

# Ming-Chang Hu

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

14,576  
citations

94269

37  
h-index

118652

62  
g-index

65  
all docs

65  
docs citations

65  
times ranked

20825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	FGF23 induces left ventricular hypertrophy. <i>Journal of Clinical Investigation</i> , 2011, 121, 4393-4408.	3.9	1,684
3	Regulation of Fibroblast Growth Factor-23 Signaling by Klotho. <i>Journal of Biological Chemistry</i> , 2006, 281, 6120-6123.	1.6	1,174
4	Klotho Deficiency Causes Vascular Calcification in Chronic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2011, 22, 124-136.	3.0	787
5	Klotho: a novel phosphaturic substance acting as an autocrine enzyme in the renal proximal tubule. <i>FASEB Journal</i> , 2010, 24, 3438-3450.	0.2	511
6	Fibroblast Growth Factor 23 and Klotho: Physiology and Pathophysiology of an Endocrine Network of Mineral Metabolism. <i>Annual Review of Physiology</i> , 2013, 75, 503-533.	5.6	478
7	Disruption of the beclin 1/BCL2 autophagy regulatory complex promotes longevity in mice. <i>Nature</i> , 2018, 558, 136-140.	13.7	466
8	Î±-Klotho is a non-enzymatic molecular scaffold for FGF23 hormone signalling. <i>Nature</i> , 2018, 553, 461-466.	13.7	348
9	Isolated C-terminal tail of FGF23 alleviates hypophosphatemia by inhibiting FGF23-FGFR-Klotho complex formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 407-412.	3.3	327
10	Klotho deficiency is an early biomarker of renal ischemia/reperfusion injury and its replacement is protective. <i>Kidney International</i> , 2010, 78, 1240-1251.	2.6	312
11	The Kidney Is the Principal Organ Mediating Klotho Effects. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 2169-2175.	3.0	238
12	Klotho and Phosphate Are Modulators of Pathologic Uremic Cardiac Remodeling. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 1290-1302.	3.0	231
13	Vitamin D receptor agonists increase klotho and osteopontin while decreasing aortic calcification in mice with chronic kidney disease fed a high phosphate diet. <i>Kidney International</i> , 2012, 82, 1261-1270.	2.6	228
14	Renal Production, Uptake, and Handling of Circulating Î±Klotho. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 79-90.	3.0	203
15	Recombinant Î±-Klotho may be prophylactic and therapeutic for acute to chronic kidney disease progression and uremic cardiomyopathy. <i>Kidney International</i> , 2017, 91, 1104-1114.	2.6	193
16	Klotho and Chronic Kidney Disease. <i>Contributions To Nephrology</i> , 2013, 180, 47-63.	1.1	171
17	Klotho/FGF23 Axis in Chronic Kidney Disease and Cardiovascular Disease. <i>Kidney Diseases (Basel, Switzerland)</i> , 2014, 1, 1-14.	1.2	143
18	Adiponectin Promotes Functional Recovery after Podocyte Ablation. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 268-282.	3.0	142

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19	Î±Klotho Mitigates Progression of AKI to CKD through Activation of Autophagy. Journal of the American Society of Nephrology: JASN, 2016, 27, 2331-2345.	3.0	142
20	Klotho as a potential biomarker and therapy for acute kidney injury. Nature Reviews Nephrology, 2012, 8, 423-429.	4.1	138
21	Dopamine Acutely Stimulates Na <sup>+</sup> /H <sup>+</sup> Exchanger (NHE3) Endocytosis via Clathrin-coated Vesicles. Journal of Biological Chemistry, 2001, 276, 26906-26915.	1.6	137
22	Renal and Extrarenal Actions of Klotho. Seminars in Nephrology, 2013, 33, 118-129.	0.6	136
23	The demonstration of Î±Klotho deficiency in human chronic kidney disease with a novel synthetic antibody. Nephrology Dialysis Transplantation, 2015, 30, 223-233.	0.4	124
24	The emerging role of Klotho in clinical nephrology. Nephrology Dialysis Transplantation, 2012, 27, 2650-2657.	0.4	113
25	Secreted Klotho and Chronic Kidney Disease. Advances in Experimental Medicine and Biology, 2012, 728, 126-157.	0.8	110
26	Klotho has dual protective effects on cisplatin-induced acute kidney injury. Kidney International, 2014, 85, 855-870.	2.6	102
27	Î±Klotho protects against oxidative damage in pulmonary epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L566-L575.	1.3	97
28	Klotho, stem cells, and aging. Clinical Interventions in Aging, 2015, 10, 1233.	1.3	91
29	Potential application of klotho in human chronic kidney disease. Bone, 2017, 100, 41-49.	1.4	91
30	Klotho in Clinical Nephrology. Clinical Journal of the American Society of Nephrology: CJASN, 2021, 16, 162-176.	2.2	79
31	Epithelial innate immunity mediates tubular cell senescence after kidney injury. JCI Insight, 2019, 4, .	2.3	78
32	The Hormone FGF21 Stimulates Water Drinking in Response to Ketogenic Diet and Alcohol. Cell Metabolism, 2018, 27, 1338-1347.e4.	7.2	72
33	The erythropoietin receptor is a downstream effector of Klotho-induced cytoprotection. Kidney International, 2013, 84, 468-481.	2.6	58
34	Cisplatin nephrotoxicity as a model of chronic kidney disease. Laboratory Investigation, 2018, 98, 1105-1121.	1.7	57
35	High dietary phosphate intake induces hypertension and augments exercise pressor reflex function in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R39-R48.	0.9	41
36	Role of Î±Klotho and FGF23 in regulation of type II Na-dependent phosphate co-transporters. Pflugers Archiv European Journal of Physiology, 2019, 471, 99-108.	1.3	40

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37	Fibroblast growth factor 21 in chronic kidney disease. <i>Journal of Nephrology</i> , 2019, 32, 365-377.	0.9	38
38	Interaction between the autophagy protein Beclin 1 and Na <sup>+</sup> ,K <sup>+</sup> -ATPase during starvation, exercise, and ischemia. <i>JCI Insight</i> , 2020, 5, .	2.3	37
39	High-Phosphate Diet Induces Exercise Intolerance and Impairs Fatty Acid Metabolism in Mice. <i>Circulation</i> , 2019, 139, 1422-1434.	1.6	36
40	Beclin 1/Bcl-2 complex-dependent autophagy activity modulates renal susceptibility to ischemia-reperfusion injury and mediates renoprotection by Klotho. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F772-F792.	1.3	36
41	Downregulation of autophagy is associated with severe ischemia-reperfusion-induced acute kidney injury in overexpressing C-reactive protein mice. <i>PLoS ONE</i> , 2017, 12, e0181848.	1.1	35
42	Klotho and kidney disease. <i>Journal of Nephrology</i> , 2010, 23 Suppl 16, S136-44.	0.9	33
43	±Klotho deficiency in acute kidney injury contributes to lung damage. <i>Journal of Applied Physiology</i> , 2016, 120, 723-732.	1.2	30
44	Acute regulation of renal Na <sup>+</sup> /H <sup>+</sup> exchanger NHE3 by dopamine: role of protein phosphatase 2A. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, F1205-F1213.	1.3	27
45	Effects of erythropoietin receptor activity on angiogenesis, tubular injury, and fibrosis in acute kidney injury: a U-shaped relationship. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F501-F516.	1.3	27
46	Kidney Tubular Damage and Functional Biomarkers in Acute Kidney Injury Following Cardiac Surgery. <i>Kidney International Reports</i> , 2019, 4, 1131-1142.	0.4	26
47	High Phosphate Induces and Klotho Attenuates Kidney Epithelial Senescence and Fibrosis. <i>Frontiers in Pharmacology</i> , 2020, 11, 1273.	1.6	24
48	Chronic regulation of the renal Na <sup>+</sup> /H <sup>+</sup> exchanger NHE3 by dopamine: translational and posttranslational mechanisms. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, F1169-F1180.	1.3	21
49	In Vivo evidence for therapeutic applications of beclin 1 to promote recovery and inhibit fibrosis after acute kidney injury. <i>Kidney International</i> , 2022, 101, 63-78.	2.6	21
50	Urine Klotho Is Lower in Critically Ill Patients With Versus Without Acute Kidney Injury and Associates With Major Adverse Kidney Events. , 2019, 1, e0016.		20
51	±Klotho and vascular calcification. <i>Current Opinion in Nephrology and Hypertension</i> , 2014, 23, 331-339.	1.0	19
52	The tripartite interaction of phosphate, autophagy, and ±Klotho in health maintenance. <i>FASEB Journal</i> , 2020, 34, 3129-3150.	0.2	18
53	The reduction of Na/H exchanger-3 protein and transcript expression in acute ischemia reperfusion injury is mediated by extractable tissue factor(s). <i>Kidney International</i> , 2011, 80, 822-831.	2.6	17
54	Fibroblast growth factor 23 and acute kidney injury. <i>Pediatric Nephrology</i> , 2015, 30, 1909-1918.	0.9	12

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55	Klotho connects intermedin to suppression of vascular calcification in chronic kidney disease. <i>Kidney International</i> , 2016, 89, 534-537.	2.6	12
56	Dapagliflozin Attenuates Sympathetic and Pressor Responses to Stress in Young Prehypertensive Spontaneously Hypertensive Rats. <i>Hypertension</i> , 2022, 79, 1824-1834.	1.3	9
57	Dietary vitamin D interacts with high phosphate-induced cardiac remodeling in rats with normal renal function. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 411-421.	0.4	7
58	Phosphate and Cellular Senescence. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1362, 55-72.	0.8	5
59	Fibroblast Growth Factor 23 and Klotho in Acute Kidney Injury: Current Status in Diagnostic and Therapeutic Applications. <i>Nephron</i> , 2020, 144, 665-672.	0.9	4
60	High Dietary Phosphate Exacerbates and Acts Independently of Low Autophagy Activity in Pathological Cardiac Remodeling and Dysfunction. <i>Cells</i> , 2021, 10, 777.	1.8	4
61	In search of alternatively spliced Klotho Kl1 protein in mouse brain. <i>FASEB BioAdvances</i> , 2021, 3, 531-540.	1.3	4
62	Dopamine reduces cell surface Na <sup>+</sup> /H <sup>+</sup> exchanger-3 protein by decreasing NHE3 exocytosis and cell membrane recycling. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F1018-F1025.	1.3	2
63	Klotho gene and protein measurements in humans and their role as a clinical biomarker of disease. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 111, 265-298.		0
64	Kidney Injury Stimulates Apical Translocation of NHERF1. <i>FASEB Journal</i> , 2022, 36, .	0.2	0