Niels-Henrik Holstein-Rathlou

List of Publications by Year
in descending order

69 papers	2,864 citations	172457 29 h-index	197818 49 g-index
71 all docs	71 docs citations	71 times ranked	2852 citing authors

#	Article	IF	Citations
1	Gap Junctions. , 2012, 2, 1981-2035.		331
2	ZP123 Increases Gap Junctional Conductance and Prevents Reentrant Ventricular Tachycardia During Myocardial Ischemia in Open Chest Dogs. Journal of Cardiovascular Electrophysiology, 2003, 14, 510-520.	1.7	130
3	Terlipressin improves renal function in patients with cirrhosis and ascites without hepatorenal syndrome. Hepatology, 2007, 46, 1863-1871.	7.3	126
4	Renal tubular function in patients treated with high-dose cisplatin. Clinical Pharmacology and Therapeutics, 1988, 44, 164-172.	4.7	122
5	Identification of ischemia-regulated phosphorylation sites in connexin43: A possible target for the antiarrhythmic peptide analogue rotigaptide (ZP123). Journal of Molecular and Cellular Cardiology, 2006, 40, 790-798.	1.9	118
6	Connexins and the kidney. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1143-R1155.	1.8	118
7	Lack of Evidence for Low-Dimensional Chaos in Heart Rate Variability. Journal of Cardiovascular Electrophysiology, 1994, 5, 591-601.	1.7	104
8	Managing the complexity of communication: regulation of gap junctions by post-translational modification. Frontiers in Pharmacology, 2013, 4, 130.	3.5	97
9	Activation of GLP-1 receptors on vascular smooth muscle cells reduces the autoregulatory response in afferent arterioles and increases renal blood flow. American Journal of Physiology - Renal Physiology, 2015, 308, F867-F877.	2.7	89
10	Expression of connexinÂ37, 40, and 43 mRNA and protein in renal preglomerular arterioles. Histochemistry and Cell Biology, 2001, 115, 479-487.	1.7	83
11	Conducted vasoconstriction in rat mesenteric arterioles: role for dihydropyridine-insensitive Ca²⁺channels. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H582-H590.	3.2	72
12	Synchronization phenomena in nephronâ€“nephron interaction. Chaos, 2001, 11, 417-426.	2.5	72
13	Expression of connexinÂ37, 40 and 43 in rat mesenteric arterioles and resistance arteries. Histochemistry and Cell Biology, 2003, 119, 139-148.	1.7	69
14	Dynamic Autoregulation and Renal Injury in Dahl Rats. Hypertension, 1997, 30, 975-983.	2.7	68
15	The Antiarrhythmic Peptide Analog ZP123 Prevents Atrial Conduction Slowing During Metabolic Stress. Journal of Cardiovascular Electrophysiology, 2005, 16, 537-545.	1.7	65
16	Nonlinear interactions in renal blood flow regulation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R1143-R1159.	1.8	62
17	Phosphorylation of connexin43 on serine 306 regulates electrical coupling. Heart Rhythm, 2009, 6, 1632-1638.	0.7	54
18	Role of the renin-angiotensin system in regulation and autoregulation of renal blood flow. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R1017-R1024.	1.8	48

#	Article	IF	Citations
19	Detection of chaotic determinism in time series from randomly forced maps. Physica D: Nonlinear Phenomena, 1997, 99, 471-486.	2.8	47
20	Electrotonic vascular signal conduction and nephron synchronization. American Journal of Physiology - Renal Physiology, 2009, 296, F751-F761.	2.7	47
21	Effects of terlipressin on the aquaretic system: evidence of antidiuretic effects. American Journal of Physiology - Renal Physiology, 2008, 295, F1295-F1300.	2.7	46
22	Diet-induced pre-diabetes slows cardiac conductance and promotes arrhythmogenesis. Cardiovascular Diabetology, 2015, 14, 87.	6.8	45
23	Beat-to-Beat QT Dynamics in Healthy Subjects. Annals of Noninvasive Electrocardiology, 2004, 9, 3-11.	1.1	44
24	The Role of L- and T-Type Calcium Channels in Local and Remote Calcium Responses in Rat Mesenteric Terminal Arterioles. Journal of Vascular Research, 2009, 46, 138-151.	1.4	44
25	Depolarizationâ€induced calcium influx in rat mesenteric small arterioles is mediated exclusively <i>via</i> mibefradilâ€sensitive calcium channels. British Journal of Pharmacology, 2004, 142, 709-718.	5.4	43
26	Angiotensin II modulates conducted vasoconstriction to norepinephrine and local electrical stimulation in rat mesenteric arterioles. Cardiovascular Research, 1999, 44, 176-184.	3.8	40
27	Short- and long-term variations in non-linear dynamics of heart rate variability. Cardiovascular Research, 1996, 31, 400-409.	3.8	33
28	Dynamics of spectral components of heart rate variability during changes in autonomic balance. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 275, H213-H219.	3.2	31
29	BKCa and KV channels limit conducted vasomotor responses in rat mesenteric terminal arterioles. Pflugers Archiv European Journal of Physiology, 2012, 463, 279-295.	2.8	31
30	The Vascular Conducted Response in Cerebral Blood Flow Regulation. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 649-656.	4.3	31
31	DeepFake electrocardiograms using generative adversarial networks are the beginning of the end for privacy issues in medicine. Scientific Reports, 2021, 11, 21896.	3.3	31
32	Local electric stimulation causes conducted calcium response in rat interlobular arteries. American Journal of Physiology - Renal Physiology, 2002, 283, F473-F480.	2.7	27
33	Approximate entropy and point correlation dimension of heart rate variability in healthy subjects. Integrative Psychological and Behavioral Science, 1998, 33, 315-320.	0.3	26
34	Is there a role for T-type Ca2+ channels in regulation of vasomotor tone in mesenteric arterioles?This article is part of a Special Issue on Information Transfer in the Microcirculation.. Canadian Journal of Physiology and Pharmacology, 2009, 87, 8-20.	1.4	26
35	Myocardial impulse propagation is impaired in right ventricular tissue of Zucker Diabetic Fatty (ZDF) rats. Cardiovascular Diabetology, 2013, 12, 19.	6.8	26
36	Renal blood flow, early distal sodium, and plasma renin concentrations during osmotic diuresis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R1268-R1276.	1.8	25

#	Article	IF	Citations
37	Role of connexin40 in the autoregulatory response of the afferent arteriole. American Journal of Physiology - Renal Physiology, 2012, 303, F855-F863.	2.7	24
38	Effect of renal nerve activity on tubular sodium and water reabsorption in dog kidneys as determined by the lithium clearance method. Acta Physiologica Scandinavica, 1986, 126, 251-257.	2.2	23
39	Cyanotic congenital heart disease and atherosclerosis. Heart, 2017, 103, 897-900.	2.9	23
40	Applicability of Cable Theory to Vascular Conducted Responses. Biophysical Journal, 2012, 102, 1352-1362.	0.5	21
41	Anti-arrhythmic Peptide N-3-(4-Hydroxyphenyl)propionyl Pro-Hyp-Gly-Ala-Gly-OH Reduces Dispersion of Action Potential Duration During Ischemia/Reperfusion in Rabbit Hearts. Journal of Cardiovascular Pharmacology, 2002, 40, 770-779.	1.9	20
42	Norepinephrine inhibits intercellular coupling in rat cardiomyocytes by ubiquitination of connexin43 gap junctions. Cell Communication and Adhesion, 2011, 18, 57-65.	1.0	20
43	Cellâ€"Cell Communication in the Kidney Microcirculation. Microcirculation, 2012, 19, 451-460.	1.8	20
44	Connexin mimetic peptides fail to inhibit vascular conducted calcium responses in renal arterioles. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R840-R847.	1.8	19
45	Connexin abundance in resistance vessels from the renal microcirculation in normoâ€•and hypertensive rats. Apmis, 2009, 117, 268-276.	2.0	19
46	The nephron-arterial network and its interactions. American Journal of Physiology - Renal Physiology, 2019, 316, F769-F784.	2.7	19
47	Tubuloglomerular feedback in Dahl rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R1561-R1569.	1.8	18
48	Increasing Gap Junctional Coupling: A Tool for Dissecting the Role of Gap Junctions. Journal of Membrane Biology, 2007, 216, 23-35.	2.1	18
49	Phosphatidylinositol-bisphosphate regulates intercellular coupling in cardiac myocytes. Pflugers Archiv European Journal of Physiology, 2008, 457, 303-313.	2.8	18
50	Glomerular Filtration Rate and Segmental Tubular Function in the Early Phase after Transplantation/Uninephrectomy in Recipients and Their Living-Related Kidney Donors. Clinical Science, 1994, 87, 519-523.	4.3	14
51	Dynamic cerebral autoregulation to induced blood pressure changes in human experimental and clinical sepsis. Clinical Physiology and Functional Imaging, 2016, 36, 490-496.	1.2	14
52	Long-term diet-induced hypertension in rats is associated with reduced expression and function of small artery SKCa, IKCa, and Kir2.1 channels. Clinical Science, 2018, 132, 461-474.	4.3	14
53	Impaired free water excretion in child C cirrhosis and ascites: relations to distal tubular function and the vasopressin system. Liver International, 2010, 30, 1364-1370.	3.9	12
54	Chaos in a System of Interacting Nephrons. , 1987, , 23-32.		12

#	Article	IF	Citations
55	Expression and functional role of Lâ€type and Tâ€type calcium channels in conducted calcium responses to local KCl application in rat mesenteric terminal arterioles. FASEB Journal, 2007, 21, A519.	0.5	12
56	Compact and accurate linear and nonlinear autoregressive moving average model parameter estimation using Laguerre functions. Annals of Biomedical Engineering, 1997, 25, 731-738.	2.5	10
57	The dynamic cerebral autoregulatory adaptive response to noradrenaline is attenuated during systemic inflammation in humans. Clinical and Experimental Pharmacology and Physiology, 2015, 42, 740-746.	1.9	10
58	Angiotensin II does not acutely regulate conduction velocity in rat atrial tissue. Scandinavian Journal of Clinical and Laboratory Investigation, 2011, 71, 492-499.	1.2	7
59	Influence of connexin45 on renal autoregulation. American Journal of Physiology - Renal Physiology, 2020, 318, F732-F740.	2.7	7
60	Dynamic Cerebral Autoregulation after Cardiopulmonary Bypass. Thoracic and Cardiovascular Surgeon, 2016, 64, 569-574.	1.0	6
61	Estimation of the effective intercellular diffusion coefficient in cell monolayers coupled by gap junctions. European Journal of Pharmaceutical Sciences, 2012, 46, 222-232.	4.0	4
62	No apparent role for T-type Ca2+ channels in renal autoregulation. Pflugers Archiv European Journal of Physiology, 2016, 468, 541-550.	2.8	4
63	Lack of Connexins 40 and 45 Reduces Local and Conducted Vasoconstrictor Responses in the Murine Afferent Arterioles. Frontiers in Physiology, 2020, 11, 961.	2.8	4
64	Acute intramyocardial lipid accumulation in rats does not slow cardiac conduction per se. Physiological Reports, 2019, 7, e14049.	1.7	1
65	Myocardial infarction does not change Angiotensin II sensitivity of rat atria. FASEB Journal, 2006, 20, LB12.	0.5	0
66	Potassium as a renal vasodilator. FASEB Journal, 2007, 21, A501.	0.5	0
67	A mathematical model of tone in the structural remodeling of arterioles. FASEB Journal, 2007, 21, A494.	0.5	0
68	Connexin abundance in resistance vessels from the renal microcirculation in normo- and hypertensive rats. Apmis, 0, , no-no.	2.0	0
69	Diet-induced hypertension in rats is associated with increased renal vasoconstrictor response to angiotensin II after imitated endothelial dysfunction. Microvascular Research, 2022, 141, 104333.	2.5	0