

Paul Michel Georges Remi Vanhoutte

List of Publications by Year in descending order

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117
papers

6,137
citations

136740

32
h-index

71532

76
g-index

119
all docs

119
docs citations

119
times ranked

8500
citing authors

#	ARTICLE	IF	CITATIONS
1	Major histocompatibility complexes are upregulated in glomerular endothelial cells via activation of c-Jun N-terminal kinase in 5/6 nephrectomy mice. <i>British Journal of Pharmacology</i> , 2020, 177, 5131-5147.	2.7	10
2	The NO-donor MPC-1011 stimulates angiogenesis and arteriogenesis and improves hindlimb ischemia via a cGMP-dependent pathway involving VEGF and SDF-1 β . <i>Atherosclerosis</i> , 2020, 304, 30-38.	0.4	12
3	Deficiency of T-type voltage-gated calcium channels results in attenuated weight gain and improved endothelium-dependent dilatation of resistance vessels induced by a high-fat diet in mice. <i>Journal of Physiology and Biochemistry</i> , 2020, 76, 135-145.	1.3	5
4	Adipocyte fatty acid-binding protein exacerbates cerebral ischaemia injury by disrupting the blood-brain barrier. <i>European Heart Journal</i> , 2020, 41, 3169-3180.	1.0	54
5	Piezo Ion Channels in Cardiovascular Mechanobiology. <i>Trends in Pharmacological Sciences</i> , 2019, 40, 956-970.	4.0	114
6	Acute activation of endothelial AMPK surprisingly inhibits endothelium-dependent hyperpolarization-like relaxations in rat mesenteric arteries. <i>British Journal of Pharmacology</i> , 2019, 176, 2905-2921.	2.7	11
7	Assessment of Vascular Tone Responsiveness using Isolated Mesenteric Arteries with a Focus on Modulation by Perivascular Adipose Tissues. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	2
8	Endothelial muscarinic M ₃ receptors: A target?. <i>Acta Physiologica</i> , 2019, 226, e13273.	1.8	2
9	Endothelial SIRT1 prevents age-induced impairment of vasodilator responses by enhancing the expression and activity of soluble guanylyl cyclase in smooth muscle cells. <i>Cardiovascular Research</i> , 2019, 115, 678-690.	1.8	32
10	Deletion of Rap1 disrupts redox balance and impairs endothelium-dependent relaxations. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 115, 1-9.	0.9	10
11	Paeonol Attenuates LPS-Induced Endothelial Dysfunction and Apoptosis by Inhibiting BMP4 and TLR4 Signaling Simultaneously but Independently. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018, 364, 420-432.	1.3	33
12	Nitric Oxide: From Good to Bad. <i>Annals of Vascular Diseases</i> , 2018, 11, 41-51.	0.2	48
13	Deletion of T-type calcium channels Cav3.1 or Cav3.2 attenuates endothelial dysfunction in aging mice. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 355-365.	1.3	12
14	Periarterial fat from two human vascular beds is not a source of aldosterone to promote vasoconstriction. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F1670-F1682.	1.3	11
15	Circulating MicroRNAs in Young Patients with Acute Coronary Syndrome. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1467.	1.8	22
16	Activation of NQO-1 mediates the augmented contractions of isolated arteries due to biased activity of soluble guanylyl cyclase in their smooth muscle. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2018, 391, 1221-1235.	1.4	3
17	No Protective Effect of Constitutive Activation of AMPK in Endothelial Cells on Vascular Function in Aged Obese Mice but Augmented β 1-Adrenergic Contractions in Renal Arteries Reversible by Weight Loss. <i>Journal of Vascular Research</i> , 2018, 55, 189-202.	0.6	1
18	Low but not high frequency of intermittent hypoxia suppresses endothelium-dependent, oxidative stress-mediated contractions in carotid arteries of obese mice. <i>Journal of Applied Physiology</i> , 2018, 125, 1384-1395.	1.2	6

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19	Apolipoprotein E favours the blunting by high-fat diet of prostacyclin receptor activation in the mouse aorta. <i>British Journal of Pharmacology</i> , 2018, 175, 3453-3469.	2.7	9
20	EP4 emerges as a novel regulator of bile acid synthesis and its activation protects against hypercholesterolemia. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 1029-1040.	1.2	7
21	Prostaglandin E receptor subtype 4 regulates bile acid synthesis and its activation protects against hypercholesterolemia. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO3-6-11.	0.0	0
22	Biased activation of soluble guanylyl cyclase by quinones causes contractions of isolated arteries: Role of NADPH: quinone oxidoreductase-1. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO3-3-50.	0.0	0
23	Apolipoprotein E deletion protects prostacyclin receptor agonist-induced relaxations in mouse aorta. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO3-3-1.	0.0	0
24	Endothelial SIRT1 prevents age-induced impairment of vasodilator responses by enhancing the expression and activity of soluble guanylyl cyclase. <i>FASEB Journal</i> , 2018, 32, 837.3.	0.2	0
25	Endothelial overexpression of endothelin-1 modulates aortic, carotid, iliac and renal arterial responses in obese mice. <i>Acta Pharmacologica Sinica</i> , 2017, 38, 498-512.	2.8	9
26	Macro- and microvascular endothelial dysfunction in diabetes. <i>Journal of Diabetes</i> , 2017, 9, 434-449.	0.8	345
27	Biased activity of soluble guanylyl cyclase: the Janus face of thymoquinone. <i>Acta Pharmaceutica Sinica B</i> , 2017, 7, 401-408.	5.7	7
28	Measuring non-polyaminated lipocalin-2 for cardiometabolic risk assessment. <i>ESC Heart Failure</i> , 2017, 4, 563-575.	1.4	14
29	Inhibition of Vascular c-Jun N-Terminal Kinase 2 Improves Obesity-Induced Endothelial Dysfunction After Roux-Y Gastric Bypass. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	4
30	Endothelial SIRT1 prevents adverse arterial remodeling by facilitating HERC2-mediated degradation of acetylated LKB1. <i>Oncotarget</i> , 2016, 7, 39065-39081.	0.8	37
31	Endothelium dependent hyperpolarization-type relaxation compensates for attenuated nitric oxide-mediated responses in subcutaneous arteries of diabetic patients. <i>Nitric Oxide - Biology and Chemistry</i> , 2016, 53, 35-44.	1.2	27
32	<i>Akkermansia muciniphila</i> Protects Against Atherosclerosis by Preventing Metabolic Endotoxemia-Induced Inflammation in ApoE ^{-/-} Mice. <i>Circulation</i> , 2016, 133, 2434-2446.	1.6	529
33	Regenerated Endothelium and Its Senescent Response to Aggregating Platelets. <i>Circulation Journal</i> , 2016, 80, 783-790.	0.7	17
34	Thirty Years of Saying NO. <i>Circulation Research</i> , 2016, 119, 375-396.	2.0	320
35	Sodium nitrite exerts an antihypertensive effect and improves endothelial function through activation of eNOS in the SHR. <i>Scientific Reports</i> , 2016, 6, 33048.	1.6	34
36	Endothelium-Dependent Contractions of Isolated Arteries to Thymoquinone Require Biased Activity of Soluble Guanylyl Cyclase with Subsequent Cyclic IMP Production. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 358, 558-568.	1.3	14

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37	Toll-like receptors mediating vascular malfunction: Lessons from receptor subtypes. , 2016, 158, 91-100.		52
38	Reduced nitric oxide-mediated relaxation and endothelial nitric oxide synthase expression in the tail arteries of streptozotocin-induced diabetic rats. European Journal of Pharmacology, 2016, 773, 78-84.	1.7	16
39	Endothelial Lessons. Current Vascular Pharmacology, 2016, 14, 175-180.	0.8	5
40	Reduced activity of SKC and $Na^+K^+ATPase$ underlies the accelerated impairment of EDH -type relaxations in mesenteric arteries of aging spontaneously hypertensive rats. Pharmacology Research and Perspectives, 2015, 3, e00150.	1.1	23
41	Deficiency of adipocyte fatty-acid-binding protein alleviates myocardial ischaemia/reperfusion injury and diabetes-induced cardiac dysfunction. Clinical Science, 2015, 129, 547-559.	1.8	42
42	I_1 -Adrenoceptor activation of $PKC\mu$ causes heterologous desensitization of thromboxane receptors in the aorta of spontaneously hypertensive rats. British Journal of Pharmacology, 2015, 172, 3687-3701.	2.7	4
43	Kuala Lumpur Emerging in Vascular Biology. Journal of Cardiovascular Pharmacology, 2015, 65, 297-298.	0.8	0
44	$3,5$ -cAMP as Potential Second Messenger in the Vascular Wall. Handbook of Experimental Pharmacology, 2015, 238, 209-228.	0.9	8
45	Calorie Restriction Prevents Metabolic Aging Caused by Abnormal SIRT1 Function in Adipose Tissues. Diabetes, 2015, 64, 1576-1590.	0.3	32
46	Vanillin and Vanillin Analogs Relax Porcine Coronary and Basilar Arteries by Inhibiting L-Type Ca^{2+} Channels. Journal of Pharmacology and Experimental Therapeutics, 2015, 352, 14-22.	1.3	21
47	Sodium nitrite causes relaxation of the isolated rat aorta: By stimulating both endothelial NO synthase and activating soluble guanylyl cyclase in vascular smooth muscle. Vascular Pharmacology, 2015, 74, 87-92.	1.0	20
48	17β -estradiol potentiates endothelium-dependent nitric oxide- and hyperpolarization-mediated relaxations in blood vessels of male but not female apolipoprotein-E deficient mice. Vascular Pharmacology, 2015, 71, 166-173.	1.0	11
49	Des-aspartate angiotensin I (DAA-I) reduces endothelial dysfunction in the aorta of the spontaneously hypertensive rat through inhibition of angiotensin II-induced oxidative stress. Vascular Pharmacology, 2015, 71, 151-158.	1.0	8
50	Activation of prostaglandin E2-EP4 signaling reduces chemokine production in adipose tissue. Journal of Lipid Research, 2015, 56, 358-368.	2.0	26
51	Thymoquinone modulates nitric oxide production and improves organ dysfunction of sepsis. Life Sciences, 2015, 143, 131-138.	2.0	24
52	Vascular nitric oxide: Beyond eNOS. Journal of Pharmacological Sciences, 2015, 129, 83-94.	1.1	555
53	Rap1 induces cytokine production in pro-inflammatory macrophages through $NF\kappa B$ signaling and is highly expressed in human atherosclerotic lesions. Cell Cycle, 2015, 14, 3580-3592.	1.3	66
54	Mice lacking prostaglandin E receptor subtype 4 manifest disrupted lipid metabolism attributable to impaired triglyceride clearance. FASEB Journal, 2015, 29, 4924-4936.	0.2	26

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55	Thyroid hormone affects both endothelial and vascular smooth muscle cells in rat arteries. <i>European Journal of Pharmacology</i> , 2015, 747, 18-28.	1.7	33
56	Elevated pressure causes endothelial dysfunction in mouse carotid arteries by increasing local angiotensin signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H358-H363.	1.5	13
57	Cinnamaldehyde and cinnamaldehyde-containing micelles induce relaxation of isolated porcine coronary arteries: role of nitric oxide and calcium. <i>International Journal of Nanomedicine</i> , 2014, 9, 2557.	3.3	33
58	Uptake and Protective Effects of Ergothioneine in Human Endothelial Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 691-700.	1.3	45
59	cIMP synthesized by sGC as a mediator of hypoxic contraction of coronary arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H328-H336.	1.5	52
60	Endothelin XIII. <i>Life Sciences</i> , 2014, 118, 47-50.	2.0	4
61	PDE and sGC hand in hand to see the light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17704-17705.	3.3	1
62	Obesity and heterozygous endothelial overexpression of prepro-endothelin-1 modulate responsiveness of mouse main and segmental renal arteries to vasoconstrictor agents. <i>Life Sciences</i> , 2014, 118, 206-212.	2.0	12
63	End O' The Line Revisited: Moving on from nitric oxide to CGRP. <i>Life Sciences</i> , 2014, 118, 120-128.	2.0	30
64	Vascular smooth muscle cell apoptosis is an early trigger for hypothyroid atherosclerosis. <i>Cardiovascular Research</i> , 2014, 102, 448-459.	1.8	57
65	Prostaglandin I ₂ and Prostaglandin E ₂ Modulate Human Intrarenal Artery Contractility Through Prostaglandin E ₂ -EP4, Prostacyclin-IP, and Thromboxane A ₂ -TP Receptors. <i>Hypertension</i> , 2014, 64, 551-556.	1.3	39
66	Des-Arg9-bradykinin causes kinin B1 receptor mediated endothelium-independent contractions in endotoxin-treated porcine coronary arteries. <i>Pharmacological Research</i> , 2014, 90, 18-24.	3.1	16
67	Notoginsenoside Ft1 activates both glucocorticoid and estrogen receptors to induce endothelium-dependent, nitric oxide-mediated relaxations in rat mesenteric arteries. <i>Biochemical Pharmacology</i> , 2014, 88, 66-74.	2.0	27
68	Loss-of-SIRT1 function during vascular ageing: Hyperphosphorylation mediated by cyclin-dependent kinase 5. <i>Trends in Cardiovascular Medicine</i> , 2014, 24, 81-84.	2.3	47
69	Beta blockers, nitric oxide, and cardiovascular disease. <i>Current Opinion in Pharmacology</i> , 2013, 13, 265-273.	1.7	80
70	Upregulation of heme oxygenase-1 potentiates EDH-type relaxations in the mesenteric artery of the spontaneously hypertensive rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1471-H1483.	1.5	24
71	Serotonin: Beyond the Brain. <i>ACS Chemical Neuroscience</i> , 2013, 4, 26-27.	1.7	3
72	Airway epithelium-derived relaxing factor: myth, reality, or naivety?. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 304, C813-C820.	2.1	14

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73	Effects of manganese tetrakis (4-methylpyridyl) porphyrin (MnTMPyP) on dexmedetomidine-induced contractions in the aorta of normal and septic rats. <i>FASEB Journal</i> , 2013, 27, lb596.	0.2	0
74	Activation of α_1 adrenergic receptors causes thromboxane-prostanoid receptor desensitization in the aorta of the spontaneously hypertensive rat. <i>FASEB Journal</i> , 2013, 27, lb508.	0.2	0
75	Endogenous acetylcholine contributes to endothelium-dependent relaxations induced by mild hypothermia in the SHR aorta.. <i>FASEB Journal</i> , 2013, 27, lb600.	0.2	0
76	In Memoriam of John T. Shepherd, MD, DSc. <i>Circulation</i> , 2012, 125, 393-394.	1.6	1
77	Endothelium-Selective Activation of AMP-Activated Protein Kinase Prevents Diabetes Mellitus-Induced Impairment in Vascular Function and Reendothelialization via Induction of Heme Oxygenase-1 in Mice. <i>Circulation</i> , 2012, 126, 1267-1277.	1.6	72
78	SIRT1 enhances endothelium-dependent relaxation through an eNOS-independent mechanism. <i>FASEB Journal</i> , 2012, 26, 671.1.	0.2	0
79	Lipocalin α_2 mediates linoleic acid-induced endothelial dysfunction. <i>FASEB Journal</i> , 2012, 26, 840.9.	0.2	0
80	Reduction of contractions to phenylephrine by L-NAME in the carotid artery of mice with endothelial overexpression of endothelin-1. <i>FASEB Journal</i> , 2012, 26, 1129.5.	0.2	0
81	Thyroid hormone affects both endothelial and vascular smooth muscle cells in rat arteries. <i>FASEB Journal</i> , 2012, 26, 671.2.	0.2	0
82	Calcium sensitization underlies endothelium-dependent hypoxic augmentation in the porcine coronary artery. <i>FASEB Journal</i> , 2012, 26, 671.7.	0.2	0
83	Antioxidants N-acetylcysteine and Allopurinol synergistically enhance cardiac HIF α_1 and heme oxygenase-1 and attenuate Postischemic Myocardial Injury in Diabetic Rats. <i>FASEB Journal</i> , 2012, 26, 1114.3.	0.2	0
84	Endothelial NOS-independent release of nitric oxide in the aorta of the spontaneously hypertensive rat. <i>FASEB Journal</i> , 2012, 26, 840.1.	0.2	0
85	In vivo administration of LPS reduces dexmedetomidine-induced contraction in isolated rat aortae. <i>FASEB Journal</i> , 2012, 26, 840.7.	0.2	0
86	Lipocalin α_2 mediated myocardial extracellular matrix remodeling is correlated with Akt/P38 activity in hearts. <i>FASEB Journal</i> , 2012, 26, 1114.4.	0.2	0
87	Cocaine-induced release of noradrenaline in rat tail artery. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 34, 134-136.	1.2	14
88	Endothelium-mediated control of vascular tone: COX-1 and COX-2 products. <i>British Journal of Pharmacology</i> , 2011, 164, 894-912.	2.7	304
89	Endothelium-Dependent Contractions in Hypertension. <i>Hypertension</i> , 2011, 57, 526-531.	1.3	89
90	Secretoneurin facilitates endothelium-dependent relaxations in porcine coronary arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1159-H1165.	1.5	13

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91	Regeneration of the Endothelium in Vascular Injury. Cardiovascular Drugs and Therapy, 2010, 24, 299-303.	1.3	47
92	Foreword. Advances in Pharmacology, 2010, 60, xiii-xiv.	1.2	1
93	Nitroglycerin Reduces TNF α Toxicity To Endothelial Cells but Compromises the Protective Effects of Propofol. FASEB Journal, 2010, 24, 959.9.	0.2	0
94	PKC β inhibitor ruboxistaurin prevents the increase of 15 $\text{-}\alpha$ - F_2 -isoprostane in the myocardium and plasma in Type 1 diabetic rats. FASEB Journal, 2010, 24, 572.1.	0.2	1
95	Beneficial Vascular Effect of A Nonselective PPAR Activator In Aorta of Spontaneously Hypertensive Rats. FASEB Journal, 2010, 24, 955.10.	0.2	0
96	Contractions Of The SHR Aorta To High Doses Of Epigallocatechin Gallate Are Due To Vasoconstrictor Prostanoids. FASEB Journal, 2010, 24, 960.2.	0.2	0
97	Ruboxistaurin attenuates hypertriglyceridemia in diabetic rats: Comparison with the antioxidant N α -acetylcysteine. FASEB Journal, 2010, 24, 572.5.	0.2	0
98	Nitric Oxide Synthase And Soluble Guanylyl Cyclase Activation Are Required For Hypoxic Endothelium-Dependent Contractions Of The Porcine Coronary Artery. FASEB Journal, 2010, 24, 957.2.	0.2	0
99	How We Learned to Say NO. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1156-1160.	1.1	65
100	Rho Kinase Inhibitors Prevent Endothelium-Dependent Contractions in the Rat Aorta. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 820-826.	1.3	31
101	Endothelial Dysfunction The First Step Toward Coronary Arteriosclerosis. Circulation Journal, 2009, 73, 595-601.	0.7	414
102	L-Arginine Enhances Nitritative Stress and Exacerbates TNF α Toxicity in Endothelial Cells. FASEB Journal, 2009, 23, 936.2.	0.2	0
103	Endothelium-dependent contractions: when a good guy turns bad!. Journal of Physiology, 2008, 586, 5295-5304.	1.3	138
104	Nitric oxide the gatekeeper of endothelial vasomotor control. Frontiers in Bioscience - Landmark, 2008, Volume, 4198.	3.0	45
105	Effects of epoxyeicosatrienoic acids on volume-activated chloride channels via cyclic GMP pathway in rat mesenteric artery. FASEB Journal, 2008, 22, .	0.2	0
106	Up-regulation of the non-neurogenic cholinergic system in the aorta of spontaneously hypertensive rats. FASEB Journal, 2008, 22, 912.12.	0.2	0
107	Modulation of endothelium-dependent contractions by chronic inhibition of nitric oxide synthase in the rat aorta. FASEB Journal, 2008, 22, 1128.7.	0.2	0
108	Active metabolite of vitamin D acutely reduces endothelium-dependent contractions in the isolated SHR aorta. FASEB Journal, 2008, 22, 1128.6.	0.2	0

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109	Gap junctions and the transfer of reactive oxygen species during endothelium-dependent contractions. <i>FASEB Journal</i> , 2008, 22, 1128.13.	0.2	0
110	Endothelium-Derived Hyperpolarizing Factor. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 1215-1225.	1.1	420
111	Oxidative stress and cyclooxygenase-1 and 2 mediate the hyperresponsiveness of the smooth muscle of the femoral artery of streptozotocin-treated rats. <i>FASEB Journal</i> , 2006, 20, A663.	0.2	0
112	Genomic changes in porcine regenerated coronary endothelial cells after angioplasty. <i>FASEB Journal</i> , 2006, 20, A289.	0.2	0
113	Role of SKCa and IKCa in endothelium-dependent hyperpolarizations of the guinea-pig isolated carotid artery. <i>British Journal of Pharmacology</i> , 2005, 144, 477-485.	2.7	75
114	Endothelium-dependent contractions in hypertension. <i>British Journal of Pharmacology</i> , 2005, 144, 449-458.	2.7	250
115	Endothelium-dependent hyperpolarizations: the history. <i>Pharmacological Research</i> , 2004, 49, 503-508.	3.1	77
116	Endothelial Control of Vasomotor Function-From Health to Coronary Disease-. <i>Circulation Journal</i> , 2003, 67, 572-575.	0.7	119
117	EDHF: bringing the concepts together. <i>Trends in Pharmacological Sciences</i> , 2002, 23, 374-380.	4.0	731