

Michael J Ryan

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,962
citations

185998

28
h-index

189595

50
g-index

102
all docs

102
docs citations

102
times ranked

3582
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathophysiology of hypertension during preeclampsia: linking placental ischemia with endothelial dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H541-H550.	1.5	432
2	Immune and Inflammatory Role in Renal Disease. , 2013, 3, 957-976.		254
3	Hypertension in Response to Autoantibodies to the Angiotensin II Type I Receptor (AT1-AA) in Pregnant Rats. Hypertension, 2009, 54, 905-909.	1.3	185
4	PPAR β Agonist Rosiglitazone Improves Vascular Function and Lowers Blood Pressure in Hypertensive Transgenic Mice. Hypertension, 2004, 43, 661-666.	1.3	184
5	Tumor Necrosis Factor- α Antagonist Etanercept Decreases Blood Pressure and Protects the Kidney in a Mouse Model of Systemic Lupus Erythematosus. Hypertension, 2010, 56, 643-649.	1.3	140
6	Angiotensin II-Induced Vascular Dysfunction Is Mediated by the AT 1A Receptor in Mice. Hypertension, 2004, 43, 1074-1079.	1.3	78
7	Placental ischemia in pregnant rats impairs cerebral blood flow autoregulation and increases blood-brain barrier permeability. Physiological Reports, 2014, 2, e12134.	0.7	75
8	Preventing Autoimmunity Protects Against the Development of Hypertension and Renal Injury. Hypertension, 2014, 64, 792-800.	1.3	75
9	Endothelial Dysfunction and Blood Pressure Variability in Selected Inbred Mouse Strains. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 42-48.	1.1	74
10	Rosiglitazone decreases blood pressure and renal injury in a female mouse model of systemic lupus erythematosus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R1282-R1289.	0.9	74
11	Renal vascular responses to CORM-A1 in the mouse. Pharmacological Research, 2006, 54, 24-29.	3.1	66
12	Oxidative Stress Promotes Hypertension and Albuminuria During the Autoimmune Disease Systemic Lupus Erythematosus. Hypertension, 2012, 59, 673-679.	1.3	66
13	Placebo-Controlled Trials of Covid-19 Vaccines " Why We Still Need Them. New England Journal of Medicine, 2021, 384, e2.	13.9	66
14	Hypertension and impaired vascular function in a female mouse model of systemic lupus erythematosus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R736-R742.	0.9	65
15	Young Investigator Award Lecture of the APS Water and Electrolyte Homeostasis Section, 2008: The pathophysiology of hypertension in systemic lupus erythematosus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R1258-R1267.	0.9	64
16	Insulin Resistance and Obesity in a Mouse Model of Systemic Lupus Erythematosus. Hypertension, 2006, 48, 988-993.	1.3	61
17	An Update on Immune System Activation in the Pathogenesis of Hypertension. Hypertension, 2013, 62, 226-230.	1.3	61
18	Reduced uterine perfusion pressure induces hypertension in the pregnant mouse. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R1353-R1357.	0.9	53

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19	National Heart, Lung, and Blood Institute Working Group Report on Salt in Human Health and Sickness. <i>Hypertension</i> , 2016, 68, 281-288.	1.3	48
20	Autoimmune Disease-Associated Hypertension. <i>Current Hypertension Reports</i> , 2019, 21, 10.	1.5	46
21	Impact of ovarian function on cardiovascular health in women: focus on hypertension. <i>International Journal of Women's Health</i> , 2014, 6, 131.	1.1	43
22	Altered whole kidney blood flow autoregulation in a mouse model of reduced \hat{I}^2 -ENaC. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, F285-F292.	1.3	41
23	Placental ischemia-induced increases in brain water content and cerebrovascular permeability: role of TNF- \hat{I}^{\pm} . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1425-R1431.	0.9	41
24	Blood pressure in a hypertensive mouse model of SLE is not salt-sensitive. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1281-R1285.	0.9	40
25	Understanding mechanisms of hypertension in systemic lupus erythematosus. <i>Therapeutic Advances in Cardiovascular Disease</i> , 2017, 11, 20-32.	1.0	38
26	Plasma Cell Depletion Attenuates Hypertension in an Experimental Model of Autoimmune Disease. <i>Hypertension</i> , 2018, 71, 719-728.	1.3	38
27	Placental Ischemia Impairs Middle Cerebral Artery Myogenic Responses in the Pregnant Rat. <i>Hypertension</i> , 2011, 58, 1126-1131.	1.3	35
28	Immunosuppression With Mycophenolate Mofetil Attenuates Hypertension in an Experimental Model of Autoimmune Disease. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	35
29	Hypertension in an experimental model of systemic lupus erythematosus occurs independently of the renal nerves. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R711-R719.	0.9	34
30	High Dietary Fat Promotes Visceral Obesity and Impaired Endothelial Function in Female Mice With Systemic Lupus Erythematosus. <i>Gender Medicine</i> , 2011, 8, 150-155.	1.4	29
31	Blood pressure and renal hemodynamic responses to acute angiotensin II infusion are enhanced in a female mouse model of systemic lupus erythematosus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1286-R1292.	0.9	27
32	17 \hat{I}^2 -Estradiol Protects Against the Progression of Hypertension During Adulthood in a Mouse Model of Systemic Lupus Erythematosus. <i>Hypertension</i> , 2014, 63, 616-623.	1.3	26
33	Preeclampsia: Linking Placental Ischemia with Maternal Endothelial and Vascular Dysfunction. , 2020, 11, 1315-1349.		26
34	Superimposed Preeclampsia Exacerbates Postpartum Renal Injury Despite Lack of Long-Term Blood Pressure Difference in the Dahl Salt-Sensitive Rat. <i>Hypertension</i> , 2019, 73, 650-658.	1.3	25
35	MicroRNA-21 ablation exacerbates aldosterone-mediated cardiac injury, remodeling, and dysfunction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1154-E1167.	1.8	24
36	Mechanisms of hypertension in autoimmune rheumatic diseases. <i>British Journal of Pharmacology</i> , 2019, 176, 1897-1913.	2.7	20

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37	Estrogen in Cardiovascular Disease during Systemic Lupus Erythematosus. <i>Clinical Therapeutics</i> , 2014, 36, 1901-1912.	1.1	19
38	Anti-CD3 antibody therapy attenuates the progression of hypertension in female mice with systemic lupus erythematosus. <i>Pharmacological Research</i> , 2017, 120, 252-257.	3.1	17
39	Pathophysiology of Cerebral Vascular Dysfunction in Pregnancy-Induced Hypertension. <i>Current Hypertension Reports</i> , 2019, 21, 52.	1.5	16
40	The glucagon-like peptide 1 receptor agonist liraglutide attenuates placental ischemia-induced hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H72-H77.	1.5	16
41	Expansion of regulatory T cells using low-dose interleukin-2 attenuates hypertension in an experimental model of systemic lupus erythematosus. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, F1274-F1284.	1.3	15
42	Does sex matter?: an update on the implementation of sex as a biological variable in research. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F329-F331.	1.3	15
43	The angiotensin II type I receptor contributes to impaired cerebral blood flow autoregulation caused by placental ischemia in pregnant rats. <i>Biology of Sex Differences</i> , 2019, 10, 58.	1.8	14
44	Pressure-induced constriction of the middle cerebral artery is abolished in TrpC6 knockout mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H42-H50.	1.5	14
45	Heme oxygenase-1 promotes migration and β -epithelial Na ⁺ channel expression in cytotrophoblasts and ischemic placentas. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R641-R646.	0.9	13
46	Autoimmunity: An Underlying Factor in the Pathogenesis of Hypertension. <i>Current Hypertension Reports</i> , 2014, 16, 424.	1.5	13
47	Impact of early life ovariectomy on blood pressure and body composition in a female mouse model of systemic lupus erythematosus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R990-R997.	0.9	12
48	Tumor necrosis factor- α impairs cerebral blood flow in pregnant rats: role of vascular β -epithelial Na ⁺ channel. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H1018-H1027.	1.5	12
49	Water and electrolyte homeostasis brings balance to physiology. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R481-R483.	0.9	11
50	Endothelial cell disruption drives increased blood-brain barrier permeability and cerebral edema in the Dahl SS/jr rat model of superimposed preeclampsia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H535-H548.	1.5	9
51	Curcumin attenuates autoimmunity and renal injury in an experimental model of systemic lupus erythematosus. <i>Physiological Reports</i> , 2020, 8, e14501.	0.7	8
52	Hypertension and endothelial dysfunction in the pristane model of systemic lupus erythematosus. <i>Physiological Reports</i> , 2021, 9, e14734.	0.7	8
53	Expression of Exogenous Epithelial Sodium Channel Beta Subunit in the Mouse Middle Cerebral Artery Increases Pressure-Induced Constriction. <i>American Journal of Hypertension</i> , 2021, 34, 1227-1235.	1.0	8
54	Interleukin-17 Reduces β ENaC via MAPK Signaling in Vascular Smooth Muscle Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2953.	1.8	7

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55	Blood pressure and albuminuria in a female mouse model of systemic lupus erythematosus: impact of long-term high salt consumption. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 319, R448-R454.	0.9	5
56	Temporal hemodynamic changes in a female mouse model of systemic lupus erythematosus. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F1074-F1085.	1.3	5
57	Angiotensin receptor and tumor necrosis factor- α activation contributes to glucose intolerance independent of systolic blood pressure in obese rats. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F1081-F1090.	1.3	4
58	Use of transgenic and knockout strategies in mice. <i>Seminars in Nephrology</i> , 2002, 22, 154-160.	0.6	4
59	Cyclophosphamide treatment for hypertension and renal injury in an experimental model of systemic lupus erythematosus. <i>Physiological Reports</i> , 2019, 7, e14059.	0.7	3
60	Immunological comparison of pregnant Dahl salt-sensitive and Sprague-Dawley rats commonly used to model characteristics of preeclampsia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R125-R138.	0.9	3
61	Have a heart: failure to increase GLP-1 caused by heart failure increases the risk of diabetes. <i>Clinical Science</i> , 2020, 134, 3119-3121.	1.8	3
62	Immune Mechanisms of Hypertension. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , 2013, 5, 1-86.	0.3	2
63	Human recombinant relaxin-2 does not attenuate hypertension or renal injury but exacerbates vascular dysfunction in a female mouse model of SLE. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H234-H242.	1.5	2
64	Sex as a biological variable in renal, metabolic, and cardiovascular physiology: eighteen years of leadership by the American Physiological Society. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 316, F615-F616.	1.3	2
65	Interleukin-17 induces hypertension but does not impair cerebrovascular function in pregnant rats. <i>Pregnancy Hypertension</i> , 2021, 24, 50-57.	0.6	2
66	Freedom isn't always free: immunoglobulin free light chains promote renal fibrosis. <i>Journal of Clinical Investigation</i> , 2019, 129, 2660-2662.	3.9	2
67	Soluble Flt-1 induces hypertension and vascular dysfunction in pregnant rats. <i>FASEB Journal</i> , 2008, 22, 969.3.	0.2	2
68	Single cell RNA sequencing reveals ferritin as a key mediator of autoimmune pre-disposition in a mouse model of systemic lupus erythematosus. <i>Scientific Reports</i> , 2021, 11, 24245.	1.6	2
69	Time to fiddle with your unpublished data. <i>Clinical Science</i> , 2021, 135, 101-103.	1.8	1
70	Hypertension and Impaired Vessel Function in a Mouse Model of Systemic Lupus Erythematosus. <i>FASEB Journal</i> , 2006, 20, A1191.	0.2	1
71	Oxidative Stress mediates soluble Flt-1 induced vascular dysfunction in pregnant rats. <i>FASEB Journal</i> , 2008, 22, 969.7.	0.2	1
72	Humoral immune system activation promotes the development of hypertension. <i>FASEB Journal</i> , 2013, 27, 906.4.	0.2	1

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73	Î²ENaC and ASIC2 associate in VSMCs to mediate pressure-induced constriction in the renal afferent arteriole. American Journal of Physiology - Renal Physiology, 2022, 322, F498-F511.	1.3	1
74	“Slow” Cardiovascular Risk in Type 2 Diabetics by Restricting Dietary Salt Intake. Hypertension, 2016, 67, 1124-1125.	1.3	0
75	Oxidative stress“call for papers. Clinical Science, 2017, 131, 139-140.	1.8	0
76	Upregulation of Epithelial Na + Channel Beta Subunit in Isolated Mouse Middle Cerebral Artery Enhances Pressure-Induced Constriction. FASEB Journal, 2021, 35, .	0.2	0
77	Dynamic renal autoregulation in conscious, freely moving mice. FASEB Journal, 2008, 22, 969.23.	0.2	0
78	Rosiglitazone Decreases Blood Pressure in Female Dahl Rats: Role of Nitric Oxide and Oxidative Stress. FASEB Journal, 2008, 22, 941.16.	0.2	0
79	Vascular Endothelial Growth Factor Improves Renal and Endothelial Function, and Normalizes Blood Pressure in Hypertensive Pregnant Rats.. FASEB Journal, 2009, 23, 969.9.	0.2	0
80	AT1-ANG II induced hypertension during pregnancy is associated with renal endothelial dysfunction and endothelin (ET-1) type A receptor activation.. FASEB Journal, 2009, 23, 805.2.	0.2	0
81	A Role For TNF-Î± in Hypertension During Systemic Lupus Erythematosus. FASEB Journal, 2009, 23, 968.3.	0.2	0
82	Renal nerves contribute to renal injury, but not hypertension, during chronic inflammatory disease. FASEB Journal, 2011, 25, 1078.5.	0.2	0
83	T lymphocytes promote autoimmune-associated hypertension. FASEB Journal, 2012, 26, 879.2.	0.2	0
84	Estrogen protects against hypertension during autoimmune mediated hypertension. FASEB Journal, 2012, 26, 880.3.	0.2	0
85	Etanercept improves glucose intolerance and dyslipidemia in insulin-resistant rats. FASEB Journal, 2013, 27, 1114.3.	0.2	0
86	17Î²-estradiol attenuates renal TNF-Î± and the progression of hypertension in mice with systemic lupus erythematosus. FASEB Journal, 2013, 27, 904.4.	0.2	0
87	Vascular smooth muscle specific deletion of the leptin receptor attenuates leptin-induced vascular dysfunction. FASEB Journal, 2013, 27, 1114.9.	0.2	0
88	Tumor Necrosis Factor induces cerebral edema and increased cerebrovascular permeability in normal pregnant rats. FASEB Journal, 2013, 27, 907.9.	0.2	0
89	MicroRNA-21 Ablation Exacerbates Aldosterone-Mediated Cardiac Injury, Remodeling and Dysfunction. FASEB Journal, 2015, 29, 1037.3.	0.2	0
90	MicroRNA-21 Overexpression Exacerbates Aldosterone-Mediated Renal Injury. FASEB Journal, 2018, 32, 584.4.	0.2	0

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91	An Atherogenic Diet Exacerbates Vascular Injury in an Experimental Model of Systemic lupus Erythematosus. FASEB Journal, 2018, 32, lb343.	0.2	0
92	TNF α Impairs Cerebral Blood Flow Autoregulation in Pregnant Rats. FASEB Journal, 2018, 32, 922.5.	0.2	0
93	Vascular Permeability is increased in Cerebral Arteries from the Dahl S Model of Superimposed Preeclampsia. FASEB Journal, 2018, 32, 911.8.	0.2	0
94	Preventing Autoantibody Production Improves Endothelial Function in an Experimental Model of Autoimmune Disease. FASEB Journal, 2019, 33, 836.6.	0.2	0
95	Recombinant Human Relaxin α 2 Treatment in an Experimental Female Mouse Model of Autoimmune Disease with Hypertension. FASEB Journal, 2019, 33, 574.2.	0.2	0
96	The GLP α 1 agonist liraglutide lowers blood pressure in a placental ischemic model of preeclampsia. FASEB Journal, 2019, 33, 574.7.	0.2	0
97	Cerebral Blood Flow Autoregulation in Hypertensive Models of Pregnancy. FASEB Journal, 2019, 33, 865.1.	0.2	0
98	Renal Hemodynamic Function is Impaired in Female Mice with SLE. FASEB Journal, 2019, 33, 573.1.	0.2	0
99	Pressure α induced Constriction of the Middle Cerebral Artery is Abolished in TrpC6 Knockout Mice. FASEB Journal, 2020, 34, 1-1.	0.2	0
100	Curcumin Improves Autoimmunity in Female Mice with SLE. FASEB Journal, 2020, 34, 1-1.	0.2	0
101	Epithelial Sodium Channels in Monocyte α Macrophage Migration and Regulation by Pro α inflammatory Cytokines TNF α and IFN α 3. FASEB Journal, 2022, 36, .	0.2	0
102	Is there a role of proinflammatory cytokines on degenerin α mediated cerebrovascular function in preeclampsia?. Physiological Reports, 2022, 10, .	0.7	0