

# Jennifer C Sullivan

## List of Publications by Year in descending order

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114  
papers

2,769  
citations

201674

27  
h-index

197818

49  
g-index

142  
all docs

142  
docs citations

142  
times ranked

3352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Endothelin A Receptor Blockade Reduces Diabetic Renal Injury via an Anti-Inflammatory Mechanism. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 143-154.	6.1	177
2	Sex and the renin-angiotensin system: inequality between the sexes in response to RAS stimulation and inhibition. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1220-R1226.	1.8	166
3	Sex Differences in Hypertension. <i>Hypertension</i> , 2016, 68, 1322-1327.	2.7	163
4	Circulating mitochondrial DNA and Toll-like receptor 9 are associated with vascular dysfunction in spontaneously hypertensive rats. <i>Cardiovascular Research</i> , 2015, 107, 119-130.	3.8	149
5	Sex Differences in Hypertension: Where We Have Been and Where We Are Going. <i>American Journal of Hypertension</i> , 2018, 31, 1247-1254.	2.0	148
6	PFKFB3-mediated endothelial glycolysis promotes pulmonary hypertension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13394-13403.	7.1	113
7	Angiotensin (1-7) Receptor Antagonism Equalizes Angiotensin II-Induced Hypertension in Male and Female Spontaneously Hypertensive Rats. <i>Hypertension</i> , 2010, 56, 658-666.	2.7	106
8	Sex and sex hormones influence the development of albuminuria and renal macrophage infiltration in spontaneously hypertensive rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R1573-R1579.	1.8	82
9	Female Spontaneously Hypertensive Rats Have a Compensatory Increase in Renal Regulatory T Cells in Response to Elevations in Blood Pressure. <i>Hypertension</i> , 2014, 64, 557-564.	2.7	79
10	Female spontaneously hypertensive rats have greater renal anti-inflammatory T lymphocyte infiltration than males. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R359-R367.	1.8	76
11	Sexual Dimorphism in Renal Production of Prostanoids in Spontaneously Hypertensive Rats. <i>Hypertension</i> , 2005, 45, 406-411.	2.7	69
12	Sexual dimorphism in oxidant status in spontaneously hypertensive rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R764-R768.	1.8	68
13	Sex and the kidneys: current understanding and research opportunities. <i>Nature Reviews Nephrology</i> , 2019, 15, 776-783.	9.6	68
14	Oxidative stress contributes to sex differences in angiotensin II-mediated hypertension in spontaneously hypertensive rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R274-R282.	1.8	64
15	Hypertension: What's Sex Got to do With It?. <i>Physiology</i> , 2013, 28, 234-244.	3.1	64
16	Renal NOS activity, expression, and localization in male and female spontaneously hypertensive rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 298, R61-R69.	1.8	59
17	Differences in angiotensin (1-7) between men and women. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H1171-H1176.	3.2	59
18	Sex Differences in T Cells in Hypertension. <i>Clinical Therapeutics</i> , 2014, 36, 1882-1900.	2.5	45

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19	Sex Differences in Angiotensin-Converting Enzyme Modulation of Ang (1-7) Levels in Normotensive WKY Rats. <i>American Journal of Hypertension</i> , 2013, 26, 591-598.	2.0	44
20	Altered Nitric Oxide Synthase 3 Distribution in Mesenteric Arteries of Hypertensive Rats. <i>Hypertension</i> , 2002, 39, 597-602.	2.7	43
21	Novel use of ultrasound to examine regional blood flow in the mouse kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, F228-F235.	2.7	40
22	Inhibition of Toll-Like Receptor-4 (TLR-4) Improves Neurobehavioral Outcomes After Acute Ischemic Stroke in Diabetic Rats: Possible Role of Vascular Endothelial TLR-4. <i>Molecular Neurobiology</i> , 2019, 56, 1607-1617.	4.0	39
23	Sex and gender differences in hypertensive kidney injury. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F1009-F1017.	2.7	38
24	Chronic ANG II infusion induces sex-specific increases in renal T cells in Sprague-Dawley rats. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, F706-F712.	2.7	35
25	Sex differences in obesity-induced hypertension and vascular dysfunction: a protective role for estrogen in adipose tissue inflammation?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R714-R720.	1.8	34
26	Female SHR have greater blood pressure sensitivity and renal T cell infiltration following chronic NOS inhibition than males. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R701-R710.	1.8	33
27	Sex-specific computational models of the spontaneously hypertensive rat kidneys: factors affecting nitric oxide bioavailability. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F174-F183.	2.7	33
28	High-fat diet-induced hypertension is associated with a proinflammatory T cell profile in male and female Dahl salt-sensitive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H1713-H1723.	3.2	33
29	Greater T Regulatory Cells in Females Attenuate DOCA-Salt-Induced Increases in Blood Pressure Versus Males. <i>Hypertension</i> , 2020, 75, 1615-1623.	2.7	32
30	Recent advances in sex differences in kidney function. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 316, F328-F331.	2.7	28
31	Female sex hormones protect against salt-sensitive hypertension but not essential hypertension. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R149-R157.	1.8	25
32	T-cell involvement in sex differences in blood pressure control. <i>Clinical Science</i> , 2016, 130, 773-783.	4.3	25
33	Sex-specific alterations in NOS regulation of vascular function in aorta and mesenteric arteries from spontaneously hypertensive rats compared to Wistar Kyoto rats. <i>Physiological Reports</i> , 2014, 2, e12125.	1.7	24
34	Vasa recta pericyte density is negatively associated with vascular congestion in the renal medulla following ischemia reperfusion in rats. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F1097-F1105.	2.7	24
35	Sex differences in hypertension: lessons from spontaneously hypertensive rats (SHR). <i>Clinical Science</i> , 2021, 135, 1791-1804.	4.3	24
36	Use of ultrasound to assess renal reperfusion and P-selectin expression following unilateral renal ischemia. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, F1333-F1340.	2.7	22

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37	Oral NaHCO <sub>3</sub> Activates a Splenic Anti-Inflammatory Pathway: Evidence That Cholinergic Signals Are Transmitted via Mesothelial Cells. <i>Journal of Immunology</i> , 2018, 200, 3568-3586.	0.8	22
38	Age-related alterations in NOS and oxidative stress in mesenteric arteries from male and female rats. <i>Journal of Applied Physiology</i> , 2004, 97, 1268-1274.	2.5	21
39	Superoxide-dependent hypertension in male and female endothelin B receptor-deficient rats. <i>Experimental Biology and Medicine</i> , 2006, 231, 818-23.	2.4	20
40	Female spontaneously hypertensive rats are more dependent on ANG (1-7) to mediate effects of low-dose AT <sub>1</sub> receptor blockade than males. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, F1136-F1142.	2.7	19
41	Enhanced angiotensin-converting enzyme activity and systemic reactivity to angiotensin II in normotensive rats exposed to a high-sodium diet. <i>Vascular Pharmacology</i> , 2014, 60, 67-74.	2.1	19
42	Gender Difference in Damage-Mediated Signaling Contributes to Pulmonary Arterial Hypertension. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 917-932.	5.4	19
43	High-Mobility Group Box-1 Is Associated With Obesity, Inflammation, and Subclinical Cardiovascular Risk Among Young Adults. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 2776-2784.	2.4	18
44	Functional NOS 1 in the rat mesenteric arterial bed. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H658-H663.	3.2	17
45	Blood Pressure, Sex, and Female Sex Hormones Influence Renal Inner Medullary Nitric Oxide Synthase Activity and Expression in Spontaneously Hypertensive Rats. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	16
46	Hemodynamic responses to acute angiotensin II infusion are exacerbated in male versus female spontaneously hypertensive rats. <i>Physiological Reports</i> , 2016, 4, e12677.	1.7	15
47	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.	2.7	15
48	IL-10 treatment decreases blood pressure in male, but not female, spontaneously hypertensive rats. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, F359-F365.	2.7	14
49	Greater transforming growth factor- $\beta$ 2 in adult female SHR is dependent on blood pressure, but does not account for sex differences in renal T-regulatory cells. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F847-F853.	2.7	13
50	The importance of sex differences in pharmacology research. <i>British Journal of Pharmacology</i> , 2019, 176, 4087-4089.	5.4	13
51	Toll-Like Receptors Contribute to Sex Differences in Blood Pressure Regulation. <i>Journal of Cardiovascular Pharmacology</i> , 2020, 76, 255-266.	1.9	13
52	Effects of estradiol on renal cyclic guanosine monophosphate and oxidative stress in spontaneously hypertensive rats. <i>Gender Medicine</i> , 2009, 6, 498-510.	1.4	12
53	Acute Tetrahydrobiopterin Improves Endothelial Function in Patients With COPD. <i>Chest</i> , 2018, 154, 597-606.	0.8	11
54	Oxidative stress induces BH4 deficiency in male, but not female, SHR. <i>Bioscience Reports</i> , 2018, 38, .	2.4	11

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55	Endothelin, sex, and pregnancy: unique considerations for blood pressure control in females. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R691-R696.	1.8	10
56	Tipping the scales: Are females more at risk for obesity and high-fat diet-induced hypertension and vascular dysfunction?. <i>British Journal of Pharmacology</i> , 2019, 176, 4226-4242.	5.4	10
57	Necrosis Contributes to the Development of Hypertension in Male, but Not Female, Spontaneously Hypertensive Rats. <i>Hypertension</i> , 2019, 74, 1524-1531.	2.7	10
58	Hypertensive female Sprague-Dawley rats require an intact nitric oxide synthase system for compensatory increases in renal regulatory T cells. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, F192-F201.	2.7	10
59	Lipopolysaccharide Pretreatment Prevents Medullary Vascular Congestion following Renal Ischemia by Limiting Early Reperfusion of the Medullary Circulation. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 769-785.	6.1	10
60	Greater fractalkine expression in mesenteric arteries of female spontaneously hypertensive rats compared with males. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1080-H1088.	3.2	9
61	Impact of sex and pathophysiology on optimal drug choice in hypertensive rats: Quantitative insights for precision medicine. <i>IScience</i> , 2021, 24, 102341.	4.1	9
62	Greater high-mobility group box 1 in male compared with female spontaneously hypertensive rats worsens renal ischemia reperfusion injury. <i>Clinical Science</i> , 2020, 134, 1751-1762.	4.3	9
63	Influence of the selective COX-2 inhibitor celecoxib on sex differences in blood pressure and albuminuria in spontaneously hypertensive rats. <i>Prostaglandins and Other Lipid Mediators</i> , 2018, 135, 16-20.	1.9	8
64	Ultrasound measurement of change in kidney volume is a sensitive indicator of severity of renal parenchymal injury. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, F447-F457.	2.7	7
65	Adverse Maternal and Fetal Outcomes in a Novel Experimental Model of Pregnancy after Recovery from Renal Ischemia-Reperfusion Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 375-384.	6.1	7
66	INFLUENCE OF SALT ON SUBCELLULAR LOCALIZATION OF NITRIC OXIDE SYNTHASE ACTIVITY AND EXPRESSION IN THE RENAL INNER MEDULLA. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007, 35, 070924173348004-???	1.9	6
67	Sex Differences in Blood Pressure Control. <i>Hypertension</i> , 2014, 64, 237-239.	2.7	6
68	Stimulation of angiotensin II receptor 2 preserves cognitive function and is associated with an enhanced cerebral vascular density after stroke. <i>Vascular Pharmacology</i> , 2021, 141, 106904.	2.1	6
69	Persistent vascular congestion in male spontaneously hypertensive rats contributes to delayed recovery of renal function following renal ischemia perfusion compared with females. <i>Clinical Science</i> , 2022, 136, 825-840.	4.3	6
70	Superoxide Dismutase Activity in Small Mesenteric Arteries Is Downregulated by Angiotensin II but Not by Hypertension. <i>Toxicological Research</i> , 2018, 34, 363-370.	2.1	5
71	Nitric oxide synthase-mediated blood pressure regulation in obese melanocortin-4 receptor-deficient pregnant rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R851-R857.	1.8	4
72	Splenectomy increases blood pressure and abolishes sex differences in renal T-regulatory cells in spontaneously hypertensive rats. <i>Clinical Science</i> , 2021, 135, 2329-2339.	4.3	3

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73	Sex differences in TLR4 expression in SHR do not contribute to sex differences in blood pressure or the renal T cell profile. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2022, 322, R319-R325.	1.8	3
74	Sexual dimorphism in renal heme oxygenase-1 and arachidonic acid metabolizing enzymes in spontaneously hypertensive rats versus normotensive Wistar Kyoto rats. Prostaglandins and Other Lipid Mediators, 2022, 161, 106650.	1.9	3
75	Cutting the Fat. Hypertension, 2018, 72, 1081-1083.	2.7	2
76	Sex as a biological variable in renal, metabolic, and cardiovascular physiology: eighteen years of leadership by the American Physiological Society. American Journal of Physiology - Renal Physiology, 2019, 316, F615-F616.	2.7	2
77	Editorial: Hypertension and Chronic Kidney Injury or Failure, Volume II. Frontiers in Physiology, 2021, 12, 824971.	2.8	2
78	Treatment of male and female spontaneously hypertensive rats with TNF- $\alpha$ inhibitor etanercept increases markers of renal injury independent of an effect on blood pressure. Biology of Sex Differences, 2022, 13, 17.	4.1	2
79	Sex differences in fractalkine responses in spontaneously hypertensive rats (SHR). FASEB Journal, 2007, 21, A1418.	0.5	1
80	Response to "Determination of Sex Differences in Activities of Angiotensin-Converting Enzyme 2 (ACE2) Requires an Activity Assay That Doesn't Underestimate ACE2". American Journal of Hypertension, 2013, 26, 1173-1173.	2.0	0
81	Reply to "Letter to the editor: Concern regarding quantification of urinary nephrin by commercially available ELISA". American Journal of Physiology - Renal Physiology, 2015, 309, F271-F271.	2.7	0
82	Emerging concept: bringing our trainees into focus. American Journal of Physiology - Renal Physiology, 2015, 309, F89-F89.	2.7	0
83	Five years of data diuresis: what have WEH learned?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R1060-R1061.	1.8	0
84	Editorial: Hypertension and Chronic Kidney Injury or Failure. Frontiers in Physiology, 2021, 12, 662737.	2.8	0
85	Inhibition of 12/15 Lipoxygenase (12/15 LOX) Improves Renal Recovery and Function Post Renal Ischemia Reperfusion (IR) injury in Male Spontaneous Hypertensive Rats (SHR). FASEB Journal, 2021, 35, .	0.5	0
86	Estrogen effects on NOS in the renal cortex of Spontaneously Hypertensive Rats (SHR).. FASEB Journal, 2007, 21, A1417.	0.5	0
87	Renal medullary NADPH oxidase activity in DOCA-salt hypertensive rats. FASEB Journal, 2007, 21, A1364.	0.5	0
88	Catalase activity and expression are reduced in mesenteric arteries from angiotensin II-infused hypertensive rats. FASEB Journal, 2007, 21, A445.	0.5	0
89	Mechanism of reduced vascular relaxation in aorta from Dahl salt-sensitive rats on elevated dietary fat. FASEB Journal, 2008, 22, 969.34.	0.5	0
90	NOS1-specific activity is lost and NOS3-specific activity is attenuated in the renal inner medulla of male spontaneously hypertensive rats (SHR) compared to female SHR.. FASEB Journal, 2008, 22, 941.1.	0.5	0

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91	High fat diet reduces NOS functional activity during vasoconstriction in aorta, but not small mesenteric arteries, from Dahl rats. FASEB Journal, 2008, 22, 947.9.	0.5	0
92	Measurement of regional kidney perfusion in mice: comparison of a novel, noninvasive technique against conventional laser Doppler flowmetry.. FASEB Journal, 2009, 23, 969.1.	0.5	0
93	Induction of hemeoxygenase-1 slows the progression of hypertension and proteinuria in spontaneously hypertensive rats. FASEB Journal, 2009, 23, 1017.38.	0.5	0
94	Influence of salt and estrogen on inner medullary NOS expression in female spontaneously hypertensive rats (SHR). FASEB Journal, 2009, 23, 968.4.	0.5	0
95	Mechanisms of attenuated angiotensin II-induced aortic constriction from Dahl salt-sensitive rats following a 4-week high-fat diet. FASEB Journal, 2009, 23, 626.20.	0.5	0
96	AT1 receptor-independent oxidative stress in angiotensin II (Ang II) infused Male Spontaneously Hypertensive Rats (SHR). FASEB Journal, 2010, 24, 605.14.	0.5	0
97	Chronic angiotensin II (Ang II) increases renal oxidative stress in male spontaneously hypertensive rats (SHR), but not in female SHR. FASEB Journal, 2010, 24, 1041.1.	0.5	0
98	Effect of Angiotensin II on Oxidative Stress in Female Borderline Hypertensive Rats. FASEB Journal, 2010, 24, 701.10.	0.5	0
99	Female Spontaneously Hypertensive Rats (SHR) Have Higher Expression of TGF- $\beta$ 2 and Smad Signaling in Mesenteric Arteries Following the Development of Hypertension. FASEB Journal, 2012, 26, 880.1.	0.5	0
100	Female Spontaneously Hypertensive Rats (SHR) have greater increases in NOS in mesenteric arteries than males. FASEB Journal, 2012, 26, 878.5.	0.5	0
101	REDUCED FUNCTIONALITY OF RENIN-ANGIOTENSIN-ALDOSTERONE SYSTEM IN YOUNG RATS EXPOSED TO HIGH-SALT DIET. FASEB Journal, 2012, 26, 1140.4.	0.5	0
102	Sex does not impact asymmetric dimethylarginine (ADMA) or L-arginine (L-arg) levels in spontaneously hypertensive rats (SHR).. FASEB Journal, 2013, 27, 1112.1.	0.5	0
103	Neither Hypertension nor Sexual Maturation is Responsible for Elevated Mesenteric Arterial Expression of TGF- $\beta$ 2 in Female Spontaneously Hypertensive Rats (SHR). FASEB Journal, 2013, 27, .	0.5	0
104	Ang (1-7) Has a Greater Contribution to the Blood Pressure Lowering Effects of AT1 Receptor Blockade in Female Spontaneously Hypertensive Rats (SHR) Compared to Males. FASEB Journal, 2013, 27, 904.3.	0.5	0
105	The Impact of High Mobility Group Box 1 Protein (HMGB1) on Renal Ischemia-Reperfusion Injury in Male and Female Spontaneously Hypertensive Rats (SHR). FASEB Journal, 2013, 27, 1114.7.	0.5	0
106	Female Sex Hormones Protect Against Salt-Induced Increases in Immune System Activation in Dahl Salt-Sensitive Rats (DSS). FASEB Journal, 2015, 29, 667.5.	0.5	0
107	Female Spontaneous Hypertensive Rats (SHR) Have Better Recovery In Response To Renal Ischemia Reperfusion Injury Than Males. FASEB Journal, 2018, 32, 850.7.	0.5	0
108	Prevention of Vascular Congestion Improves Renal Recovery and Function Post Renal Ischemia-Reperfusion in Male Spontaneous Hypertensive Rats. FASEB Journal, 2019, 33, 864.2.	0.5	0

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109	Splenectomy Increases Blood Pressure and Alters the Renal T Cell Profile in a Sex-Specific Manner in Spontaneously Hypertensive Rats. FASEB Journal, 2019, 33, .	0.5	0
110	Intermittent hypoxia prior to completion of nephrogenesis increases systolic blood pressure and proteinuria after angiotensin II treatment in adult male rats. FASEB Journal, 2019, 33, 593.6.	0.5	0
111	Apoptosis contributes to the pro-inflammatory T cell profile in blood of male and female spontaneously hypertensive rats, but not the control of blood pressure. FASEB Journal, 2019, 33, 758.11.	0.5	0
112	Spironolactone Effectively Reduces Renal ENaC Activity and Hypertension in Ang II-Infused Female Rats in a Sex-Specific Manner. FASEB Journal, 2019, 33, 751.21.	0.5	0
113	Stimulation of Angiotensin II Receptor 2 Preserves Cognitive Function Post Stroke and is Associated with an Enhanced Cerebral Vascular Density in Female Rats.. FASEB Journal, 2020, 34, 1-1.	0.5	0
114	Glutathione peroxidase 4 prevents 12/15 LOX induced renal oxidative cell death and improves renal post Ischemic recovery in Male Spontaneous Hypertensive Rats (SHR). FASEB Journal, 2022, 36, .	0.5	0