Michael J Ryan

List of Publications by Citations

94 papers	2,311 citations	26 h-index	47 g-index
102 ext. papers	2,676 ext. citations	4.6 avg, IF	5.25 L-index

#	Paper	IF	Citations
94	Pathophysiology of hypertension during preeclampsia: linking placental ischemia with endothelial dysfunction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 294, H541-50	5.2	357
93	Immune and inflammatory role in renal disease. *Comprehensive Physiology*, **2013**, 3, 957-76	7.7	185
92	PPAR(gamma) agonist rosiglitazone improves vascular function and lowers blood pressure in hypertensive transgenic mice. *Hypertension*, **2004**, 43, 661-6	8.5	174
91	Hypertension in response to autoantibodies to the angiotensin II type I receptor (AT1-AA) in pregnant rats: role of endothelin-1. *Hypertension*, **2009**, 54, 905-9	8.5	160
90	Tumor necrosis factor-alpha antagonist etanercept decreases blood pressure and protects the kidney in a mouse model of systemic lupus erythematosus. *Hypertension*, **2010**, 56, 643-9	8.5	119
89	Angiotensin II-induced vascular dysfunction is mediated by the AT1A receptor in mice. *Hypertension* , **2004**, 43, 1074-9	8.5	73
88	Endothelial dysfunction and blood pressure variability in selected inbred mouse strains. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 42-8	9.4	68
87	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, R1282-9	3.2	63
86	Renal vascular responses to CORM-A1 in the mouse. *Pharmacological Research*, **2006**, 54, 24-9	10.2	62
85	Insulin resistance and obesity in a mouse model of systemic lupus erythematosus. *Hypertension*, **2006**, 48, 988-93	8.5	56
84	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, R736-42	3.2	56
83	Preventing autoimmunity protects against the development of hypertension and renal injury. *Hypertension*, **2014**, 64, 792-800	8.5	55
82	Placental ischemia in pregnant rats impairs cerebral blood flow autoregulation and increases blood-brain barrier permeability. *Physiological Reports*, **2014**, 2, e12134	2.6	55
81	The pathophysiology of hypertension in systemic lupus erythematosus. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2009**, 296, R1258-67	3.2	55
80	Oxidative stress promotes hypertension and albuminuria during the autoimmune disease systemic lupus erythematosus. *Hypertension*, **2012**, 59, 673-9	8.5	54
79	An update on immune system activation in the pathogenesis of hypertension. *Hypertension*, **2013**, 62, 226-30	8.5	52
78	Placebo-Controlled Trials of Covid-19 Vaccines - Why We Still Need Them. *New England Journal of Medicine*, **2021**, 384, e2	59.2	45

77	Reduced uterine perfusion pressure induces hypertension in the pregnant mouse. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 307, R1353-7	3.2	43
76	National Heart, Lung, and Blood Institute Working Group Report on Salt in Human Health and Sickness: Building on the Current Scientific Evidence. *Hypertension*, **2016**, 68, 281-8	8.5	39
75	Blood pressure in a hypertensive mouse model of SLE is not salt-sensitive. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R1281-5	3.2	36
74	Impact of ovarian function on cardiovascular health in women: focus on hypertension. *International Journal of Womens Health*, **2014**, 6, 131-9	2.8	35
73	Altered whole kidney blood flow autoregulation in a mouse model of reduced beta-ENaC. *American Journal of Physiology - Renal Physiology*, **2010**, 298, F285-92	4.3	34
72	Placental ischemia-induced increases in brain water content and cerebrovascular permeability: role of TNF-*American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 309, R1425-31	3.2	30
71	Placental ischemia impairs middle cerebral artery myogenic responses in the pregnant rat. *Hypertension*, **2011**, 58, 1126-31	8.5	30
70	Hypertension in an experimental model of systemic lupus erythematosus occurs independently of the renal nerves. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology* , **2013**, 305, R711-9	3.2	29
69	Blood pressure and renal hemodynamic responses to acute angiotensin II infusion are enhanced in a female mouse model of systemic lupus erythematosus. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R1286-92	3.2	26
68	Immunosuppression With Mycophenolate Mofetil Attenuates Hypertension in an Experimental Model of Autoimmune Disease. *Journal of the American Heart Association*, **2017**, 6,	6	25
67	Understanding mechanisms of hypertension in systemic lupus erythematosus. *Therapeutic Advances in Cardiovascular Disease*, **2016**,	3.4	24
66	Plasma Cell Depletion Attenuates Hypertension in an Experimental Model of Autoimmune Disease. *Hypertension*, **2018**, 71, 719-728	8.5	24
65	17Estradiol protects against the progression of hypertension during adulthood in a mouse model of systemic lupus erythematosus. *Hypertension*, **2014**, 63, 616-23	8.5	23
64	Autoimmune Disease-Associated Hypertension. *Current Hypertension Reports*, **2019**, 21, 10	4.7	19
63	MicroRNA-21 ablation exacerbates aldosterone-mediated cardiac injury, remodeling, and dysfunction. *American Journal of Physiology - Endocrinology and Metabolism*, **2018**, 315, E1154-E1167	6	16
62	Superimposed Preeclampsia Exacerbates Postpartum Renal Injury Despite Lack of Long-Term Blood Pressure Difference in the Dahl Salt-Sensitive Rat. *Hypertension*, **2019**, 73, 650-658	8.5	14
61	High dietary fat promotes visceral obesity and impaired endothelial function in female mice with systemic lupus erythematosus. *Gender Medicine*, **2011**, 8, 150-5		13
60	Estrogen in cardiovascular disease during systemic lupus erythematosus. *Clinical Therapeutics*, **2014** , 36, 1901-1912	3.5	12

59	Anti-CD3 antibody therapy attenuates the progression of hypertension in female mice with systemic lupus erythematosus. *Pharmacological Research*, **2017**, 120, 252-257	10.2	11
58	Autoimmunity: an underlying factor in the pathogenesis of hypertension. *Current Hypertension Reports*, **2014**, 16, 424	4.7	11
57	Mechanisms of hypertension in autoimmune rheumatic diseases. *British Journal of Pharmacology*, **2019**, 176, 1897-1913	8.6	10
56	Pressure-induced constriction of the middle cerebral artery is abolished in TrpC6 knockout mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 319, H42-H50	5.2	10
55	The glucagon-like peptide 1 receptor agonist liraglutide attenuates placental ischemia-induced hypertension. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 318, H72-H77	5.2	10
54	The angiotensin II type I receptor contributes to impaired cerebral blood flow autoregulation caused by placental ischemia in pregnant rats. *Biology of Sex Differences*, **2019**, 10, 58	9.3	10
53	Pathophysiology of Cerebral Vascular Dysfunction in Pregnancy-Induced Hypertension. *Current Hypertension Reports*, **2019**, 21, 52	4.7	9
52	Impact of early life ovariectomy on blood pressure and body composition in a female mouse model of systemic lupus erythematosus. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 307, R990-7	3.2	9
51	Heme oxygenase-1 promotes migration and □epithelial Na+ channel expression in cytotrophoblasts and ischemic placentas. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 306, R641-6	3.2	9
50	Expansion of regulatory T cells using low-dose interleukin-2 attenuates hypertension in an experimental model of systemic lupus erythematosus. *American Journal of Physiology - Renal Physiology*, **2019**, 317, F1274-F1284	4.3	7
49	Tumor necrosis factor-□impairs cerebral blood flow in pregnant rats: role of vascular □epithelial Na channel. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 318, H1018-H1027	5.2	7
48	Curcumin attenuates autoimmunity and renal injury in an experimental model of systemic lupus erythematosus. *Physiological Reports*, **2020**, 8, e14501	2.6	5
47	Preeclampsia: Linking Placental Ischemia with Maternal Endothelial and Vascular Dysfunction. *Comprehensive Physiology*, **2020**, 11, 1315-1349	7.7	4
46	Water and electrolyte homeostasis brings balance to physiology. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 307, R481-3	3.2	3
45	Temporal hemodynamic changes in a female mouse model of systemic lupus erythematosus. *American Journal of Physiology - Renal Physiology*, **2020**, 318, F1074-F1085	4.3	2
44	Angiotensin receptor and tumor necrosis factor-□activation contributes to glucose intolerance independent of systolic blood pressure in obese rats. *American Journal of Physiology - Renal Physiology*, **2018**, 315, F1081-F1090	4.3	2
43	Freedom isn□t always free: immunoglobulin free light chains promote renal fibrosis. *Journal of Clinical Investigation*, **2019**, 129, 2660-2662	15.9	2
42	Use of transgenic and knockout strategies in mice. *Seminars in Nephrology*, **2002**, 22, 154-60	4.8	2

41	Blood pressure and albuminuria in a female mouse model of systemic lupus erythematosus: impact of long-term high salt consumption. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2020**, 319, R448-R454	3.2	2
40	Expression of exogenous epithelial sodium channel beta subunit in the mouse middle cerebral artery increases pressure-induced constriction. *American Journal of Hypertension*, **2021**,	2.3	2
39	Endothelial cell disruption drives increased blood-brain barrier permeability and cerebral edema in the Dahl SS/jr rat model of superimposed preeclampsia. *American Journal of Physiology - Heart and Circulatory Physiology*, **2021**, 320, H535-H548	5.2	2
38	Hypertension and endothelial dysfunction in the pristane model of systemic lupus erythematosus. *Physiological Reports*, **2021**, 9, e14734	2.6	2
37	Cyclophosphamide treatment for hypertension and renal injury in an experimental model of systemic lupus erythematosus. *Physiological Reports*, **2019**, 7, e14059	2.6	1
36	Interleukin-17 Reduces ENaC via MAPK Signaling in Vascular Smooth Muscle Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	1
35	Human recombinant relaxin-2 does not attenuate hypertension or renal injury but exacerbates vascular dysfunction in a female mouse model of SLE. *American Journal of Physiology - Heart and Circulatory Physiology*, **2019**, 317, H234-H242	5.2	1
34	Immune Mechanisms of Hypertension. *Colloquium Series on Integrated Systems Physiology From Molecule To Function*, **2013**, 5, 1-86		1
33	Hypertension and Impaired Vessel Function in a Mouse Model of Systemic Lupus Erythematosus. *FASEB Journal*, **2006**, 20, A1191	0.9	1
32	Oxidative Stress mediates soluble Flt-1 induced vascular dysfunction in pregnant rats. *FASEB Journal*, **2008**, 22, 969.7	0.9	1
31	Soluble Flt-1 induces hypertension and vascular dysfunction in pregnant rats. *FASEB Journal*, **2008**, 22, 969.3	0.9	1
30	Have a heart: failure to increase GLP-1 caused by heart failure increases the risk of diabetes. *Clinical Science*, **2020**, 134, 3119-3121	6.5	1
29	Humoral immune system activation promotes the development of hypertension. *FASEB Journal*, **2013**, 27, 906.4	0.9	1
28	Interleukin-17 induces hypertension but does not impair cerebrovascular function in pregnant rats. *Pregnancy Hypertension*, **2021**, 24, 50-57	2.6	0
27	Time to fiddle with your unpublished data. *Clinical Science*, **2021**, 135, 101-103	6.5	0
26	Immunological comparison of pregnant Dahl salt-sensitive and Sprague-Dawley rats commonly used to model characteristics of preeclampsia. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 321, R125-R138	3.2	0
25	Curcumin Improves Autoimmunity in Female Mice with SLE. *FASEB Journal*, **2020**, 34, 1-1	0.9	
24	Dynamic renal autoregulation in conscious, freely moving mice. *FASEB Journal*, **2008**, 22, 969.23	0.9	

23	Rosiglitazone Decreases Blood Pressure in Female Dahl Rats: Role of Nitric Oxide and Oxidative Stress. *FASEB Journal*, **2008**, 22, 941.16	0.9
22	MicroRNA-21 Overexpression Exacerbates Aldosterone-Mediated Renal Injury. *FASEB Journal*, **2018**, 32, 584.4	0.9
21	An Atherogenic Diet Exacerbates Vascular Injury in an Experimental Model of Systemic lupus Erythematosus. *FASEB Journal*, **2018**, 32, lb343	0.9
20	TNF Impairs Cerebral Blood Flow Autoregulation in Pregnant Rats. *FASEB Journal*, **2018**, 32, 922.5	0.9
19	Vascular Permeability is increased in Cerebral Arteries from the Dahl S Model of Superimposed Preeclampsia. *FASEB Journal*, **2018**, 32, 911.8	0.9
18	Preventing Autoantibody Production Improves Endothelial Function in an Experimental Model of Autoimmune Disease. *FASEB Journal*, **2019**, 33, 836.6	0.9
17	Recombinant Human Relaxin-2 Treatment in an Experimental Female Mouse Model of Autoimmune Disease with Hypertension. *FASEB Journal*, **2019**, 33, 574.2	0.9
16	The GLP-1 agonist liraglutide lowers blood pressure in a placental ischemic model of preeclampsia. *FASEB Journal*, **2019**, 33, 574.7	0.9
15	Cerebral Blood Flow Autoregulation in Hypertensive Models of Pregnancy. *FASEB Journal*, **2019**, 33, 865.1	0.9
14	Renal Hemodynamic Function is Impaired in Female Mice with SLE. *FASEB Journal*, **2019**, 33, 573.1	0.9
13	Pressure-Induced Constriction of the Middle Cerebral Artery is Abolished in TrpC6 Knockout Mice. *FASEB Journal*, **2020**, 34, 1-1	0.9
12	MicroRNA-21 Ablation Exacerbates Aldosterone-Mediated Cardiac Injury, Remodeling and Dysfunction. *FASEB Journal*, **2015**, 29, 1037.3	0.9
11	Vascular Endothelial Growth Factor Improves Renal and Endothelial Function, and Normalizes Blood Pressure in Hypertensive Pregnant Rats.. *FASEB Journal*, **2009**, 23, 969.9	0.9
10	AT1-AA induced hypertension during pregnancy is associated with renal endothelial dysfunction and endothelin (ET-1) type A receptor activation.. *FASEB Journal*, **2009**, 23, 805.2	0.9
9	A Role For TNF- In Hypertension During Systemic Lupus Erythematosus. *FASEB Journal*, **2009**, 23, 968.3	0.9
8	Renal nerves contribute to renal injury, but not hypertension, during chronic inflammatory disease. *FASEB Journal*, **2011**, 25, 1078.5	0.9
7	T lymphocytes promote autoimmune-associated hypertension. *FASEB Journal*, **2012**, 26, 879.2	0.9
6	Estrogen protects against hypertension during autoimmune mediated hypertension. *FASEB Journal*, **2012**, 26, 880.3	0.9

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5	Etanercept improves glucose intolerance and dyslipidemia in insulin-resistant rats. *FASEB Journal*, **2013**, 27, 1114.3	0.9
4	17β-estradiol attenuates renal TNFα and the progression of hypertension in mice with systemic lupus erythematosus. *FASEB Journal*, **2013**, 27, 904.4	0.9
3	Vascular smooth muscle specific deletion of the leptin receptor attenuates leptin-induced vascular dysfunction. *FASEB Journal*, **2013**, 27, 1114.9	0.9
2	Tumor Necrosis Factor induces cerebral edema and increased cerebrovascular permeability in normal pregnant rats. *FASEB Journal*, **2013**, 27, 907.9	0.9
1	Single cell RNA sequencing reveals ferritin as a key mediator of autoimmune pre-disposition in a mouse model of systemic lupus erythematosus.. *Scientific Reports*, **2021**, 11, 24245	4.9