

Ming-Chang Hu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

11,490
citations

33
h-index

65
g-index

65
ext. papers

13,349
ext. citations

8.5
avg, IF

5.84
L-index

#	Paper	IF	Citations
61	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
60	FGF23 induces left ventricular hypertrophy. <i>Journal of Clinical Investigation</i> , 2011 , 121, 4393-408	15.9	1351
59	Regulation of fibroblast growth factor-23 signaling by klotho. <i>Journal of Biological Chemistry</i> , 2006 , 281, 6120-3	5.4	1008
58	Klotho deficiency causes vascular calcification in chronic kidney disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2011 , 22, 124-36	12.7	649
57	Klotho: a novel phosphaturic substance acting as an autocrine enzyme in the renal proximal tubule. <i>FASEB Journal</i> , 2010 , 24, 3438-50	0.9	439
56	Fibroblast growth factor 23 and Klotho: physiology and pathophysiology of an endocrine network of mineral metabolism. <i>Annual Review of Physiology</i> , 2013 , 75, 503-33	23.1	386
55	Disruption of the beclin 1-BCL2 autophagy regulatory complex promotes longevity in mice. <i>Nature</i> , 2018 , 558, 136-140	50.4	287
54	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, 407-12	11.5	277
53	κKlotho is a non-enzymatic molecular scaffold for FGF23 hormone signalling. <i>Nature</i> , 2018 , 553, 461-466	50.4	248
52	Klotho deficiency is an early biomarker of renal ischemia-reperfusion injury and its replacement is protective. <i>Kidney International</i> , 2010 , 78, 1240-51	9.9	248
51	The kidney is the principal organ mediating klotho effects. <i>Journal of the American Society of Nephrology: JASN</i> , 2014 , 25, 2169-75	12.7	189
50	Klotho and phosphate are modulators of pathologic uremic cardiac remodeling. <i>Journal of the American Society of Nephrology: JASN</i> , 2015 , 26, 1290-302	12.7	187
49	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, 1261-70	9.9	181
48	Renal Production, Uptake, and Handling of Circulating κKlotho. <i>Journal of the American Society of Nephrology: JASN</i> , 2016 , 27, 79-90	12.7	148
47	Recombinant κKlotho may be prophylactic and therapeutic for acute to chronic kidney disease progression and uremic cardiomyopathy. <i>Kidney International</i> , 2017 , 91, 1104-1114	9.9	135
46	Klotho and chronic kidney disease. <i>Contributions To Nephrology</i> , 2013 , 180, 47-63	1.6	130
45	Dopamine acutely stimulates Na ⁺ /H ⁺ exchanger (NHE3) endocytosis via clathrin-coated vesicles: dependence on protein kinase A-mediated NHE3 phosphorylation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26906-15	5.4	129

44	Renal and extrarenal actions of Klotho. <i>Seminars in Nephrology</i> , 2013 , 33, 118-29	4.8	110
43	Adiponectin promotes functional recovery after podocyte ablation. <i>Journal of the American Society of Nephrology: JASN</i> , 2013 , 24, 268-82	12.7	105
42	Klotho as a potential biomarker and therapy for acute kidney injury. <i>Nature Reviews Nephrology</i> , 2012 , 8, 423-9	14.9	101
41	The demonstration of Klotho deficiency in human chronic kidney disease with a novel synthetic antibody. <i>Nephrology Dialysis Transplantation</i> , 2015 , 30, 223-33	4.3	96
40	Klotho Mitigates Progression of AKI to CKD through Activation of Autophagy. <i>Journal of the American Society of Nephrology: JASN</i> , 2016 , 27, 2331-45	12.7	96
39	The emerging role of Klotho in clinical nephrology. <i>Nephrology Dialysis Transplantation</i> , 2012 , 27, 2650-7	4.3	96
38	Klotho/FGF23 Axis in Chronic Kidney Disease and Cardiovascular Disease. <i>Kidney Diseases (Basel, Switzerland)</i> , 2017 , 3, 15-23	3.3	90
37	Secreted klotho and chronic kidney disease. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 728, 126-57	3.6	87
36	Klotho has dual protective effects on cisplatin-induced acute kidney injury. <i>Kidney International</i> , 2014 , 85, 855-70	9.9	79
35	Klotho protects against oxidative damage in pulmonary epithelia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 307, L566-75	5.8	78
34	Potential application of klotho in human chronic kidney disease. <i>Bone</i> , 2017 , 100, 41-49	4.7	67
33	Klotho, stem cells, and aging. <i>Clinical Interventions in Aging</i> , 2015 , 10, 1233-43	4	61
32	The Hormone FGF21 Stimulates Water Drinking in Response to Ketogenic Diet and Alcohol. <i>Cell Metabolism</i> , 2018 , 27, 1338-1347.e4	24.6	50
31	The erythropoietin receptor is a downstream effector of Klotho-induced cytoprotection. <i>Kidney International</i> , 2013 , 84, 468-81	9.9	49
30	Epithelial innate immunity mediates tubular cell senescence after kidney injury. <i>JCI Insight</i> , 2019 , 4,	9.9	48
29	Cisplatin nephrotoxicity as a model of chronic kidney disease. <i>Laboratory Investigation</i> , 2018 , 98, 1105-1121	5.2	41
28	Klotho and kidney disease. <i>Journal of Nephrology</i> , 2010 , 23 Suppl 16, S136-44	4.8	33
27	High dietary phosphate intake induces hypertension and augments exercise pressor reflex function in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 311, R39-48	3.2	29

26	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	3.7	29
25	Klotho in Clinical Nephrology: Diagnostic and Therapeutic Implications. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2020 , 16, 162-176	6.9	28
24	Role of Klotho and FGF23 in regulation of type II Na-dependent phosphate co-transporters. <i>Pflügers Archiv European Journal of Physiology</i> , 2019 , 471, 99-108	4.6	26
23	Acute regulation of renal Na ⁺ /H ⁺ exchanger NHE3 by dopamine: role of protein phosphatase 2A. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 298, F1205-13	4.3	25
22	Fibroblast growth factor 21 in chronic kidney disease. <i>Journal of Nephrology</i> , 2019 , 32, 365-377	4.8	25
21	Klotho deficiency in acute kidney injury contributes to lung damage. <i>Journal of Applied Physiology</i> , 2016 , 120, 723-32	3.7	23
20	Chronic regulation of the renal Na ⁽⁺⁾ /H ⁽⁺⁾ exchanger NHE3 by dopamine: translational and posttranslational mechanisms. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 304, F1169-80	4.3	18
19	Klotho and vascular calcification: an evolving paradigm. <i>Current Opinion in Nephrology and Hypertension</i> , 2014 , 23, 331-9	3.5	16
18	High-Phosphate Diet Induces Exercise Intolerance and Impairs Fatty Acid Metabolism in Mice. <i>Circulation</i> , 2019 , 139, 1422-1434	16.7	16
17	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	4.3	16
16	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	9.9	15
15	Interaction between the autophagy protein Beclin 1 and Na ⁺ ,K ⁺ -ATPase during starvation, exercise, and ischemia. <i>JCI Insight</i> , 2020 , 5,	9.9	14
14	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	4.3	13
13	Kidney Tubular Damage and Functional Biomarkers in Acute Kidney Injury Following Cardiac Surgery. <i>Kidney International Reports</i> , 2019 , 4, 1131-1142	4.1	12
12	Fibroblast growth factor 23 and acute kidney injury. <i>Pediatric Nephrology</i> , 2015 , 30, 1909-18	3.2	11
11	Urine Klotho Is Lower in Critically Ill Patients With Versus Without Acute Kidney Injury and Associates With Major Adverse Kidney Events 2019 , 1,		11
10	Klotho connects intermedin1-53 to suppression of vascular calcification in chronic kidney disease. <i>Kidney International</i> , 2016 , 89, 534-7	9.9	10
9	The tripartite interaction of phosphate, autophagy, and Klotho in health maintenance. <i>FASEB Journal</i> , 2020 , 34, 3129-3150	0.9	9

8	High Phosphate Induces and Klotho Attenuates Kidney Epithelial Senescence and Fibrosis. <i>Frontiers in Pharmacology</i> , 2020 , 11, 1273	5.6	9
7	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	4.3	4
6	In vivo evidence for therapeutic applications of beclin 1 to promote recovery and inhibit fibrosis after acute kidney injury. <i>Kidney International</i> , 2021 ,	9.9	3
5	Dopamine reduces cell surface Na/H exchanger-3 protein by decreasing NHE3 exocytosis and cell membrane recycling. <i>American Journal of Physiology - Renal Physiology</i> , 2017 , 313, F1018-F1025	4.3	2
4	In search of alternatively spliced alpha-Klotho K11 protein in mouse brain. <i>FASEB BioAdvances</i> , 2021 , 3, 531-540	2.8	2
3	Phosphate and Cellular Senescence.. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 1362, 55-72	3.6	1
2	Fibroblast Growth Factor 23 and Klotho in Acute Kidney Injury: Current Status in Diagnostic and Therapeutic Applications. <i>Nephron</i> , 2020 , 144, 665-672	3.3	0
1	Klotho gene and protein measurements in humans and their role as a clinical biomarker of disease 2021 , 265-298		