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	Essential Regulation of Cell Bioenergetics by Constitutive InsP3 Receptor Ca2+ Transfer to Mitochondria. Cell, 2010, 142, 270-283.	13.5	888
2	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
3	Mechanisms of ENaC Regulation and Clinical Implications. Journal of the American Society of Nephrology: JASN, 2008, 19, 1845-1854.	3.0	232
4	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
5	Noncanonical Control of Vasopressin Receptor Type 2 Signaling by Retromer and Arrestin. Journal of Biological Chemistry, 2013, 288, 27849-27860.	1.6	185
6	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
7	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
8	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
9	The Urine/Plasma Electrolyte Ratio: A Predictive Guide to Water Restriction. American Journal of the Medical Sciences, 2000, 319, 240-244.	0.4	120
10	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
11	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
12	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
13	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
14	The Urine/Plasma Electrolyte Ratio: A Predictive Guide to Water Restriction. American Journal of the Medical Sciences, 2000, 319, 240-244.	0.4	95
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	Changes in cytoskeletal actin content, F-actin distribution, and surface morphology during HL-60 cell volume regulation. , 1996, 167, 60-71.		66
24	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
25	Septic acute kidney injury: molecular mechanisms and the importance of stratification and targeting therapy. Critical Care, 2014, 18, 501.	2.5	60
26	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
27	Alternatively spliced proline-rich cassettes link WNK1 to aldosterone action. Journal of Clinical Investigation, 2015, 125, 3433-3448.	3.9	58
28	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
29	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
30	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
31	Design and in vivo characterization of kidney-targeting multimodal micelles for renal drug delivery. Nano Research, 2018, 11, 5584-5595.	5.8	52
32	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
33	Oral delivery of metformin by chitosan nanoparticles for polycystic kidney disease. Journal of Controlled Release, 2021, 329, 1198-1209.	4.8	49
34	Primary results of the randomized trial of metformin administration in polycystic kidney disease (TAME PKD). Kidney International, 2021, 100, 684-696.	2.6	48
35	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
36	A Randomized Clinical Trial of Metformin to Treat Autosomal Dominant Polycystic Kidney Disease. American Journal of Nephrology, 2018, 47, 352-360.	1.4	47

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37	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
38	Functional Regulation of the Epithelial Na+ Channel by IÎºB Kinase-Î² Occurs via Phosphorylation of the Ubiquitin Ligase Nedd4-2. Journal of Biological Chemistry, 2009, 284, 150-157.	1.6	42
39	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
40	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
41	AMP-activated protein kinase regulation of kidney tubular transport. Current Opinion in Nephrology and Hypertension, 2012, 21, 523-533.	1.0	41
42	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
43	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
44	Muc1 is protective during kidney ischemia-reperfusion injury. American Journal of Physiology - Renal Physiology, 2015, 308, F1452-F1462.	1.3	35
45	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
46	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
47	Epithelial transport during septic acute kidney injury. Nephrology Dialysis Transplantation, 2014, 29, 1312-1319.	0.4	28
48	AMPK is activated during lysosomal damage via a galectin-ubiquitin signal transduction system. Autophagy, 2020, 16, 1550-1552.	4.3	26
49	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
50	Changes in mechanical properties with DMSO-induced differentiation of HL-60 cells. Biorheology, 1992, 29, 295-309.	1.2	22
51	Akt recruits Dab2 to albumin endocytosis in the proximal tubule. American Journal of Physiology - Renal Physiology, 2014, 307, F1380-F1389.	1.3	22
52	CFTR Regulation by Phosphorylation. Methods in Molecular Biology, 2011, 741, 471-488.	0.4	20
53	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
54	AMPK couples plasma renin to cellular metabolism by phosphorylation of ACC1. American Journal of Physiology - Renal Physiology, 2013, 305, F679-F690.	1.3	18

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55	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
56	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
57	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
58	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
59	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
60	Opening lines of communication in the distal nephron. Journal of Clinical Investigation, 2013, 123, 4139-4141.	3.9	14
61	Association of Baseline Urinary Metabolic Biomarkers with ADPKD Severity in TAME-PKD Clinical Trial Participants. Kidney360, 2021, 2, 795-808.	0.9	10
62	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
63	Baseline Characteristics and Patient-Reported Outcomes of ADPKD Patients in the Multicenter TAME-PKD Clinical Trial. Kidney360, 2020, 1, 1363-1372.	0.9	7
64	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
65	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
66	MIF Matters: The Macrophage Migration Inhibitory Factor and Kidney Injury. American Journal of Kidney Diseases, 2019, 73, 429-431.	2.1	6
67	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
68	Hemodialysis for the Treatment of Severe Accidental Hypothermia. Seminars in Dialysis, 2014, 27, 295-297.	0.7	4
69	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
70	Yeast Two-Hybrid Identification and Analysis of Protein Interactions with CFTR. , 2002, 70, 365-382.		3
71	Epithelial Na+ Channels. , 2013, , 983-1017.		3
72	Novel Regulation of Vâ€ATPase by PKA and AMPK in Kidney Intercalated Cells. FASEB Journal, 2009, 23, 602.13.	0.2	3

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73	Fundamentals of Epithelial Na+ Absorption. , 2016, , 49-94.		1
74	AMPâ€activated Kinase Inhibits KCNQ1 Channels through Regulation of the Ubiquitin Ligase Nedd4â€2. FASEB Journal, 2009, 23, 602.7.	0.2	1
75	Inhibition of the Epithelial Sodium Channel by AMPâ€Activated Kinase Involves Modulation of Nedd4â€2 Activity. FASEB Journal, 2006, 20, A795.	0.2	0
76	Biphasic ENaC regulation by IKKÎ² in lung and kidney epithelial cells. FASEB Journal, 2011, 25, 1039.8.	0.2	0
77	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
78	Metabolic acidosis inhibits AMPK function in kidney cells. FASEB Journal, 2018, 32, 851.13.	0.2	0
79	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
80	Sexâ€differences in AMPK activity and kidney function parameters post uninephrectomy. FASEB Journal, 2020, 34, 1-1.	0.2	0
81	Fundamentals of Epithelial Na+ Absorption. Physiology in Health and Disease, 2020, , 291-336.	0.2	0