

# Timo Rieg

## List of Publications by Year in descending order

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91  
papers

5,669  
citations

87723

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times ranked

5695  
citing authors

#	ARTICLE	IF	CITATIONS
1	Na <sup>+</sup> -glucose Cotransporter SGLT1 is Pivotal for Intestinal Glucose Absorption and Glucose-Dependent Incretin Secretion. <i>Diabetes</i> , 2012, 61, 187-196.	0.3	550
2	SGLT2 Mediates Glucose Reabsorption in the Early Proximal Tubule. <i>Journal of the American Society of Nephrology: JASN</i> , 2011, 22, 104-112.	3.0	429
3	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-F204.	1.3	393
4	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-F167.	1.3	318
5	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-R83.	0.9	239
6	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-F193.	1.3	229
7	Development of SGLT1 and SGLT2 inhibitors. <i>Diabetologia</i> , 2018, 61, 2079-2086.	2.9	212
8	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, 5072-5083.	1.6	204
9	Multiple organic anion transporters contribute to net renal excretion of uric acid. <i>Physiological Genomics</i> , 2008, 33, 180-192.	1.0	203
10	Mice lacking P2Y <sub>2</sub> receptors have salt-resistant hypertension and facilitated renal Na <sup>+</sup> and water reabsorption. <i>FASEB Journal</i> , 2007, 21, 3717-3726.	0.2	160
11	Aldosterone-induced Sgk1 relieves Dot1a-Af9-mediated transcriptional repression of epithelial Na <sup>+</sup> channel $\beta$ . <i>Journal of Clinical Investigation</i> , 2007, 117, 773-783.	3.9	150
12	The role of the BK channel in potassium homeostasis and flow-induced renal potassium excretion. <i>Kidney International</i> , 2007, 72, 566-573.	2.6	143
13	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-F971.	1.3	125
14	Paracrine Regulation of the Epithelial Na <sup>+</sup> Channel in the Mammalian Collecting Duct by Purinergic P2Y <sub>2</sub> Receptor Tone. <i>Journal of Biological Chemistry</i> , 2008, 283, 36599-36607.	1.6	119
15	Sodium-glucose cotransport. <i>Current Opinion in Nephrology and Hypertension</i> , 2015, 24, 463-469.	1.0	117
16	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-F873.	1.3	115
17	Requirement of Intact Adenosine A <sub>1</sub> Receptors for the Diuretic and Natriuretic Action of the Methylxanthines Theophylline and Caffeine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 313, 403-409.	1.3	107
18	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-F1299.	1.3	101

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19	Dietary Na <sup>+</sup> inhibits the open probability of the epithelial sodium channel in the kidney by enhancing apical P2Y <sub>2</sub> receptor tone. <i>FASEB Journal</i> , 2010, 24, 2056-2065.	0.2	92
20	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, 2273-2283.	1.2	86
21	Regulation of renal NaCl and water transport by the ATP/UTP/P2Y <sub>2</sub> receptor system. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 301, F463-F475.	1.3	86
22	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, 2059-2068.	3.0	83
23	Thiazolidinedione-Induced Fluid Retention Is Independent of Collecting Duct ENaC Activity. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 721-729.	3.0	75
24	Organic Anion Transporter 3 Contributes to the Regulation of Blood Pressure. <i>Journal of the American Society of Nephrology: JASN</i> , 2008, 19, 1732-1740.	3.0	72
25	Adenosine A <sub>1</sub> Receptors Determine Glomerular Hyperfiltration and the Salt Paradox in Early Streptozotocin Diabetes Mellitus. <i>Nephron Physiology</i> , 2009, 111, p30-p38.	1.5	72
26	What does sodium-glucose cotransporter 1 inhibition add: Prospects for dual inhibition. <i>Diabetes, Obesity and Metabolism</i> , 2019, 21, 43-52.	2.2	69
27	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-F1373.	1.3	68
28	β1-Integrin is required for kidney collecting duct morphogenesis and maintenance of renal function. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, F210-F217.	1.3	67
29	Purinergic Inhibition of ENaC Produces Aldosterone Escape. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 1903-1911.	3.0	62
30	Functional Maturation of Drug Transporters in the Developing, Neonatal, and Postnatal Kidney. <i>Molecular Pharmacology</i> , 2011, 80, 147-154.	1.0	59
31	Functional consequences at the single-nephron level of the lack of adenosine A <sub>1</sub> receptors and tubuloglomerular feedback in mice. <i>Pflügers Archiv European Journal of Physiology</i> , 2004, 448, 214-221.	1.3	58
32	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.	1.9	58
33	Renal tubular NHE3 is required in the maintenance of water and sodium chloride homeostasis. <i>Kidney International</i> , 2017, 92, 397-414.	2.6	51
34	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-R427.	0.9	50
35	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.	3.0	49
36	A High-throughput Method for Measurement of Glomerular Filtration Rate in Conscious Mice. <i>Journal of Visualized Experiments</i> , 2013, , e50330.	0.2	46

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37	P2Y <sub>2</sub> receptor activation decreases blood pressure and increases renal Na <sup>+</sup> excretion. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R510-R518.	0.9	43
38	Caffeine-induced diuresis and natriuresis is independent of renal tubular NHE3. American Journal of Physiology - Renal Physiology, 2015, 308, F1409-F1420.	1.3	40
39	P2Y receptors and kidney function. Environmental Sciences Europe, 2012, 1, 731-742.	2.6	38
40	Novel developments in differentiating the role of renal and intestinal sodium hydrogen exchanger 3. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R1186-R1191.	0.9	35
41	Pharmacological Npt2a Inhibition Causes Phosphaturia and Reduces Plasma Phosphate in Mice with Normal and Reduced Kidney Function. Journal of the American Society of Nephrology: JASN, 2019, 30, 2128-2139.	3.0	30
42	Regulation of intestinal SGLT1 by catestatin in hyperleptinemic type 2 diabetic mice. Laboratory Investigation, 2016, 96, 98-111.	1.7	29
43	An inducible intestinal epithelial cell-specific NHE3 knockout mouse model mimicking congenital sodium diarrhea. Clinical Science, 2020, 134, 941-953.	1.8	29
44	Kidney function in mice: thiobutabarbital versus $\alpha$ -chloralose anesthesia. Naunyn-Schmiedeberg's Archives of Pharmacology, 2004, 370, 320-323.	1.4	24
45	Renal Phosphate Wasting in the Absence of Adenylyl Cyclase 6. Journal of the American Society of Nephrology: JASN, 2014, 25, 2822-2834.	3.0	24
46	Role of adenylyl cyclase 6 in the development of lithium-induced nephrogenic diabetes insipidus. JCI Insight, 2017, 2, e91042.	2.3	21
47	Regulation of nephron water and electrolyte transport by adenylyl cyclases. American Journal of Physiology - Renal Physiology, 2014, 306, F701-F709.	1.3	18
48	Vasopressin regulation of inner medullary collecting ducts and compensatory changes in mice lacking adenosine A <sub>1</sub> receptors. American Journal of Physiology - Renal Physiology, 2008, 294, F638-F644.	1.3	17
49	P <sub>2</sub> Y <sub>2</sub> receptor activation decreases blood pressure via intermediate conductance potassium channels and connexin 37. Acta Physiologica, 2015, 213, 628-641.	1.8	17
50	SGLT2 inhibition effect on salt-induced hypertension, RAAS, and Na <sup>+</sup> transport in Dahl SS rats. American Journal of Physiology - Renal Physiology, 2022, 322, F692-F707.	1.3	17
51	Combined Effects of Carbonic Anhydrase Inhibitor and Adenosine A <sub>1</sub> Receptor Antagonist on Hemodynamic and Tubular Function in the Kidney. Kidney and Blood Pressure Research, 2007, 30, 388-399.	0.9	15
52	Adenosine A <sub>1</sub> receptors determine effects of caffeine on total fluid intake but not caffeine appetite. European Journal of Pharmacology, 2007, 555, 174-177.	1.7	15
53	Different actions of protein kinase C isoforms $\hat{\alpha}$ and $\hat{\mu}$ on gastric acid secretion. British Journal of Pharmacology, 2002, 136, 938-946.	2.7	14
54	Stimulation of serum- and glucocorticoid-regulated kinase-1 gene expression by endothelin-1. Biochemical Pharmacology, 2006, 71, 1175-1183.	2.0	14

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55	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.	1.3	14
56	Adenylyl cyclase 6 is required for maintaining acid-base homeostasis. <i>Clinical Science</i> , 2018, 132, 1779-1796.	1.8	11
57	Adenylyl Cyclase 6 Expression Is Essential for Cholera Toxin-Induced Diarrhea. <i>Journal of Infectious Diseases</i> , 2019, 220, 1719-1728.	1.9	11
58	Enhanced phosphate absorption in intestinal epithelial cell-specific NHE3 knockout mice. <i>Acta Physiologica</i> , 2022, 234, e13756.	1.8	11
59	PF-06869206 is a selective inhibitor of renal $P_{i}$ transport: evidence from in vitro and in vivo studies. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, F541-F551.	1.3	10
60	Tubular effects of sodium-glucose cotransporter 2 inhibitors: intended and unintended consequences. <i>Current Opinion in Nephrology and Hypertension</i> , 2020, 29, 523-530.	1.0	9
61	Intestine-Specific NHE3 Deletion in Adulthood Causes Microbial Dysbiosis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, .	1.8	9
62	Contribution of NHE3 and dietary phosphate to lithium pharmacokinetics. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 128, 1-7.	1.9	8
63	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.	0.3	7
64	Connecting type A intercalated cell metabolic state to V-ATPase function: phosphorylation does matter!. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F1105-F1106.	1.3	4
65	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-R312.	0.9	4
66	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.	0.9	4
67	Genetic deletion of connexin 37 causes polyuria and polydipsia. <i>PLoS ONE</i> , 2020, 15, e0244251.	1.1	3
68	NHE3 in the thick ascending limb is required for sustained but not acute furosemide-induced urinary acidification. <i>American Journal of Physiology - Renal Physiology</i> , 2022, 323, F141-F155.	1.3	2
69	Holding tight and staying true: generation of a new tamoxifen-inducible, principal cell-specific mouse. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F932-F933.	1.3	1
70	Urinary concentration is impaired in mice lacking adenylyl cyclase 6. <i>FASEB Journal</i> , 2009, 23, 970.10.	0.2	1
71	Regulation of Intestinal SGLT1 by Catestatin in Hyperleptinemic Type 2 Diabetic Mice. <i>FASEB Journal</i> , 2015, 29, 970.9.	0.2	1
72	Intestinal epithelial-specific NHE3 knockout causes metabolic acidosis. <i>FASEB Journal</i> , 2018, 32, 747.13.	0.2	1

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73	Npt2a as a target for treating hyperphosphatemia. <i>Biochemical Society Transactions</i> , 2022, 50, 439-446.	1.6	1
74	Unravelling a role for KCNQ1 in K <sup>+</sup> recycling and gastric acid secretion. <i>Journal of Physiology</i> , 2009, 587, 4149-4150.	1.3	0
75	DOCA unmasks salt sensitivity of blood pressure in mice lacking P2Y <sub>2</sub> receptors. <i>FASEB Journal</i> , 2008, 22, 735.4.	0.2	0
76	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.	0.2	0
77	Unmasking hyperactive ENaC in P2Y <sub>2</sub> mice as a molecular mechanism for their hypertension. <i>FASEB Journal</i> , 2009, 23, 602.1.	0.2	0
78	SGLT2 mediates glucose reabsorption in the early proximal tubule. <i>FASEB Journal</i> , 2010, 24, 606.15.	0.2	0
79	Lack of SGLT1 enhances renal oxidative stress, reduces kidney weight, and blunts diabetic glomerular hyperfiltration. <i>FASEB Journal</i> , 2011, 25, 1038.2.	0.2	0
80	Adenylyl cyclase 6 determines AVP-induced membrane abundance and phosphorylation of NKCC2 and NCC. <i>FASEB Journal</i> , 2012, 26, 1152.7.	0.2	0
81	Leptin receptor deficiency causes intestinal hyperplasia and altered membrane abundance of glucose transporters. <i>FASEB Journal</i> , 2012, 26, 1109.2.	0.2	0
82	Impaired Regulation of Renal K Elimination in Mice Lacking SGLT1. <i>FASEB Journal</i> , 2012, 26, 1068.16.	0.2	0
83	Secondary hyperparathyroidism and impaired renal phosphate excretion in mice lacking adenylyl cyclase 6. <i>FASEB Journal</i> , 2012, 26, .	0.2	0
84	Leptin but not its long form receptor regulates intestinal membrane expression of sodium/glucose transporter and intestinal hyperplasia. <i>FASEB Journal</i> , 2013, 27, 1210.13.	0.2	0
85	Renal Caffeine Effects are Independent of NHE3 Abundance, Trafficking or Phosphorylation. <i>FASEB Journal</i> , 2015, 29, 970.4.	0.2	0
86	Role of NHE3 in renal calcium handling. <i>FASEB Journal</i> , 2018, 32, .	0.2	0
87	Inducible intestinal epithelial cell-specific NHE3 knockout causes diarrhea and more alkaline luminal content. <i>FASEB Journal</i> , 2018, 32, 747.2.	0.2	0
88	Body Mass-specific Na <sup>+</sup> ATPase Activity in the Medullary Thick Ascending Limb – Implications for Species-dependent Urine Concentrating Mechanisms. <i>FASEB Journal</i> , 2018, 32, 862.3.	0.2	0
89	Connexin 37 contributes to water homeostasis and urinary concentrating ability. <i>FASEB Journal</i> , 2019, 33, 575.6.	0.2	0
90	In vivo effects of renal Npt2a inhibition. <i>FASEB Journal</i> , 2019, 33, 751.2.	0.2	0

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91	<i>In vitro</i> effects of Npt2a inhibition in renal proximal tubule cells. FASEB Journal, 2020, 34, 1-1.	0.2	0