

# Robert Gros

## List of Publications by Year in Descending Order

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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	Proteinase-Activated Receptor 4 Activation Triggers Cell Membrane Blebbing through RhoA and -Arrestin. <i>Molecular Pharmacology</i> , <b>2020</b> , 97, 365-376	4.3	2
88	From Cells-to-Organism: Impact of Dyslipidemia on Inwardly Rectifying K <sup>+</sup> Channels and Cerebral Vascular Function. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
87	Aldosterone mediates a mineralocorticoid receptor-mediated increase in prostate cancer cell migration. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
86	Modulation of hippocampal neuronal resilience during aging by the Hsp70/Hsp90 co-chaperone STI1. <i>Journal of Neurochemistry</i> , <b>2020</b> , 153, 727-758	6	8
85	Translation of Cardiovascular Animal Models to Human Randomized Trials. <i>American Journal of Cardiology</i> , <b>2020</b> , 137, 141	3	3
84	Striatal Acetylcholine Helps to Preserve Functional Outcomes in a Mouse Model of Stroke. <i>ASN Neuro</i> , <b>2020</b> , 12, 1759091420961612	5.3	1
83	Ablation of both Cx40 and Panx1 results in similar cardiovascular phenotypes exhibited in Cx40 knockout mice. <i>Bioscience Reports</i> , <b>2019</b> , 39,	4.1	4
82	Forebrain Cholinergic Signaling Regulates Innate Immune Responses and Inflammation. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 585	8.4	28
81	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> , <b>2019</b> , 33, 7018-7036	0.9	14
80	Pannexin 1 and Pannexin 3 regulate body fat accumulation in mouse models of diet-induced obesity. <i>FASEB Journal</i> , <b>2019</b> , 33, 796.13	0.9	
79	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> , <b>2018</b> , 132, 641-654	6.5	7
78	GRK2 knockdown in mice exacerbates kidney injury and alters renal mechanisms of blood pressure regulation. <i>Scientific Reports</i> , <b>2018</b> , 8, 11415	4.9	7
77	Changes in aortic reactivity associated with the loss of equilibrative nucleoside transporter 1 (ENT1) in mice. <i>PLoS ONE</i> , <b>2018</b> , 13, e0207198	3.7	2
76	Pannexin 1 regulates adipose stromal cell differentiation and fat accumulation. <i>Scientific Reports</i> , <b>2018</b> , 8, 16166	4.9	11
75	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> , <b>2017</b> , 120, 1889-1902	15.7	34
74	Deletion of the vesicular acetylcholine transporter from pedunculo pontine/laterodorsal tegmental neurons modifies gait. <i>Journal of Neurochemistry</i> , <b>2017</b> , 140, 787-798	6	21
73	Extent of Vascular Remodeling Is Dependent on the Balance Between Estrogen Receptor $\alpha$ and G-Protein-Coupled Estrogen Receptor. <i>Hypertension</i> , <b>2016</b> , 68, 1225-1235	8.5	11

72	Aldosterone mediates metastatic spread of renal cancer via the G protein-coupled estrogen receptor (GPER). <i>FASEB Journal</i> , <b>2016</b> , 30, 2086-96	0.9	26
71	Cardiac acetylcholine inhibits ventricular remodeling and dysfunction under pathologic conditions. <i>FASEB Journal</i> , <b>2016</b> , 30, 688-701	0.9	25
70	Fibroblast Growth Factor 9 Imparts Hierarchy and Vasoreactivity to the Microcirculation of Renal Tumors and Suppresses Metastases. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 22127-42	5.4	11
69	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> , <b>2015</b> , 35, 213-214	9.4	33
68	GPER-independent effects of estrogen in rat aortic vascular endothelial cells. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 399, 60-8	4.4	16
67	Hyperactivity and attention deficits in mice with decreased levels of stress-inducible phosphoprotein 1 (STIP1). <i>DMM Disease Models and Mechanisms</i> , <b>2015</b> , 8, 1457-66	4.1	22
66	GRK2 targeted knock-down results in spontaneous hypertension, and altered vascular GPCR signaling. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 5141-5155	5.4	16
65	Cholinergic activity as a new target in diseases of the heart. <i>Molecular Medicine</i> , <b>2015</b> , 20, 527-37	6.2	47
64	Nuclear 82-kDa choline acetyltransferase decreases amyloidogenic APP metabolism in neurons from APP/PS1 transgenic mice. <i>Neurobiology of Disease</i> , <b>2014</b> , 69, 32-42	7.5	12
63	Collagenase-resistant collagen promotes mouse aging and vascular cell senescence. <i>Aging Cell</i> , <b>2014</b> , 13, 121-30	9.9	41
62	PPAR $\alpha$ activation attenuates hepatic steatosis in Ldlr $^{-/-}$ mice by enhanced fat oxidation, reduced lipogenesis, and improved insulin sensitivity. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 1254-66	6.3	49
61	Response. <i>FASEB Journal</i> , <b>2014</b> , 28, 2-3	0.9	4
60	A common hypofunctional genetic variant of GPER is associated with increased blood pressure in women. <i>British Journal of Clinical Pharmacology</i> , <b>2014</b> , 78, 1441-52	3.8	28
59	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> , <b>2014</b> , 592, 5429-43	3.9	19
58	The eIF2B-interacting domain of RGS2 protects against GPCR agonist-induced hypertrophy in neonatal rat cardiomyocytes. <i>Cellular Signalling</i> , <b>2014</b> , 26, 1226-34	4.9	12
57	Vascular effects of aldosterone: sorting out the receptors and the ligands. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2013</b> , 40, 916-21	3	24
56	Naringenin prevents cholesterol-induced systemic inflammation, metabolic dysregulation, and atherosclerosis in Ldlr $^{0/0}$ mice. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 711-724	6.3	89
55	Stress-inducible phosphoprotein 1 has unique cochaperone activity during development and regulates cellular response to ischemia via the prion protein. <i>FASEB Journal</i> , <b>2013</b> , 27, 3594-607	0.9	65

54	Aldosterone mediates its rapid effects in vascular endothelial cells through GPER activation. <i>American Journal of Physiology - Cell Physiology</i> , <b>2013</b> , 304, C532-40	5.4	122
53	Mice with selective elimination of striatal acetylcholine release are lean, show altered energy homeostasis and changed sleep/wake cycle. <i>Journal of Neurochemistry</i> , <b>2013</b> , 124, 658-69	6	18
52	Regulation of cholinergic activity by the vesicular acetylcholine transporter. <i>Biochemical Journal</i> , <b>2013</b> , 450, 265-74	3.8	85
51	ChAT-ChR2-EYFP mice have enhanced motor endurance but show deficits in attention and several additional cognitive domains. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 10427-38	6.6	95
50	Cardiomyocyte-secreted acetylcholine is required for maintenance of homeostasis in the heart. <i>FASEB Journal</i> , <b>2013</b> , 27, 5072-82	0.9	63
49	Choreographing the adenylyl cyclase signalosome: sorting out the partners and the steps. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2012</b> , 385, 5-12	3.4	37
48	Non-neuronal cholinergic machinery present in cardiomyocytes offsets hypertrophic signals. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2012</b> , 53, 206-16	5.8	64
47	An analysis of the myocardial transcriptome in a mouse model of cardiac dysfunction with decreased cholinergic neurotransmission. <i>PLoS ONE</i> , <b>2012</b> , 7, e39997	3.7	8
46	Type I collagen cleavage is essential for effective fibrotic repair after myocardial infarction. <i>American Journal of Pathology</i> , <b>2011</b> , 179, 2189-98	5.8	15
45	Unraveling the mechanisms underlying the rapid vascular effects of steroids: sorting out the receptors and the pathways. <i>British Journal of Pharmacology</i> , <b>2011</b> , 163, 1163-9	8.6	32
44	Central stiffening in adulthood linked to aberrant aortic remodeling under suboptimal intrauterine conditions. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2011</b> , 301, R1731-7	3.2	25
43	Delineating the receptor mechanisms underlying the rapid vascular contractile effects of aldosterone and estradiol. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2011</b> , 89, 655-63	2.4	22
42	GPR30 expression is required for the mineralocorticoid receptor-independent rapid vascular effects of aldosterone. <i>Hypertension</i> , <b>2011</b> , 57, 442-51	8.5	185
41	Fibroblast growth factor 9 delivery during angiogenesis produces durable, vasoresponsive microvessels wrapped by smooth muscle cells. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 421-7	44.5	89
40	The small GTPase Ral couples the angiotensin II type 1 receptor to the activation of phospholipase C-delta 1. <i>Molecular Pharmacology</i> , <b>2010</b> , 77, 388-95	4.3	16
39	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> , <b>2010</b> , 335, 451-7	4.7	17
38	Dysautonomia due to reduced cholinergic neurotransmission causes cardiac remodeling and heart failure. <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 1746-56	4.8	64
37	Rapid vascular effects of steroids - a question of balance?. <i>Canadian Journal of Cardiology</i> , <b>2010</b> , 26 Suppl A, 22A-26A	3.8	16

36	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> , <b>2009</b> , 284, 23444-53	5.4	57
35	Translational control by RGS2. <i>Journal of Cell Biology</i> , <b>2009</b> , 186, 755-65	7.3	39
34	Estradiol-mediated ERK phosphorylation and apoptosis in vascular smooth muscle cells requires GPR 30. <i>American Journal of Physiology - Cell Physiology</i> , <b>2009</b> , 297, C1178-87	5.4	92
33	Rapid vascular effects of estrogen and aldosterone on MAP kinase activation: A role for GPR30.. <i>FASEB Journal</i> , <b>2009</b> , 23, 941.13	0.9	
32	The role of GPR30 in mediating the rapid vascular effects of aldosterone and estrogen. <i>FASEB Journal</i> , <b>2008</b> , 22, 910.6	0.9	
31	Rapid effects of aldosterone on clonal human vascular smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2007</b> , 292, C788-94	5.4	51
30	Choreographing the rapid vascular effects of estrogen: sorting out the partners and the steps. <i>Hypertension</i> , <b>2007</b> , 49, 1222-4	8.5	2
29	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> , <b>2007</b> , 27, 2657-63	9.4	9
28	New insights into the regulation of cAMP synthesis beyond GPCR/G protein activation: implications in cardiovascular regulation. <i>Life Sciences</i> , <b>2007</b> , 81, 267-71	6.8	16
27	Decreased Abdominal Girth and Increased Blood Pressure Associated With a Single Nucleotide Variant of Human Adenylyl Cyclase 6. <i>FASEB Journal</i> , <b>2007</b> , 21, A795	0.9	
26	Adenylyl cyclase isoform-selective regulation of vascular smooth muscle proliferation and cytoskeletal reorganization. <i>Circulation Research</i> , <b>2006</b> , 99, 845-52	15.7	48
25	A calmodulin-binding site on cyclin E mediates Ca <sup>2+</sup> -sensitive G1/s transitions in vascular smooth muscle cells. <i>Circulation Research</i> , <b>2006</b> , 98, 1273-81	15.7	42
24	Regulator of G-protein signaling-2 as a candidate gene: the road to hypertension or just another roadside marker?. <i>Hypertension</i> , <b>2006</b> , 47, 337-8	8.5	7
23	The impact of blunted beta-adrenergic responsiveness on growth regulatory pathways in hypertension. <i>Molecular Pharmacology</i> , <b>2006</b> , 69, 317-27	4.3	7
22	Defective vasodilatory mechanisms in hypertension: a G-protein-coupled receptor perspective. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2006</b> , 15, 135-40	3.5	8
21	Identification of a dysfunctional missense single nucleotide variant of human adenylyl cyclase VI. <i>Clinical Pharmacology and Therapeutics</i> , <b>2005</b> , 77, 271-8	6.1	5
20	A role for endoglin in coupling eNOS activity and regulating vascular tone revealed in hereditary hemorrhagic telangiectasia. <i>Circulation Research</i> , <b>2005</b> , 96, 684-92	15.7	207
19	Isoform-specific regulation of adenylyl cyclase function by disruption of membrane trafficking. <i>Molecular Pharmacology</i> , <b>2005</b> , 67, 564-71	4.3	10

18	Raf Kinase Activation of Adenylyl Cyclases: Isoform-Selective Regulation. <i>Molecular Pharmacology</i> , <b>2004</b> , 66, 921-928	4.3	48
17	Conditional cardiac overexpression of endothelin-1 induces inflammation and dilated cardiomyopathy in mice. <i>Circulation</i> , <b>2004</b> , 109, 255-61	16.7	136
16	Raf kinase activation of adenylyl cyclases: isoform-selective regulation. <i>Molecular Pharmacology</i> , <b>2004</b> , 66, 921-8	4.3	25
15	Plasma membrane calcium ATPase overexpression in arterial smooth muscle increases vasomotor responsiveness and blood pressure. <i>Circulation Research</i> , <b>2003</b> , 93, 614-21	15.7	75
14	Cardiac function in mice lacking the glucagon-like peptide-1 receptor. <i>Endocrinology</i> , <b>2003</b> , 144, 2242-52	4.8	170
13	Calcineurin-independent regulation of plasma membrane Ca <sup>2+</sup> ATPase-4 in the vascular smooth muscle cell cycle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2003</b> , 285, C88-95	5.4	44
12	Aldosterone regulates vascular reactivity: short-term effects mediated by phosphatidylinositol 3-kinase-dependent nitric oxide synthase activation. <i>Circulation</i> , <b>2003</b> , 108, 2400-6	16.7	144
11	Conditional expression of a dominant-negative c-Myb in vascular smooth muscle cells inhibits arterial remodeling after injury. <i>Circulation Research</i> , <b>2003</b> , 92, 314-21	15.7	36
10	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> , <b>2002</b> , 282, H380-8	5.2	68
9	Cardiomyocyte overexpression of iNOS in mice results in peroxynitrite generation, heart block, and sudden death. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 109, 735-743	15.9	206
8	Cardiomyocyte overexpression of iNOS in mice results in peroxynitrite generation, heart block, and sudden death. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 109, 735-43	15.9	96
7	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> , <b>2001</b> , 98, 7469-74	11.5	89
6	G-Protein-coupled receptor kinase activity in hypertension : increased vascular and lymphocyte G-protein receptor kinase-2 protein expression. <i>Hypertension</i> , <b>2000</b> , 35, 38-42	8.5	118
5	G-protein-coupled receptor kinase expression in hypertension. <i>Clinical Pharmacology and Therapeutics</i> , <b>1999</b> , 65, 545-51	6.1	43
4	Impaired vasodilator function in hypertension: the role of alterations in receptor-G protein coupling. <i>Trends in Cardiovascular Medicine</i> , <b>1998</b> , 8, 297-305	6.9	53
3	G-protein-coupled receptor kinase activity is increased in hypertension. <i>Journal of Clinical Investigation</i> , <b>1997</b> , 99, 2087-93	15.9	178
2	Vascular beta-adrenoceptor-mediated responses in hypertension and ageing in rats. <i>Autonomic and Autacoid Pharmacology</i> , <b>1992</b> , 12, 389-401		21
1	Proteinase-Activated Receptor 4 (PAR4) Activation Triggers Cell Membrane Blebbing through RhoA and Arrestin		1

