Christopher J Garland

List of Publications by Year
in descending order

50 papers	2,732 citations	279701 23 h-index	315616 38 g-index
50 all docs	50 docs citations	50 times ranked	1594 citing authors

#	Article	IF	Citations
1	Endothelium-dependent hyperpolarization: a role in the control of vascular tone. Trends in Pharmacological Sciences, 1995, 16, 23-30.	4.0	432
2	Evidence that nitric oxide does not mediate the hyperpolarization and relaxation to acetylcholine in the rat small mesenteric artery. British Journal of Pharmacology, 1992, 105, 429-435.	2.7	323
3	Spatial separation of endothelial small- and intermediate-conductance calcium-activated potassium channels (KCa) and connexins: possible relationship to vasodilator function?. Journal of Anatomy, 2006, 209, 689-698.	0.9	209
4	Modulation of Endothelial Cell K _{Ca} 3.1 Channels During Endothelium-Derived Hyperpolarizing Factor Signaling in Mesenteric Resistance Arteries. Circulation Research, 2008, 102, 1247-1255.	2.0	198
5	Low intravascular pressure activates endothelial cell TRPV4 channels, local Ca ²⁺ events, and IK _{Ca} channels, reducing arteriolar tone. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18174-18179.	3.3	169
6	Rapid Endothelial Cellâ€“Selective Loading of Connexin 40 Antibody Blocks Endothelium-Derived Hyperpolarizing Factor Dilation in Rat Small Mesenteric Arteries. Circulation Research, 2005, 97, 399-407.	2.0	167
7	EDHF: spreading the influence of the endothelium. British Journal of Pharmacology, 2011, 164, 839-852.	2.7	158
8	Enhanced spontaneous Ca2+ events in endothelial cells reflect signalling through myoendothelial gap junctions in pressurized mesenteric arteries. Cell Calcium, 2008, 44, 135-146.	1.1	104
9	Evidence that different mechanisms underlie smooth muscle relaxation to nitric oxide and nitric oxide donors in the rabbit isolated carotid artery. British Journal of Pharmacology, 1998, 123, 1351-1358.	2.7	85
10	Differential effects of acetylcholine, nitric oxide and levcromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery. British Journal of Pharmacology, 1993, 110, 651-656.	2.7	78
11	Properties of smooth muscle hyperpolarization and relaxation to K⁺ in the rat isolated mesenteric artery. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H2424-H2429.	1.5	73
12	Contribution of both nitric oxide and a change in membrane potential to acetylcholineâ€induced relaxation in the rat small mesenteric artery. British Journal of Pharmacology, 1994, 112, 831-836.	2.7	71
13	Voltage-dependent Ca ²⁺ entry into smooth muscle during contraction promotes endothelium-mediated feedback vasodilation in arterioles. Science Signaling, 2017, 10, .	1.6	58
14	Multiple pathways underlying endotheliumâ€dependent relaxation in the rabbit isolated femoral artery. British Journal of Pharmacology, 1995, 115, 31-38.	2.7	54
15	Influence of contractile agonists on the mechanism of endotheliumâ€dependent relaxation in rat isolated mesenteric artery. British Journal of Pharmacology, 1996, 119, 191-193.	2.7	53
16	Possible Role for K + in Endothelium-Derived Hyperpolarizing Factorâ€“Linked Dilatation in Rat Middle Cerebral Artery. Stroke, 2005, 36, 1526-1532.	1.0	51
17	Characterization of muscarinic receptors mediating contractions of circular and longitudinal muscle of human isolated colon. British Journal of Pharmacology, 1995, 115, 1518-1524.	2.7	50
18	Interactions between endothelium-derived relaxing factors in the rat hepatic artery: focus on regulation of EDHF. British Journal of Pharmacology, 1998, 124, 992-1000.	2.7	49

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19	Evidence that potassium channels make a major contribution to SINâ€1â€evoked relaxation of rat isolated mesenteric artery. British Journal of Pharmacology, 1996, 119, 1557-1562.	2.7	45
20	Nitric Oxide Suppresses Cerebral Vasomotion by sGC-Independent Effects on Ryanodine Receptors and Voltage-Gated Calcium Channels. Journal of Vascular Research, 2010, 47, 93-107.	0.6	32
21	Involvement of cyclic GMP and potassium channels in relaxation evoked by the nitric oxide donor, diethylamine NONOate, in the rat small isolated mesenteric artery. Naunyn-Schmiedeberg's Archives of Pharmacology, 2001, 364, 220-225.	1.4	30
22	A Novel Role for HNO in Local and Spreading Vasodilatation in Rat Mesenteric Resistance Arteries. Antioxidants and Redox Signaling, 2011, 14, 1625-1635.	2.5	29
23	KCa channel blockers reveal hyperpolarization and relaxation to K+ in rat isolated mesenteric artery. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H606-H614.	1.5	27
24	Relaxation to authentic nitric oxide and SIN-1 in rat isolated mesenteric arteries: variable role for smooth muscle hyperpolarization. British Journal of Pharmacology, 2001, 133, 665-672.	2.7	23
25	Importance of inositol (1,4,5)â€trisphosphate, intracellular Ca²⁺ release and myofilament Ca²⁺ sensitization in 5â€hydroxytryptamineâ€evoked contraction of rabbit mesenteric artery. British Journal of Pharmacology, 1994, 111, 525-532.	2.7	21
26	Compromised vascular endothelial cell SK_{Ca} activity: a fundamental aspect of hypertension?. British Journal of Pharmacology, 2010, 160, 833-835.	2.7	20
27	Smooth muscle gap-junctions allow propagation of intercellular Ca2+ waves and vasoconstriction due to Ca2+ based action potentials in rat mesenteric resistance arteries. Cell Calcium, 2018, 75, 21-29.	1.1	18
28	Statins and Selective Inhibition of Rho Kinase Protect Small Conductance Calcium-Activated Potassium Channel Function (KCa2.3) in Cerebral Arteries. PLoS ONE, 2012, 7, e46735.	1.1	16
29	Hyperglycaemia disrupts conducted vasodilation in the resistance vasculature of db/db mice. Vascular Pharmacology, 2018, 103-105, 29-35.	1.0	15
30	Endothelium-Dependent Hyperpolarization: The Evolution of Myoendothelial Microdomains. Journal of Cardiovascular Pharmacology, 2021, 78, S3-S12.	0.8	13
31	Endothelial Nitric Oxide Suppresses Action-Potential-Like Transient Spikes and Vasospasm in Small Resistance Arteries. Hypertension, 2020, 76, 785-794.	1.3	12
32	Phospholemman Phosphorylation Regulates Vascular Tone, Blood Pressure, and Hypertension in Mice and Humans. Circulation, 2021, 143, 1123-1138.	1.6	12
33	Intrinsic regulation of microvascular tone by myoendothelial feedback circuits. Current Topics in Membranes, 2020, 85, 327-355.	0.5	11
34	Scaffolding Builds to Reduce Blood Pressure. Science Signaling, 2014, 7, pe16.	1.6	8
35	Vasorelaxation to the Nitroxyl Donor Isopropylamine NONOate in Resistance Arteries Does Not Require Perivascular Calcitonin Geneâ€“Related Peptide. Hypertension, 2017, 70, 587-593.	1.3	7
36	VEGFâ€A inhibits agonistâ€mediated Ca²⁺ responses and activation of IK_{Ca} channels in mouse resistance artery endothelial cells. Journal of Physiology, 2018, 596, 3553-3566.	1.3	6

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37	Spatial association of K Ca and gap junction connexins in rat mesenteric artery. FASEB Journal, 2006, 20, A275.	0.2	4
38	Alphaâ€1 Adrenergic Receptor Subtype Distribution in Small Resistance Arteries from Mouse and Rat. FASEB Journal, 2015, 29, 793.2.	0.2	1
39	Lack of synergism between flow and ATP in stimulating increases in vascular endothelial cell [Ca2+]i. FASEB Journal, 2006, 20, A669.	0.2	0
40	Nitric Oxide does not suppress myogenic tone by activating ryanodine sensitive stores in rat middle cerebral artery. FASEB Journal, 2007, 21, A1168.	0.2	0
41	Endothelial P2Y1 receptor desensitizes by protein kinase Câ€dependent mechanisms in rat small mesenteric arteries. FASEB Journal, 2008, 22, 636-636.	0.2	0
42	A novel approach for imaging calcium events simultaneously in arteriolar vascular smooth muscle and endothelial cells. FASEB Journal, 2012, 26, 676.6.	0.2	0
43	A novel role for spontaneous endothelial cell calcium activity in the vascular myogenic response. FASEB Journal, 2013, 27, 924.3.	0.2	0
44	The nonâ€neuronal cholinergic system: sources of vascular ACh. FASEB Journal, 2013, 27, 878.4.	0.2	0
45	A novel signalling role for NAADP in arterial smooth muscle. FASEB Journal, 2013, 27, 877.5.	0.2	0
46	Ca ²⁺ Influx Through Vascular Smooth Muscle Cell Voltageâ€Gated Ca ²⁺ Channels Increases Endothelial Cell Ca ²⁺ to Evoke Vasodilation. FASEB Journal, 2015, 29, 795.4.	0.2	0
47	Endogenous Acetylcholine Detected by Changes in [Ca ²⁺] _i Within Isolated Endothelial Cell Tubes. FASEB Journal, 2015, 29, 793.3.	0.2	0
48	Enhancing endothelial cell signaling in resistance arteries to reverse vasospasm. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO3-3-57.	0.0	0
49	Hyperglycaemia disrupts conducted vasodilation in the resistance vasculature of db/db mice. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO3-3-23.	0.0	0
50	Nerveâ€Mediated Responses in Isolated Myogenic and Nonâ€Myogenic Arteries. FASEB Journal, 2019, 33, 683.5.	0.2	0