Gillian A Gray

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8667125/publications.pdf

Version: 2024-02-01

115 papers	6,336 citations	87723 38 h-index	69108 77 g-index
122 all docs	122 docs citations	122 times ranked	5787 citing authors

#	Article	IF	Citations
1	Targeting C-reactive protein for the treatment of cardiovascular disease. Nature, 2006, 440, 1217-1221.	13.7	621
2	Pathophysiological role of endothelin revealed by the first orally active endothelin receptor antagonist. Nature, 1993, 365, 759-761.	13.7	521
3	Pharmacological characterization of bosentan, a new potent orally active nonpeptide endothelin receptor antagonist. Journal of Pharmacology and Experimental Therapeutics, 1994, 270, 228-35.	1.3	497
4	The endothelin ETB receptor mediates both vasodilation and vasoconstriction in vivo. Biochemical and Biophysical Research Communications, 1992, 186, 867-873.	1.0	395
5	Loss of vascular responsiveness induced by endotoxin involves L-arginine pathway. American Journal of Physiology - Heart and Circulatory Physiology, 1990, 259, H1038-H1043.	1.5	191
6	Incubation with endotoxin activates the L-arginine pathway in vascular tissue. Biochemical and Biophysical Research Communications, 1990, 171, 562-568.	1.0	189
7	Deficiency of PDK1 in cardiac muscle results in heart failure and increased sensitivity to hypoxia. EMBO Journal, 2003, 22, 4666-4676.	3.5	166
8	Differential Effects of Angiotensin II on Cardiac Cell Proliferation and Intramyocardial Perivascular Fibrosis In Vivo. Circulation, 1998, 98, 2765-2773.	1.6	161
9	The endothelin system and its potential as a therapeutic target in cardiovascular disease. , 1996, 72, 109-148.		151
10	The effect of inhibitors of the <scp>l</scp>â€arginine/nitric oxide pathway on endotoxinâ€induced loss of vascular responsiveness in anaesthetized rats. British Journal of Pharmacology, 1991, 103, 1218-1224.	2.7	149
11	Single-cell transcriptome analyses reveal novel targets modulating cardiac neovascularization by resident endothelial cells following myocardial infarction. European Heart Journal, 2019, 40, 2507-2520.	1.0	149
12	Vasodilator Effects of Endothelin-Converting Enzyme Inhibition and Endothelin ET A Receptor Blockade in Chronic Heart Failure Patients Treated With ACE Inhibitors. Circulation, 1996, 94, 2131-2137.	1.6	148
13	Systemic Blockade of the Endothelin-B Receptor Increases Peripheral Vascular Resistance in Healthy Men. Hypertension, 1999, 33, 581-585.	1.3	141
14	Human Myocardial Pericytes: Multipotent Mesodermal Precursors Exhibiting Cardiac Specificity. Stem Cells, 2015, 33, 557-573.	1.4	132
15	The Role of Endothelin in Experimental Cerebral Vasospasm. Neurosurgery, 1995, 37, 78-86.	0.6	127
16	Evidence that an <scp>l</scp>â€arginine/nitric oxide dependent elevation of tissue cyclic GMP content is involved in depression of vascular reactivity by endotoxin. British Journal of Pharmacology, 1991, 103, 1047-1052.	2.7	126
17	Preventing local regeneration of glucocorticoids by 11Â-hydroxysteroid dehydrogenase type 1 enhances angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12165-12170.	3.3	109
18	Inducible but not constitutive production of nitric oxide by vascular smooth muscle cells. European Journal of Pharmacology, 1991, 200, 375-376.	1.7	93

#	Article	IF	Citations
19	Activation of endothelin ETA receptors masks the constrictor role of endothelin ETB receptors in rat isolated small mesenteric arteries. British Journal of Pharmacology, 1997, 120, 1376-1382.	2.7	93
20	Deletion of Endothelial Cell Endothelin B Receptors Does Not Affect Blood Pressure or Sensitivity to Salt. Hypertension, 2006, 48, 286-293.	1.3	92
21	Î±v integrins on mesenchymal cells regulate skeletal and cardiac muscle fibrosis. Nature Communications, 2017, 8, 1118.	5.8	81
22	Dependence of endotoxinâ€induced vascular hyporeactivity on extracellular <scp>l</scp>â€arginine. British Journal of Pharmacology, 1993, 108, 38-43.	2.7	80
23	MicroRNA-148b Targets the TGF-Î² Pathway to Regulate Angiogenesis and Endothelial-to-Mesenchymal Transition during Skin Wound Healing. Molecular Therapy, 2018, 26, 1996-2007.	3.7	67
24	Pulmonary diesel particulate increases susceptibility to myocardial ischemia/reperfusion injury via activation of sensory TRPV1 and Î²1 adrenoreceptors. Particle and Fibre Toxicology, 2014, 11, 12.	2.8	63
25	Increased vascular responsiveness to norepinephrine in rats with heart failure is endothelium dependent. Dissociation of basal and stimulated nitric oxide release.. Circulation, 1994, 89, 393-401.	1.6	62
26	Improved heart function follows enhanced inflammatory cell recruitment and angiogenesis in 11Î²HSD1-deficient mice post-MI. Cardiovascular Research, 2010, 88, 159-167.	1.8	61
27	Endothelial cell-specific ET_B receptor knockout: autoradiographic and histological characterisation and crucial role in the clearance of endothelin-1This article is one of a selection of papers published in the two-part special issue entitled 20 Years of Endothelin Research.. Canadian Journal of Physiology and Pharmacology, 2010, 88, 644-651.	0.7	61
28	Statistical considerations in reporting cardiovascular research. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H303-H313.	1.5	58
29	Are There Different ETB Receptors Mediating Constriction and Relaxation?. Journal of Cardiovascular Pharmacology, 1995, 26, S262-264.	0.8	56
30	Effects of Methylene Blue on Blood Pressure and Reactivity to Norepinephrine in Endotoxemic Rats. Journal of Cardiovascular Pharmacology, 1993, 21, 926-930.	0.8	51
31	The Aldosterone Synthase (CYP11B2) and 11Î²-Hydroxylase (CYP11B1) Genes Are Not Expressed in the Rat Heart. Endocrinology, 2005, 146, 5287-5293.	1.4	50
32	Oestrogen-mediated cardioprotection following ischaemia and reperfusion is mimicked by an oestrogen receptor (ER)Î± agonist and unaffected by an ERÎ² antagonist. Journal of Endocrinology, 2008, 197, 493-501.	1.2	46
33	Diesel exhaust particulate induces pulmonary and systemic inflammation in rats without impairing endothelial function ex vivo or in vivo. Particle and Fibre Toxicology, 2012, 9, 9.	2.8	46
34	Eosinophil Deficiency Promotes Aberrant Repair and Adverse Remodeling Following Acute Myocardial Infarction. JACC Basic To Translational Science, 2020, 5, 665-681.	1.9	46
35	Human urotensin II increases coronary perfusion pressure in the isolated rat heart. Life Sciences, 2001, 69, 175-180.	2.0	44
36	The adult murine heart has a sparse, phagocytically active macrophage population that expands through monocyte recruitment and adopts an â€˜M2â€™ phenotype in response to Th2 immunologic challenge. Immunobiology, 2015, 220, 924-933.	0.8	43

#	Article	IF	Citations
37	11Î²-HSD1 suppresses cardiac fibroblast CXCL2, CXCL5 and neutrophil recruitment to the heart post MI. Journal of Endocrinology, 2017, 233, 315-327.	1.2	42
38	Resident cells of the myocardium: more than spectators in cardiac injury, repair and regeneration. Current Opinion in Physiology, 2018, 1, 46-51.	0.9	42
39	In Vivo Pharmacology of Ro 46-2005, The First Synthetic Nonpeptide Endothelin Receptor Antagonist: Implications for Endothelin Physiology. Journal of Cardiovascular Pharmacology, 1993, 22, S377-S379.	0.8	40
40	Oestrogen and the cardiovascular system: the good, the bad and the puzzling. Trends in Pharmacological Sciences, 2001, 22, 152-156.	4.0	40
41	Prolonged effect of a novel S-nitrosated glyco-amino acid in endothelium-denuded rat femoral arteries: potential as a slow release nitric oxide donor drug. British Journal of Pharmacology, 1997, 122, 1617-1624.	2.7	39
42	Effects of calcium channel blockade on the aortic intima in spontaneously hypertensive rats.. Hypertension, 1993, 22, 569-576.	1.3	38
43	Highâ€resolution echocardiography in the assessment of cardiac physiology and disease in preclinical models. Experimental Physiology, 2013, 98, 629-644.	0.9	37
44	Inducible nitric oxide synthase-derived superoxide contributes to hypereactivity in small mesenteric arteries from a rat model of chronic heart failure. British Journal of Pharmacology, 2000, 131, 29-36.	2.7	36
45	Quantification of Macrophage-Driven Inflammation During Myocardial Infarction with ¹⁸F-LW223, a Novel TSPO Radiotracer with Binding Independent of the rs6971 Human Polymorphism. Journal of Nuclear Medicine, 2021, 62, 536-544.	2.8	31
46	An L-arginine-derived factor mediates endotoxin-induced vascular hyposensitivity to calcium. European Journal of Pharmacology, 1990, 191, 89-92.	1.7	30
47	Activation of the l-Arginine-Nitric Oxide Pathway Is Involved in Vascular Hyporeactivity Induced by Endotoxin. Journal of Cardiovascular Pharmacology, 1991, 17, S207-S212.	0.8	30
48	Cardiac GR and MR: From Development to Pathology. Trends in Endocrinology and Metabolism, 2016, 27, 35-43.	3.1	29
49	Cardiomyocyte and Vascular Smooth Muscle-Independent 11Î²-Hydroxysteroid Dehydrogenase 1 Amplifies Infarct Expansion, Hypertrophy, and the Development of Heart Failure After Myocardial Infarction in Male Mice. Endocrinology, 2016, 157, 346-357.	1.4	28
50	Getting to the heart of intracellular glucocorticoid regeneration: 11Î²-HSD1 in the myocardium. Journal of Molecular Endocrinology, 2017, 58, R1-R13.	1.1	28
51	Endotoxin-induced impairment of vascular reactivity in the pithed rat: role of arachidonic acid metabolites. Circulatory Shock, 1990, 31, 395-406.	0.6	25
52	Endothelium-derived hyperpolarizing factor and potassium use different mechanisms to induce relaxation of human subcutaneous resistance arteries. British Journal of Pharmacology, 2001, 133, 902-908.	2.7	23
53	Effect of endotoxin on circulating cyclic GMP in the rat. European Journal of Pharmacology, 1992, 212, 93-96.	1.7	22
54	Progression and regression of left ventricular hypertrophy and myocardial fibrosis in a mouse model of hypertension and concomitant cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 57.	1.6	21

#	Article	IF	Citations
55	Effect of dexamethasone on the onset and persistence of vascular hyporeactivity induced by E. coli lipopolysaccharide in rats. Circulatory Shock, 1993, 41, 103-12.	0.6	21
56	Forearm Vasoconstriction to Endothelin-1 Is Mediated by ETA and ETB Receptors In Vivo in Humans. Journal of Cardiovascular Pharmacology, 1995, 26, S40-43.	0.8	20
57	Medroxyprogesterone acetate inhibits the cardioprotective effect of estrogen in experimental ischemia-reperfusion injury. Menopause, 2006, 13, 80-86.	0.8	20
58	Cardiovascular risk in women: the impact of hormone replacement therapy and prospects for new therapeutic approaches. Expert Opinion on Pharmacotherapy, 2007, 8, 279-288.	0.9	20
59	Glucocorticoid receptor alters isovolumetric contraction and restrains cardiac fibrosis. Journal of Endocrinology, 2017, 232, 437-450.	1.2	20
60	Endotoxin-induced impairment of vasodepressor responses in the pithed rat. European Journal of Pharmacology, 1991, 204, 63-70.	1.7	18
61	Assessment of Spectral Doppler in Preclinical Ultrasound Using a Small-Size Rotating Phantom. Ultrasound in Medicine and Biology, 2013, 39, 1491-1499.	0.7	18
62	Immunolocalisation and activity of DDAH I and II in the heart and modification post-myocardial infarction. Acta Histochemica, 2010, 112, 413-423.	0.9	16
63	Acoustic Assessment of a Konjacâ€“Carrageenan Tissue-Mimicking Material at 5â€“60ÂMHz. Ultrasound in Medicine and Biology, 2014, 40, 2895-2902.	0.7	16
64	Preclinical models of myocardial infarction: from mechanism to translation. British Journal of Pharmacology, 2022, 179, 770-791.	2.7	16
65	Characterization of endothelin receptors mediating contraction of rabbit saphenous vein. American Journal of Physiology - Heart and Circulatory Physiology, 1994, 266, H959-H966.	1.5	15
66	Nitric oxide and gall-bladder motor function. Alimentary Pharmacology and Therapeutics, 1998, 12, 425-432.	1.9	15
67	Localization and function of ET-1 and ET receptors in small arteries post-myocardial infarction: Upregulation of smooth muscle ETB receptors that modulate contraction. British Journal of Pharmacology, 2000, 130, 1735-1744.	2.7	15
68	Manganese-Enhanced T₁ Mapping in the Myocardium of Normal and Infarcted Hearts. Contrast Media and Molecular Imaging, 2018, 2018, 1-13.	0.4	15
69	A Protocol for Improved Measurement of Arterial Flow Rate in Preclinical Ultrasound. Ultrasound International Open, 2015, 01, E46-E52.	0.3	14
70	miR-96 and miR-183 differentially regulate neonatal and adult postinfarct neovascularization. JCI Insight, 2020, 5, .	2.3	14
71	Investigation of the selectivity of Î±, Î²â€methylene ATP in inhibiting vascular responses of the rat in vivo and in vitro. British Journal of Pharmacology, 1990, 99, 820-824.	2.7	13
72	Influence of endothelium on induction of the L-arginine-nitric oxide pathway in rat aortas. American Journal of Physiology - Heart and Circulatory Physiology, 1993, 264, H1200-H1207.	1.5	13

#	Article	IF	Citations
73	Sarafotoxin 6c (S6c) Reduces Infarct Size and Preserves mRNA for the ETB Receptor in the Ischemic/Reperfused Myocardium of Anesthetized Rats. Journal of Cardiovascular Pharmacology, 2004, 44, 148-154.	0.8	13
74	Are there different ETB receptors mediating constriction and relaxation?. Journal of Cardiovascular Pharmacology, 1995, 26 Suppl 3, S262-4.	0.8	13
75	Bone marrow transplantation modulates tissue macrophage phenotype and enhances cardiac recovery after subsequent acute myocardial infarction. Journal of Molecular and Cellular Cardiology, 2016, 90, 120-128.	0.9	12
76	Enhanced monocyte recruitment and delayed alternative macrophage polarization accompanies impaired repair following myocardial infarction in C57BL/6 compared to BALB/c mice. Clinical and Experimental Immunology, 2019, 198, 83-93.	1.1	12
77	Constriction to ETB receptor agonists, BQ-3020 and sarafotoxin S6c, in human resistance and capacitance vessels in vivo. British Journal of Clinical Pharmacology, 2000, 50, 27-30.	1.1	11
78	Enhanced Angiogenic Capacity of Human Umbilical Vein Endothelial Cells From Women With Preeclampsia. Reproductive Sciences, 2011, 18, 374-382.	1.1	11
79	Imaging the healing murine myocardial infarct in vivo: ultrasound, magnetic resonance imaging and fluorescence molecular tomography. Experimental Physiology, 2013, 98, 606-613.	0.9	11
80	Transfer of hepatocellular microRNA regulates cytochrome P450 2E1 in renal tubular cells. EBioMedicine, 2020, 62, 103092.	2.7	11
81	Antenatal dexamethasone treatment transiently alters diastolic function in the mouse fetal heart. Journal of Endocrinology, 2019, 241, 279-292.	1.2	11
82	Manganese-enhanced T1 mapping to quantify myocardial viability: validation with 18F-fluorodeoxyglucose positron emission tomography. Scientific Reports, 2020, 10, 2018.	1.6	10
83	Optical projection tomography permits efficient assessment of infarct volume in the murine heart postmyocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H702-H710.	1.5	9
84	The Influence of the LINC00961/SPAAR Locus Loss on Murine Development, Myocardial Dynamics, and Cardiac Response to Myocardial Infarction. International Journal of Molecular Sciences, 2021, 22, 969.	1.8	9
85	Positron Emission Tomography Techniques to Measure Active Inflammation, Fibrosis and Angiogenesis: Potential for Non-invasive Imaging of Hypertensive Heart Failure. Frontiers in Cardiovascular Medicine, 2021, 8, 719031.	1.1	9
86	The hepatic compensatory response to elevated systemic sulfide promotes diabetes. Cell Reports, 2021, 37, 109958.	2.9	9
87	Therapeutic Potential of S-Nitrosothiols as Nitric Oxide Donor Drugs. Scottish Medical Journal, 1997, 42, 88-89.	0.7	8
88	Forearm vasoconstriction to endothelin-1 is mediated by ETA and ETB receptors in vivo in humans. Journal of Cardiovascular Pharmacology, 1995, 26 Suppl 3, S40-3.	0.8	8
89	Run for your life: exercise, oxidative stress and the ageing endothelium. Journal of Physiology, 2009, 587, 4137-4138.	1.3	7
90	Development and characterization of rodent cardiac phantoms: comparison with in vivo cardiac imaging. Magnetic Resonance Imaging, 2012, 30, 1186-1191.	1.0	7

#	Article	IF	Citations
91	Endothelin-1[1-31] is Not Elevated in Men with Chronic Heart Failure. Journal of Cardiovascular Pharmacology, 2004, 44, S96-S99.	0.8	6
92	Influence of scanning frequency and ultrasonic contrast agent on reproducibility of left ventricular measurements in the mouse. Journal of the American Society of Echocardiography, 2005, 18, 155-162.	1.2	6
93	Electrocardiogram-gated Kilohertz Visualisation (EKV) Ultrasound Allows Assessment of Neonatal Cardiac Structural and Functional Maturation and Longitudinal Evaluation of Regeneration After Injury. Ultrasound in Medicine and Biology, 2020, 46, 167-179.	0.7	6
94	A Nonradioactive Method for Localization of Endothelin Receptor mRNA In Situ. Journal of Cardiovascular Pharmacology, 1998, 31, S443-S446.	0.8	6
95	The Role of Endothelin in Experimental Cerebral Vasospasm. Neurosurgery, 1995, 37, 78???86.	0.6	6
96	Enhancement of the hypothermic response of mice to delta-9-tetrahydrocannabinol by subhypothermic doses of chlorpromazine and phentolamine. Neuropharmacology, 1987, 26, 229-235.	2.0	5
97	A tail of translational regulation. ELife, 2017, 6, .	2.8	5
98	Endothelin Receptors That Modulate Contraction of the Rat Fundus. Journal of Cardiovascular Pharmacology, 1995, 26, S126-129.	0.8	4
99	Biological sex themed section: Incorporating the female dimension into cardiovascular pharmacology. British Journal of Pharmacology, 2014, 171, 537-540.	2.7	4
100	Functional heterogeneity of large and small resistance arteries isolated from biopsies of subcutaneous fat. General Pharmacology, 2000, 35, 119-127.	0.7	3
101	Application of kt-BLAST acceleration to reduce cardiac MR imaging time in healthy and infarcted mice. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 201-210.	1.1	3
102	Are There Different ETB Receptors Mediating Constriction and Relaxation?. Journal of Cardiovascular Pharmacology, 1995, 26, S262-264.	0.8	3
103	Investigation of the Endothelin System in Experimental Heart Failure. , 2002, 206, 217-227.		2
104	Structural changes and cyclic GMP content of the aorta after calcium antagonism or angiotensin converting enzyme inhibition in renovascular hypertensive rats. Journal of Hypertension, 1995, 13, 731-7.	0.3	2
105	Regulation of the Myocardial Endothelin System by Angiotensin-II and Losartan. Journal of Cardiovascular Pharmacology, 2000, 36, S144-S147.	0.8	1
106	CARDIOVASCULAR PHENOTYPING OF MICE WITH TARGETED 11Î²-HYDROXYSTEROID DEHYDROGENASE TYPE 1 DELETION. Heart, 2012, 98, A4.2-A4.	1.2	1
107	Targeting the Main Anatomopathological Features in Animal Models of Myocardial Infarction. Journal of Comparative Pathology, 2020, 176, 33-38.	0.1	1
108	Forearm Vasoconstriction to Endothelin-1 Is Mediated by ETA and ETB Receptors In Vivo in Humans. Journal of Cardiovascular Pharmacology, 1995, 26, S40-43.	0.8	1

#	Article	IF	Citations
109	A ROLE FOR THE GLUCOCORTICOID RECEPTOR IN CARDIAC REMODELLING?. Heart, 2012, 98, A3.1-A3.	1.2	0
110	Advancing our understanding of the pathophysiology of cardiac disease using in vivo assessment of heart structure and function in rodent models. Experimental Physiology, 2013, 98, 599-600.	0.9	0
111	19â€...Sex Differences in Pathological Remodelling Caused by Cardiomyocyte/Vascular Smooth Muscle Glucocorticoid Receptor Defficiency. Heart, 2014, 100, A7.2-A7.	1.2	0
112	OP9â€...Single Cell RNA-sequencing reveals novel targets with a potential role in vascular regeneration in the ischaemic adult heart. , 2020, , .		0
113	Endothelin Antagonists: Novel Treatments for Hypertension?. , 1997, , 91-107.		0
114	Vascular Biology of the Endothelin System. , 1997, , 71-90.		0
115	Endothelin receptors that modulate contraction of the rat fundus. Journal of Cardiovascular Pharmacology, 1995, 26 Suppl 3, S126-9.	0.8	0