# Timo Rieg

## List of Publications by Year in Descending Order



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| 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 | Enhanced phosphate absorption in intestinal epithelial cell-specific NHE3 knockout mice.. *Acta Physiologica*, **2022**, e13756 | 5.6 | 2 |
| 82 | In vitro effects of Npt2a inhibition in renal proximal tubule cells. *FASEB Journal*, **2020**, 34, 1-1 | 0.9 | |
| 81 | Genetic deletion of connexin 37 causes polyuria and polydipsia. *PLoS ONE*, **2020**, 15, e0244251 | 3.7 | 1 |
| 80 | An inducible intestinal epithelial cell-specific NHE3 knockout mouse model mimicking congenital sodium diarrhea. *Clinical Science*, **2020**, 134, 941-953 | 6.5 | 14 |
| 79 | Tubular effects of sodium-glucose cotransporter 2 inhibitors: intended and unintended consequences. *Current Opinion in Nephrology and Hypertension*, **2020**, 29, 523-530 | 3.5 | 0 |
| 78 | PF-06869206 is a selective inhibitor of renal P transport: evidence from in vitro and in vivo studies. *American Journal of Physiology - Renal Physiology*, **2020**, 319, F541-F551 | 4.3 | 3 |
| 77 | 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 | 12.7 | 21 |
| 76 | What does sodium-glucose co-transporter 1 inhibition add: Prospects for dual inhibition. *Diabetes, Obesity and Metabolism*, **2019**, 21 Suppl 2, 43-52 | 6.7 | 33 |
| 75 | Rapid Aldosterone-Mediated Signaling in the DCT Increases Activity of the Thiazide-Sensitive NaCl Cotransporter. *Journal of the American Society of Nephrology: JASN*, **2019**, 30, 1454-1470 | 12.7 | 25 |
| 74 | Connexin 37 contributes to water homeostasis and urinary concentrating ability. *FASEB Journal*, **2019**, 33, 575.6 | 0.9 | |
| 73 | In vivo effects of renal Npt2a inhibition. *FASEB Journal*, **2019**, 33, 751.2 | 0.9 | |
| 72 | Contribution of NHE3 and dietary phosphate to lithium pharmacokinetics. *European Journal of Pharmaceutical Sciences*, **2019**, 128, 1-7 | 5.1 | 6 |
| 71 | Adenylyl Cyclase 6 Expression Is Essential for Cholera Toxin-Induced Diarrhea. *Journal of Infectious Diseases*, **2019**, 220, 1719-1728 | 7 | 4 |
| 70 | Body mass-specific Na-K-ATPase activity in the medullary thick ascending limb: implications for species-dependent urine concentrating mechanisms. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2018**, 314, R563-R573 | 3.2 | 2 |
| 69 | Development of SGLT1 and SGLT2 inhibitors. *Diabetologia*, **2018**, 61, 2079-2086 | 10.3 | 109 |
| 68 | Inducible intestinal epithelial cell-specific NHE3 knockout causes diarrhea and more alkaline luminal content. *FASEB Journal*, **2018**, 32, 747.2 | 0.9 | |
| 67 | Intestinal epithelial-specific NHE3 knockout causes metabolic acidosis. *FASEB Journal*, **2018**, 32, 747.13 | 0.9 | 1 |

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| 66 | Body Mass-Specific Na, K-ATPase Activity in the Medullary Thick Ascending Limb Implications for Species-Dependent Urine Concentrating Mechanisms. *FASEB Journal*, **2018**, 32, 862.3 | 0.9 | |
| 65 | Adenylyl cyclase 6 is required for maintaining acid-base homeostasis. *Clinical Science*, **2018**, 132, 1779-1796 | 6.5 | 8 |
| 64 | Renal tubular NHE3 is required in the maintenance of water and sodium chloride homeostasis. *Kidney International*, **2017**, 92, 397-414 | 9.9 | 38 |
| 63 | Reply to "Reduced NHE3 activity results in congenital diarrhea and can predispose to inflammatory bowel disease". *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2017**, 312, R312 | 3.2 | |
| 62 | Role of adenylyl cyclase 6 in the development of lithium-induced nephrogenic diabetes insipidus. *JCI Insight*, **2017**, 2, e91042 | 9.9 | 17 |
| 61 | Regulation of intestinal SGLT1 by catestatin in hyperleptinemic type 2 diabetic mice. *Laboratory Investigation*, **2016**, 96, 98-111 | 5.9 | 21 |
| 60 | Analysis and validation of traits associated with a single nucleotide polymorphism Gly364Ser in catestatin using humanized chromogranin A mouse models. *Journal of Hypertension*, **2016**, 34, 68-78 | 1.9 | 7 |
| 59 | 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 | 3.2 | 18 |
| 58 | Caffeine-induced diuresis and natriuresis is independent of renal tubular NHE3. *American Journal of Physiology - Renal Physiology*, **2015**, 308, F1409-20 | 4.3 | 30 |
| 57 | P2Y receptor activation decreases blood pressure via intermediate conductance potassium channels and connexin 37. *Acta Physiologica*, **2015**, 213, 628-41 | 5.6 | 11 |
| 56 | Sodium-glucose cotransport. *Current Opinion in Nephrology and Hypertension*, **2015**, 24, 463-9 | 3.5 | 70 |
| 55 | Regulation of Intestinal SGLT1 by Catestatin in Hyperleptinemic Type 2 Diabetic Mice. *FASEB Journal*, **2015**, 29, 970.9 | 0.9 | 1 |
| 54 | Renal Caffeine Effects are Independent of NHE3 Abundance, Trafficking or Phosphorylation. *FASEB Journal*, **2015**, 29, 970.4 | 0.9 | |
| 53 | Increase in SGLT1-mediated transport explains renal glucose reabsorption during genetic and pharmacological SGLT2 inhibition in euglycemia. *American Journal of Physiology - Renal Physiology*, **2014**, 306, F188-93 | 4.3 | 180 |
| 52 | SGLT2 inhibitor empagliflozin reduces renal growth and albuminuria in proportion to hyperglycemia and prevents glomerular hyperfiltration in diabetic Akita mice. *American Journal of Physiology - Renal Physiology*, **2014**, 306, F194-204 | 4.3 | 290 |
| 51 | Regulation of nephron water and electrolyte transport by adenylyl cyclases. *American Journal of Physiology - Renal Physiology*, **2014**, 306, F701-9 | 4.3 | 16 |
| 50 | Renal phosphate wasting in the absence of adenylyl cyclase 6. *Journal of the American Society of Nephrology: JASN*, **2014**, 25, 2822-34 | 12.7 | 20 |
| 49 | Knockout of Na-glucose transporter SGLT2 attenuates hyperglycemia and glomerular hyperfiltration but not kidney growth or injury in diabetes mellitus. *American Journal of Physiology - Renal Physiology*, **2013**, 304, F156-67 | 4.3 | 250 |

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| 48 | Adenylyl cyclase 6 enhances NKCC2 expression and mediates vasopressin-induced phosphorylation of NKCC2 and NCC. *American Journal of Pathology*, **2013**, 182, 96-106 | 5.8 | 56 |
| 47 | A High-throughput method for measurement of glomerular filtration rate in conscious mice. *Journal of Visualized Experiments*, **2013**, e50330 | 1.6 | 39 |
| 46 | Leptin but not its long form receptor regulates intestinal membrane expression of sodium/glucose transporter-1 and intestinal hyperplasia. *FASEB Journal*, **2013**, 27, 1210.13 | 0.9 | |
| 45 | P2Y receptors and kidney function. *Environmental Sciences Europe*, **2012**, 1, 731-742 | 5 | 19 |
| 44 | Na(+)-D-glucose cotransporter SGLT1 is pivotal for intestinal glucose absorption and glucose-dependent incretin secretion. *Diabetes*, **2012**, 61, 187-96 | 0.9 | 456 |
| 43 | A role for the organic anion transporter OAT3 in renal creatinine secretion in mice. *American Journal of Physiology - Renal Physiology*, **2012**, 302, F1293-9 | 4.3 | 85 |
| 42 | 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. *American Journal of Physiology - Renal Physiology*, **2012**, 303, F963-71 | 4.3 | 111 |
| 41 | Acute and chronic effects of SGLT2 blockade on glomerular and tubular function in the early diabetic rat. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2012**, 302, R75-83 | 3.2 | 188 |
| 40 | Adenylyl cyclase 6 determines AVP-induced membrane abundance and phosphorylation of NKCC2 and NCC. *FASEB Journal*, **2012**, 26, 1152.7 | 0.9 | |
| 39 | Leptin receptor deficiency causes intestinal hyperplasia and altered membrane abundance of glucose transporters. *FASEB Journal*, **2012**, 26, 1109.2 | 0.9 | |
| 38 | Impaired Regulation of Renal K Elimination in Mice Lacking SGLT1. *FASEB Journal*, **2012**, 26, 1068.16 | 0.9 | |
| 37 | Cardiac-specific overexpression of caveolin-3 attenuates cardiac hypertrophy and increases natriuretic peptide expression and signaling. *Journal of the American College of Cardiology*, **2011**, 57, 2273-83 | 15.1 | 76 |
| 36 | SGLT2 mediates glucose reabsorption in the early proximal tubule. *Journal of the American Society of Nephrology: JASN*, **2011**, 22, 104-12 | 12.7 | 337 |
| 35 | Functional maturation of drug transporters in the developing, neonatal, and postnatal kidney. *Molecular Pharmacology*, **2011**, 80, 147-54 | 4.3 | 51 |
| 34 | P2Y receptor activation decreases blood pressure and increases renal Na+ excretion. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R510-8 | 3.2 | 36 |
| 33 | Regulation of renal NaCl and water transport by the ATP/UTP/P2Y2 receptor system. *American Journal of Physiology - Renal Physiology*, **2011**, 301, F463-75 | 4.3 | 75 |
| 32 | Lack of SGLT1 enhances renal oxidative stress, reduces kidney weight, and blunts diabetic glomerular hyperfiltration. *FASEB Journal*, **2011**, 25, 1038.2 | 0.9 | |
| 31 | Dietary Na+ inhibits the open probability of the epithelial sodium channel in the kidney by enhancing apical P2Y2-receptor tone. *FASEB Journal*, **2010**, 24, 2056-65 | 0.9 | 88 |

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| 30 | Adenylate cyclase 6 determines cAMP formation and aquaporin-2 phosphorylation and trafficking in inner medulla. *Journal of the American Society of Nephrology: JASN*, **2010**, 21, 2059-68 | 12.7 | 70 |
| 29 | Purinergic inhibition of ENaC produces aldosterone escape. *Journal of the American Society of Nephrology: JASN*, **2010**, 21, 1903-11 | 12.7 | 56 |
| 28 | Renal protection in chronic kidney disease: hypoxia-inducible factor activation vs. angiotensin II blockade. *American Journal of Physiology - Renal Physiology*, **2010**, 299, F1365-73 | 4.3 | 58 |
| 27 | SGLT2 mediates glucose reabsorption in the early proximal tubule. *FASEB Journal*, **2010**, 24, 606.15 | 0.9 | |
| 26 | Thiazolidinedione-induced fluid retention is independent of collecting duct alphaENaC activity. *Journal of the American Society of Nephrology: JASN*, **2009**, 20, 721-9 | 12.7 | 70 |
| 25 | Adenosine A(1) receptors determine glomerular hyperfiltration and the salt paradox in early streptozotocin diabetes mellitus. *Nephron Physiology*, **2009**, 111, p30-8 | | 63 |
| 24 | ATP and adenosine in the local regulation of water transport and homeostasis by the kidney. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2009**, 296, R419-27 | 3.2 | 47 |
| 23 | Beta1-integrin is required for kidney collecting duct morphogenesis and maintenance of renal function. *American Journal of Physiology - Renal Physiology*, **2009**, 297, F210-7 | 4.3 | 48 |
| 22 | Unravelling a role for KCNQ1 in K+ recycling and gastric acid secretion. *Journal of Physiology*, **2009**, 587, 4149-50 | 3.9 | |
| 21 | Urinary concentration is impared in mice lacking adenylyl cyclase 6. *FASEB Journal*, **2009**, 23, 970.10 | 0.9 | 1 |
| 20 | Unmasking hyperactive ENaC in P2Y2 -/- mice as a molecular mechanism for their hypertension. *FASEB Journal*, **2009**, 23, 602.1 | 0.9 | |
| 19 | Multiple organic anion transporters contribute to net renal excretion of uric acid. *Physiological Genomics*, **2008**, 33, 180-92 | 3.6 | 178 |
| 18 | Vasopressin regulation of inner medullary collecting ducts and compensatory changes in mice lacking adenosine A1 receptors. *American Journal of Physiology - Renal Physiology*, **2008**, 294, F638-44 | 4.3 | 17 |
| 17 | Overlapping in vitro and in vivo specificities of the organic anion transporters OAT1 and OAT3 for loop and thiazide diuretics. *American Journal of Physiology - Renal Physiology*, **2008**, 294, F867-73 | 4.3 | 101 |
| 16 | Ornithine decarboxylase inhibitor eliminates hyperresponsiveness of the early diabetic proximal tubule to dietary salt. *American Journal of Physiology - Renal Physiology*, **2008**, 295, F995-F1002 | 4.3 | 13 |
| 15 | Paracrine regulation of the epithelial Na+ channel in the mammalian collecting duct by purinergic P2Y2 receptor tone. *Journal of Biological Chemistry*, **2008**, 283, 36599-607 | 5.4 | 114 |
| 14 | Organic anion transporter 3 contributes to the regulation of blood pressure. *Journal of the American Society of Nephrology: JASN*, **2008**, 19, 1732-40 | 12.7 | 65 |
| 13 | DOCA unmasks salt-sensitivity of blood pressure in mice lacking P2Y2 receptors. *FASEB Journal*, **2008**, 22, 735.4 | 0.9 | |

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| 12 | Collecting duct-specific gene inactivation of ENaC in the mouse kidney does not attenuate rosiglitazone-induced weight gain. *FASEB Journal*, **2008**, 22, 947.14 | 0.9 | |
| 11 | Adenosine A1 receptors determine effects of caffeine on total fluid intake but not caffeine appetite. *European Journal of Pharmacology*, **2007**, 555, 174-7 | 5.3 | 14 |
| 10 | The role of the BK channel in potassium homeostasis and flow-induced renal potassium excretion. *Kidney International*, **2007**, 72, 566-73 | 9.9 | 127 |
| 9 | Combined effects of carbonic anhydrase inhibitor and adenosine A1 receptor antagonist on hemodynamic and tubular function in the kidney. *Kidney and Blood Pressure Research*, **2007**, 30, 388-99 | 3.1 | 14 |
| 8 | Mice lacking P2Y2 receptors have salt-resistant hypertension and facilitated renal Na+ and water reabsorption. *FASEB Journal*, **2007**, 21, 3717-26 | 0.9 | 147 |
| 7 | Aldosterone-induced Sgk1 relieves Dot1a-Af9-mediated transcriptional repression of epithelial Na+ channel alpha. *Journal of Clinical Investigation*, **2007**, 117, 773-83 | 15.9 | 130 |
| 6 | Stimulation of serum- and glucocorticoid-regulated kinase-1 gene expression by endothelin-1. *Biochemical Pharmacology*, **2006**, 71, 1175-83 | 6 | 14 |
| 5 | Decreased renal organic anion secretion and plasma accumulation of endogenous organic anions in OAT1 knock-out mice. *Journal of Biological Chemistry*, **2006**, 281, 5072-83 | 5.4 | 177 |
| 4 | Requirement of intact adenosine A1 receptors for the diuretic and natriuretic action of the methylxanthines theophylline and caffeine. *Journal of Pharmacology and Experimental Therapeutics*, **2005**, 313, 403-9 | 4.7 | 94 |
| 3 | Functional consequences at the single-nephron level of the lack of adenosine A1 receptors and tubuloglomerular feedback in mice. *Pflugers Archiv European Journal of Physiology*, **2004**, 448, 214-21 | 4.6 | 55 |
| 2 | Kidney function in mice: thiobutabarbital versus alpha-chloralose anesthesia. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2004**, 370, 320-3 | 3.4 | 18 |
| 1 | Different actions of protein kinase C isoforms alpha and epsilon on gastric acid secretion. *British Journal of Pharmacology*, **2002**, 136, 938-46 | 8.6 | 12 |