Kenneth R Hallows

List of Publications by Year
in descending order

81 papers	4,930 citations	81839 39 h-index	95218 68 g-index
106 all docs	106 docs citations	106 times ranked	8081 citing authors

#	Article	IF	Citations
1	Metformin improves relevant disease parameters in an autosomal dominant polycystic kidney disease mouse model. American Journal of Physiology - Renal Physiology, 2022, 322, F27-F41.	1.3	38
2	Effects of Hydrochlorothiazide and Metformin on Aquaresis and Nephroprotection by a Vasopressin V2 Receptor Antagonist in ADPKD. Clinical Journal of the American Society of Nephrology: CJASN, 2022, 17, 507-517.	2.2	18
3	Oral delivery of metformin by chitosan nanoparticles for polycystic kidney disease. Journal of Controlled Release, 2021, 329, 1198-1209.	4.8	49
4	Association of Baseline Urinary Metabolic Biomarkers with ADPKD Severity in TAME-PKD Clinical Trial Participants. Kidney360, 2021, 2, 795-808.	0.9	10
5	Generation of patterned kidney organoids that recapitulate the adult kidney collecting duct system from expandable ureteric bud progenitors. Nature Communications, 2021, 12, 3641.	5.8	54
6	Primary results of the randomized trial of metformin administration in polycystic kidney disease (TAME PKD). Kidney International, 2021, 100, 684-696.	2.6	48
7	AMPK is activated during lysosomal damage via a galectin-ubiquitin signal transduction system. Autophagy, 2020, 16, 1550-1552.	4.3	26
8	AMPK, a Regulator of Metabolism and Autophagy, Is Activated by Lysosomal Damage via a Novel Galectin-Directed Ubiquitin Signal Transduction System. Molecular Cell, 2020, 77, 951-969.e9.	4.5	103
9	Activation of AMPâ€activated protein kinase during sepsis/inflammation improves survival by preserving cellular metabolic fitness. FASEB Journal, 2020, 34, 7036-7057.	0.2	42
10	Baseline Characteristics and Patient-Reported Outcomes of ADPKD Patients in the Multicenter TAME-PKD Clinical Trial. Kidney360, 2020, 1, 1363-1372.	0.9	7
11	Sexâ€differences in AMPK activity and kidney function parameters post uninephrectomy. FASEB Journal, 2020, 34, 1-1.	0.2	0
12	Fundamentals of Epithelial Na+ Absorption. Physiology in Health and Disease, 2020, , 291-336.	0.2	0
13	AMPK phosphorylation of the Î²₁Pix exchange factor regulates the assembly and function of an ENaC inhibitory complex in kidney epithelial cells. American Journal of Physiology - Renal Physiology, 2019, 317, F1513-F1525.	1.3	5
14	Ex vivo kidney slice preparations as a model system to study signaling cascades in kidney epithelial cells. Methods in Cell Biology, 2019, 153, 185-203.	0.5	4
15	MIF Matters: The Macrophage Migration Inhibitory Factor and Kidney Injury. American Journal of Kidney Diseases, 2019, 73, 429-431.	2.1	6
16	A Randomized Clinical Trial of Metformin to Treat Autosomal Dominant Polycystic Kidney Disease. American Journal of Nephrology, 2018, 47, 352-360.	1.4	47
17	â€œFirst do no harmâ€: kidney drug targeting to avoid toxicity in ADPKD. American Journal of Physiology - Renal Physiology, 2018, 315, F535-F536.	1.3	6
18	Î²1Pix exchange factor stabilizes the ubiquitin ligase Nedd4-2 and plays a critical role in ENaC regulation by AMPK in kidney epithelial cells. Journal of Biological Chemistry, 2018, 293, 11612-11624.	1.6	17

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19	Design and in vivo characterization of kidney-targeting multimodal micelles for renal drug delivery. Nano Research, 2018, 11, 5584-5595.	5.8	52
20	Metabolic acidosis inhibits AMPK function in kidney cells. FASEB Journal, 2018, 32, 851.13.	0.2	0
21	Î² 1 Pix Stabilizes Nedd4â€2 and Plays a Critical Role in ENaC Regulation by AMPK in Kidney Epithelial Cells. FASEB Journal, 2018, 32, 747.9.	0.2	0
22	Role of AMP-activated protein kinase in kidney tubular transport, metabolism, and disease. Current Opinion in Nephrology and Hypertension, 2017, 26, 375-383.	1.0	57
23	Lack of Effects of Metformin and AICAR Chronic Infusion on the Development of Hypertension in Dahl Salt-Sensitive Rats. Frontiers in Physiology, 2017, 8, 227.	1.3	16
24	Renoprotective Effects of Metformin are Independent of Organic Cation Transporters 1 & 2 and AMP-activated Protein Kinase in the Kidney. Scientific Reports, 2016, 6, 35952.	1.6	32
25	Activation of the metabolic sensor AMP-activated protein kinase inhibits aquaporin-2 function in kidney principal cells. American Journal of Physiology - Renal Physiology, 2016, 311, F890-F900.	1.3	19
26	Aurora kinase A activates the vacuolar H⁺-ATPase (V-ATPase) in kidney carcinoma cells. American Journal of Physiology - Renal Physiology, 2016, 310, F1216-F1228.	1.3	7
27	Fundamentals of Epithelial Na+ Absorption. , 2016, , 49-94.		1
28	Muc1 is protective during kidney ischemia-reperfusion injury. American Journal of Physiology - Renal Physiology, 2015, 308, F1452-F1462.	1.3	35
29	Interactions between HIF-1Î± and AMPK in the regulation of cellular hypoxia adaptation in chronic kidney disease. American Journal of Physiology - Renal Physiology, 2015, 309, F414-F428.	1.3	59
30	Epithelial morphological reversion drives Profilin-1-induced elevation of p27^{kip1}in mesenchymal triple-negative human breast cancer cells through AMP-activated protein kinase activation. Cell Cycle, 2015, 14, 2914-2923.	1.3	6
31	Alternatively spliced proline-rich cassettes link WNK1 to aldosterone action. Journal of Clinical Investigation, 2015, 125, 3433-3448.	3.9	58
32	Akt recruits Dab2 to albumin endocytosis in the proximal tubule. American Journal of Physiology - Renal Physiology, 2014, 307, F1380-F1389.	1.3	22
33	Epithelial transport during septic acute kidney injury. Nephrology Dialysis Transplantation, 2014, 29, 1312-1319.	0.4	28
34	A₁adenosine receptorâ€“stimulated exocytosis in bladder umbrella cells requires phosphorylation of ADAM17 Ser-811 and EGF receptor transactivation. Molecular Biology of the Cell, 2014, 25, 3798-3812.	0.9	15
35	Hemodialysis for the Treatment of Severe Accidental Hypothermia. Seminars in Dialysis, 2014, 27, 295-297.	0.7	4
36	Septic acute kidney injury: molecular mechanisms and the importance of stratification and targeting therapy. Critical Care, 2014, 18, 501.	2.5	60

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37	Epithelial Na+ Channels. , 2013, , 983-1017.		3
38	Extracorporeal Therapy for Dabigatran Removal in the Treatment of Acute Bleeding: A Single Center Experience. Clinical Journal of the American Society of Nephrology: CJASN, 2013, 8, 1533-1539.	2.2	91
39	Noncanonical Control of Vasopressin Receptor Type 2 Signaling by Retromer and Arrestin. Journal of Biological Chemistry, 2013, 288, 27849-27860.	1.6	185
40	AMPK couples plasma renin to cellular metabolism by phosphorylation of ACC1. American Journal of Physiology - Renal Physiology, 2013, 305, F679-F690.	1.3	18
41	AMP-activated protein kinase regulates the vacuolar H⁺-ATPase via direct phosphorylation of the A subunit (ATP6V1A) in the kidney. American Journal of Physiology - Renal Physiology, 2013, 305, F943-F956.	1.3	50
42	Resveratrol Inhibits the Epithelial Sodium Channel via Phopshoinositides and AMP-Activated Protein Kinase in Kidney Collecting Duct Cells. PLoS ONE, 2013, 8, e78019.	1.1	15
43	Opening lines of communication in the distal nephron. Journal of Clinical Investigation, 2013, 123, 4139-4141.	3.9	14
44	AMP-activated protein kinase regulation of kidney tubular transport. Current Opinion in Nephrology and Hypertension, 2012, 21, 523-533.	1.0	41
45	Role of Binding and Nucleoside Diphosphate Kinase A in the Regulation of the Cystic Fibrosis Transmembrane Conductance Regulator by AMP-activated Protein Kinase. Journal of Biological Chemistry, 2012, 287, 33389-33400.	1.6	25
46	Role of Binding and Nucleoside Diphosphate Kinase A (NDPKâ€A) in the Regulation of CFTR by AMPâ€Activated Protein Kinase (AMPK). FASEB Journal, 2012, 26, 885.2.	0.2	0
47	Neural Precursor Cell-expressed Developmentally Down-regulated Protein 4-2 (Nedd4-2) Regulation by 14-3-3 Protein Binding at Canonical Serum and Glucocorticoid Kinase 1 (SGK1) Phosphorylation Sites. Journal of Biological Chemistry, 2011, 286, 37830-37840.	1.6	42
48	Activating AMP-activated protein kinase (AMPK) slows renal cystogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2462-2467.	3.3	276
49	Galectin-7 modulates the length of the primary cilia and wound repair in polarized kidney epithelial cells. American Journal of Physiology - Renal Physiology, 2011, 301, F622-F633.	1.3	33
50	CFTR Regulation by Phosphorylation. Methods in Molecular Biology, 2011, 741, 471-488.	0.4	20
51	Biphasic ENaC regulation by IKKÎ² in lung and kidney epithelial cells. FASEB Journal, 2011, 25, 1039.8.	0.2	0
52	Phosphopeptide Screen Uncovers Novel Phosphorylation Sites of Nedd4-2 That Potentiate Its Inhibition of the Epithelial Na+ Channel. Journal of Biological Chemistry, 2010, 285, 21671-21678.	1.6	39
53	Role of the energy sensor AMP-activated protein kinase in renal physiology and disease. American Journal of Physiology - Renal Physiology, 2010, 298, F1067-F1077.	1.3	126
54	PKA Regulates Vacuolar H+-ATPase Localization and Activity via Direct Phosphorylation of the A Subunit in Kidney Cells. Journal of Biological Chemistry, 2010, 285, 24676-24685.	1.6	90

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55	Vacuolar H⁺-ATPase apical accumulation in kidney intercalated cells is regulated by PKA and AMP-activated protein kinase. American Journal of Physiology - Renal Physiology, 2010, 298, F1162-F1169.	1.3	84
56	AMP-activated protein kinase inhibits KCNQ1 channels through regulation of the ubiquitin ligase Nedd4-2 in renal epithelial cells. American Journal of Physiology - Renal Physiology, 2010, 299, F1308-F1319.	1.3	45
57	Regulation of the creatine transporter by AMP-activated protein kinase in kidney epithelial cells. American Journal of Physiology - Renal Physiology, 2010, 299, F167-F177.	1.3	57
58	AMPK Agonists Ameliorate Sodium and Fluid Transport and Inflammation in Cystic Fibrosis Airway Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2010, 42, 676-684.	1.4	97
59	Essential Regulation of Cell Bioenergetics by Constitutive InsP3 Receptor Ca2+ Transfer to Mitochondria. Cell, 2010, 142, 270-283.	13.5	888
60	SGLT1, a novel cardiac glucose transporter, mediates increased glucose uptake in PRKAG2 cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2010, 49, 683-692.	0.9	74
61	Regulation of Epithelial Na+ Transport by Soluble Adenylyl Cyclase in Kidney Collecting Duct Cells. Journal of Biological Chemistry, 2009, 284, 5774-5783.	1.6	47
62	Functional Regulation of the Epithelial Na+ Channel by Ĩº B Kinase-Î² Occurs via Phosphorylation of the Ubiquitin Ligase Nedd4-2. Journal of Biological Chemistry, 2009, 284, 150-157.	1.6	42
63	AMP-activated protein kinase phosphorylation of the R domain inhibits PKA stimulation of CFTR. American Journal of Physiology - Cell Physiology, 2009, 297, C94-C101.	2.1	67
64	AMP-activated protein kinase inhibits alkaline pH- and PKA-induced apical vacuolar H+-ATPase accumulation in epididymal clear cells. American Journal of Physiology - Cell Physiology, 2009, 296, C672-C681.	2.1	73
65	AMPâ€activated Kinase Inhibits KCNQ1 Channels through Regulation of the Ubiquitin Ligase Nedd4â€2. FASEB Journal, 2009, 23, 602.7.	0.2	1
66	Novel Regulation of Vâ€ATPase by PKA and AMPK in Kidney Intercalated Cells. FASEB Journal, 2009, 23, 602.13.	0.2	3
67	Mechanisms of ENaC Regulation and Clinical Implications. Journal of the American Society of Nephrology: JASN, 2008, 19, 1845-1854.	3.0	232
68	Alkaline pH- and cAMP-induced V-ATPase membrane accumulation is mediated by protein kinase A in epididymal clear cells. American Journal of Physiology - Cell Physiology, 2008, 294, C488-C494.	2.1	82
69	AMP-activated Kinase Inhibits the Epithelial Na+ Channel through Functional Regulation of the Ubiquitin Ligase Nedd4-2. Journal of Biological Chemistry, 2006, 281, 26159-26169.	1.6	139
70	Up-regulation of AMP-activated Kinase by Dysfunctional Cystic Fibrosis Transmembrane Conductance Regulator in Cystic Fibrosis Airway Epithelial Cells Mitigates Excessive Inflammation. Journal of Biological Chemistry, 2006, 281, 4231-4241.	1.6	61
71	Inhibition of the Epithelial Sodium Channel by AMPâ€Activated Kinase Involves Modulation of Nedd4â€2 Activity. FASEB Journal, 2006, 20, A795.	0.2	0
72	Emerging role of AMP-activated protein kinase in coupling membrane transport to cellular metabolism. Current Opinion in Nephrology and Hypertension, 2005, 14, 464-471.	1.0	70

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73	Epithelial Sodium Channel Inhibition by AMP-activated Protein Kinase in Oocytes and Polarized Renal Epithelial Cells. Journal of Biological Chemistry, 2005, 280, 17608-17616.	1.6	136
74	Regulation of Channel Gating by AMP-activated Protein Kinase Modulates Cystic Fibrosis Transmembrane Conductance Regulator Activity in Lung Submucosal Cells. Journal of Biological Chemistry, 2003, 278, 998-1004.	1.6	102
75	Physiological modulation of CFTR activity by AMP-activated protein kinase in polarized T84 cells. American Journal of Physiology - Cell Physiology, 2003, 284, C1297-C1308.	2.1	106
76	Yeast Two-Hybrid Identification and Analysis of Protein Interactions with CFTR. , 2002, 70, 365-382.		3
77	The Urine/Plasma Electrolyte Ratio: A Predictive Guide to Water Restriction. American Journal of the Medical Sciences, 2000, 319, 240-244.	0.4	95
78	The Urine/Plasma Electrolyte Ratio: A Predictive Guide to Water Restriction. American Journal of the Medical Sciences, 2000, 319, 240-244.	0.4	120
79	Inhibition of cystic fibrosis transmembrane conductance regulator by novel interaction with the metabolic sensor AMP-activated protein kinase. Journal of Clinical Investigation, 2000, 105, 1711-1721.	3.9	199
80	Changes in cytoskeletal actin content, F-actin distribution, and surface morphology during HL-60 cell volume regulation. , 1996, 167, 60-71.		66
81	Changes in mechanical properties with DMSO-induced differentiation of HL-60 cells. Biorheology, 1992, 29, 295-309.	1.2	22