David L Mattson

List of Publications by Year
in descending order

136 papers	5,253 citations	66343 42 h-index	95266 68 g-index
136 all docs	136 docs citations	136 times ranked	4463 citing authors

#	Article	IF	Citations
1	Unique Associations of DNA Methylation Regions With 24-Hour Blood Pressure Phenotypes in Black Participants. Hypertension, 2022, 79, 761-772.	2.7	11
2	Acute Increase of Renal Perfusion Pressure Causes Rapid Activation of mTORC1 (Mechanistic Target Of) Tj ETQq0 0 0 rgBT /Overlock 10	2.7	5
3	Amplification of Salt-Sensitive Hypertension and Kidney Damage by Immune Mechanisms. American Journal of Hypertension, 2021, 34, 3-14.	2.0	14
4	Sexual Dimorphic Role of CD14 (Cluster of Differentiation 14) in Salt-Sensitive Hypertension and Renal Injury. Hypertension, 2021, 77, 228-240.	2.7	7
5	Dietary influences on the Dahl SS rat gut microbiota and its effects on saltâ€sensitive hypertension and renal damage. Acta Physiologica, 2021, 232, e13662.	3.8	24
6	Dietary protein source contributes to the risk of developing maternal syndrome in the Dahl salt-sensitive rat. Pregnancy Hypertension, 2021, 24, 126-134.	1.4	2
7	Team Science: American Heart Associationâ€™s Hypertension Strategically Focused Research Network Experience. Hypertension, 2021, 77, 1857-1866.	2.7	0
8	p66Shc-mediated hydrogen peroxide production impairs nephrogenesis causing reduction of number of glomeruli. Life Sciences, 2021, 279, 119661.	4.3	6
9	Dietary Sodium Restriction Results in Tissue-Specific Changes in DNA Methylation in Humans. Hypertension, 2021, 78, 434-446.	2.7	9
10	Contribution of Th17 cells to tissue injury in hypertension. Current Opinion in Nephrology and Hypertension, 2021, 30, 151-158.	2.0	10
11	T Cell Immunometabolism and Redox Signaling in Hypertension. Current Hypertension Reports, 2021, 23, 45.	3.5	6
12	NOX2-derived reactive oxygen species in immune cells exacerbates salt-sensitive hypertension. Free Radical Biology and Medicine, 2020, 146, 333-339.	2.9	21
13	Epigenetic Modifications in T Cells. Hypertension, 2020, 75, 372-382.	2.7	26
14	Renal Perfusion Pressure Determines Infiltration of Leukocytes in the Kidney of Rats With Angiotensin IIâ€"Induced Hypertension. Hypertension, 2020, 76, 849-858.	2.7	15
15	Twenty-four-hour versus clinic blood pressure levels as predictors of long-term cardiovascular and renal disease outcomes among African Americans. Scientific Reports, 2020, 10, 11685.	3.3	4
16	CCL2 mediates early renal leukocyte infiltration during salt-sensitive hypertension. American Journal of Physiology - Renal Physiology, 2020, 318, F982-F993.	2.7	20
17	Splenocyte transfer exacerbates saltâ€sensitive hypertension in rats. Experimental Physiology, 2020, 105, 864-875.	2.0	19
18	Inflammatory macrophages in the kidney contribute to salt-sensitive hypertension. American Journal of Physiology - Renal Physiology, 2020, 318, F544-F548.	2.7	23

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19	Irradiation of the kidneys causes pathologic remodeling in the nontargeted heart: A role for the immune system. FASEB BioAdvances, 2020, 2, 705-719.	2.4	12
20	Angiotensin II activates mTORC1 pathway in the kidneys through a pressorâ€independent mechanism.. FASEB Journal, 2020, 34, 1-1.	0.5	1
21	Influences of environmental factors during preeclampsia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R26-R32.	1.8	16
22	Salt-sensitive increase in macrophages in the kidneys of Dahl SS rats. American Journal of Physiology - Renal Physiology, 2019, 317, F361-F374.	2.7	32
23	Dietary Effects on Dahl Salt-Sensitive Hypertension, Renal Damage, and the T Lymphocyte Transcriptome. Hypertension, 2019, 74, 854-863.	2.7	31
24	Renal nerves and leukocyte infiltration in the kidney during salt-sensitive hypertension. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R182-R189.	1.8	6
25	Animal Models of Hypertension: A Scientific Statement From the American Heart Association. Hypertension, 2019, 73, e87-e120.	2.7	177
26	Immune mechanisms of salt-sensitive hypertension and renal end-organ damage. Nature Reviews Nephrology, 2019, 15, 290-300.	9.6	86
27	Parental Dietary Protein Source and the Role of <i>CMKLR1</i> in Determining the Severity of Dahl Salt-Sensitive Hypertension. Hypertension, 2019, 73, 440-448.	2.7	23
28	Role of Gut Microbiota and Immunity in the Dietary Modulation of Dahl Saltâ€Sensitive Hypertension. FASEB Journal, 2019, 33, 866.9.	0.5	1
29	Role of the MCPâ€1/CCR2 Axis in the Development of Dahl Saltâ€Sensitive (SS) Hypertension and Renal Damage. FASEB Journal, 2019, 33, 574.6.	0.5	0
30	RNA Seq Analysis Reveals Metabolic and Natriuretic Pathways Regulated by Renal T Cell Infiltration. FASEB Journal, 2019, 33, lb534.	0.5	0
31	Liposome Delivery Enhances Clodronate Nephrotoxicity in Dahl SS Hypertension and Renal Injury. FASEB Journal, 2019, 33, 574.9.	0.5	0
32	Substitution of Casein Dietary Protein with Wheat Gluten Protein Protects Dahl Salt Sensitive Rats from the Development of Maternal Syndrome. FASEB Journal, 2019, 33, 593.8.	0.5	0
33	Stability of global methylation profiles of whole blood and extracted DNA under different storage durations and conditions. Epigenomics, 2018, 10, 797-811.	2.1	37
34	An integrated genetic analysis of disease. Nature Reviews Nephrology, 2018, 14, 287-288.	9.6	0
35	The complement system in hypertension and renal damage in the Dahl SS rat. Physiological Reports, 2018, 6, e13655.	1.7	13
36	Heat stress nephropathy and hyperuricemia. American Journal of Physiology - Renal Physiology, 2018, 315, F757-F758.	2.7	1

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37	Role of immune factors in angiotensin II-induced hypertension and renal damage in Dahl salt-sensitive rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R323-R333.	1.8	21
38	<i>Rag1</i>-null Dahl SS rats reveal that adaptive immune mechanisms exacerbate high protein-induced hypertension and renal injury. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R28-R35.	1.8	29
39	Influence of dietary protein on Dahl salt-sensitive hypertension: a potential role for gut microbiota. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R907-R914.	1.8	13
40	Role of the Renal Nerves in Renal Damage and Immune Cell Infiltration in Dahl Saltâ€•Sensitive Rats. FASEB Journal, 2018, 32, 870.3.	0.5	0
41	CD14 as a Novel Negative Modulator of Immune Systemâ€Dependent Renal Damage and Saltâ€Sensitive Hypertension. FASEB Journal, 2018, 32, 870.2.	0.5	0
42	Effects of Parental Dietary Protein Source on Hypertension, Renal Injury, and Renal Inflammation. FASEB Journal, 2018, 32, 883.2.	0.5	0
43	From GWAS to functional genomics-based precision medicine. Nature Reviews Nephrology, 2017, 13, 195-196.	9.6	27
44	Novel adaptive and innate immunity targets in hypertension. Pharmacological Research, 2017, 120, 109-115.	7.1	11
45	Increased Perfusion Pressure Drives Renal T-Cell Infiltration in the Dahl Salt-Sensitive Rat. Hypertension, 2017, 70, 543-551.	2.7	58
46	Renal Delivery of Anti-microRNA Oligonucleotides in Rats. Methods in Molecular Biology, 2017, 1527, 409-419.	0.9	0
47	Role of immune cells in salt-sensitive hypertension and renal injury. Current Opinion in Nephrology and Hypertension, 2016, 25, 22-27.	2.0	21
48	The function of SH2B3 (LNK) in the kidney. American Journal of Physiology - Renal Physiology, 2016, 311, F682-F685.	2.7	8
49	Introduction to the American Heart Associationâ€™s Hypertension Strategically Focused Research Network. Hypertension, 2016, 67, 674-680.	2.7	10
50	Interleukin-6 inhibition attenuates hypertension and associated renal damage in Dahl salt-sensitive rats. American Journal of Physiology - Renal Physiology, 2016, 311, F555-F561.	2.7	65
51	Renal Tumor Necrosis Factor Î± Contributes to Hypertension in Dahl Salt-Sensitive Rats. Scientific Reports, 2016, 6, 21960.	3.3	44
52	National Heart, Lung, and Blood Institute Working Group Report on Salt in Human Health and Sickness. Hypertension, 2016, 68, 281-288.	2.7	48
53	p66Shc regulates renal vascular tone in hypertension-induced nephropathy. Journal of Clinical Investigation, 2016, 126, 2533-2546.	8.2	36
54	Hypertension and immunity. Current Opinion in Nephrology and Hypertension, 2015, 24, 470-474.	2.0	13

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55	Candidate genes for hypertension: insights from the Dahl S rat. American Journal of Physiology - Renal Physiology, 2015, 309, F993-F995.	2.7	11
56	Maternal Diet During Gestation and Lactation Modifies the Severity of Salt-Induced Hypertension and Renal Injury in Dahl Salt-Sensitive Rats. Hypertension, 2015, 65, 447-455.	2.7	58
57	Mutation of <i>SH2B3</i> (<i>LNK</i>), a Genome-Wide Association Study Candidate for Hypertension, Attenuates Dahl Salt-Sensitive Hypertension via Inflammatory Modulation. Hypertension, 2015, 65, 1111-1117.	2.7	60
58	Inflammation and Hypertension: New Understandings and Potential Therapeutic Targets. Current Hypertension Reports, 2015, 17, 507.	3.5	183
59	Sodiumâ€independent Dietary Effects on Renal Immune Cell Infiltration in Saltâ€sensitive Hypertension. FASEB Journal, 2015, 29, 811.11.	0.5	0
60	Angiotensin II Induced Hypertension, Renal Damage, and Immune Cell Infiltration in the Dahl Salt Sensitive Rat. FASEB Journal, 2015, 29, 812.4.	0.5	0
61	Time Course of Immune Cell Infiltration and Cytokine Production in the Kidneys of Dahl Saltâ€Sensitive (SS) Rats. FASEB Journal, 2015, 29, 667.8.	0.5	0
62	Characterization of blood pressure and endothelial function in TRPV4-deficient mice with <scp>l</scp> -NAME- and angiotensin II-induced hypertension. Physiological Reports, 2014, 2, e00199.	1.7	35
63	CD247 Modulates Blood Pressure by Altering T-Lymphocyte Infiltration in the Kidney. Hypertension, 2014, 63, 559-564.	2.7	125
64	Rap1b in Smooth Muscle and Endothelium Is Required for Maintenance of Vascular Tone and Normal Blood Pressure. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1486-1494.	2.4	43
65	Exogenous <scp>L</scp>â€arginine attenuates the effects of angiotensin <scp>II</scp> on renal hemodynamics and the pressure natriuresisâ€"diuresis relationship. Clinical and Experimental Pharmacology and Physiology, 2014, 41, 270-278.	1.9	6
66	Genetic Susceptibility and Loss of Nr4a1 Enhances Macrophage-Mediated Renal Injury in CKD. Journal of the American Society of Nephrology: JASN, 2014, 25, 2499-2510.	6.1	32
67	Infiltrating immune cells in the kidney in salt-sensitive hypertension and renal injury. American Journal of Physiology - Renal Physiology, 2014, 307, F499-F508.	2.7	125
68	Research community driven development to genetically modify rat models for heart, lung, blood and sleep disorders (1121.3). FASEB Journal, 2014, 28, 1121.3.	0.5	0
69	Potential role of TRPV4 channels in angiotensin IIâ€induced endothelial dysfunction (696.2). FASEB Journal, 2014, 28, 696.2.	0.5	0
70	Epigenomics of Hypertension. Seminars in Nephrology, 2013, 33, 392-399.	1.6	63
71	Assessment of Renal Function; Clearance, the Renal Microcirculation, Renal Blood Flow, and Metabolic Balance. , 2013, 3, 165-200.		34
72	Genetic mutation of recombination activating gene 1 in Dahl salt-sensitive rats attenuates hypertension and renal damage. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 304, R407-R414.	1.8	151

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73	Deficiency of Renal Cortical EGF Increases ENaC Activity and Contributes to Salt-Sensitive Hypertension. Journal of the American Society of Nephrology: JASN, 2013, 24, 1053-1062.	6.1	69
74	Angiotensin IIâ€induced impairment of vasodilation in mouse mesenteric arteries: role of endothelial TRPV4 channels. FASEB Journal, 2013, 27, 916.4.	0.5	0
75	Mutation of Sh2b3 attenuates Dahl SS hypertension via inflammatory signaling. FASEB Journal, 2013, 27, 1114.4.	0.5	0
76	The impact of maternal in utero environment on saltâ€induced hypertension in the SS rat. FASEB Journal, 2013, 27, 1182.7.	0.5	0
77	Renal Medullary Circulation. , 2012, 2, 97-140.		51
78	Increased Expression of NAD(P)H Oxidase Subunit p67phox in the Renal Medulla Contributes to Excess Oxidative Stress and Salt-Sensitive Hypertension. Cell Metabolism, 2012, 15, 201-208.	16.2	131
79	Blood pressure profile and response to NG â€nitroâ€Lâ€arginine methyl ester challenge in conscious TRPV4â€deficient mice. FASEB Journal, 2012, 26, 1056.9.	0.5	0
80	Genetic regulation and functional relevance of the p67phox gene in saltâ€sensitive hypertension. FASEB Journal, 2012, 26, 874.1.	0.5	0
81	T lymphocytes infiltrating the kidney of Dahl SS rats are activated and differentiated. FASEB Journal, 2012, 26, 879.1.	0.5	0
82	EGF deficiency contributes to the development of saltâ€sensitive hypertension via upregulation of ENaC activity. FASEB Journal, 2012, 26, 867.9.	0.5	0
83	High Dietary Protein Exacerbates Hypertension and Renal Damage in Dahl SS Rats by Increasing Infiltrating Immune Cells in the Kidney. Hypertension, 2011, 57, 269-274.	2.7	73
84	Infiltrating T lymphocytes in the kidney increase oxidative stress and participate in the development of hypertension and renal disease. American Journal of Physiology - Renal Physiology, 2011, 300, F734-F742.	2.7	133
85	Exogenous Lâ€Arginine (Lâ€Arg) attenuates the vasoconstrictor response to Angiotensin II (Ang II) stimulation in isolated rat aortic rings. FASEB Journal, 2011, 25, .	0.5	0
86	T lymphocytes mediate hypertension and kidney damage in Dahl salt-sensitive rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1136-R1142.	1.8	166
87	Exogenous Lâ€Arginine (Lâ€Arg) Reverses Angiotensin II (AngII)â€Mediated Renal Cortical and Medullary Vasoconstriction and Improves Pressure Diuresis and Natriuresis. FASEB Journal, 2010, 24, 1059.23.	0.5	0
88	High Dietary Protein Exacerbates Hypertension and Renal Damage in Dahl Saltâ€Sensitive (SS) Rats by Increasing Infiltrating Immune Cells. FASEB Journal, 2010, 24, 793.3.	0.5	0
89	Recovery from renal ischemia-reperfusion injury is associated with altered renal hemodynamics, blunted pressure natriuresis, and sodium-sensitive hypertension. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1358-R1363.	1.8	73
90	ROLE OF <scp>l</scp>â€ARGININE IN NITRIC OXIDE PRODUCTION IN HEALTH AND HYPERTENSION. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 249-255.	1.9	92

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91	Measuring Kidney Function in Conscious Mice. Methods in Molecular Biology, 2009, 573, 75-94.	0.9	3
92	Exogenous Lâ€Arginine (Lâ€Arg) blunts Angiotensin II (AngII)â€mediated renal vasoconstriction and improves pressureâ€diuresis. FASEB Journal, 2009, 23, 804.4.	0.5	0
93	Renal infiltration of Tâ€lymphocytes is associated with elevated intrarenal angiotensin II (AngII) and the development of hypertension and kidney damage in Dahl saltâ€sensitive (SS) rats. FASEB Journal, 2009, 23, 805.5.	0.5	0
94	Exogenous l -Arginine Ameliorates Angiotensin II-Induced Hypertension and Renal Damage in Rats. Hypertension, 2008, 52, 1084-1090.	2.7	29
95	Chromosome substitution reveals the genetic basis of Dahl salt-sensitive hypertension and renal disease. American Journal of Physiology - Renal Physiology, 2008, 295, F837-F842.	2.7	101
96	Immune suppression blocks sodium-sensitive hypertension following recovery from ischemic acute renal failure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1234-R1239.	1.8	58
97	Chromosomal mapping of the genetic basis of hypertension and renal disease in FHH rats. American Journal of Physiology - Renal Physiology, 2007, 293, F1905-F1914.	2.7	42
98	Nitric Oxide and Hypertension. , 2007, , 225-243.		0
99	Hypertension and renal disease in Dahl saltâ€sensitive (SS/Mcwi) rats are dependent on dietary protein intake. FASEB Journal, 2007, 21, A894.	0.5	0
100	Immune suppression blocks sodium sensitive hypertension following recovery from ischemic acute renal failure. FASEB Journal, 2007, 21, A591.	0.5	0
101	Sodium Sensitivity of Arterial Blood Pressure in L-NAME Hypertensive but not eNOS Knockout Mice. American Journal of Hypertension, 2006, 19, 327-329.	2.0	17
102	Immune Suppression Attenuates Hypertension and Renal Disease in the Dahl Salt-Sensitive Rat. Hypertension, 2006, 48, 149-156.	2.7	152
103	Amino acids as modulators of endothelium-derived nitric oxide. American Journal of Physiology - Renal Physiology, 2006, 291, F297-F304.	2.7	59
104	Impaired sodium excretion following recovery from ischemic acute renal failure. FASEB Journal, 2006, 20, A341.	0.5	0
105	Lâ€arginine uptake mechanisms and responses of intrarenal perfusion to angiotensin II. FASEB Journal, 2006, 20, A764.	0.5	2
106	Cationic and Neutral Amino Acids Decrease NO in the Renal Vasculature. FASEB Journal, 2006, 20, A760.	0.5	0
107	Renal cortical and medullary blood flow responses to l-NAME and ANG II in wild-type, nNOS null mutant, and eNOS null mutant mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R991-R997.	1.8	51
108	Substitution of chromosome 1 ameliorates l-NAME hypertension and renal disease in the fawn-hooded hypertensive rat. American Journal of Physiology - Renal Physiology, 2005, 288, F1015-F1022.	2.7	31

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109	Dietary Protein Source Determines the Degree of Hypertension and Renal Disease in the Dahl Salt-Sensitive Rat. Hypertension, 2005, 45, 736-741.	2.7	58
110	Influence of dietary NaCl on L-arginine transport in the renal medulla. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R89-R93.	1.8	15
111	Influence of diet and genetics on hypertension and renal disease in Dahl salt-sensitive rats. Physiological Genomics, 2004, 16, 194-203.	2.3	74
112	Inhibition of Cyclooxygenase-2 in the Rat Renal Medulla Leads to Sodium-Sensitive Hypertension. Hypertension, 2004, 44, 424-428.	2.7	103
113	l-Arginine uptake affects nitric oxide production and blood flow in the renal medulla. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 287, R1478-R1485.	1.8	60
114	Importance of the renal medullary circulation in the control of sodium excretion and blood pressure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R13-R27.	1.8	126
115	Role of renal NO production in the regulation of medullary blood flow. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R1355-R1369.	1.8	163
116	Cationic Amino Acid Transport in the Renal Medulla and Blood Pressure Regulation. Hypertension, 2002, 39, 287-292.	2.7	38
117	Role of nitric oxide in regulation of the renal medulla in normal and hypertensive kidneys. Current Opinion in Nephrology and Hypertension, 2002, 11, 93-98.	2.0	44
118	Comparison of arterial blood pressure in different strains of mice. American Journal of Hypertension, 2001, 14, 405-408.	2.0	81
119	The influence of nitric oxide synthase 1 on blood flow and interstitial nitric oxide in the kidney. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R91-R97.	1.8	61
120	Role of the renin-angiotensin system during alterations of sodium intake in conscious mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R987-R993.	1.8	30
121	Increase in Renal Medullary Nitric Oxide Synthase Activity Protects From Norepinephrine-Induced Hypertension. Hypertension, 2000, 35, 418-423.	2.7	39
122	Characterization of l-arginine transporters in rat renal inner medullary collecting duct. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 278, R1506-R1512.	1.8	36
123	Nitric Oxide Synthase Activity and Isoforms in Rat Renal Vasculature. Hypertension, 2000, 35, 337-341.	2.7	93
124	Quantification of nitric oxide synthase activity in microdissected segments of the rat kidney. American Journal of Physiology - Renal Physiology, 1999, 276, F874-F881.	2.7	127
125	Renal mechanisms of hypertension. Current Opinion in Nephrology and Hypertension, 1999, 8, 217-224.	2.0	2
126	Iron attenuates nitric oxide level and iNOS expression in endotoxin-treated mice. FEBS Letters, 1998, 424, 253-256.	2.8	24

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127	Inducible Nitric Oxide Synthase and Blood Pressure. Hypertension, 1998, 31, 15-20.	2.7	80
128	Chronic Sodium Balance and Blood Pressure Response to Captopril in Conscious Mice. Hypertension, 1998, 32, 923-928.	2.7	27
129	Renal medullary interstitial infusion ofl-arginine prevents hypertension in Dahl salt-sensitive rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 275, R1667-R1673.	1.8	32
130	Long-term measurement of arterial blood pressure in conscious mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R564-R570.	1.8	54
131	Effects of daily sodium intake and ANG II on cortical and medullary renal blood flow in conscious rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R1317-R1323.	1.8	22
132	Evidence for the presence of smooth muscle Î±-actin within pericytes of the renal medulla. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 273, R1742-R1748.	1.8	54
133	ROLE OF NITRIC OXIDE IN THE CONTROL OF THE RENAL MEDULLARY CIRCULATION.. Clinical and Experimental Pharmacology and Physiology, 1997, 24, 587-590.	1.9	48
134	Influence of Dietary Sodium Intake on Renal Medullary Nitric Oxide Synthase. Hypertension, 1996, 27, 688-692.	2.7	171
135	Neural Nitric Oxide Synthase in the Renal Medulla and Blood Pressure Regulation. Hypertension, 1996, 28, 297-303.	2.7	86
136	The Renal Medulla and Hypertension. Hypertension, 1995, 25, 663-673.	2.7	184