Janet D Klein

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papers2,988
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ext. citations4.9
avg, IF5.01
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#	Paper	IF	Citations
114	Cloning and characterization of two new isoforms of the rat kidney urea transporter: UT-A3 and UT-A4. <i>Journal of the American Society of Nephrology: JASN</i> , 1999 , 10, 230-7	12.7	117
113	Vasopressin rapidly increases phosphorylation of UT-A1 urea transporter in rat IMCDs through PKA. <i>American Journal of Physiology - Renal Physiology</i> , 2002 , 282, F85-90	4.3	113
112	Localization of the urea transporter UT-B protein in human and rat erythrocytes and tissues. American Journal of Physiology - Cell Physiology, 2001, 281, C1318-25	5.4	102
111	Vasopressin increases plasma membrane accumulation of urea transporter UT-A1 in rat inner medullary collecting ducts. <i>Journal of the American Society of Nephrology: JASN</i> , 2006 , 17, 2680-6	12.7	74
110	Phosphorylation of UT-A1 urea transporter at serines 486 and 499 is important for vasopressin-regulated activity and membrane accumulation. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F295-9	4.3	72
109	Changes in renal medullary transport proteins during uncontrolled diabetes mellitus in rats. <i>American Journal of Physiology - Renal Physiology</i> , 2003 , 285, F303-9	4.3	70
108	Forskolin stimulates phosphorylation and membrane accumulation of UT-A3. <i>American Journal of Physiology - Renal Physiology</i> , 2007 , 293, F1308-13	4.3	68
107	97- and 117-kDa forms of collecting duct urea transporter UT-A1 are due to different states of glycosylation. <i>American Journal of Physiology - Renal Physiology</i> , 2001 , 281, F133-43	4.3	68
106	Exosome-Mediated miR-29 Transfer Reduces Muscle Atrophy and Kidney Fibrosis in Mice. <i>Molecular Therapy</i> , 2019 , 27, 571-583	11.7	68
105	miRNA-23a/27a attenuates muscle atrophy and renal fibrosis through muscle-kidney crosstalk. <i>Journal of Cachexia, Sarcopenia and Muscle,</i> 2018 , 9, 755-770	10.3	66
104	Angiotensin II increases vasopressin-stimulated facilitated urea permeability in rat terminal IMCDs. <i>American Journal of Physiology - Renal Physiology</i> , 2000 , 279, F835-40	4.3	62
103	Down-regulation of urea transporters in the renal inner medulla of lithium-fed rats. <i>Kidney International</i> , 2002 , 61, 995-1002	9.9	61
102	Limits Muscle Wasting and Cardiac Fibrosis through Exosome-Mediated microRNA Transfer in Chronic Kidney Disease. <i>Theranostics</i> , 2019 , 9, 1864-1877	12.1	60
101	Upregulation of urea transporter UT-A2 and water channels AQP2 and AQP3 in mice lacking urea transporter UT-B. <i>Journal of the American Society of Nephrology: JASN</i> , 2004 , 15, 1161-7	12.7	57
100	Chronic kidney disease induces autophagy leading to dysfunction of mitochondria in skeletal muscle. <i>American Journal of Physiology - Renal Physiology</i> , 2017 , 312, F1128-F1140	4.3	54
99	Aging increases CCN1 expression leading to muscle senescence. <i>American Journal of Physiology - Cell Physiology</i> , 2014 , 306, C28-36	5.4	54
98	Identification and characterization of a Kidd antigen/UT-B urea transporter expressed in human colon. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 287, C30-5	5.4	53

(2011-2004)

97	Urea transport in MDCK cells that are stably transfected with UT-A1. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 286, C1264-70	5.4	53	
96	Urea transport in the kidney. <i>Comprehensive Physiology</i> , 2011 , 1, 699-729	7.7	52	
95	Low-frequency electrical stimulation attenuates muscle atrophy in CKDa potential treatment strategy. <i>Journal of the American Society of Nephrology: JASN</i> , 2015 , 26, 626-35	12.7	49	•
94	Loss of N-linked glycosylation reduces urea transporter UT-A1 response to vasopressin. <i>Journal of Biological Chemistry</i> , 2006 , 281, 27436-42	5.4	49	
93	Regulation by cell volume of Na(+)-K(+)-2Cl- cotransport in vascular endothelial cells: role of protein phosphorylation. <i>Journal of Membrane Biology</i> , 1993 , 132, 243-52	2.3	49	
92	Glucocorticoids mediate a decrease in AVP-regulated urea transporter in diabetic rat inner medulla. <i>American Journal of Physiology - Renal Physiology</i> , 1997 , 273, F949-53	4.3	48	
91	Altered expression of urea transporters in response to ureteral obstruction. <i>American Journal of Physiology - Renal Physiology</i> , 2004 , 286, F1154-62	4.3	48	
90	Role of vasopressin in diabetes mellitus-induced changes in medullary transport proteins involved in urine concentration in Brattleboro rats. <i>American Journal of Physiology - Renal Physiology</i> , 2004 , 286, F760-6	4.3	45	
89	Potential role of purinergic signaling in urinary concentration in inner medulla: insights from P2Y2 receptor gene knockout mice. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F1715-24	4.3	44	
88	Urea transporters are distributed in endothelial cells and mediate inhibition of L-arginine transport. <i>American Journal of Physiology - Renal Physiology</i> , 2002 , 283, F578-82	4.3	44	
87	Epac regulates UT-A1 to increase urea transport in inner medullary collecting ducts. <i>Journal of the American Society of Nephrology: JASN</i> , 2009 , 20, 2018-24	12.7	40	
86	Regulation of UT-A1-mediated transepithelial urea flux in MDCK cells. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 291, C600-6	5.4	40	
85	UT-A urea transporter protein expressed in liver: upregulation by uremia. <i>Journal of the American Society of Nephrology: JASN</i> , 1999 , 10, 2076-83	12.7	40	
84	Molecular mechanisms of urea transport in health and disease. <i>Pflugers Archiv European Journal of Physiology</i> , 2012 , 464, 561-72	4.6	38	
83	Ascending Vasa Recta Are Angiopoietin/Tie2-Dependent Lymphatic-Like Vessels. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 1097-1107	12.7	37	
82	Urea transporter UT-A1 and aquaporin-2 proteins decrease in response to angiotensin II or norepinephrine-induced acute hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2006 , 291, F952-9	4.3	36	
81	MDM2 E3 ubiquitin ligase mediates UT-A1 urea transporter ubiquitination and degradation. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F1528-34	4.3	35	
80	Mature N-linked glycans facilitate UT-A1 urea transporter lipid raft compartmentalization. <i>FASEB Journal</i> , 2011 , 25, 4531-9	0.9	34	

79	Metformin, an AMPK activator, stimulates the phosphorylation of aquaporin 2 and urea transporter A1 in inner medullary collecting ducts. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 310, F10	0 8 312	34
78	Metformin improves urine concentration in rodents with nephrogenic diabetes insipidus. <i>JCI Insight</i> , 2016 , 1,	9.9	33
77	Tissue distribution of UT-A and UT-B mRNA and protein in rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 290, R1446-59	3.2	32
76	Impaired urine concentration and absence of tissue ACE: involvement of medullary transport proteins. <i>American Journal of Physiology - Renal Physiology</i> , 2002 , 283, F517-24	4.3	31
75	Urea may regulate urea transporter protein abundance during osmotic diuresis. <i>American Journal of Physiology - Renal Physiology</i> , 2005 , 288, F188-97	4.3	31
74	Acupuncture plus low-frequency electrical stimulation (Acu-LFES) attenuates denervation-induced muscle atrophy. <i>Journal of Applied Physiology</i> , 2016 , 120, 426-36	3.7	30
73	Acupuncture plus Low-Frequency Electrical Stimulation (Acu-LFES) Attenuates Diabetic Myopathy by Enhancing Muscle Regeneration. <i>PLoS ONE</i> , 2015 , 10, e0134511	3.7	30
72	The UT-A1 urea transporter interacts with snapin, a SNARE-associated protein. <i>Journal of Biological Chemistry</i> , 2007 , 282, 30097-106	5.4	29
71	Protein kinase C regulates urea permeability in the rat inner medullary collecting duct. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 299, F1401-6	4.3	28
70	Caveolin-1 directly interacts with UT-A1 urea transporter: the role of caveolae/lipid rafts in UT-A1 regulation at the cell membrane. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 296, F1514-20	4.3	28
69	Aldosterone decreases UT-A1 urea transporter expression via the mineralocorticoid receptor. Journal of the American Society of Nephrology: JASN, 2004 , 15, 558-65	12.7	28
68	Internalization of UT-A1 urea transporter is dynamin dependent and mediated by both caveolae-and clathrin-coated pit pathways. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 299, F1389-95	54.3	27
67	Urea transporters UT-A1 and UT-A3 accumulate in the plasma membrane in response to increased hypertonicity. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F1336-41	4.3	27
66	Physiological insights into novel therapies for nephrogenic diabetes insipidus. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 311, F1149-F1152	4.3	26
65	Protein kinase C-Imediates hypertonicity-stimulated increase in urea transporter phosphorylation in the inner medullary collecting duct. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 302, F109	98:3103	26
64	Expression of transporters involved in urine concentration recovers differently after cessation of lithium treatment. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 298, F601-8	4.3	25
63	Phosphorylation of UT-A1 on serine 486 correlates with membrane accumulation and urea transport activity in both rat IMCDs and cultured cells. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 298, F935-40	4.3	25
62	Exogenous miR-26a suppresses muscle wasting and renal fibrosis in obstructive kidney disease. <i>FASEB Journal</i> , 2019 , 33, 13590-13601	0.9	23

61	Regulation of renal urea transport by vasopressin. <i>Transactions of the American Clinical and Climatological Association</i> , 2011 , 122, 82-92	0.9	22	
60	Role of protein kinase C-lìn hypertonicity-stimulated urea permeability in mouse inner medullary collecting ducts. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 304, F233-8	4.3	21	
59	Increased susceptibility to acute kidney injury due to endoplasmic reticulum stress in mice lacking tumor necrosis factor-land its receptor 1. <i>Kidney International</i> , 2011 , 79, 613-623	9.9	21	
58	Phosphatase inhibition increases AQP2 accumulation in the rat IMCD apical plasma membrane. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 311, F1189-F1197	4.3	20	
57	Effect of Dapagliflozin Treatment on Fluid and Electrolyte Balance in Diabetic Rats. <i>American Journal of the Medical Sciences</i> , 2016 , 352, 517-523	2.2	20	
56	Genetic restoration of aldose reductase to the collecting tubules restores maturation of the urine concentrating mechanism. <i>American Journal of Physiology - Renal Physiology</i> , 2006 , 291, F186-95	4.3	19	
55	Urea transport and clinical potential of urearetics. <i>Current Opinion in Nephrology and Hypertension</i> , 2016 , 25, 444-51	3.5	18	
54	Vasopressin increases urea permeability in the initial IMCD from diabetic rats. <i>American Journal of Physiology - Renal Physiology</i> , 2005 , 289, F531-5	4.3	17	
53	Acidosis mediates the upregulation of UT-A protein in livers from uremic rats. <i>Journal of the American Society of Nephrology: JASN</i> , 2002 , 13, 581-587	12.7	17	
52	PKC-L'ontributes to high NaCl-induced activation of NFAT5 (TonEBP/OREBP) through MAPK ERK1/2. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 308, F140-8	4.3	16	
51	Candesartan augments compensatory changes in medullary transport proteins in the diabetic rat kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, F1448-52	4.3	16	
50	Corin: an ANP protease that may regulate sodium reabsorption in nephrotic syndrome. <i>Kidney International</i> , 2010 , 78, 635-7	9.9	15	
49	Lack of protein kinase C-lleads to impaired urine concentrating ability and decreased aquaporin-2 in angiotensin II-induced hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 303, F37	44	15	
48	Urea transporters and sweat response to uremia. <i>Physiological Reports</i> , 2016 , 4, e12825	2.6	14	
47	GRHL2 Is Required for Collecting Duct Epithelial Barrier Function and Renal Osmoregulation. Journal of the American Society of Nephrology: JASN, 2018 , 29, 857-868	12.7	13	
46	Transgenic Restoration of Urea Transporter A1 Confers Maximal Urinary Concentration in the Absence of Urea Transporter A3. <i>Journal of the American Society of Nephrology: JASN</i> , 2016 , 27, 1448-55	12.7	13	
45	Urea and NaCl regulate UT-A1 urea transporter in opposing directions via TonEBP pathway during osmotic diuresis. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 296, F67-77	4.3	13	
44	NSAIDs Alter Phosphorylated Forms of AQP2 in the Inner Medullary Tip. <i>PLoS ONE</i> , 2015 , 10, e0141714	3.7	12	

43	High glucose reduces expression of podocin in cultured human podocytes by stimulating TRPC6. <i>American Journal of Physiology - Renal Physiology</i> , 2019 , 317, F1605-F1611	4.3	11
42	Urine concentration in the diabetic mouse requires both urea and water transporters. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 304, F103-11	4.3	11
41	The role of nitric oxide in the dysregulation of the urine concentration mechanism in diabetes mellitus. <i>Frontiers in Physiology</i> , 2012 , 3, 176	4.6	10
40	Acute calcineurin inhibition with tacrolimus increases phosphorylated UT-A1. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 302, F998-F1004	4.3	10
39	Protein abundance of urea transporters and aquaporin 2 change differently in nephrotic pair-fed vs. non-pair-fed rats. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 302, F1545-53	4.3	10
38	Activation of protein kinase C-Dand Src kinase increases urea transporter A1 E2, 6 sialylation. <i>Journal of the American Society of Nephrology: JASN</i> , 2015 , 26, 926-34	12.7	9
37	Exogenous miR-29a Attenuates Muscle Atrophy and Kidney Fibrosis in Unilateral Ureteral Obstruction Mice. <i>Human Gene Therapy</i> , 2020 , 31, 367-375	4.8	9
36	Electrically stimulated acupuncture increases renal blood flow through exosome-carried miR-181. American Journal of Physiology - Renal Physiology, 2018 , 315, F1542-F1549	4.3	9
35	Functional characterization of the central hydrophilic linker region of the urea transporter UT-A1: cAMP activation and snapin binding. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 298, C1431-	7 ^{5.4}	8
34	Stimulation of UT-A1-mediated transepithelial urea flux in MDCK cells by lithium. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, F518-24	4.3	8
33	Adaptive physiological water conservation explains hypertension and muscle catabolism in experimental chronic renal failure. <i>Acta Physiologica</i> , 2021 , 232, e13629	5.6	8
32	Downregulation of urea transporter UT-A1 activity by 14-3-3 protein. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 309, F71-8	4.3	7
31	Expression of urea transporters and their regulation. Sub-Cellular Biochemistry, 2014, 73, 79-107	5.5	7
30	TRANSGENIC MICE EXPRESSING UT-A1, BUT LACKING UT-A3, HAVE INTACT URINE CONCENTRATING ABILITY. <i>FASEB Journal</i> , 2013 , 27, 1111.17	0.9	7
29	Hyperglycemia promotes microvillus membrane expression of DMT1 in intestinal epithelial cells in a PKCEdependent manner. <i>FASEB Journal</i> , 2019 , 33, 3549-3561	0.9	7
28	Glucagon infusion alters the hyperpolarized C-urea renal hemodynamic signature. <i>NMR in Biomedicine</i> , 2019 , 32, e4028	4.4	7
27	Candesartan Differentially Regulates Epithelial Sodium Channel in Cortex Versus Medulla of Streptozotocin-Induced Diabetic Rats. <i>Journal of Epithelial Biology & Pharmacology</i> , 2009 , 2, 23		6
26	Activation of protein kinase Clincreases phosphorylation of the UT-A1 urea transporter at serine 494 in the inner medullary collecting duct. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 309, C608-15	5.4	5

25	Urea Transporter B and MicroRNA-200c Differ in Kidney Outer Versus Inner Medulla Following Dehydration. <i>American Journal of the Medical Sciences</i> , 2016 , 352, 296-301	2.2	5
24	Protein kinase Cideletion causes hypotension and decreased vascular contractility. <i>Journal of Hypertension</i> , 2018 , 36, 510-519	1.9	5
23	Adrenomedullin Inhibits Osmotic Water Permeability in Rat Inner Medullary Collecting Ducts. <i>Cells</i> , 2020 , 9,	7.9	4
22	Cyclooxygenase-2 in the kidney: good, BAD, or both?. <i>Kidney International</i> , 2011 , 80, 905-907	9.9	3
21	Inhibition of urea transporter ameliorates uremic cardiomyopathy in chronic kidney disease. <i>FASEB Journal</i> , 2020 , 34, 8296-8309	0.9	2
20	Aldosterone Decreases Vasopressin-Stimulated Water Reabsorption in Rat Inner Medullary Collecting Ducts. <i>Cells</i> , 2020 , 9,	7.9	2
19	14-3-3 a novel regulator of the large-conductance Ca-activated K channel. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 319, F52-F62	4.3	1
18	Increased urinary concentrating ability of P2Y2 receptor null mice is associated with marked increase in protein abundances of AQP2 and UT-A in renal medulla. <i>FASEB Journal</i> , 2007 , 21, A905	0.9	1
17	Downregulation of let-7 by Electrical Acupuncture Increases Protein Synthesis in Mice. <i>Frontiers in Physiology</i> , 2021 , 12, 697139	4.6	1
16	UT-A1/A3 knockout mice show reduced fibrosis following unilateral ureteral obstruction. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, F1160-F1166	4.3	O
15	GDE5 inhibition accumulates intracellular glycerophosphocholine and suppresses adipogenesis at a mitotic clonal expansion stage. <i>American Journal of Physiology - Cell Physiology</i> , 2019 , 316, C162-C174	5.4	O
14	The role of SNARE proteins in trafficking and function of Urea Transporter UT-A1. <i>FASEB Journal</i> , 2007 , 21, A906	0.9	
13	Candesartan differentially regulates distal sodium transporters and channel subunits in cortex versus medulla in streptozotocin-induced diabetic rats <i>FASEB Journal</i> , 2007 , 21, A1331	0.9	
12	The apical membrane is the rate-determining barrier for vasopressin-regulated trans-epithelial urea transport in MDCK-UTA1 cells. <i>FASEB Journal</i> , 2007 , 21, A906	0.9	
11	AVP causes transient formation of cAMP and activation of phosphodiesterase activity in MDCK cells. <i>FASEB Journal</i> , 2008 , 22, 1216.13	0.9	
10	Increased glucocorticoid hormone actions induce skin-specific Na+ and water loss in melanocortin 3 receptor knockout mice. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018 , WCP2018, PO2-4-26	O	
9	Inner Medullary Urea Transporters Contribute to Development of Renal Fibrosis in Mice With Unilateral Ureteral Obstruction. <i>FASEB Journal</i> , 2019 , 33, 575.9	0.9	
8	Role of adrenomedullin in mediating water reabsorption in rat inner medullary collecting ducts. <i>FASEB Journal</i> , 2019 , 33, 750.3	0.9	

7	Electrically-stimulated acupuncture improves muscle function and increases renal blood flow through exosomes-carried miR-181. <i>FASEB Journal</i> , 2019 , 33, 701.4	0.9
6	Urea Transporters in Health and Disease. <i>Physiology in Health and Disease</i> , 2020 , 381-424	0.2
5	Epac Regulation of Urea Transport and the UT-A1 Urea Transporter in Rat Inner Medullary Collecting Duct <i>FASEB Journal</i> , 2009 , 23, 970.9	0.9
4	Hypertonicity Increases Urea Permeability through PKC in Inner Medullary Collecting Ducts. <i>FASEB Journal</i> , 2010 , 24, 1024.20	0.9
3	Role of PKClin Hypertonicity-stimulated Urea Permeability. FASEB Journal, 2012, 26, 885.12	0.9
2	The urea transporter UT-A1 is phosphorylated at serines 486 and 499 downstream of cyclic AMP production. <i>FASEB Journal</i> , 2012 , 26, 885.11	0.9
1	RNA-Seq analysis of glycosylation related gene expression in Streptozotocin-induced diabetic rat kidney inner medulla. <i>FASEB Journal</i> , 2013 , 27, 1111.16	0.9