

# Guo-Qing Zhu

## List of Publications by Year in descending order

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88  
papers

3,041  
citations

201674

27  
h-index

189892

50  
g-index

89  
all docs

89  
docs citations

89  
times ranked

3516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Irisin inhibits hepatic gluconeogenesis and increases glycogen synthesis via the PI3K/Akt pathway in type 2 diabetic mice and hepatocytes. <i>Clinical Science</i> , 2015, 129, 839-850.	4.3	263
2	NLRP3 inflammasome activation contributes to VSMC phenotypic transformation and proliferation in hypertension. <i>Cell Death and Disease</i> , 2017, 8, e3074-e3074.	6.3	179
3	FNDC5 overexpression and irisin ameliorate glucose/lipid metabolic derangements and enhance lipolysis in obesity. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1867-1875.	3.8	168
4	FNDC5 Alleviates Hepatosteatosis by Restoring AMPK/mTOR-Mediated Autophagy, Fatty Acid Oxidation, and Lipogenesis in Mice. <i>Diabetes</i> , 2016, 65, 3262-3275.	0.6	114
5	FNDC5 attenuates adipose tissue inflammation and insulin resistance via AMPK-mediated macrophage polarization in obesity. <i>Metabolism: Clinical and Experimental</i> , 2018, 83, 31-41.	3.4	105
6	Salusin- $\beta$ Promotes Vascular Smooth Muscle Cell Migration and Intimal Hyperplasia After Vascular Injury via ROS/NF- $\kappa$ B/MMP-9 Pathway. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 1045-1057.	5.4	94
7	MiR155 in adventitial fibroblasts derived extracellular vesicles inhibits vascular smooth muscle cell proliferation via suppressing angiotensin converting enzyme expression. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1698795.	12.2	89
8	NLRP3 Gene Deletion Attenuates Angiotensin II-Induced Phenotypic Transformation of Vascular Smooth Muscle Cells and Vascular Remodeling. <i>Cellular Physiology and Biochemistry</i> , 2017, 44, 2269-2280.	1.6	88
9	ANG II in the paraventricular nucleus potentiates the cardiac sympathetic afferent reflex in rats with heart failure. <i>Journal of Applied Physiology</i> , 2004, 97, 1746-1754.	2.5	78
10	Inhibition of reactive oxygen species in hypothalamic paraventricular nucleus attenuates the renin-angiotensin system and proinflammatory cytokines in hypertension. <i>Toxicology and Applied Pharmacology</i> , 2014, 276, 115-120.	2.8	78
11	$\beta$ -aminoisobutyric acid attenuates hepatic endoplasmic reticulum stress and glucose/lipid metabolic disturbance in mice with type 2 diabetes. <i>Scientific Reports</i> , 2016, 6, 21924.	3.3	73
12	Salusin- $\beta$ contributes to oxidative stress and inflammation in diabetic cardiomyopathy. <i>Cell Death and Disease</i> , 2017, 8, e2690-e2690.	6.3	67
13	Salusin- $\beta$ contributes to vascular remodeling associated with hypertension via promoting vascular smooth muscle cell proliferation and vascular fibrosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1709-1718.	3.8	63
14	Inhibition of NF- $\kappa$ B activity in the hypothalamic paraventricular nucleus attenuates hypertension and cardiac hypertrophy by modulating cytokines and attenuating oxidative stress. <i>Toxicology and Applied Pharmacology</i> , 2015, 284, 315-322.	2.8	56
15	Chronic infusion of lisinopril into hypothalamic paraventricular nucleus modulates cytokines and attenuates oxidative stress in rostral ventrolateral medulla in hypertension. <i>Toxicology and Applied Pharmacology</i> , 2014, 279, 141-149.	2.8	53
16	Inhibition of TNF- $\alpha$ in hypothalamic paraventricular nucleus attenuates hypertension and cardiac hypertrophy by inhibiting neurohormonal excitation in spontaneously hypertensive rats. <i>Toxicology and Applied Pharmacology</i> , 2014, 281, 101-108.	2.8	52
17	Enhanced cardiac sympathetic afferent reflex involved in sympathetic overactivity in renovascular hypertensive rats. <i>Experimental Physiology</i> , 2009, 94, 785-794.	2.0	51
18	Central blockade of salusin $\beta$ attenuates hypertension and hypothalamic inflammation in spontaneously hypertensive rats. <i>Scientific Reports</i> , 2015, 5, 11162.	3.3	50

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19	Superoxide anions in the paraventricular nucleus mediate the enhanced cardiac sympathetic afferent reflex and sympathetic activity in renovascular hypertensive rats. <i>Journal of Applied Physiology</i> , 2011, 110, 646-652.	2.5	49
20	TLR4/MyD88/NF- $\kappa$ B signaling and PPAR- $\gamma$ within the paraventricular nucleus are involved in the effects of telmisartan in hypertension. <i>Toxicology and Applied Pharmacology</i> , 2016, 305, 93-102.	2.8	48
21	Chronic infusion of enalaprilat into hypothalamic paraventricular nucleus attenuates angiotensin II-induced hypertension and cardiac hypertrophy by restoring neurotransmitters and cytokines. <i>Toxicology and Applied Pharmacology</i> , 2014, 274, 436-444.	2.8	43
22	Exercise Training Attenuates Hypertension and Cardiac Hypertrophy by Modulating Neurotransmitters and Cytokines in Hypothalamic Paraventricular Nucleus. <i>PLoS ONE</i> , 2014, 9, e85481.	2.5	43
23	Salusin- $\gamma$ induces foam cell formation and monocyte adhesion in human vascular smooth muscle cells via miR155/NOX2/NF $\kappa$ B pathway. <i>Scientific Reports</i> , 2016, 6, 23596.	3.3	40
24	Relaxin in paraventricular nucleus contributes to sympathetic overdrive and hypertension via PI3K-Akt pathway. <i>Neuropharmacology</i> , 2016, 103, 247-256.	4.1	36
25	Endogenous hydrogen peroxide in the hypothalamic paraventricular nucleus regulates neurohormonal excitation in high salt-induced hypertension. <i>Toxicology Letters</i> , 2015, 235, 206-215.	0.8	34
26	Hydrogen sulfide in paraventricular nucleus attenuates blood pressure by regulating oxidative stress and inflammatory cytokines in high salt-induced hypertension. <i>Toxicology Letters</i> , 2017, 270, 62-71.	0.8	34
27	BCL6 attenuates renal inflammation via negative regulation of NLRP3 transcription. <i>Cell Death and Disease</i> , 2017, 8, e3156-e3156.	6.3	33
28	Renin-angiotensin system acting on reactive oxygen species in paraventricular nucleus induces sympathetic activation via AT1R/PKC $\beta$ /Rac1 pathway in salt-induced hypertension. <i>Scientific Reports</i> , 2017, 7, 43107.	3.3	32
29	Tert-butylhydroquinone attenuates oxidative stress and inflammation in hypothalamic paraventricular nucleus in high salt-induced hypertension. <i>Toxicology Letters</i> , 2017, 281, 1-9.	0.8	31
30	FNDC5 Attenuates Oxidative Stress and NLRP3 Inflammasome Activation in Vascular Smooth Muscle Cells via Activating the AMPK-SIRT1 Signal Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-15.	4.0	30
31	Chronic infusion of epigallocatechin-3-O-gallate into the hypothalamic paraventricular nucleus attenuates hypertension and sympathoexcitation by restoring neurotransmitters and cytokines. <i>Toxicology Letters</i> , 2016, 262, 105-113.	0.8	29
32	FNDC5 inhibits foam cell formation and monocyte adhesion in vascular smooth muscle cells via suppressing NF $\kappa$ B-mediated NLRP3 upregulation. <i>Vascular Pharmacology</i> , 2019, 121, 106579.	2.1	29
33	Curcumin attenuates migration of vascular smooth muscle cells via inhibiting NF $\kappa$ B-mediated NLRP3 expression in spontaneously hypertensive rats. <i>Journal of Nutritional Biochemistry</i> , 2019, 72, 108212.	4.2	29
34	Blockade of TLR4 Within the Paraventricular Nucleus Attenuates Blood Pressure by Regulating ROS and Inflammatory Cytokines in Prehypertensive Rats. <i>American Journal of Hypertension</i> , 2018, 31, 1013-1023.	2.0	28
35	Chronic infusion of berberine into the hypothalamic paraventricular nucleus attenuates hypertension and sympathoexcitation via the ROS/Erk1/2/iNOS pathway. <i>Phytomedicine</i> , 2019, 52, 216-224.	5.3	27
36	Irisin lowers blood pressure by activating the Nrf2 signaling pathway in the hypothalamic paraventricular nucleus of spontaneously hypertensive rats. <i>Toxicology and Applied Pharmacology</i> , 2020, 394, 114953.	2.8	27

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37	Reduced lipolysis response to adipose afferent reflex involved in impaired activation of adrenoceptor-cAMP-PKA-hormone sensitive lipase pathway in obesity. <i>Scientific Reports</i> , 2016, 6, 34374.	3.3	25
38	Silencing salusin- $\hat{1}^2$ attenuates cardiovascular remodeling and hypertension in spontaneously hypertensive rats. <i>Scientific Reports</i> , 2017, 7, 43259.	3.3	24
39	Silencing salusin $\hat{1}^2$ ameliorates heart failure in aged spontaneously hypertensive rats by ROS-relative MAPK/NF- $\hat{1}^B$ pathways in the paraventricular nucleus. <i>International Journal of Cardiology</i> , 2019, 280, 142-151.	1.7	24
40	Hypothalamic paraventricular nucleus activation contributes to neurohumoral excitation in rats with heart failure. <i>Regenerative Medicine Research</i> , 2014, 2, 2.	2.5	22
41	Calcitriol ameliorated autonomic dysfunction and hypertension by down-regulating inflammation and oxidative stress in the paraventricular nucleus of SHR. <i>Toxicology and Applied Pharmacology</i> , 2020, 394, 114950.	2.8	22
42	MiR155-5p Inhibits Cell Migration and Oxidative Stress in Vascular Smooth Muscle Cells of Spontaneously Hypertensive Rats. <i>Antioxidants</i> , 2020, 9, 204.	5.1	22
43	Apigenin Improves Hypertension and Cardiac Hypertrophy Through Modulating NADPH Oxidase-Dependent ROS Generation and Cytokines in Hypothalamic Paraventricular Nucleus. <i>Cardiovascular Toxicology</i> , 2021, 21, 721-736.	2.7	22
44	Exercise training attenuates renovascular hypertension partly via RAS- ROS- glutamate pathway in the hypothalamic paraventricular nucleus. <i>Scientific Reports</i> , 2016, 6, 37467.	3.3	21
45	Adipose afferent reflex is enhanced by TNF $\hat{1}^{\pm}$ in paraventricular nucleus through NADPH oxidase-dependent ROS generation in obesity-related hypertensive rats. <i>Journal of Translational Medicine</i> , 2019, 17, 256.	4.4	21
46	BCL6 Attenuates Proliferation and Oxidative Stress of Vascular Smooth Muscle Cells in Hypertension. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-9.	4.0	21
47	RND3 attenuates oxidative stress and vascular remodeling in spontaneously hypertensive rat via inhibiting ROCK1 signaling. <i>Redox Biology</i> , 2021, 48, 102204.	9.0	21
48	Oral CoQ10 attenuates high salt-induced hypertension by restoring neurotransmitters and cytokines in the hypothalamic paraventricular nucleus. <i>Scientific Reports</i> , 2016, 6, 30301.	3.3	20
49	Blockade of Salusin- $\hat{1}^2$ in Hypothalamic Paraventricular Nucleus Attenuates Hypertension and Cardiac Hypertrophy in Salt-induced Hypertensive Rats. <i>Journal of Cardiovascular Pharmacology</i> , 2015, 66, 323-331.	1.9	19
50	PVN Blockade of p44/42 MAPK Pathway Attenuates Salt-induced Hypertension through Modulating Neurotransmitters and Attenuating Oxidative Stress. <i>Scientific Reports</i> , 2017, 7, 43038.	3.3	19
51	Chemical Stimulation of Renal Tissue Induces Sympathetic Activation and a Pressor Response via the Paraventricular Nucleus in Rats. <i>Neuroscience Bulletin</i> , 2020, 36, 143-152.	2.9	19
52	Inhibition of miR-135a-5p attenuates vascular smooth muscle cell proliferation and vascular remodeling in hypertensive rats. <i>Acta Pharmacologica Sinica</i> , 2021, 42, 1798-1807.	6.1	19
53	Superoxide Anions in Paraventricular Nucleus Modulate Adipose Afferent Reflex and Sympathetic Activity in Rats. <i>PLoS ONE</i> , 2013, 8, e83771.	2.5	17
54	Superoxide Anions and NO in the Paraventricular Nucleus Modulate the Cardiac Sympathetic Afferent Reflex in Obese Rats. <i>International Journal of Molecular Sciences</i> , 2018, 19, 59.	4.1	17

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55	Extracellular vesicles in vascular remodeling. <i>Acta Pharmacologica Sinica</i> , 2022, 43, 2191-2201.	6.1	17
56	Blockade of Endogenous Angiotensin-(1 $\alpha$ 7) in Hypothalamic Paraventricular Nucleus Attenuates High Salt-Induced Sympathoexcitation and Hypertension. <i>Neuroscience Bulletin</i> , 2019, 35, 47-56.	2.9	16
57	Paraventricular Nucleus Infusion of Epigallocatechin-3-O-Gallate Improves Renovascular Hypertension. <i>Cardiovascular Toxicology</i> , 2016, 16, 276-285.	2.7	15
58	Chronic Intracerebroventricular Infusion of Metformin Inhibits Salt-Sensitive Hypertension via Attenuation of Oxidative Stress and Neurohormonal Excitation in Rat Paraventricular Nucleus. <i>Neuroscience Bulletin</i> , 2019, 35, 57-66.	2.9	15
59	Extracellular vesicle-mediated miR135a-5p transfer in hypertensive rat contributes to vascular smooth muscle cell proliferation via targeting FNDC5. <i>Vascular Pharmacology</i> , 2021, 140, 106864.	2.1	15
60	Transneuronal tracing of central autonomic regions involved in cardiac sympathetic afferent reflex in rats. <i>Journal of the Neurological Sciences</i> , 2014, 342, 45-51.	0.6	14
61	Exercise Training Attenuates Proinflammatory Cytokines, Oxidative Stress and Modulates Neurotransmitters in the Rostral Ventrolateral Medulla of Salt-Induced Hypertensive Rats. <i>Cellular Physiology and Biochemistry</i> , 2018, 48, 1369-1381.	1.6	14
62	Intermedin in Paraventricular Nucleus Attenuates Sympathoexcitation and Decreases TLR4-Mediated Sympathetic Activation via Adrenomedullin Receptors in Rats with Obesity-Related Hypertension. <i>Neuroscience Bulletin</i> , 2019, 35, 34-46.	2.9	14
63	Angiotensin Type 1 Receptors and Superoxide Anion Production in Hypothalamic Paraventricular Nucleus Contribute to Capsaicin-Induced Excitatory Renal Reflex and Sympathetic Activation. <i>Neuroscience Bulletin</i> , 2020, 36, 463-474.	2.9	14
64	Fibronectin Type III Domain-Containing 5 Attenuates Liver Fibrosis Via Inhibition of Hepatic Stellate Cell Activation. <i>Cellular Physiology and Biochemistry</i> , 2018, 48, 227-236.	1.6	13
65	miR-31-5p Promotes Oxidative Stress and Vascular Smooth Muscle Cell Migration in Spontaneously Hypertensive Rats via Inhibiting FNDC5 Expression. <i>Biomedicines</i> , 2021, 9, 1009.	3.2	13
66	Differences in sympathetic nervous system activity and NMDA receptor levels within the hypothalamic paraventricular nucleus in rats with differential ejaculatory behavior. <i>Asian Journal of Andrology</i> , 2018, 20, 355.	1.6	13
67	Chronic infusion of ELABELA alleviates vascular remodeling in spontaneously hypertensive rats via anti-inflammatory, anti-oxidative and anti-proliferative effects. <i>Acta Pharmacologica Sinica</i> , 2022, 43, 2573-2584.	6.1	13
68	GABA in Paraventricular Nucleus Regulates Adipose Afferent Reflex in Rats. <i>PLoS ONE</i> , 2015, 10, e0136983.	2.5	12
69	Blockade of c-Src Within the Paraventricular Nucleus Attenuates Inflammatory Cytokines and Oxidative Stress in the Mechanism of the TLR4 Signal Pathway in Salt-Induced Hypertension. <i>Neuroscience Bulletin</i> , 2020, 36, 385-395.	2.9	12
70	Central Blockade of E-Prostanoid 3 Receptor Ameliorated Hypertension Partially by Attenuating Oxidative Stress and Inflammation in the Hypothalamic Paraventricular Nucleus of Spontaneously Hypertensive Rats. <i>Cardiovascular Toxicology</i> , 2021, 21, 286-300.	2.7	12
71	Impact of Selective Renal Afferent Denervation on Oxidative Stress and Vascular Remodeling in Spontaneously Hypertensive Rats. <i>Antioxidants</i> , 2022, 11, 1003.	5.1	10
72	Inhibition of Hypothalamic Inhibitor $\beta$ Kinase $\beta$ /Nuclear Transcription Factor $\beta$ Pathway Attenuates Metabolism and Cardiac Dysfunction in Type 2 Diabetic Rats. <i>Neuroendocrinology</i> , 2020, 110, 899-913.	2.5	9

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73	Apelin receptor upregulation in spontaneously hypertensive rat contributes to the enhanced vascular smooth muscle cell proliferation by activating autophagy. <i>Annals of Translational Medicine</i> , 2021, 9, 627-627.	1.7	9
74	Bilateral Paraventricular Nucleus Upregulation of Extracellular Superoxide Dismutase Decreases Blood Pressure by Regulation of the NLRP3 and Neurotransmitters in Salt-Induced Hypertensive Rats. <i>Frontiers in Pharmacology</i> , 2021, 12, 756671.	3.5	9
75	Interleukin-1 $\beta$ in hypothalamic paraventricular nucleus mediates excitatory renal reflex. <i>Pflugers Archiv European Journal of Physiology</i> , 2020, 472, 1577-1586.	2.8	8
76	Adrenomedullin Attenuates Inflammation in White Adipose Tissue of Obese Rats Through Receptor-Mediated PKA Pathway. <i>Obesity</i> , 2021, 29, 86-97.	3.0	8
77	Nrf1 Knock-Down in the Hypothalamic Paraventricular Nucleus Alleviates Hypertension Through Intervention of Superoxide Production-Removal Balance and Mitochondrial Function. <i>Cardiovascular Toxicology</i> , 2021, 21, 472-489.	2.7	8
78	Effects of mu opioid receptors in paraventricular nucleus on ejaculation through mediating sympathetic nerve system activity. <i>Neuropharmacology</i> , 2019, 158, 107709.	4.1	7
79	Chronic Infusion of Astaxanthin Into Hypothalamic Paraventricular Nucleus Modulates Cytokines and Attenuates the Renin-Angiotensin System in Spontaneously Hypertensive Rats. <i>Journal of Cardiovascular Pharmacology</i> , 2021, 77, 170-181.	1.9	6
80	Salusin $\beta$ Within the Nucleus Tractus Solitarii Suppresses Blood Pressure Via Inhibiting the Activities of Presympathetic Neurons in the Rostral Ventrolateral Medulla in Spontaneously Hypertensive Rats. <i>Cardiovascular Toxicology</i> , 2016, 16, 223-234.	2.7	5
81	Reduced nitric oxide in the rostral ventrolateral medulla enhances cardiac sympathetic afferent reflex in rats with chronic heart failure. <i>Acta Physiologica Sinica</i> , 2004, 56, 47-53.	0.5	5
82	Cardiac sympathetic afferent reflex response to intermedin microinjection into paraventricular nucleus is mediated by nitric oxide and $\beta$ -amino butyric acid in hypertensive rats. <i>Experimental Biology and Medicine</i> , 2014, 239, 1352-1359.	2.4	4
83	Upregulated expression of NMDA receptor in the paraventricular nucleus shortens ejaculation latency in rats with experimental autoimmune prostatitis. <i>Andrology</i> , 2021, 9, 352-360.	3.5	4
84	Dysregulation of the Excitatory Renal Reflex in the Sympathetic Activation of Spontaneously Hypertensive Rat. <i>Frontiers in Physiology</i> , 2021, 12, 673950.	2.8	4
85	Salusin- $\beta$ in Intermediate Dorsal Motor Nucleus of the Vagus Regulates Sympathetic-Parasympathetic Balance and Blood Pressure. <i>Biomedicines</i> , 2021, 9, 1118.	3.2	4
86	Prostate-derived IL-1 $\beta$ upregulates expression of NMDA receptor in the paraventricular nucleus and shortens ejaculation latency in rats with experimental autoimmune prostatitis. <i>Asian Journal of Andrology</i> , 2021, .	1.6	1
87	Blood pressure resetting with a chip system in hypertensive rats. <i>FASEB Journal</i> , 2006, 20, A308.	0.5	0
88	Relationship between reactive oxygen species and Angiotensin II in modulating cardiac sympathetic afferent reflex in rats. <i>FASEB Journal</i> , 2006, 20, A1208.	0.5	0