

Timo Rieg

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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.

83

papers

4,524

citations

35

h-index

67

g-index

91

ext. papers

5,196

ext. citations

4.5

avg, IF

5.38

L-index

#	Paper	IF	Citations
83	Na(+)-D-glucose cotransporter SGLT1 is pivotal for intestinal glucose absorption and glucose-dependent incretin secretion. <i>Diabetes</i> , 2012 , 61, 187-96	0.9	456
82	SGLT2 mediates glucose reabsorption in the early proximal tubule. <i>Journal of the American Society of Nephrology: JASN</i> , 2011 , 22, 104-12	12.7	337
81	SGLT2 inhibitor empagliflozin reduces renal growth and albuminuria in proportion to hyperglycemia and prevents glomerular hyperfiltration in diabetic Akita mice. <i>American Journal of Physiology - Renal Physiology</i> , 2014 , 306, F194-204	4.3	290
80	Knockout of Na-glucose transporter SGLT2 attenuates hyperglycemia and glomerular hyperfiltration but not kidney growth or injury in diabetes mellitus. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 304, F156-67	4.3	250
79	Acute and chronic effects of SGLT2 blockade on glomerular and tubular function in the early diabetic rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012 , 302, R75-83	3.2	188
78	Increase in SGLT1-mediated transport explains renal glucose reabsorption during genetic and pharmacological SGLT2 inhibition in euglycemia. <i>American Journal of Physiology - Renal Physiology</i> , 2014 , 306, F188-93	4.3	180
77	Multiple organic anion transporters contribute to net renal excretion of uric acid. <i>Physiological Genomics</i> , 2008 , 33, 180-92	3.6	178
76	Decreased renal organic anion secretion and plasma accumulation of endogenous organic anions in OAT1 knock-out mice. <i>Journal of Biological Chemistry</i> , 2006 , 281, 5072-83	5.4	177
75	Mice lacking P2Y2 receptors have salt-resistant hypertension and facilitated renal Na ⁺ and water reabsorption. <i>FASEB Journal</i> , 2007 , 21, 3717-26	0.9	147
74	Aldosterone-induced Sgk1 relieves Dot1a-Af9-mediated transcriptional repression of epithelial Na ⁺ channel alpha. <i>Journal of Clinical Investigation</i> , 2007 , 117, 773-83	15.9	130
73	The role of the BK channel in potassium homeostasis and flow-induced renal potassium excretion. <i>Kidney International</i> , 2007 , 72, 566-73	9.9	127
72	Paracrine regulation of the epithelial Na ⁺ channel in the mammalian collecting duct by purinergic P2Y2 receptor tone. <i>Journal of Biological Chemistry</i> , 2008 , 283, 36599-607	5.4	114
71	Natriuretic effect by exendin-4, but not the DPP-4 inhibitor alogliptin, is mediated via the GLP-1 receptor and preserved in obese type 2 diabetic mice. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 303, F963-71	4.3	111
70	Development of SGLT1 and SGLT2 inhibitors. <i>Diabetologia</i> , 2018 , 61, 2079-2086	10.3	109
69	Overlapping in vitro and in vivo specificities of the organic anion transporters OAT1 and OAT3 for loop and thiazide diuretics. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, F867-73	4.3	101
68	Requirement of intact adenosine A1 receptors for the diuretic and natriuretic action of the methylxanthines theophylline and caffeine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005 , 313, 403-9	4.7	94
67	Dietary Na ⁺ inhibits the open probability of the epithelial sodium channel in the kidney by enhancing apical P2Y2-receptor tone. <i>FASEB Journal</i> , 2010 , 24, 2056-65	0.9	88

66	A role for the organic anion transporter OAT3 in renal creatinine secretion in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 302, F1293-9	4.3	85
65	Cardiac-specific overexpression of caveolin-3 attenuates cardiac hypertrophy and increases natriuretic peptide expression and signaling. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 2273-83	15.1	76
64	Regulation of renal NaCl and water transport by the ATP/UTP/P2Y2 receptor system. <i>American Journal of Physiology - Renal Physiology</i> , 2011 , 301, F463-75	4.3	75
63	Sodium-glucose cotransport. <i>Current Opinion in Nephrology and Hypertension</i> , 2015 , 24, 463-9	3.5	70
62	Adenylate cyclase 6 determines cAMP formation and aquaporin-2 phosphorylation and trafficking in inner medulla. <i>Journal of the American Society of Nephrology: JASN</i> , 2010 , 21, 2059-68	12.7	70
61	Thiazolidinedione-induced fluid retention is independent of collecting duct alphaENaC activity. <i>Journal of the American Society of Nephrology: JASN</i> , 2009 , 20, 721-9	12.7	70
60	Organic anion transporter 3 contributes to the regulation of blood pressure. <i>Journal of the American Society of Nephrology: JASN</i> , 2008 , 19, 1732-40	12.7	65
59	Adenosine A(1) receptors determine glomerular hyperfiltration and the salt paradox in early streptozotocin diabetes mellitus. <i>Nephron Physiology</i> , 2009 , 111, p30-8		63
58	Renal protection in chronic kidney disease: hypoxia-inducible factor activation vs. angiotensin II blockade. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 299, F1365-73	4.3	58
57	Adenylyl cyclase 6 enhances NKCC2 expression and mediates vasopressin-induced phosphorylation of NKCC2 and NCC. <i>American Journal of Pathology</i> , 2013 , 182, 96-106	5.8	56
56	Purinergic inhibition of ENaC produces aldosterone escape. <i>Journal of the American Society of Nephrology: JASN</i> , 2010 , 21, 1903-11	12.7	56
55	Functional consequences at the single-nephron level of the lack of adenosine A1 receptors and tubuloglomerular feedback in mice. <i>Pflugers Archiv European Journal of Physiology</i> , 2004 , 448, 214-21	4.6	55
54	Functional maturation of drug transporters in the developing, neonatal, and postnatal kidney. <i>Molecular Pharmacology</i> , 2011 , 80, 147-54	4.3	51
53	Beta1-integrin is required for kidney collecting duct morphogenesis and maintenance of renal function. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, F210-7	4.3	48
52	ATP and adenosine in the local regulation of water transport and homeostasis by the kidney. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 296, R419-27	3.2	47
51	A High-throughput method for measurement of glomerular filtration rate in conscious mice. <i>Journal of Visualized Experiments</i> , 2013 , e50330	1.6	39
50	Renal tubular NHE3 is required in the maintenance of water and sodium chloride homeostasis. <i>Kidney International</i> , 2017 , 92, 397-414	9.9	38
49	P2Y ₁ receptor activation decreases blood pressure and increases renal Na ⁺ excretion. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 301, R510-8	3.2	36

48	What does sodium-glucose co-transporter 1 inhibition add: Prospects for dual inhibition. <i>Diabetes, Obesity and Metabolism</i> , 2019 , 21 Suppl 2, 43-52	6.7	33
47	Caffeine-induced diuresis and natriuresis is independent of renal tubular NHE3. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 308, F1409-20	4.3	30
46	Rapid Aldosterone-Mediated Signaling in the DCT Increases Activity of the Thiazide-Sensitive NaCl Cotransporter. <i>Journal of the American Society of Nephrology: JASN</i> , 2019 , 30, 1454-1470	12.7	25
45	Pharmacological Npt2a Inhibition Causes Phosphaturia and Reduces Plasma Phosphate in Mice with Normal and Reduced Kidney Function. <i>Journal of the American Society of Nephrology: JASN</i> , 2019 , 30, 2128-2139	12.7	21
44	Regulation of intestinal SGLT1 by catestatin in hyperleptinemic type 2 diabetic mice. <i>Laboratory Investigation</i> , 2016 , 96, 98-111	5.9	21
43	Renal phosphate wasting in the absence of adenylyl cyclase 6. <i>Journal of the American Society of Nephrology: JASN</i> , 2014 , 25, 2822-34	12.7	20
42	P2Y receptors and kidney function. <i>Environmental Sciences Europe</i> , 2012 , 1, 731-742	5	19
41	Kidney function in mice: thiobutabarbital versus alpha-chloralose anesthesia. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2004 , 370, 320-3	3.4	18
40	Novel developments in differentiating the role of renal and intestinal sodium hydrogen exchanger 3. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 311, R1186-R1191	3.2	18
39	Vasopressin regulation of inner medullary collecting ducts and compensatory changes in mice lacking adenosine A1 receptors. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, F638-44	4.3	17
38	Role of adenylyl cyclase 6 in the development of lithium-induced nephrogenic diabetes insipidus. <i>JCI Insight</i> , 2017 , 2, e91042	9.9	17
37	Regulation of nephron water and electrolyte transport by adenylyl cyclases. <i>American Journal of Physiology - Renal Physiology</i> , 2014 , 306, F701-9	4.3	16
36	Adenosine A1 receptors determine effects of caffeine on total fluid intake but not caffeine appetite. <i>European Journal of Pharmacology</i> , 2007 , 555, 174-7	5.3	14
35	Stimulation of serum- and glucocorticoid-regulated kinase-1 gene expression by endothelin-1. <i>Biochemical Pharmacology</i> , 2006 , 71, 1175-83	6	14
34	Combined effects of carbonic anhydrase inhibitor and adenosine A1 receptor antagonist on hemodynamic and tubular function in the kidney. <i>Kidney and Blood Pressure Research</i> , 2007 , 30, 388-99	3.1	14
33	An inducible intestinal epithelial cell-specific NHE3 knockout mouse model mimicking congenital sodium diarrhea. <i>Clinical Science</i> , 2020 , 134, 941-953	6.5	14
32	Ornithine decarboxylase inhibitor eliminates hyperresponsiveness of the early diabetic proximal tubule to dietary salt. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F995-F1002	4.3	13
31	Different actions of protein kinase C isoforms alpha and epsilon on gastric acid secretion. <i>British Journal of Pharmacology</i> , 2002 , 136, 938-46	8.6	12

30	P2Y ₂ receptor activation decreases blood pressure via intermediate conductance potassium channels and connexin 37. <i>Acta Physiologica</i> , 2015 , 213, 628-41	5.6	11
29	Adenylyl cyclase 6 is required for maintaining acid-base homeostasis. <i>Clinical Science</i> , 2018 , 132, 1779-1796	5.6	8
28	Analysis and validation of traits associated with a single nucleotide polymorphism Gly364Ser in catestatin using humanized chromogranin A mouse models. <i>Journal of Hypertension</i> , 2016 , 34, 68-78	1.9	7
27	Contribution of NHE3 and dietary phosphate to lithium pharmacokinetics. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 128, 1-7	5.1	6
26	Adenylyl Cyclase 6 Expression Is Essential for Cholera Toxin-Induced Diarrhea. <i>Journal of Infectious Diseases</i> , 2019 , 220, 1719-1728	7	4
25	PF-06869206 is a selective inhibitor of renal P transport: evidence from in vitro and in vivo studies. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 319, F541-F551	4.3	3
24	Body mass-specific Na-K-ATPase activity in the medullary thick ascending limb: implications for species-dependent urine concentrating mechanisms. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018 , 314, R563-R573	3.2	2
23	Enhanced phosphate absorption in intestinal epithelial cell-specific NHE3 knockout mice.. <i>Acta Physiologica</i> , 2022 , e13756	5.6	2
22	Intestinal epithelial-specific NHE3 knockout causes metabolic acidosis. <i>FASEB Journal</i> , 2018 , 32, 747.13	0.9	1
21	Genetic deletion of connexin 37 causes polyuria and polydipsia. <i>PLoS ONE</i> , 2020 , 15, e0244251	3.7	1
20	Regulation of Intestinal SGLT1 by Catestatin in Hyperleptinemic Type 2 Diabetic Mice. <i>FASEB Journal</i> , 2015 , 29, 970.9	0.9	1
19	Urinary concentration is impaired in mice lacking adenylyl cyclase 6. <i>FASEB Journal</i> , 2009 , 23, 970.10	0.9	1
18	Tubular effects of sodium-glucose cotransporter 2 inhibitors: intended and unintended consequences. <i>Current Opinion in Nephrology and Hypertension</i> , 2020 , 29, 523-530	3.5	0
17	Reply to "Reduced NHE3 activity results in congenital diarrhea and can predispose to inflammatory bowel disease". <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017 , 312, R312	3.2	0
16	Unravelling a role for KCNQ1 in K ⁺ recycling and gastric acid secretion. <i>Journal of Physiology</i> , 2009 , 587, 4149-50	3.9	0
15	In vitro effects of Npt2a inhibition in renal proximal tubule cells. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	0
14	DOCA unmasks salt-sensitivity of blood pressure in mice lacking P2Y ₂ receptors. <i>FASEB Journal</i> , 2008 , 22, 735.4	0.9	0
13	Collecting duct-specific gene inactivation of ENaC in the mouse kidney does not attenuate rosiglitazone-induced weight gain. <i>FASEB Journal</i> , 2008 , 22, 947.14	0.9	0

12	Inducible intestinal epithelial cell-specific NHE3 knockout causes diarrhea and more alkaline luminal content. <i>FASEB Journal</i> , 2018 , 32, 747.2	0.9
11	Body Mass-Specific Na, K-ATPase Activity in the Medullary Thick Ascending Limb ¶ Implications for Species-Dependent Urine Concentrating Mechanisms. <i>FASEB Journal</i> , 2018 , 32, 862.3	0.9
10	Connexin 37 contributes to water homeostasis and urinary concentrating ability. <i>FASEB Journal</i> , 2019 , 33, 575.6	0.9
9	In vivo effects of renal Npt2a inhibition. <i>FASEB Journal</i> , 2019 , 33, 751.2	0.9
8	Renal Caffeine Effects are Independent of NHE3 Abundance, Trafficking or Phosphorylation. <i>FASEB Journal</i> , 2015 , 29, 970.4	0.9
7	Unmasking hyperactive ENaC in P2Y2 ^{-/-} mice as a molecular mechanism for their hypertension. <i>FASEB Journal</i> , 2009 , 23, 602.1	0.9
6	SGLT2 mediates glucose reabsorption in the early proximal tubule. <i>FASEB Journal</i> , 2010 , 24, 606.15	0.9
5	Lack of SGLT1 enhances renal oxidative stress, reduces kidney weight, and blunts diabetic glomerular hyperfiltration. <i>FASEB Journal</i> , 2011 , 25, 1038.2	0.9
4	Adenylyl cyclase 6 determines AVP-induced membrane abundance and phosphorylation of NKCC2 and NCC. <i>FASEB Journal</i> , 2012 , 26, 1152.7	0.9
3	Leptin receptor deficiency causes intestinal hyperplasia and altered membrane abundance of glucose transporters. <i>FASEB Journal</i> , 2012 , 26, 1109.2	0.9
2	Impaired Regulation of Renal K Elimination in Mice Lacking SGLT1. <i>FASEB Journal</i> , 2012 , 26, 1068.16	0.9
1	Leptin but not its long form receptor regulates intestinal membrane expression of sodium/glucose transporter-1 and intestinal hyperplasia. <i>FASEB Journal</i> , 2013 , 27, 1210.13	0.9