John C. McGrath

List of Publications by Year
in descending order

113 papers	9,360 citations	109321 35 h-index	37204 96 g-index
115 all docs	115 docs citations	115 times ranked	12455 citing authors

#	Article	IF	Citations
1	Guidelines for reporting experiments involving animals: the ARRIVE guidelines. British Journal of Pharmacology, 2010, 160, 1573-1576.	5.4	1,415
2	Implementing guidelines on reporting research using animals (<scp>ARRIVE</scp> etc.): new requirements for publication in <scp>BJP</scp>. British Journal of Pharmacology, 2015, 172, 3189-3193.	5.4	1,213
3	The IUPHAR/BPS Guide to PHARMACOLOGY in 2016: towards curated quantitative interactions between 1300 protein targets and 6000 ligands. Nucleic Acids Research, 2016, 44, D1054-D1068.	14.5	1,075
4	Experimental design and analysis and their reporting: new guidance for publication in <scp>BJP</scp>. British Journal of Pharmacology, 2015, 172, 3461-3471.	5.4	981
5	The IUPHAR/BPS Guide to PHARMACOLOGY: an expert-driven knowledgebase of drug targets and their ligands. Nucleic Acids Research, 2014, 42, D1098-D1106.	14.5	826
6	Evidence for more than one type of post-junctional Î±-Adrenoceptor. Biochemical Pharmacology, 1982, 31, 467-484.	4.4	409
7	GPCR Theme Editorial. British Journal of Pharmacology, 2009, 158, 1-4.	5.4	337
8	The Concise Guide to PHARMACOLOGY 2015/16: Overview. British Journal of Pharmacology, 2015, 172, 5729-5743.	5.4	220
9	The Concise Guide to PHARMACOLOGY 2013/14: Overview. British Journal of Pharmacology, 2013, 170, 1449-1458.	5.4	153
10	Controlled Hypertension, a Transgenic Toggle Switch Reveals Differential Mechanisms Underlying Vascular Disease. Journal of Biological Chemistry, 2001, 276, 36727-36733.	3.4	132
11	Role of Elastin in Spontaneously Hypertensive Rat Small Mesenteric Artery Remodelling. Journal of Physiology, 2003, 552, 185-195.	2.9	122
12	Fluorescent ligands, antibodies, and proteins for the study of receptors. , 2003, 100, 101-118.		114
13	Fluorescent ligands for the study of receptors. Trends in Pharmacological Sciences, 1996, 17, 393-399.	8.7	100
14	Post-traumatic growth in acquired brain injury: A preliminary small scale study. Brain Injury, 2006, 20, 767-773.	1.2	95
15	Hypotension, Autonomic Failure, and Cardiac Hypertrophy in Transgenic Mice Overexpressing the Î±1B-Adrenergic Receptor. Journal of Biological Chemistry, 2001, 276, 13738-13743.	3.4	92
16	Localization of the mouse Î±1A-adrenergic receptor (AR) in the brain: Î±1AAR is expressed in neurons, GABAergic interneurons, and NG2 oligodendrocyte progenitors. Journal of Comparative Neurology, 2006, 497, 209-222.	1.6	92
17	A knockout approach indicates a minor vasoconstrictor role for vascular Î± _{1B}-adrenoceptors in mouse. Physiological Genomics, 2002, 9, 85-91.	2.3	80
18	Fluorescent ligand binding reveals heterogeneous distribution of adrenoceptors and â€˜cannabinoidâ€likeâ€™ receptors in small arteries. British Journal of Pharmacology, 2010, 159, 787-796.	5.4	78

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19	New aspects of vascular remodelling: the involvement of all vascular cell types. Experimental Physiology, 2005, 90, 469-475.	2.0	77
20	Previously unsuspected widespread cellular and tissue distribution of Î²-adrenoceptors and its relevance to drug action. Trends in Pharmacological Sciences, 2011, 32, 219-226.	8.7	75
21	Fenestrations of the Carotid Internal Elastic Lamina and Structural Adaptation in Stroke-Prone Spontaneously Hypertensive Rats. Hypertension, 2001, 37, 1101-1107.	2.7	73
22	Cellular Aspects of Vascular Remodeling in Hypertension Revealed by Confocal Microscopy. Hypertension, 1997, 30, 1455-1464.	2.7	72
23	Direct demonstration of Î²₁â€•and evidence against Î²₂â€•and Î²₃â€adrenoceptors, in smooth muscle cells of rat small mesenteric arteries. British Journal of Pharmacology, 2005, 146, 679-691.	5.4	59
24	Mouse ?1B-adrenergic receptor is expressed in neurons and NG2 oligodendrocytes. Journal of Comparative Neurology, 2004, 478, 1-10.	1.6	53
25	Angiotensin-Converting Enzymeâ€“Independent Contraction to Angiotensin I in Human Resistance Arteries. Circulation, 1999, 99, 2914-2920.	1.6	50
26	Influence of elastin on rat small artery mechanical properties. Experimental Physiology, 2005, 90, 463-468.	2.0	47
27	Î²-Arrestin-Dependent Spontaneous Î±1a-Adrenoceptor Endocytosis Causes Intracellular Transportation of Î±-Blockers via Recycling Compartments. Molecular Pharmacology, 2005, 67, 992-1004.	2.3	42
28	Transparency in Research involving Animals: The Basel Declaration and new principles for reporting research in BJP manuscripts. British Journal of Pharmacology, 2015, 172, 2427-2432.	5.4	42
29	Confocal Microscopic Characterization of a Lesion in a Cerebral Vessel of the Stroke-Prone Spontaneously Hypertensive Rat. Stroke, 1996, 27, 1118-1123.	2.0	42
30	Î² ₂ -Adrenoceptor signaling in airway epithelial cells promotes eosinophilic inflammation, mucous metaplasia, and airway contractility. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9163-E9171.	7.1	41
31	The Use of Fluorescent Nuclear Dyes for the Study of Blood Vessel Structure and Function: Novel Applications of Existing Techniques. Journal of Vascular Research, 1992, 29, 41-48.	1.4	40
32	Î±_{1A/B}â€Knockout mice explain the native Î±_{1D}â€adrenoceptor's role in vasoconstriction and show that its location is independent of the other Î±₁â€subtypes. British Journal of Pharmacology, 2009, 158, 1663-1675.	5.4	40
33	Postnatal alterations in elastic fiber organization precede resistance artery narrowing in SHR. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H804-H812.	3.2	39
34	ARRIVE: new guidelines for reporting animal research. Journal of Physiology, 2010, 588, 2517-2517.	2.9	38
35	Cellular changes induced by chronic nitric oxide inhibition in intact rat basilar arteries revealed by confocal microscopy. Journal of Hypertension, 1997, 15, 1685-1693.	0.5	37
36	Drugs in Sport. British Journal of Pharmacology, 2008, 154, 493-495.	5.4	37

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37	Two â€œKnockoutâ€•Mouse Models Demonstrate That Aortic Vasodilatation Is Mediated via Î±2A-Adrenoceptors Located on the Endothelium. Journal of Pharmacology and Experimental Therapeutics, 2005, 314, 804-810.	2.5	36
38	Imaging the vascular wall using confocal microscopy. Journal of Physiology, 2007, 584, 5-9.	2.9	35
39	Angiotensin II Enhances Responses to Endothelin-1 in Bovine Bronchial Smooth Muscle. Pulmonary Pharmacology, 1994, 7, 409-413.	0.6	31
40	Sex-specific differences in cerebral arterial myogenic tone in hypertensive and normotensive rats. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1081-H1089.	3.2	31
41	Localization of Î±â€adrenoceptors: <scp>JR V</scp>ane <scp>M</scp>edal <scp>L</scp>ecture. British Journal of Pharmacology, 2015, 172, 1179-1194.	5.4	31
42	Functional characterization of Î±1 -adrenoceptor subtypes in human skeletal muscle resistance arteries. British Journal of Pharmacology, 2001, 133, 679-686.	5.4	30
43	V-shaped cushion at the origin of bovine pulmonary supernumerary arteries: structure and putative function. Journal of Applied Physiology, 1999, 87, 2348-2356.	2.5	29
44	Investigation of Î± 1 -adrenoceptor subtypes mediating vasoconstriction in rabbit cutaneous resistance arteries. British Journal of Pharmacology, 1997, 122, 825-832.	5.4	28
45	Characterisation of the effect of oxygen tension on response of fetal rabbit ductus arteriosus to vasodilators. Cardiovascular Research, 1993, 27, 2205-2211.	3.8	27
46	The role of Î±₂â€adrenoceptors in the vasculature of the rat tail. British Journal of Pharmacology, 1995, 114, 1724-1730.	5.4	27
47	Contractile Effects of Prostanoids on Fetal RabbitDuctus Arteriosus. Journal of Cardiovascular Pharmacology, 1995, 25, 113-118.	1.9	26
48	Insights into the functional roles of Î±₁â€adrenoceptor subtypes in mouse carotid arteries using knockout mice. British Journal of Pharmacology, 2005, 144, 558-565.	5.4	25
49	The Î±_{1B/D}â€adrenoceptor knockout mouse permits isolation of the vascular Î±_{1A}â€adrenoceptor and elucidates its relationship to the other subtypes. British Journal of Pharmacology, 2009, 158, 209-224.	5.4	25
50	Functional Reduction and Associated Cellular Rearrangement in SHRSP Rat Basilar Arteries Are Affected by Salt Load and Calcium Antagonist Treatment. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 517-527.	4.3	23
51	Increased Î±1- and Î±2-adrenoceptor-mediated contractile responses of human skeletal muscle resistance arteries in chronic limb ischemia. Cardiovascular Research, 2001, 49, 218-225.	3.8	21
52	Hepatocytes from Î± 1B -adrenoceptor knockout mice reveal compensatory adrenoceptor subtype substitution. British Journal of Pharmacology, 2004, 142, 1031-1037.	5.4	21
53	Endogenous Nitric Oxide Modulates Vasopressor Responses, but Not Depressor Responses, to Spinal Sympathetic Nerve Stimulation in Pithed Rats. Journal of Cardiovascular Pharmacology, 1994, 23, 319-325.	1.9	20
54	Modulation of the Effect of Atrial Natriuretic Peptide in Human and Bovine Bronchi by Phosphoramidon. Clinical Science, 1994, 86, 291-295.	4.3	20

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55	Impairment of Vasodilator Function in Basilar Arteries From Aged Rats. Stroke, 1997, 28, 1812-1820.	2.0	20
56	Mechanical and biochemical responses to endothelin-1 and endothelin-3 in human bronchi. European Journal of Pharmacology, 1994, 288, 53-60.	2.6	19
57	Inhibition of sympathetic transmission in rat heart by clonidine: The roles of stimulation frequency, endogenous feedback and noradrenaline re-uptake. Naunyn-Schmiedeberg's Archives of Pharmacology, 1979, 309, 225-233.	3.0	17
58	Inhibition of the oxygen-induced contraction of the isolated human umbilical artery by indomethacin, flurbiprofen, aspirin and drugs modifying Ca2+ disposition. Prostaglandins, 1988, 36, 711-729.	1.2	17
59	Prostaglandin E2 and Fetal Oxygen Tension Synergistically Inhibit Response of Isolated Fetal Rabbit Ductus Arteriosus to Norepinephrine. Journal of Cardiovascular Pharmacology, 1991, 17, 861-866.	1.9	17
60	P2Y receptor-mediated Ca2+signalling in cultured rat aortic smooth muscle cells. British Journal of Pharmacology, 1999, 126, 1660-1666.	5.4	16
61	Evidence for involvement of Î± 1D -adrenoceptors in contraction of femoral resistance arteries using knockout mice. British Journal of Pharmacology, 2005, 146, 942-951.	5.4	15
62	Î± 1A -Adrenoceptors mediate contractions to phenylephrine in rabbit penile arteries. British Journal of Pharmacology, 2007, 150, 112-120.	5.4	15
63	ARRIVE: new guidelines for reporting animal research. Experimental Physiology, 2010, 95, 841-841.	2.0	15
64	<scp>BJP</scp> is changing its requirements for scientific papers to increase transparency. British Journal of Pharmacology, 2015, 172, 2671-2674.	5.4	14
65	Do fluorescent drugs show you more than you wanted to know?. British Journal of Pharmacology, 2003, 139, 187-189.	5.4	13
66	The Use of Fluorescent Nuclear Dyes and Laser Scanning Confocal Microscopy to Study the Cellular Aspects of Arterial Remodelling in Human Subjects with Critical Limb Ischaemia. Experimental Physiology, 2003, 88, 547-554.	2.0	13
67	Statistics: all together now, one step at a time. Journal of Physiology, 2011, 589, 1859-1859.	2.9	13
68	The interaction of Î±â€human atrial natriuretic peptide (ANP) with salbutamol, sodium nitroprusside and isosorbide dinitrate in human bronchial smooth muscle. British Journal of Pharmacology, 1994, 113, 1328-1332.	5.4	12
69	Endothelium Dependent Relaxation in Rabbit Genital Resistance Arteries is Predominantly Mediated by Endothelial-Derived Hyperpolarizing Factor in Females and Nitric Oxide in Males. Journal of Urology, 2007, 177, 786-791.	0.4	11
70	Noradrenergic transmission. Nature, 1980, 288, 301-302.	27.8	10
71	Î±-Adrenoceptor agonists and the Ca2+-dependence of smooth muscle contraction: evidence for subtypes of receptors or for agonist-dependent differences in the agonist-receptor interaction?. Clinical Science, 1985, 68, 55s-63s.	0.0	10
72	Interactions between indomethacin, noradrenaline and vasodilators in the fetal rabbit ductus arteriosus. British Journal of Pharmacology, 1994, 111, 1245-1251.	5.4	10

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73	Chronic exposure to hypoxia attenuates contractile responses in rat airways in vitro: a possible role for nitric oxide. European Journal of Pharmacology, 1999, 385, 29-37.	3.5	10
74	Mechanical and biochemical responses to endothelinâ€1 and endothelinâ€3 in bovine bronchial smooth muscle. British Journal of Pharmacology, 1994, 111, 1163-1169.	5.4	9
75	Importance of Agonists in α-Adrenoceptor Classification and Localisation of α₁-Adrenoceptors in Human Prostate. European Urology, 1999, 36, 80-88.	1.9	9
76	5-Hydroxytryptamine- and U46619-mediated vasoconstriction in bovine pulmonary conventional and supernumerary arteries: effect of endogenous nitric oxide. Clinical Science, 2000, 98, 81.	4.3	9
77	Contractile responses of the human umbilical artery from pregnancies complicated by intrauterine growth retardation. Placenta, 1993, 14, 563-570.	1.5	8
78	BJP is linking its articles to the IUPHAR/BPS Guide to PHARMACOLOGY. British Journal of Pharmacology, 2015, 172, 2929-2932.	5.4	8
79	The Effect of Oxygen Tension on Responses Evoked by Methacholine and Bronchodilators in Bovine Isolated Bronchial Rings. Pulmonary Pharmacology, 1996, 9, 123-128.	0.6	7
80	NOS inhibition potentiates norepinephrine but not sympathetic nerve-mediated co-transmission in resistance arteries. Cardiovascular Research, 1999, 43, 762-771.	3.8	7
81	Structural and functional assessment of small arteries in patients with chronic heart failure. Clinical Science, 1999, 97, 671.	4.3	7
82	Î±_{1D}â€Adrenoceptors are responsible for the high sensitivity and the slow timeâ€course of noradrenalineâ€mediated contraction in conductance arteries. Pharmacology Research and Perspectives, 2013, 1, e00001.	2.4	7
83	Confocal myography for the study of hypertensive vascular remodelling. Clinical Hemorheology and Microcirculation, 2007, 37, 205-10.	1.7	7
84	Atrial natriuretic peptide counteracts the vasoconstrictor effects of 5-hydroxytryptamine, U46619 and endothelin-1 in the human umbilical artery. Placenta, 1994, 15, 715-720.	1.5	6
85	The Effect of Acute Alteration in Oxygen Tension on the Bronchodilator Response to Salbutamol in Vitro and in Vivo in Man. Pulmonary Pharmacology and Therapeutics, 2001, 14, 99-105.	2.6	6
86	The Î±1-adrenoceptor profile in human skeletal muscle resistance arteries in critical limb ischaemia. Cardiovascular Research, 2003, 57, 554-562.	3.8	6
87	Phosphorylation-independent internalisation and desensitisation of the human sphingosine-1-phosphate receptor S1P3. Cellular Signalling, 2005, 17, 997-1009.	3.6	6
88	Statistics: all together now, one step at a time. Experimental Physiology, 2011, 96, 481-482.	2.0	6
89	Î±,Î²-methylene ATP can potentiate as well as inhibit nerve mediated responses of rabbit blood vessels and guinea pig vas deferens. European Journal of Pharmacology, 1990, 183, 543-544.	3.5	5
90	The effect of ethanol on responses of the isolated rabbit ileocolic artery. European Journal of Pharmacology, 1992, 211, 1-8.	3.5	5

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91	Modelling and classification of vascular smooth muscle cell images. Electronics Letters, 2000, 36, 1532.	1.0	4
92	Changing the Oxygen Tension Alters the Ability of Bronchodilators to Protect Against Methacholine-induced Challenge in Bovine Isolated Bronchial Rings. Pulmonary Pharmacology and Therapeutics, 1997, 10, 51-60.	2.6	3
93	Enhanced noradrenergic transmission in the spontaneously hypertensive rat anococcygeus muscle. British Journal of Pharmacology, 2003, 140, 773-779.	5.4	3
94	Alterations in rabbit aorta induced by types I and II pyrethroids. Environmental Toxicology and Pharmacology, 2007, 23, 250-253.	4.0	3
95	2010 Re-launch of BJP. British Journal of Pharmacology, 2010, 159, 1-4.	5.4	3
96	Visualization and Analysis of Vascular Receptors Using Confocal Laser Scanning Microscopy and Fluorescent Ligands. Methods in Molecular Biology, 2012, 897, 95-107.	0.9	3
97	Interactions between Endothelin-1-induced Contractions and Bronchodilators in Human Isolated Bronchi. Clinical Science, 1997, 93, 527-533.	4.3	2
98	Alterations in vascular reactivity in isolated vessel segments from dogs with naturally occurring heart failure. Research in Veterinary Science, 1999, 67, 277-284.	1.9	2
99	The Effect of Chronic Hypoxia on Endothelin Receptor Subtype-mediated Responses in Rat Isolated Airways. Pulmonary Pharmacology and Therapeutics, 1999, 12, 203-213.	2.6	2
100	Continuity and change. British Journal of Pharmacology, 2009, 156, 1-3.	5.4	2
101	Endothelium in pharmacology: 30 years on. British Journal of Pharmacology, 2009, 157, 491-493.	5.4	2
102	Statistics: all together now, one step at a time. British Journal of Nutrition, 2011, 105, 1285-1286.	2.3	2
103	Statistics: all together now, one step at a time. American Journal of Physiology - Advances in Physiology Education, 2011, 35, 129-129.	1.6	2
104	26 Adenosine A1 receptor-mediated activation of AMP-activated protein kinase in bovine bronchial rings. Biochemical Society Transactions, 1997, 25, S576-S576.	3.4	1
105	The Role of the Î± 1B -Adrenergic Receptor in Vascular Structure and Function. Hypertension, 2005, 45, e20; author reply e20-1.	2.7	1
106	Statistics: all together now, one step at a time. British Journal of Pharmacology, 2011, 163, 207-207.	5.4	1
107	Comment from the Editorâ€inâ€Chief on correspondence in this issue on immunoâ€techniques. British Journal of Pharmacology, 2011, 163, 1111-1112.	5.4	1
108	Statistics: All Together Now, One Step at a Time. Microcirculation, 2011, 18, 312-312.	1.8	1

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109	Calling all pharmacologists with time to spare! We need you! Build the drug discovery knowledge base, GuidetoPharmacology.org. British Journal of Pharmacology, 2012, 167, 1393-1394.	5.4	1
110	Sir James Whyte Black OM. 14 June 1924â€"22 March 2010. Biographical Memoirs of Fellows of the Royal Society, 2021, 70, 23-40.	0.1	1
111	Simply removing pressure doesn't work, but youthful drug-taking prevents hereditary mid-life failure. Journal of Hypertension, 2007, 25, 55-56.	0.5	0
112	<scp>BJP</scp> goes online after 66 years on paper. British Journal of Pharmacology, 2013, 168, 1-1.	5.4	0
113	Neurohumoral regulation of vascular tone. , 2002, , 70-92.		0