of K_v7 and K_{ir} channels: Implications for resistant hypertension. Microcirculation, 2018, 25, e12434.	1.8	28
23	The second life of ion transporters as signal transducers. Acta Physiologica, 2018, 224, e13155.	3.8	1
24	Hypoxia/Reoxygenation of Rat Renal Arteries Impairs Vasorelaxation via Modulation of Endothelium-Independent sGC/cGMP/PKG Signaling. Frontiers in Physiology, 2018, 9, 480.	2.8	10
25	A novel method to isolate retinal and brain microvessels from individual rats: Microscopic and molecular biological characterization and application in hyperglycemic animals. Vascular Pharmacology, 2018, 110, 24-30.	2.1	7
26	Pharmacokinetic Modeling of Intra-arterial Nimodipine Therapy for Subarachnoid Hemorrhage-Related Cerebral Vasospasm. Clinical Neuroradiology, 2017, 27, 199-203.	1.9	6
27	Src tyrosine kinases contribute to serotonin-mediated contraction by regulating calcium-dependent pathways in rat skeletal muscle arteries. Pflugers Archiv European Journal of Physiology, 2017, 469, 767-777.	2.8	6
28	Myoglobin facilitates angiotensin II-induced constriction of renal afferent arterioles. American Journal of Physiology - Renal Physiology, 2017, 312, F908-F916.	2.7	12
29	Relaxation and contraction rates - underestimated parameters of vascular contractility?. Acta Physiologica, 2017, 219, 9-10.	3.8	2
30	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.	2.8	25
31	Are microRNAs opening up a new world of regulation?. Acta Physiologica, 2015, 215, 130-132.	3.8	1
32	Alteration of mRNA and microRNA expression profiles in rat muscular type vasculature in early postnatal development. Scientific Reports, 2015, 5, 11106.	3.3	9
33	Cystathionine gamma-lyase of perivascular adipose tissue with reversed regulatory effect in diabetic rat artery. Biotechnology and Biotechnological Equipment, 2015, 29, 147-151.	1.3	13
34	Trophic action of sympathetic nerves reduces arterial smooth muscle Ca²⁺sensitivity during early post-natal development in rats. Acta Physiologica, 2014, 212, 128-141.	3.8	31
35	Capitalizing on diversity: an integrative approach towards the multiplicity of cellular mechanisms underlying myogenic responsiveness. Cardiovascular Research, 2013, 97, 404-412.	3.8	37
36	Functional remodelling of arterial endothelium during early postnatal development in rats. Cardiovascular Research, 2013, 99, 612-621.	3.8	27

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37	Role of KCNQ Channels in Skeletal Muscle Arteries and Periadventitial Vascular Dysfunction. Hypertension, 2013, 61, 151-159.	2.7	75
38	Obestatin as contractile mediator of excised frog heart. Open Life Sciences, 2009, 4, 327-334.	1.4	6
39	Urocortin increases the intracellular cAMP concentration and thus decreases the degree of phosphorylation of MYPT1 and increases the myosin phosphatase activity. Biophysics (Russian) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.7	6
40	Urocortin-Induced Decrease in Ca 2+ Sensitivity of Contraction in Mouse Tail Arteries Is Attributable to cAMP-Dependent Dephosphorylation of MYPT1 and Activation of Myosin Light Chain Phosphatase. Circulation Research, 2006, 98, 1159-1167.	4.5	37
41	Evidence for a functional role of endothelial TRPV4 in shear stressâ€induced vasodilatation. FASEB Journal, 2006, 20, A1116.	0.5	0
42	Nitric Oxide Donor Sodium Nitroprusside Dilates Rat Small Arteries by Activation of Inward Rectifier Potassium Channels. Hypertension, 2004, 43, 891-896.	2.7	46
43	Rho kinase inhibition partly weakens myogenic reactivity in rat small arteries by changing calcium sensitivity. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2288-H2295.	3.2	56
44	Protein kinases: tuners of the BKCa channel in smooth muscle. Trends in Pharmacological Sciences, 2001, 22, 505-512.	8.7	241
45	Whole-cell patch-clamp: true perforated or spontaneous conventional recordings?. Pflugers Archiv European Journal of Physiology, 2001, 442, 634-638.	2.8	14
46	Urocortin relaxes rat tail arteries by a PKAâ€mediated reduction of the sensitivity of the contractile apparatus for calcium. British Journal of Pharmacology, 2001, 134, 1564-1570.	5.4	50
47	4-Aminopyridine affects rat arterial smooth muscle BKCa currents by changing intracellular pH. British Journal of Pharmacology, 2000, 131, 1643-1650.	5.4	21
48	Mechanisms of NO/cGMP-Dependent Vasorelaxation. Circulation Research, 2000, 87, 825-830.	4.5	228
49	Protein kinase C reduces the KCa current of rat tail artery smooth muscle cells. American Journal of Physiology - Cell Physiology, 1999, 276, C648-C658.	4.6	63
50	cAMP-dependent protein kinase is in an active state in rat small arteries possessing a myogenic tone. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H1145-H1155.	3.2	18
51	The myogenic response: established facts and attractive hypotheses. Clinical Science, 1999, 96, 313-26.	4.3	73
52	Iloprost dilates rat small arteries: role of K(ATP)- and K(Ca)-channel activation by cAMP-dependent protein kinase. American Journal of Physiology - Heart and Circulatory Physiology, 1997, 272, H1147-H1156.	3.2	54
53	Noradrenaline-induced depolarization is smaller in isobaric compared to isometric preparations of rat mesenteric small arteries. Pflugers Archiv European Journal of Physiology, 1996, 431, 794-796.	2.8	31
54	Iloprost activates KCa channels of vascular smooth muscle cells: role of cAMP-dependent protein kinase. American Journal of Physiology - Cell Physiology, 1996, 271, C1203-C1211.	4.6	67

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55	Multiple Ligand-Ion Solutions: A Guide for Solution Preparation and Computer Program Understanding. Journal of Vascular Research, 1996, 33, 86-98.	1.4	29
56	Analysis of pressurized resistance vessel diameter changes with a low cost digital image processing device. Computer Methods and Programs in Biomedicine, 1996, 50, 23-30.	4.7	30
57	cGMP-dependent protein kinase activates Ca-activated K channels in cerebral artery smooth muscle cells. American Journal of Physiology - Cell Physiology, 1993, 265, C299-C303.	4.6	555
58	A program for calculating multiple metal-ligand solutions. Computer Methods and Programs in Biomedicine, 1990, 33, 93-94.	4.7	14