

# Zhongjie Sun

## List of Publications by Year in descending order

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70  
papers

3,366  
citations

147801

31  
h-index

144013

57  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aging, Arterial Stiffness, and Hypertension. <i>Hypertension</i> , 2015, 65, 252-256.	2.7	408
2	Molecular Basis of Klotho: From Gene to Function in Aging. <i>Endocrine Reviews</i> , 2015, 36, 174-193.	20.1	336
3	Current understanding of klotho. <i>Ageing Research Reviews</i> , 2009, 8, 43-51.	10.9	255
4	Klotho Gene Delivery Prevents the Progression of Spontaneous Hypertension and Renal Damage. <i>Hypertension</i> , 2009, 54, 810-817.	2.7	167
5	Nitric oxide, oxidative stress and inflammation in pulmonary arterial hypertension. <i>Journal of Hypertension</i> , 2010, 28, 201-212.	0.5	139
6	Activation of SIRT1 Attenuates Klotho Deficiency-Induced Arterial Stiffness and Hypertension by Enhancing AMP-Activated Protein Kinase Activity. <i>Hypertension</i> , 2016, 68, 1191-1199.	2.7	115
7	Klotho gene delivery suppresses Nox2 expression and attenuates oxidative stress in rat aortic smooth muscle cells via the cAMP/PKA pathway. <i>Aging Cell</i> , 2012, 11, 410-417.	6.7	105
8	Cardiovascular responses to cold exposure. <i>Frontiers in Bioscience - Elite</i> , 2010, E2, 495-503.	1.8	103
9	In Vivo Pancreatic $\beta$ -Cell-Specific Expression of Antiaging Gene Klotho: A Novel Approach for Preserving $\beta$ -Cells in Type 2 Diabetes. <i>Diabetes</i> , 2015, 64, 1444-1458.	0.6	90
10	Molecular Mechanisms of Pulmonary Arterial Remodeling. <i>Molecular Medicine</i> , 2014, 20, 191-201.	4.4	89
11	Klotho Gene Deficiency Causes Salt-Sensitive Hypertension via Monocyte Chemotactic Protein-1/CC Chemokine Receptor 2-Mediated Inflammation. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 121-132.	6.1	89
12	Klotho Deficiency Causes Heart Aging via Impairing the Nrf2-GR Pathway. <i>Circulation Research</i> , 2021, 128, 492-507.	4.5	89
13	Pre-B cell colony enhancing factor (PBEF), a cytokine with multiple physiological functions. <i>Cytokine and Growth Factor Reviews</i> , 2013, 24, 433-442.	7.2	75
14	Antiaging Gene Klotho Attenuates Pancreatic $\beta$ -Cell Apoptosis in Type 1 Diabetes. <i>Diabetes</i> , 2015, 64, 4298-4311.	0.6	73
15	The potential and challenges of using stem cells for cardiovascular repair and regeneration. <i>Genes and Diseases</i> , 2014, 1, 113-119.	3.4	67
16	Haplodeficiency of Klotho Gene Causes Arterial Stiffening via Upregulation of Scleraxis Expression and Induction of Autophagy. <i>Hypertension</i> , 2015, 66, 1006-1013.	2.7	63
17	Antiaging Gene Klotho Enhances Glucose-Induced Insulin Secretion by Up-Regulating Plasma Membrane Levels of TRPV2 in MIN6 $\beta$ -Cells. <i>Endocrinology</i> , 2012, 153, 3029-3039.	2.8	60
18	Genetic Deficiency of Anti-Aging Gene Klotho Exacerbates Early Nephropathy in STZ-Induced Diabetes in Male Mice. <i>Endocrinology</i> , 2013, 154, 3855-3863.	2.8	60

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19	Klotho Deficiency Accelerates Stem Cells Aging by Impairing Telomerase Activity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 1396-1407.	3.6	58
20	Stem cell-derived extracellular vesicles mitigate ageing-associated arterial stiffness and hypertension. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1783869.	12.2	54
21	Aging-related kidney damage is associated with a decrease in klotho expression and an increase in superoxide production. <i>Age</i> , 2011, 33, 261-274.	3.0	53
22	The Antiaging Gene <i>Klotho</i> Regulates Proliferation and Differentiation of Adipose-Derived Stem Cells. <i>Stem Cells</i> , 2016, 34, 1615-1625.	3.2	51
23	Ribonucleic Acid Interference Knockdown of Interleukin 6 Attenuates Cold-Induced Hypertension. <i>Hypertension</i> , 2010, 55, 1484-1491.	2.7	49
24	Antiaging Gene Klotho Deficiency Promoted High-Fat Diet-Induced Arterial Stiffening via Inactivation of AMP-Activated Protein Kinase. <i>Hypertension</i> , 2016, 67, 564-573.	2.7	48
25	Deficiency in the anti-aging gene Klotho promotes aortic valve fibrosis through AMPK-mediated activation of RUNX2. <i>Aging Cell</i> , 2016, 15, 853-860.	6.7	41
26	Antiaging Gene Klotho Regulates Adrenal CYP11B2 Expression and Aldosterone Synthesis. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 1765-1776.	6.1	40
27	A Special Report on the NHLBI Initiative to Study Cellular and Molecular Mechanisms of Arterial Stiffness and Its Association With Hypertension. <i>Circulation Research</i> , 2017, 121, 1216-1218.	4.5	38
28	Monocrotaline-Induced Pulmonary Hypertension Involves Downregulation of Antiaging Protein Klotho and eNOS Activity. <i>Hypertension</i> , 2016, 68, 1255-1263.	2.7	37
29	Activation of DNA demethylases attenuates aging-associated arterial stiffening and hypertension. <i>Aging Cell</i> , 2018, 17, e12762.	6.7	37
30	Effects of chronic cold exposure on the endothelin system. <i>Journal of Applied Physiology</i> , 2006, 100, 1719-1726.	2.5	36
31	Secreted Klotho Attenuates Inflammation-Associated Aortic Valve Fibrosis in Senescence-Accelerated Mice P1. <i>Hypertension</i> , 2018, 71, 877-885.	2.7	34
32	RNAi inhibition of mineralocorticoid receptors prevents the development of cold-induced hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H1880-H1887.	3.2	33
33	Autophagy plays a critical role in Klotho gene deficiency-induced arterial stiffening and hypertension. <i>Journal of Molecular Medicine</i> , 2019, 97, 1615-1625.	3.9	33
34	AAV Delivery of Tumor Necrosis Factor- $\beta$ Short Hairpin RNA Attenuates Cold-Induced Pulmonary Hypertension and Pulmonary Arterial Remodeling. <i>Hypertension</i> , 2014, 64, 1141-1150.	2.7	30
35	Stem cells and anti-aging genes: double-edged sword do the same job of life extension. <i>Stem Cell Research and Therapy</i> , 2018, 9, 3.	5.5	29
36	Human eNOS gene delivery attenuates cold-induced elevation of blood pressure in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H1161-H1168.	3.2	28

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37	Inhibition of Phosphodiesterase-1 Attenuates Cold-Induced Pulmonary Hypertension. <i>Hypertension</i> , 2013, 61, 585-592.	2.7	28
38	Epigenetic Regulation of KL (Klotho) via H3K27me3 (Histone 3 Lysine [K] 27 Trimethylation) in Renal Tubule Cells. <i>Hypertension</i> , 2020, 75, 1233-1241.	2.7	24
39	Thyroid hormone induces artery smooth muscle cell proliferation: discovery of a new TRÎ±1â€Nox1 pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2010, 14, 368-380.	3.6	22
40	In vivo AAV delivery of glutathione reductase gene attenuates anti-aging gene klotho deficiency-induced kidney damage. <i>Redox Biology</i> , 2020, 37, 101692.	9.0	21
41	AAV-Based RNAi Silencing of NADPH Oxidase gp91<sup><i>phox</i></sup> Attenuates Cold-Induced Cardiovascular Dysfunction. <i>Human Gene Therapy</i> , 2012, 23, 1016-1026.	2.7	20
42	AAV Delivery of Endothelin-1 shRNA Attenuates Cold-Induced Hypertension. <i>Human Gene Therapy</i> , 2017, 28, 190-199.	2.7	18
43	Normal IgG Downregulates the Intracellular Superoxide Level and Attenuates Migration and Permeability in Human Aortic Endothelial Cells Isolated From a Hypertensive Patient. <i>Hypertension</i> , 2012, 60, 818-826.	2.7	15
44	<i>Klotho</i> deficiencyâ€“induced arterial calcification involves osteoblastic transition of VSMCs and activation of BMP signaling. <i>Journal of Cellular Physiology</i> , 2022, 237, 720-729.	4.1	15
45	MicroRNA 379 Regulates Klotho Deficiencyâ€“Induced Cardiomyocyte Apoptosis Via Repression of Smurf1. <i>Hypertension</i> , 2021, 78, 342-352.	2.7	15
46	Induction of anti-aging gene klotho with a small chemical compound that demethylates CpG islands. <i>Oncotarget</i> , 2017, 8, 46745-46755.	1.8	14
47	Regulation of S-formylglutathione hydrolase by the anti-aging gene klotho. <i>Oncotarget</i> , 2017, 8, 88259-88275.	1.8	12
48	Estrogen inhibits renal Na-Pi Co-transporters and improves klotho deficiency-induced acute heart failure. <i>Redox Biology</i> , 2021, 47, 102173.	9.0	12
49	Platelet TLR4. <i>Circulation Research</i> , 2014, 114, 1551-1553.	4.5	8
50	Kidney-Specific <i>Klotho</i> Gene Deletion Causes Aortic Aneurysm via Hyperphosphatemia. <i>Hypertension</i> , 2021, 78, 308-319.	2.7	8
51	In Vivo Cardiac-specific Expression of Adenylyl Cyclase 4 Gene Protects against Klotho Deficiency-induced Heart Failure. <i>Translational Research</i> , 2022, 244, 101-113.	5.0	7
52	Adult Mouse Kidney Stem Cells Orchestrate the De Novo Assembly of a Nephron via Sirt2â€“Modulated Canonical Wnt/ <i>Î²&lt;/i&gt;&lt;/i&gt;â€“Catenin Signaling. <i>Advanced Science</i>, 2022, 9, e2104034.</i>	11.2	5
53	Stem cell therapy for pulmonary arterial hypertension: An update. <i>Journal of Heart and Lung Transplantation</i> , 2022, 41, 692-703.	0.6	5
54	Transplantation of bone marrow cells from miR150 knockout mice improves senescence-associated humoral immune dysfunction and arterial stiffness. <i>Metabolism: Clinical and Experimental</i> , 2022, 134, 155249.	3.4	2

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55	Thyroid hormone induces artery smooth muscle cell proliferation: discovery of a new TRÎ±1â€Nox1 pathway. FASEB Journal, 2008, 22, 1147.11.	0.5	1
56	Genetic B Lymphocyte Deficiency Attenuates Coldâ€induced Hypertension. FASEB Journal, 2010, 24, 792.6.	0.5	1
57	Klotho Gene Deficiency Exacerbates Early Diabetic Nephropathy. FASEB Journal, 2013, 27, 955.18.	0.5	1
58	AAV Delivery of gp91â€shRNA Stimulates Synthesis and Release of Insulin and Attenuates Blood Glucose Level in Type 2 Diabetes. FASEB Journal, 2008, 22, 1226.9.	0.5	0
59	Endothelinâ€1 Inhibits Nox1 in Human Abdominal Aortic Endothelial cells: a Novel Function of ETB1 receptors. FASEB Journal, 2008, 22, 1235.4.	0.5	0
60	Role of Phosphodiesterase 1A in Coldâ€induced Hypertension and Cardiac Hypertrophy. FASEB Journal, 2009, 23, 802.8.	0.5	0
61	Agingâ€Related Renal Damage Is Associated with Decreased Klotho Expression and Increased Superoxide Production. FASEB Journal, 2010, 24, 1059.14.	0.5	0
62	Klotho Gene Delivery Suppresses Endothelinâ€1 Production but Upregulates ETB Receptors in Kidneys in SHR. FASEB Journal, 2010, 24, 812.20.	0.5	0
63	Thyroid Hormone Ameliorates Diabetic Nephropathy in Type II Diabetes. FASEB Journal, 2010, 24, 812.4.	0.5	0
64	RNAi Inhibition of Interleukinâ€6 Attenuates Coldâ€induced Hypertension. FASEB Journal, 2010, 24, 792.1.	0.5	0
65	Klotho Gene Deficiency Causes Hypertension and Kidney Damage. FASEB Journal, 2011, 25, 661.13.	0.5	0
66	Cold Exposure Causes Pulmonary Hypertension via Upregulation of Phosphodiesterase 1C (PDE1C). FASEB Journal, 2011, 25, 661.12.	0.5	0
67	Klotho Regulates ETB Receptor Expression via the PKC/câ€Jun Pathway. FASEB Journal, 2011, 25, 666.5.	0.5	0
68	Klotho Enhances Glucoseâ€induced Insulin Secretion by Upregulating Plasma Membrane Retention of TRPV2. FASEB Journal, 2012, 26, 713.4.	0.5	0
69	RNAi Silencing of TNFÎ± Attenuates Coldâ€induced Pulmonary Hypertension (CIPH). FASEB Journal, 2012, 26, 874.8.	0.5	0
70	Inhibition fibroblast growth factor receptor (FGFR) attenuates antiâ€aging gene klotho deficiency induced hypertension. FASEB Journal, 2013, 27, 906.1.	0.5	0