

# John C. McGrath

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

9,360  
citations

109137

35  
h-index

37111

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. <i>British Journal of Pharmacology</i> , 2010, 160, 1573-1576.	2.7	1,415
2	Implementing guidelines on reporting research using animals (<scp>ARRIVE</scp> etc.): new requirements for publication in <scp>BJP</scp>. <i>British Journal of Pharmacology</i> , 2015, 172, 3189-3193.	2.7	1,213
3	The IUPHAR/BPS Guide to PHARMACOLOGY in 2016: towards curated quantitative interactions between 1300 protein targets and 6000 ligands. <i>Nucleic Acids Research</i> , 2016, 44, D1054-D1068.	6.5	1,075
4	Experimental design and analysis and their reporting: new guidance for publication in <scp>BJP</scp>. <i>British Journal of Pharmacology</i> , 2015, 172, 3461-3471.	2.7	981
5	The IUPHAR/BPS Guide to PHARMACOLOGY: an expert-driven knowledgebase of drug targets and their ligands. <i>Nucleic Acids Research</i> , 2014, 42, D1098-D1106.	6.5	826
6	Evidence for more than one type of post-junctional $\hat{\pm}$ -Adrenoceptor. <i>Biochemical Pharmacology</i> , 1982, 31, 467-484.	2.0	409
7	GPCR Theme Editorial. <i>British Journal of Pharmacology</i> , 2009, 158, 1-4.	2.7	337
8	The Concise Guide to PHARMACOLOGY 2015/16: Overview. <i>British Journal of Pharmacology</i> , 2015, 172, 5729-5743.	2.7	220
9	The Concise Guide to PHARMACOLOGY 2013/14: Overview. <i>British Journal of Pharmacology</i> , 2013, 170, 1449-1458.	2.7	153
10	Controlled Hypertension, a Transgenic Toggle Switch Reveals Differential Mechanisms Underlying Vascular Disease. <i>Journal of Biological Chemistry</i> , 2001, 276, 36727-36733.	1.6	132
11	Role of Elastin in Spontaneously Hypertensive Rat Small Mesenteric Artery Remodelling. <i>Journal of Physiology</i> , 2003, 552, 185-195.	1.3	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. <i>Trends in Pharmacological Sciences</i> , 1996, 17, 393-399.	4.0	100
14	Post-traumatic growth in acquired brain injury: A preliminary small scale study. <i>Brain Injury</i> , 2006, 20, 767-773.	0.6	95
15	Hypotension, Autonomic Failure, and Cardiac Hypertrophy in Transgenic Mice Overexpressing the $\hat{\pm}$ 1B-Adrenergic Receptor. <i>Journal of Biological Chemistry</i> , 2001, 276, 13738-13743.	1.6	92
16	Localization of the mouse $\hat{\pm}$ 1A-adrenergic receptor (AR) in the brain: $\hat{\pm}$ 1AAR is expressed in neurons, GABAergic interneurons, and NG2 oligodendrocyte progenitors. <i>Journal of Comparative Neurology</i> , 2006, 497, 209-222.	0.9	92
17	A knockout approach indicates a minor vasoconstrictor role for vascular $\hat{\pm}$ 1B-adrenoceptors in mouse. <i>Physiological Genomics</i> , 2002, 9, 85-91.	1.0	80
18	Fluorescent ligand binding reveals heterogeneous distribution of adrenoceptors and $\hat{\pm}$ cannabinoid $\hat{\pm}$ receptors in small arteries. <i>British Journal of Pharmacology</i> , 2010, 159, 787-796.	2.7	78

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19	New aspects of vascular remodelling: the involvement of all vascular cell types. <i>Experimental Physiology</i> , 2005, 90, 469-475.	0.9	77
20	Previously unsuspected widespread cellular and tissue distribution of $\beta_2$ -adrenoceptors and its relevance to drug action. <i>Trends in Pharmacological Sciences</i> , 2011, 32, 219-226.	4.0	75
21	Fenestrations of the Carotid Internal Elastic Lamina and Structural Adaptation in Stroke-Prone Spontaneously Hypertensive Rats. <i>Hypertension</i> , 2001, 37, 1101-1107.	1.3	73
22	Cellular Aspects of Vascular Remodeling in Hypertension Revealed by Confocal Microscopy. <i>Hypertension</i> , 1997, 30, 1455-1464.	1.3	72
23	Direct demonstration of $\beta_1$ - and evidence against $\beta_2$ - and $\beta_3$ -adrenoceptors, in smooth muscle cells of rat small mesenteric arteries. <i>British Journal of Pharmacology</i> , 2005, 146, 679-691.	2.7	59
24	Mouse $\beta_1$ -adrenergic receptor is expressed in neurons and NG2 oligodendrocytes. <i>Journal of Comparative Neurology</i> , 2004, 478, 1-10.	0.9	53
25	Angiotensin-Converting Enzyme-Independent Contraction to Angiotensin I in Human Resistance Arteries. <i>Circulation</i> , 1999, 99, 2914-2920.	1.6	50
26	Influence of elastin on rat small artery mechanical properties. <i>Experimental Physiology</i> , 2005, 90, 463-468.	0.9	47
27	$\beta_2$ -Arrestin-Dependent Spontaneous $\beta_1$ -Adrenoceptor Endocytosis Causes Intracellular Transportation of $\beta_1$ -Blockers via Recycling Compartments. <i>Molecular Pharmacology</i> , 2005, 67, 992-1004.	1.0	42
28	Transparency in Research involving Animals: The Basel Declaration and new principles for reporting research in BJP manuscripts. <i>British Journal of Pharmacology</i> , 2015, 172, 2427-2432.	2.7	42
29	Confocal Microscopic Characterization of a Lesion in a Cerebral Vessel of the Stroke-Prone Spontaneously Hypertensive Rat. <i>Stroke</i> , 1996, 27, 1118-1123.	1.0	42
30	$\beta_2$ -Adrenoceptor signaling in airway epithelial cells promotes eosinophilic inflammation, mucous metaplasia, and airway contractility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9163-E9171.	3.3	41
31	The Use of Fluorescent Nuclear Dyes for the Study of Blood Vessel Structure and Function: Novel Applications of Existing Techniques. <i>Journal of Vascular Research</i> , 1992, 29, 41-48.	0.6	40
32	$\beta_{1A/B}$ -knockout mice explain the native $\beta_{1D}$ -adrenoceptor's role in vasoconstriction and show that its location is independent of the other $\beta_1$ -subtypes. <i>British Journal of Pharmacology</i> , 2009, 158, 1663-1675.	2.7	40
33	Postnatal alterations in elastic fiber organization precede resistance artery narrowing in SHR. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H804-H812.	1.5	39
34	ARRIVE: new guidelines for reporting animal research. <i>Journal of Physiology</i> , 2010, 588, 2517-2517.	1.3	38
35	Cellular changes induced by chronic nitric oxide inhibition in intact rat basilar arteries revealed by confocal microscopy. <i>Journal of Hypertension</i> , 1997, 15, 1685-1693.	0.3	37
36	Drugs in Sport. <i>British Journal of Pharmacology</i> , 2008, 154, 493-495.	2.7	37



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55	Impairment of Vasodilator Function in Basilar Arteries From Aged Rats. <i>Stroke</i> , 1997, 28, 1812-1820.	1.0	20
56	Mechanical and biochemical responses to endothelin-1 and endothelin-3 in human bronchi. <i>European Journal of Pharmacology</i> , 1994, 288, 53-60.	2.7	19
57	Inhibition of sympathetic transmission in rat heart by clonidine: The roles of stimulation frequency, endogenous feedback and noradrenaline re-uptake. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1979, 309, 225-233.	1.4	17
58	Inhibition of the oxygen-induced contraction of the isolated human umbilical artery by indomethacin, flurbiprofen, aspirin and drugs modifying Ca <sup>2+</sup> disposition. <i>Prostaglandins</i> , 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. <i>Journal of Cardiovascular Pharmacology</i> , 1991, 17, 861-866.	0.8	17
60	P2Y receptor-mediated Ca <sup>2+</sup> signalling in cultured rat aortic smooth muscle cells. <i>British Journal of Pharmacology</i> , 1999, 126, 1660-1666.	2.7	16
61	Evidence for involvement of $\alpha_1D$ -adrenoceptors in contraction of femoral resistance arteries using knockout mice. <i>British Journal of Pharmacology</i> , 2005, 146, 942-951.	2.7	15
62	$\alpha_1A$ -Adrenoceptors mediate contractions to phenylephrine in rabbit penile arteries. <i>British Journal of Pharmacology</i> , 2007, 150, 112-120.	2.7	15
63	ARRIVE: new guidelines for reporting animal research. <i>Experimental Physiology</i> , 2010, 95, 841-841.	0.9	15
64	<sc>BJP</sc> is changing its requirements for scientific papers to increase transparency. <i>British Journal of Pharmacology</i> , 2015, 172, 2671-2674.	2.7	14
65	Do fluorescent drugs show you more than you wanted to know?. <i>British Journal of Pharmacology</i> , 2003, 139, 187-189.	2.7	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. <i>Experimental Physiology</i> , 2003, 88, 547-554.	0.9	13
67	Statistics: all together now, one step at a time. <i>Journal of Physiology</i> , 2011, 589, 1859-1859.	1.3	13
68	The interaction of $\alpha_1$ human atrial natriuretic peptide (ANP) with salbutamol, sodium nitroprusside and isosorbide dinitrate in human bronchial smooth muscle. <i>British Journal of Pharmacology</i> , 1994, 113, 1328-1332.	2.7	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. <i>Journal of Urology</i> , 2007, 177, 786-791.	0.2	11
70	Noradrenergic transmission. <i>Nature</i> , 1980, 288, 301-302.	13.7	10
71	$\alpha_1$ -Adrenoceptor agonists and the Ca <sup>2+</sup> -dependence of smooth muscle contraction: evidence for subtypes of receptors or for agonist-dependent differences in the agonist-receptor interaction?. <i>Clinical Science</i> , 1985, 68, 55s-63s.	0.0	10
72	Interactions between indomethacin, noradrenaline and vasodilators in the fetal rabbit ductus arteriosus. <i>British Journal of Pharmacology</i> , 1994, 111, 1245-1251.	2.7	10

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73	Chronic exposure to hypoxia attenuates contractile responses in rat airways in vitro: a possible role for nitric oxide. <i>European Journal of Pharmacology</i> , 1999, 385, 29-37.	1.7	10
74	Mechanical and biochemical responses to endothelin-1 and endothelin-3 in bovine bronchial smooth muscle. <i>British Journal of Pharmacology</i> , 1994, 111, 1163-1169.	2.7	9
75	Importance of Agonists in $\alpha$ -Adrenoceptor Classification and Localisation of $\alpha_1$ -Adrenoceptors in Human Prostate. <i>European Urology</i> , 1999, 36, 80-88.	0.9	9
76	5-Hydroxytryptamine- and U46619-mediated vasoconstriction in bovine pulmonary conventional and supernumerary arteries: effect of endogenous nitric oxide. <i>Clinical Science</i> , 2000, 98, 81.	1.8	9
77	Contractile responses of the human umbilical artery from pregnancies complicated by intrauterine growth retardation. <i>Placenta</i> , 1993, 14, 563-570.	0.7	8
78	BJP is linking its articles to the IUPHAR/BPS Guide to PHARMACOLOGY. <i>British Journal of Pharmacology</i> , 2015, 172, 2929-2932.	2.7	8
79	The Effect of Oxygen Tension on Responses Evoked by Methacholine and Bronchodilators in Bovine Isolated Bronchial Rings. <i>Pulmonary Pharmacology</i> , 1996, 9, 123-128.	0.5	7
80	NOS inhibition potentiates norepinephrine but not sympathetic nerve-mediated co-transmission in resistance arteries. <i>Cardiovascular Research</i> , 1999, 43, 762-771.	1.8	7
81	Structural and functional assessment of small arteries in patients with chronic heart failure. <i>Clinical Science</i> , 1999, 97, 671.	1.8	7
82	$\alpha_1$ -Adrenoceptors are responsible for the high sensitivity and the slow time-course of noradrenaline-mediated contraction in conductance arteries. <i>Pharmacology Research and Perspectives</i> , 2013, 1, e00001.	1.1	7
83	Confocal myography for the study of hypertensive vascular remodelling. <i>Clinical Hemorheology and Microcirculation</i> , 2007, 37, 205-10.	0.9	7
84	Atrial natriuretic peptide counteracts the vasoconstrictor effects of 5-hydroxytryptamine, U46619 and endothelin-1 in the human umbilical artery. <i>Placenta</i> , 1994, 15, 715-720.	0.7	6
85	The Effect of Acute Alteration in Oxygen Tension on the Bronchodilator Response to Salbutamol in Vitro and in Vivo in Man. <i>Pulmonary Pharmacology and Therapeutics</i> , 2001, 14, 99-105.	1.1	6
86	The $\alpha_1$ -adrenoceptor profile in human skeletal muscle resistance arteries in critical limb ischaemia. <i>Cardiovascular Research</i> , 2003, 57, 554-562.	1.8	6
87	Phosphorylation-independent internalisation and desensitisation of the human sphingosine-1-phosphate receptor S1P3. <i>Cellular Signalling</i> , 2005, 17, 997-1009.	1.7	6
88	Statistics: all together now, one step at a time. <i>Experimental Physiology</i> , 2011, 96, 481-482.	0.9	6
89	$\alpha_1$ -methylene ATP can potentiate as well as inhibit nerve mediated responses of rabbit blood vessels and guinea pig vas deferens. <i>European Journal of Pharmacology</i> , 1990, 183, 543-544.	1.7	5
90	The effect of ethanol on responses of the isolated rabbit ileocolic artery. <i>European Journal of Pharmacology</i> , 1992, 211, 1-8.	1.7	5

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91	Modelling and classification of vascular smooth muscle cell images. <i>Electronics Letters</i> , 2000, 36, 1532.	0.5	4
92	Changing the Oxygen Tension Alters the Ability of Bronchodilators to Protect Against Methacholine-induced Challenge in Bovine Isolated Bronchial Rings. <i>Pulmonary Pharmacology and Therapeutics</i> , 1997, 10, 51-60.	1.1	3
93	Enhanced noradrenergic transmission in the spontaneously hypertensive rat anococcygeus muscle. <i>British Journal of Pharmacology</i> , 2003, 140, 773-779.	2.7	3
94	Alterations in rabbit aorta induced by types I and II pyrethroids. <i>Environmental Toxicology and Pharmacology</i> , 2007, 23, 250-253.	2.0	3
95	2010 Re-launch of BJP. <i>British Journal of Pharmacology</i> , 2010, 159, 1-4.	2.7	3
96	Visualization and Analysis of Vascular Receptors Using Confocal Laser Scanning Microscopy and Fluorescent Ligands. <i>Methods in Molecular Biology</i> , 2012, 897, 95-107.	0.4	3
97	Interactions between Endothelin-1-induced Contractions and Bronchodilators in Human Isolated Bronchi. <i>Clinical Science</i> , 1997, 93, 527-533.	1.8	2
98	Alterations in vascular reactivity in isolated vessel segments from dogs with naturally occurring heart failure. <i>Research in Veterinary Science</i> , 1999, 67, 277-284.	0.9	2
99	The Effect of Chronic Hypoxia on Endothelin Receptor Subtype-mediated Responses in Rat Isolated Airways. <i>Pulmonary Pharmacology and Therapeutics</i> , 1999, 12, 203-213.	1.1	2
100	Continuity and change. <i>British Journal of Pharmacology</i> , 2009, 156, 1-3.	2.7	2
101	Endothelium in pharmacology: 30 years on. <i>British Journal of Pharmacology</i> , 2009, 157, 491-493.	2.7	2
102	Statistics: all together now, one step at a time. <i>British Journal of Nutrition</i> , 2011, 105, 1285-1286.	1.2	2
103	Statistics: all together now, one step at a time. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2011, 35, 129-129.	0.8	2
104	26 Adenosine A1 receptor-mediated activation of AMP-activated protein kinase in bovine bronchial rings. <i>Biochemical Society Transactions</i> , 1997, 25, S576-S576.	1.6	1
105	The Role of the $\beta_1$ -Adrenergic Receptor in Vascular Structure and Function. <i>Hypertension</i> , 2005, 45, e20; author reply e20-1.	1.3	1
106	Statistics: all together now, one step at a time. <i>British Journal of Pharmacology</i> , 2011, 163, 207-207.	2.7	1
107	Comment from the Editor-in-Chief on correspondence in this issue on immuno-techniques. <i>British Journal of Pharmacology</i> , 2011, 163, 1111-1112.	2.7	1
108	Statistics: All Together Now, One Step at a Time. <i>Microcirculation</i> , 2011, 18, 312-312.	1.0	1

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109	Calling all pharmacologists with time to spare! We need you! Build the drug discovery knowledge base, <a href="http://GuidetoPharmacology.org">GuidetoPharmacology.org</a> . <i>British Journal of Pharmacology</i> , 2012, 167, 1393-1394.	2.7	1
110	Sir James Whyte Black OM. 14 June 1924–22 March 2010. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2021, 70, 23-40.	0.1	1
111	Simply removing pressure doesn't work, but youthful drug-taking prevents hereditary mid-life failure. <i>Journal of Hypertension</i> , 2007, 25, 55-56.	0.3	0
112	<sc>BJP</sc> goes online after 66 years on paper. <i>British Journal of Pharmacology</i> , 2013, 168, 1-1.	2.7	0
113	Neurohumoral regulation of vascular tone. , 2002, , 70-92.		0