

Robert Gros

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

3,828
citations

36
h-index

60
g-index

97
ext. papers

4,203
ext. citations

6.4
avg, IF

4.87
L-index

#	Paper	IF	Citations
89	A role for endoglin in coupling eNOS activity and regulating vascular tone revealed in hereditary hemorrhagic telangiectasia. <i>Circulation Research</i> , 2005 , 96, 684-92	15.7	207
88	Cardiomyocyte overexpression of iNOS in mice results in peroxynitrite generation, heart block, and sudden death. <i>Journal of Clinical Investigation</i> , 2002 , 109, 735-743	15.9	206
87	GPR30 expression is required for the mineralocorticoid receptor-independent rapid vascular effects of aldosterone. <i>Hypertension</i> , 2011 , 57, 442-51	8.5	185
86	G-protein-coupled receptor kinase activity is increased in hypertension. <i>Journal of Clinical Investigation</i> , 1997 , 99, 2087-93	15.9	178
85	Cardiac function in mice lacking the glucagon-like peptide-1 receptor. <i>Endocrinology</i> , 2003 , 144, 2242-52	4.8	170
84	Aldosterone regulates vascular reactivity: short-term effects mediated by phosphatidylinositol 3-kinase-dependent nitric oxide synthase activation. <i>Circulation</i> , 2003 , 108, 2400-6	16.7	144
83	Conditional cardiac overexpression of endothelin-1 induces inflammation and dilated cardiomyopathy in mice. <i>Circulation</i> , 2004 , 109, 255-61	16.7	136
82	Aldosterone mediates its rapid effects in vascular endothelial cells through GPER activation. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 304, C532-40	5.4	122
81	G-Protein-coupled receptor kinase activity in hypertension : increased vascular and lymphocyte G-protein receptor kinase-2 protein expression. <i>Hypertension</i> , 2000 , 35, 38-42	8.5	118
80	Cardiomyocyte overexpression of iNOS in mice results in peroxynitrite generation, heart block, and sudden death. <i>Journal of Clinical Investigation</i> , 2002 , 109, 735-43	15.9	96
79	ChAT-ChR2-EYFP mice have enhanced motor endurance but show deficits in attention and several additional cognitive domains. <i>Journal of Neuroscience</i> , 2013 , 33, 10427-38	6.6	95
78	Estradiol-mediated ERK phosphorylation and apoptosis in vascular smooth muscle cells requires GPR 30. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 297, C1178-87	5.4	92
77	Naringenin prevents cholesterol-induced systemic inflammation, metabolic dysregulation, and atherosclerosis in Ldlr ^{-/-} mice. <i>Journal of Lipid Research</i> , 2013 , 54, 711-724	6.3	89
76	Fibroblast growth factor 9 delivery during angiogenesis produces durable, vasoresponsive microvessels wrapped by smooth muscle cells. <i>Nature Biotechnology</i> , 2011 , 29, 421-7	44.5	89
75	Conditional and targeted overexpression of vascular chymase causes hypertension in transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 7469-74	11.5	89
74	Regulation of cholinergic activity by the vesicular acetylcholine transporter. <i>Biochemical Journal</i> , 2013 , 450, 265-74	3.8	85
73	Plasma membrane calcium ATPase overexpression in arterial smooth muscle increases vasomotor responsiveness and blood pressure. <i>Circulation Research</i> , 2003 , 93, 614-21	15.7	75

72	Effects of age, gender, and blood pressure on myogenic responses of mesenteric arteries from C57BL/6 mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H380-8	5.2	68
71	Stress-inducible phosphoprotein 1 has unique cochaperone activity during development and regulates cellular response to ischemia via the prion protein. <i>FASEB Journal</i> , 2013 , 27, 3594-607	0.9	65
70	Non-neuronal cholinergic machinery present in cardiomyocytes offsets hypertrophic signals. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 206-16	5.8	64
69	Dysautonomia due to reduced cholinergic neurotransmission causes cardiac remodeling and heart failure. <i>Molecular and Cellular Biology</i> , 2010 , 30, 1746-56	4.8	64
68	Cardiomyocyte-secreted acetylcholine is required for maintenance of homeostasis in the heart. <i>FASEB Journal</i> , 2013 , 27, 5072-82	0.9	63
67	Phosphorylation-independent regulation of metabotropic glutamate receptor 5 desensitization and internalization by G protein-coupled receptor kinase 2 in neurons. <i>Journal of Biological Chemistry</i> , 2009 , 284, 23444-53	5.4	57
66	Impaired vasodilator function in hypertension: the role of alterations in receptor-G protein coupling. <i>Trends in Cardiovascular Medicine</i> , 1998 , 8, 297-305	6.9	53
65	Rapid effects of aldosterone on clonal human vascular smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 292, C788-94	5.4	51
64	PPAR α activation attenuates hepatic steatosis in Ldlr $^{-/-}$ mice by enhanced fat oxidation, reduced lipogenesis, and improved insulin sensitivity. <i>Journal of Lipid Research</i> , 2014 , 55, 1254-66	6.3	49
63	Adenylyl cyclase isoform-selective regulation of vascular smooth muscle proliferation and cytoskeletal reorganization. <i>Circulation Research</i> , 2006 , 99, 845-52	15.7	48
62	Raf Kinase Activation of Adenylyl Cyclases: Isoform-Selective Regulation. <i>Molecular Pharmacology</i> , 2004 , 66, 921-928	4.3	48
61	Cholinergic activity as a new target in diseases of the heart. <i>Molecular Medicine</i> , 2015 , 20, 527-37	6.2	47
60	Calcineurin-independent regulation of plasma membrane Ca $^{2+}$ ATPase-4 in the vascular smooth muscle cell cycle. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 285, C88-95	5.4	44
59	G-protein-coupled receptor kinase expression in hypertension. <i>Clinical Pharmacology and Therapeutics</i> , 1999 , 65, 545-51	6.1	43
58	A calmodulin-binding site on cyclin E mediates Ca $^{2+}$ -sensitive G1/s transitions in vascular smooth muscle cells. <i>Circulation Research</i> , 2006 , 98, 1273-81	15.7	42
57	Collagenase-resistant collagen promotes mouse aging and vascular cell senescence. <i>Aging Cell</i> , 2014 , 13, 121-30	9.9	41
56	Translational control by RGS2. <i>Journal of Cell Biology</i> , 2009 , 186, 755-65	7.3	39
55	Choreographing the adenylyl cyclase signalosome: sorting out the partners and the steps. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2012 , 385, 5-12	3.4	37

54	Conditional expression of a dominant-negative c-Myb in vascular smooth muscle cells inhibits arterial remodeling after injury. <i>Circulation Research</i> , 2003 , 92, 314-21	15.7	36
53	Nicotinamide Phosphoribosyltransferase in Smooth Muscle Cells Maintains Genome Integrity, Resists Aortic Medial Degeneration, and Is Suppressed in Human Thoracic Aortic Aneurysm Disease. <i>Circulation Research</i> , 2017 , 120, 1889-1902	15.7	34
52	G-protein estrogen receptor as a regulator of low-density lipoprotein cholesterol metabolism: cellular and population genetic studies. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 213-214	9.1	33
51	Unraveling the mechanisms underlying the rapid vascular effects of steroids: sorting out the receptors and the pathways. <i>British Journal of Pharmacology</i> , 2011 , 163, 1163-9	8.6	32
50	Forebrain Cholinergic Signaling Regulates Innate Immune Responses and Inflammation. <i>Frontiers in Immunology</i> , 2019 , 10, 585	8.4	28
49	A common hypofunctional genetic variant of GPER is associated with increased blood pressure in women. <i>British Journal of Clinical Pharmacology</i> , 2014 , 78, 1441-52	3.8	28
48	Aldosterone mediates metastatic spread of renal cancer via the G protein-coupled estrogen receptor (GPER). <i>FASEB Journal</i> , 2016 , 30, 2086-96	0.9	26
47	Cardiac acetylcholine inhibits ventricular remodeling and dysfunction under pathologic conditions. <i>FASEB Journal</i> , 2016 , 30, 688-701	0.9	25
46	Central stiffening in adulthood linked to aberrant aortic remodeling under suboptimal intrauterine conditions. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 301, R1731-7	3.2	25
45	Raf kinase activation of adenylyl cyclases: isoform-selective regulation. <i>Molecular Pharmacology</i> , 2004 , 66, 921-8	4.3	25
44	Vascular effects of aldosterone: sorting out the receptors and the ligands. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013 , 40, 916-21	3	24
43	Hyperactivity and attention deficits in mice with decreased levels of stress-inducible phosphoprotein 1 (STIP1). <i>DMM Disease Models and Mechanisms</i> , 2015 , 8, 1457-66	4.1	22
42	Delineating the receptor mechanisms underlying the rapid vascular contractile effects of aldosterone and estradiol. <i>Canadian Journal of Physiology and Pharmacology</i> , 2011 , 89, 655-63	2.4	22
41	Deletion of the vesicular acetylcholine transporter from pedunculopontine/laterodorsal tegmental neurons modifies gait. <i>Journal of Neurochemistry</i> , 2017 , 140, 787-798	6	21
40	Vascular beta-adrenoceptor-mediated responses in hypertension and ageing in rats. <i>Autonomic and Autacoid Pharmacology</i> , 1992 , 12, 389-401		21
39	Low birth weight followed by postnatal over-nutrition in the guinea pig exposes a predominant player in the development of vascular dysfunction. <i>Journal of Physiology</i> , 2014 , 592, 5429-43	3.9	19
38	Mice with selective elimination of striatal acetylcholine release are lean, show altered energy homeostasis and changed sleep/wake cycle. <i>Journal of Neurochemistry</i> , 2013 , 124, 658-69	6	18
37	Increased blood pressure and hyperdynamic cardiovascular responses in carriers of a common hyperfunctional variant of adenylyl cyclase 6. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 335, 451-7	4.7	17

36	GPER-independent effects of estrogen in rat aortic vascular endothelial cells. <i>Molecular and Cellular Endocrinology</i> , 2015 , 399, 60-8	4.4	16
35	GRK2 targeted knock-down results in spontaneous hypertension, and altered vascular GPCR signaling. <i>Journal of Biological Chemistry</i> , 2015 , 290, 5141-5155	5.4	16
34	The small GTPase Ral couples the angiotensin II type 1 receptor to the activation of phospholipase C-delta 1. <i>Molecular Pharmacology</i> , 2010 , 77, 388-95	4.3	16
33	Rapid vascular effects of steroids - a question of balance?. <i>Canadian Journal of Cardiology</i> , 2010 , 26 Suppl A, 22A-26A	3.8	16
32	New insights into the regulation of cAMP synthesis beyond GPCR/G protein activation: implications in cardiovascular regulation. <i>Life Sciences</i> , 2007 , 81, 267-71	6.8	16
31	Type I collagen cleavage is essential for effective fibrotic repair after myocardial infarction. <i>American Journal of Pathology</i> , 2011 , 179, 2189-98	5.8	15
30	Selective decrease of cholinergic signaling from pedunculo pontine and laterodorsal tegmental nuclei has little impact on cognition but markedly increases susceptibility to stress. <i>FASEB Journal</i> , 2019 , 33, 7018-7036	0.9	14
29	Nuclear 82-kDa choline acetyltransferase decreases amyloidogenic APP metabolism in neurons from APP/PS1 transgenic mice. <i>Neurobiology of Disease</i> , 2014 , 69, 32-42	7.5	12
28	The eIF2B-interacting domain of RGS2 protects against GPCR agonist-induced hypertrophy in neonatal rat cardiomyocytes. <i>Cellular Signalling</i> , 2014 , 26, 1226-34	4.9	12
27	Fibroblast Growth Factor 9 Imparts Hierarchy and Vasoreactivity to the Microcirculation of Renal Tumors and Suppresses Metastases. <i>Journal of Biological Chemistry</i> , 2015 , 290, 22127-42	5.4	11
26	Extent of Vascular Remodeling Is Dependent on the Balance Between Estrogen Receptor and G-Protein-Coupled Estrogen Receptor. <i>Hypertension</i> , 2016 , 68, 1225-1235	8.5	11
25	Pannexin 1 regulates adipose stromal cell differentiation and fat accumulation. <i>Scientific Reports</i> , 2018 , 8, 16166	4.9	11
24	Isoform-specific regulation of adenylyl cyclase function by disruption of membrane trafficking. <i>Molecular Pharmacology</i> , 2005 , 67, 564-71	4.3	10
23	Increased enzyme activity and beta-adrenergic mediated vasodilation in subjects expressing a single-nucleotide variant of human adenylyl cyclase 6. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 2657-63	9.4	9
22	An analysis of the myocardial transcriptome in a mouse model of cardiac dysfunction with decreased cholinergic neurotransmission. <i>PLoS ONE</i> , 2012 , 7, e39997	3.7	8
21	Defective vasodilatory mechanisms in hypertension: a G-protein-coupled receptor perspective. <i>Current Opinion in Nephrology and Hypertension</i> , 2006 , 15, 135-40	3.5	8
20	Modulation of hippocampal neuronal resilience during aging by the Hsp70/Hsp90 co-chaperone STI1. <i>Journal of Neurochemistry</i> , 2020 , 153, 727-758	6	8
19	Cardiac-specific inducible overexpression of human plasma membrane Ca ATPase 4b is cardioprotective and improves survival in mice following ischemic injury. <i>Clinical Science</i> , 2018 , 132, 641-654	6.5	7

18	GRK2 knockdown in mice exacerbates kidney injury and alters renal mechanisms of blood pressure regulation. <i>Scientific Reports</i> , 2018 , 8, 11415	4.9	7
17	Regulator of G-protein signaling-2 as a candidate gene: the road to hypertension or just another roadside marker?. <i>Hypertension</i> , 2006 , 47, 337-8	8.5	7
16	The impact of blunted beta-adrenergic responsiveness on growth regulatory pathways in hypertension. <i>Molecular Pharmacology</i> , 2006 , 69, 317-27	4.3	7
15	Identification of a dysfunctional missense single nucleotide variant of human adenylyl cyclase VI. <i>Clinical Pharmacology and Therapeutics</i> , 2005 , 77, 271-8	6.1	5
14	Ablation of both Cx40 and Panx1 results in similar cardiovascular phenotypes exhibited in Cx40 knockout mice. <i>Bioscience Reports</i> , 2019 , 39,	4.1	4
13	Response. <i>FASEB Journal</i> , 2014 , 28, 2-3	0.9	4
12	Translation of Cardiovascular Animal Models to Human Randomized Trials. <i>American Journal of Cardiology</i> , 2020 , 137, 141	3	3
11	Proteinase-Activated Receptor 4 Activation Triggers Cell Membrane Blebbing through RhoA and -Arrestin. <i>Molecular Pharmacology</i> , 2020 , 97, 365-376	4.3	2
10	Choreographing the rapid vascular effects of estrogen: sorting out the partners and the steps. <i>Hypertension</i> , 2007 , 49, 1222-4	8.5	2
9	Changes in aortic reactivity associated with the loss of equilibrative nucleoside transporter 1 (ENT1) in mice. <i>PLoS ONE</i> , 2018 , 13, e0207198	3.7	2
8	Proteinase-Activated Receptor 4 (PAR4) Activation Triggers Cell Membrane Blebbing through RhoA and Arrestin		1
7	Striatal Acetylcholine Helps to Preserve Functional Outcomes in a Mouse Model of Stroke. <i>ASN Neuro</i> , 2020 , 12, 1759091420961612	5.3	1
6	From Cells-to-Organism: Impact of Dyslipidemia on Inwardly Rectifying K ⁺ Channels and Cerebral Vascular Function. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
5	Aldosterone mediates a mineralocorticoid receptor-mediated increase in prostate cancer cell migration. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
4	Decreased Abdominal Girth and Increased Blood Pressure Associated With a Single Nucleotide Variant of Human Adenylyl Cyclase 6. <i>FASEB Journal</i> , 2007 , 21, A795	0.9	
3	The role of GPR30 in mediating the rapid vascular effects of aldosterone and estrogen. <i>FASEB Journal</i> , 2008 , 22, 910.6	0.9	
2	Pannexin 1 and Pannexin 3 regulate body fat accumulation in mouse models of diet-induced obesity. <i>FASEB Journal</i> , 2019 , 33, 796.13	0.9	
1	Rapid vascular effects of estrogen and aldosterone on MAP kinase activation: A role for GPR30.. <i>FASEB Journal</i> , 2009 , 23, 941.13	0.9	

