RenÃ© J M Bindels

List of Publications by Year
in descending order

244 papers	16,785 citations	13854 67 h-index	18633 119 g-index
245 all docs	245 docs citations	245 times ranked	10787 citing authors

#	Article	IF	Citations
1	Colonic expression of calcium transporter TRPV6 is regulated by dietary sodium butyrate. Pflugers Archiv European Journal of Physiology, 2022, 474, 293-302.	1.3	3
2	Mechanisms coupling sodium and magnesium reabsorption in the distal convoluted tubule of the kidney. Acta Physiologica, 2021, 231, e13528.	1.8	27
3	Proteomic Profile of Urinary Extracellular Vesicles Identifies AGP1 as a Potential Biomarker of Primary Aldosteronism. Endocrinology, 2021, 162, .	1.4	12
4	Comparing Approaches to Normalize, Quantify, and Characterize Urinary Extracellular Vesicles. Journal of the American Society of Nephrology: JASN, 2021, 32, 1210-1226.	3.0	53
5	Functional tests to guide management in an adult with loss of function of type-1 angiotensin II receptor. Pediatric Nephrology, 2021, 36, 2731-2737.	0.9	0
6	The phenotypic and genetic spectrum of patients with heterozygous mutations in cyclin M2 (CNNM2). Human Mutation, 2021, 42, 473-486.	1.1	21
7	Extracellular vesicles regulate purinergic signaling and epithelial sodium channel expression in renal collecting duct cells. FASEB Journal, 2021, 35, e21506.	0.2	9
8	Cyclin M2 (CNNM2) knockout mice show mild hypomagnesaemia and developmental defects. Scientific Reports, 2021, 11, 8217.	1.6	18
9	Pannexinâ€1 mediates fluid shear stressâ€sensitive purinergic signaling and cyst growth in polycystic kidney disease. FASEB Journal, 2020, 34, 6382-6398.	0.2	15
10	Sensing of tubular flow and renal electrolyte transport. Nature Reviews Nephrology, 2020, 16, 337-351.	4.1	41
11	Novel Aspects of Extracellular Vesicles in the Regulation of Renal Physiological and Pathophysiological Processes. Frontiers in Cell and Developmental Biology, 2020, 8, 244.	1.8	18
12	Low gut microbiota diversity and dietary magnesium intake are associated with the development of PPIâ€induced hypomagnesemia. FASEB Journal, 2019, 33, 11235-11246.	0.2	32
13	Learning Physiology from Inherited Kidney Disorders. Physiological Reviews, 2019, 99, 1575-1653.	13.1	60
14	Renal phospholipidosis and impaired magnesium handling in highâ€fatâ€dietâ€"fed mice. FASEB Journal, 2019, 33, 7192-7201.	0.2	12
15	Effect of Dapagliflozin Treatment on the Expression of Renal Sodium Transporters/Channels on High-Fat Diet Diabetic Mice. Nephron, 2019, 142, 51-60.	0.9	13
16	Diabetes-induced hypomagnesemia is not modulated by metformin treatment in mice. Scientific Reports, 2019, 9, 1770.	1.6	9
17	Tubular flow activates magnesium transport in the distal convoluted tubule. FASEB Journal, 2019, 33, 5034-5044.	0.2	12
18	SLC41A1 is essential for magnesium homeostasis in vivo. Pflugers Archiv European Journal of Physiology, 2019, 471, 845-860.	1.3	29

#	Article	IF	Citations
19	Increased NEFA levels reduce blood Mg2+ in hypertriacylglycerolaemic states via direct binding of NEFA to Mg2+. Diabetologia, 2019, 62, 311-321.	2.9	14
20	TRPC5 inhibition to treat progressive kidney disease. Nature Reviews Nephrology, 2018, 14, 145-146.	4.1	9
21	Genome-Wide Meta-Analysis Unravels Interactions between Magnesium Homeostasis and Metabolic Phenotypes. Journal of the American Society of Nephrology: JASN, 2018, 29, 335-348.	3.0	34
22	Dominant functional role of the novel phosphorylation site S811 in the human renal NaCl cotransporter. FASEB Journal, 2018, 32, 4482-4493.	0.2	5
23	Transcription factor HNF1Î² regulates expression of the calcium-sensing receptor in the thick ascending limb of the kidney. American Journal of Physiology - Renal Physiology, 2018, 315, F27-F35.	1.3	18
24	Polycystin-1 dysfunction impairs electrolyte and water handling in a renal precystic mouse model for ADPKD. American Journal of Physiology - Renal Physiology, 2018, 315, F537-F546.	1.3	17
25	Effects of a high-sodium/low-potassium diet on renal calcium, magnesium, and phosphate handling. American Journal of Physiology - Renal Physiology, 2018, 315, F110-F122.	1.3	27
26	Magnesium deficiency prevents high-fat-diet-induced obesity in mice. Diabetologia, 2018, 61, 2030-2042.	2.9	16
27	Primary ciliaâ€regulated transcriptome in the renal collecting duct. FASEB Journal, 2018, 32, 3653-3668.	0.2	18
28	Uromodulin regulates renal magnesium homeostasis through the ion channel transient receptor potential melastatin 6 (TRPM6). Journal of Biological Chemistry, 2018, 293, 16488-16502.	1.6	43
29	The rise and fall of novel renal magnesium transporters. American Journal of Physiology - Renal Physiology, 2018, 314, F1027-F1033.	1.3	40
30	Differential regulation of the Na + -Ca 2+ exchanger 3 (NCX3) by protein kinase PKC and PKA. Cell Calcium, 2017, 65, 52-62.	1.1	13
31	Hydrochlorothiazide treatment increases the abundance of the NaCl cotransporter in urinary extracellular vesicles of essential hypertensive patients. American Journal of Physiology - Renal Physiology, 2017, 312, F1063-F1072.	1.3	15
32	Fluid shear stress increases transepithelial transport of Ca ²⁺ in ciliated distal convoluted and connecting tubule cells. FASEB Journal, 2017, 31, 1796-1806.	0.2	17
33	Loss of transcriptional activation of the potassium channel Kir5.1 by HNF1Î² drives autosomal dominant tubulointerstitial kidney disease. Kidney International, 2017, 92, 1145-1156.	2.6	41
34	Common single nucleotide polymorphisms in transient receptor potential melastatin type 6 increase the risk for proton pump inhibitor-induced hypomagnesemia. Pharmacogenetics and Genomics, 2017, 27, 83-88.	0.7	29
35	Determinants of hypomagnesemia in patients with type 2 diabetes mellitus. European Journal of Endocrinology, 2017, 176, 11-19.	1.9	59
36	NaCl cotransporter abundance in urinary vesicles is increased by calcineurin inhibitors and predicts thiazide sensitivity. PLoS ONE, 2017, 12, e0176220.	1.1	30

#	Article	IF	Citations
37	Calcium Extrusion Pump PMCA4: A New Player in Renal Calcium Handling?. PLoS ONE, 2016, 11, e0153483.	1.1	12
38	Inulin significantly improves serum magnesium levels in proton pump inhibitorâ€induced hypomagnesaemia. Alimentary Pharmacology and Therapeutics, 2016, 43, 1178-1185.	1.9	14
39	Alternative splice variant of the thiazide-sensitive NaCl cotransporter: a novel player in renal salt handling. American Journal of Physiology - Renal Physiology, 2016, 310, F204-F216.	1.3	20
40	Identification of SLC41A3 as a novel player in magnesium homeostasis. Scientific Reports, 2016, 6, 28565.	1.6	50
41	Functionomics of NCC mutations in Gitelman syndrome using a novel mammalian cell-based activity assay. American Journal of Physiology - Renal Physiology, 2016, 311, F1159-F1167.	1.3	22
42	Calpain-3-mediated regulation of the Na+-Ca2+ exchanger isoform 3. Pflugers Archiv European Journal of Physiology, 2016, 468, 243-255.	1.3	12
43	Urinary Î²-galactosidase stimulates Ca²⁺transport by stabilizing TRPV5 at the plasma membrane. Glycobiology, 2016, 26, 472-481.	1.3	6
44	Regulation of Mg2+ Reabsorption and Transient Receptor Potential Melastatin Type 6 Activity by cAMP Signaling. Journal of the American Society of Nephrology: JASN, 2016, 27, 804-813.	3.0	21
45	Hypomagnesemia in Type 2 Diabetes: A Vicious Circle?. Diabetes, 2016, 65, 3-13.	0.3	217
46	P2X6 Knockout Mice Exhibit Normal Electrolyte Homeostasis. PLoS ONE, 2016, 11, e0156803.	1.1	7
47	Lifelong challenge of calcium homeostasis in male mice lacking TRPV5 leads to changes in bone and calcium metabolism. Oncotarget, 2016, 7, 24928-24941.	0.8	6
48	The Na⁺/Ca²⁺ Exchanger 1 (NCX1) Variant 3 as the Major Extrusion System in Renal Distal Tubular Transcellular Ca²⁺-Transport. Nephron, 2015, 131, 145-152.	0.9	7
49	Flavaglines Stimulate Transient Receptor Potential Melastatin Type 6 (TRPM6) Channel Activity. PLoS ONE, 2015, 10, e0119028.	1.1	13
50	Dietary Inulin Fibers Prevent Proton-Pump Inhibitor (PPI)-Induced Hypocalcemia in Mice. PLoS ONE, 2015, 10, e0138881.	1.1	24
51	Deregulated Renal Calcium and Phosphate Transport during Experimental Kidney Failure. PLoS ONE, 2015, 10, e0142510.	1.1	26
52	SP019RECURRENT FXYD2 P.GLY41ARG MUTATION IN PATIENTS WITH ISOLATED DOMINANT HYPOMAGNESEMIA. Nephrology Dialysis Transplantation, 2015, 30, iii387-iii387.	0.4	0
53	Segmental transport of Ca²⁺and Mg²⁺along the gastrointestinal tract. American Journal of Physiology - Renal Physiology, 2015, 308, G206-G216.	1.6	47
54	De novo gain-of-function and loss-of-function mutations of<i>SCN8A</i>in patients with intellectual disabilities and epilepsy. Journal of Medical Genetics, 2015, 52, 330-337.	1.5	124

#	Article	IF	Citations
55	The impact of formative testing on study behaviour and study performance of (bio)medical students: a smartphone application intervention study. BMC Medical Education, 2015, 15, 72.	1.0	30
56	Recurrent FXYD2 p.Gly41Arg mutation in patients with isolated dominant hypomagnesaemia. Nephrology Dialysis Transplantation, 2015, 30, 952-957.	0.4	51
57	Magnesium in Man: Implications for Health and Disease. Physiological Reviews, 2015, 95, 1-46.	13.1	1,099
58	TRP channelâ€“associated factors are a novel protein family that regulates TRPM8 trafficking and activity. Journal of Cell Biology, 2015, 208, 89-107.	2.3	79
59	Interleukin 18 function in atherosclerosis is mediated by the interleukin 18 receptor and the Na-Cl co-transporter. Nature Medicine, 2015, 21, 820-826.	15.2	81
60	Towards Understanding the Role of the Na+-Ca2+ Exchanger Isoform 3. Reviews of Physiology, Biochemistry and Pharmacology, 2015, 168, 31-57.	0.9	15
61	Shedding of klotho by ADAMs in the kidney. American Journal of Physiology - Renal Physiology, 2015, 309, F359-F368.	1.3	46
62	Thrombin receptor deficiency leads to a high bone mass phenotype by decreasing the RANKL/OPG ratio. Bone, 2015, 72, 14-22.	1.4	22
63	TRP channelâ€“associated factors are a novel protein family that regulates TRPM8 trafficking and activity. Journal of General Physiology, 2015, 145, 1452OIA1.	0.9	0
64	Variant Specific Cleavage of the Na + â€Ca 2+ Exchanger NCX3 During Excitotoxicity. FASEB Journal, 2015, 29, LB620.	0.2	0
65	Î²1-Adrenergic Receptor Signaling Activates the Epithelial Calcium Channel, Transient Receptor Potential Vanilloid Type 5 (TRPV5), via the Protein Kinase A Pathway. Journal of Biological Chemistry, 2014, 289, 18489-18496.	1.6	9
66	CNNM2 Mutations Cause Impaired Brain Development and Seizures in Patients with Hypomagnesemia. PLoS Genetics, 2014, 10, e1004267.	1.5	118
67	A novel <i>KCNA1</i> mutation causing episodic ataxia type I. Muscle and Nerve, 2014, 50, 289-291.	1.0	15
68	Mg2+ homeostasis. Current Opinion in Nephrology and Hypertension, 2014, 23, 361-369.	1.0	35
69	Function and Regulation of the Na+-Ca2+ Exchanger NCX3 Splice Variants in Brain and Skeletal Muscle. Journal of Biological Chemistry, 2014, 289, 11293-11303.	1.6	33
70	Ankyrin-3 is a novel binding partner of the voltage-gated potassium channel Kv1.1 implicated in renal magnesium handling. Kidney International, 2014, 85, 94-102.	2.6	10
71	P2X4 receptor regulation of transient receptor potential melastatin type 6 (TRPM6) Mg2+ channels. Pflugers Archiv European Journal of Physiology, 2014, 466, 1941-1952.	1.3	27
72	Sodium-dependent transporters in health and diseaseâ€"a special issue. Pflugers Archiv European Journal of Physiology, 2014, 466, 1-2.	1.3	1

#	Article	IF	Citations
73	Coordinated regulation of TRPV5-mediated Ca2+ transport in primary distal convolution cultures. Pflugers Archiv European Journal of Physiology, 2014, 466, 2077-2087.	1.3	33
74	Mutations in PCBD1 Cause Hypomagnesemia and Renal Magnesium Wasting. Journal of the American Society of Nephrology: JASN, 2014, 25, 574-586.	3.0	68
75	Structural analysis of calmodulin binding to ion channels demonstrates the role of its plasticity in regulation. Pflugers Archiv European Journal of Physiology, 2013, 465, 1507-1519.	1.3	42
76	Vitamin D Down-Regulates TRPC6 Expression in Podocyte Injury and Proteinuric Glomerular Disease. American Journal of Pathology, 2013, 182, 1196-1204.	1.9	44
77	Early Development of Hyperparathyroidism Due to Loss of<i>PTH</i>Transcriptional Repression in Patients With HNF1Î² Mutations?. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 4089-4096.	1.8	26
78	The Epithelial Calcium Channel TRPV5 Is Regulated Differentially by Klotho and Sialidase. Journal of Biological Chemistry, 2013, 288, 29238-29246.	1.6	42
79	Cisplatin-induced injury of the renal distal convoluted tubule is associated with hypomagnesaemia in mice. Nephrology Dialysis Transplantation, 2013, 28, 879-889.	0.4	50
80	The vitamin D analog ZK191784 normalizes decreased bone matrix mineralization in mice lacking the calcium channel TRPV5. Journal of Cellular Physiology, 2013, 228, 402-407.	2.0	5
81	Evaluation of Hypomagnesemia: Lessons From Disorders of Tubular Transport. American Journal of Kidney Diseases, 2013, 62, 377-383.	2.1	27
82	Calcium Channels. , 2013, , 2167-2185.		0
83	A molecular update on pseudohypoaldosteronism type II. American Journal of Physiology - Renal Physiology, 2013, 305, F1513-F1520.	1.3	49
84	Elucidation of the distal convoluted tubule transcriptome identifies new candidate genes involved in renal Mg²⁺ handling. American Journal of Physiology - Renal Physiology, 2013, 305, F1563-F1573.	1.3	46
85	New TRPC6 gain-of-function mutation in a non-consanguineous Dutch family with late-onset focal segmental glomerulosclerosis. Nephrology Dialysis Transplantation, 2013, 28, 1830-1838.	0.4	47
86	Autosomal Dominant Hypercalciuria in a Mouse Model Due to a Mutation of the Epithelial Calcium Channel, TRPV5. PLoS ONE, 2013, 8, e55412.	1.1	35
87	A primary culture of distal convoluted tubules expressing functional thiazide-sensitive NaCl transport. American Journal of Physiology - Renal Physiology, 2012, 303, F886-F892.	1.3	31
88	Functional TRPV6 channels are crucial for transepithelial Ca²⁺absorption. American Journal of Physiology - Renal Physiology, 2012, 303, G879-G885.	1.6	59
89	Regulation of magnesium balance: lessons learned from human genetic disease. CKJ: Clinical Kidney Journal, 2012, 5, i15-i24.	1.4	123
90	Urinary Plasmin Inhibits TRPV5 in Nephrotic-Range Proteinuria. Journal of the American Society of Nephrology: JASN, 2012, 23, 1824-1834.	3.0	19

#	Article	IF	Citations
91	Membrane Topology and Intracellular Processing of Cyclin M2 (CNNM2). Journal of Biological Chemistry, 2012, 287, 13644-13655.	1.6	86
92	The ERA-EDTA Working Group on inherited kidney disorders. Nephrology Dialysis Transplantation, 2012, 27, 67-69.	0.4	10
93	Characterization of vitamin D-deficient klotho-/- mice: do increased levels of serum 1,25(OH)2D3 cause disturbed calcium and phosphate homeostasis in klotho-/- mice?. Nephrology Dialysis Transplantation, 2012, 27, 4061-4068.	0.4	19
94	Sensing mechanisms involved in Ca2+ and Mg2+ homeostasis. Kidney International, 2012, 82, 1157-1166.	2.6	45
95	The transient receptor potential channel TRPV6 is dynamically expressed in bone cells but is not crucial for bone mineralization in mice. Journal of Cellular Physiology, 2012, 227, 1951-1959.	2.0	36
96	Transport of Calcium, Magnesium, and Phosphate. , 2012, , 226-251.		8
97	Transient Receptor Potential Melastatin 6 Knockout Mice Are Lethal whereas Heterozygous Deletion Results in Mild Hypomagnesemia. Nephron Physiology, 2011, 117, p11-p19.	1.5	72
98	Angiotensin II Contributes to Podocyte Injury by Increasing TRPC6 Expression via an NFAT-Mediated Positive Feedback Signaling Pathway. American Journal of Pathology, 2011, 179, 1719-1732.	1.9	180
99	HNF-1B specifically regulates the transcription of the Î³a-subunit of the Na+/K+-ATPase. Biochemical and Biophysical Research Communications, 2011, 404, 284-290.	1.0	64
100	Role of the distal convoluted tubule in renal Mg2+ handling: molecular lessons from inherited hypomagnesemia. Magnesium Research, 2011, 24, 101-108.	0.4	11
101	Insight into renal Mg2+ transporters. Current Opinion in Nephrology and Hypertension, 2011, 20, 169-176.	1.0	36
102	Molecular basis of epithelial Ca²⁺ and Mg²⁺ transport: insights from the TRP channel family. Journal of Physiology, 2011, 589, 1535-1542.	1.3	84
103	Role of the Calcium-Sensing Receptor in Reducing the Risk for Calcium Stones. Clinical Journal of the American Society of Nephrology: CJASN, 2011, 6, 2076-2082.	2.2	18
104	Î³-Adducin Stimulates the Thiazide-sensitive NaCl Cotransporter. Journal of the American Society of Nephrology: JASN, 2011, 22, 508-517.	3.0	21
105	Role of the Transient Receptor Potential Vanilloid 5 (TRPV5) Protein N Terminus in Channel Activity, Tetramerization, and Trafficking. Journal of Biological Chemistry, 2011, 286, 32132-32139.	1.6	18
106	Molecular Mechanisms of Calmodulin Action on TRPV5 and Modulation by Parathyroid Hormone. Molecular and Cellular Biology, 2011, 31, 2845-2853.	1.1	78
107	Novel molecular pathways in renal Mg2+ transport: a guided tour along the nephron. Current Opinion in Nephrology and Hypertension, 2010, 19, 456-462.	1.0	27
108	A helix-breaking mutation in the epithelial Ca2+ channel TRPV5 leads to reduced Ca2+-dependent inactivation. Cell Calcium, 2010, 48, 275-287.	1.1	13

#	Article	IF	Citations
109	Methionine Sulfoxide Reductase B1 (MsrB1) Recovers TRPM6 Channel Activity during Oxidative Stress. Journal of Biological Chemistry, 2010, 285, 26081-26087.	1.6	71
110	Functional Analysis of the Kv1.1 N255D Mutation Associated with Autosomal Dominant Hypomagnesemia. Journal of Biological Chemistry, 2010, 285, 171-178.	1.6	50
111	Calcitonin-stimulated renal Ca2+ reabsorption occurs independently of TRPV5. Nephrology Dialysis Transplantation, 2010, 25, 1428-1435.	0.4	14
112	2009 Homer W. Smith Award. Journal of the American Society of Nephrology: JASN, 2010, 21, 1263-1269.	3.0	20
113	Testosterone increases urinary calcium excretion and inhibits expression of renal calcium transport proteins. Kidney International, 2010, 77, 601-608.	2.6	63
114	Involvement of claudin 3 and claudin 4 in idiopathic infantile hypercalcaemia: a novel hypothesis?. Nephrology Dialysis Transplantation, 2010, 25, 3504-3509.	0.4	12
115	The Identification of Histidine 712 as a Critical Residue for Constitutive TRPV5 Internalization. Journal of Biological Chemistry, 2010, 285, 28481-28487.	1.6	13
116	New molecular players facilitating Mg2+ reabsorption in the distal convoluted tubule. Kidney International, 2010, 77, 17-22.	2.6	61
117	Epithelial Mg2+ channel TRPM6: insight into theÂmolecular regulation. Magnesium Research, 2009, 22, 127-132.	0.4	31
118	Parathyroid Hormone Activates TRPV5 via PKA-Dependent Phosphorylation. Journal of the American Society of Nephrology: JASN, 2009, 20, 1693-1704.	3.0	142
119	Conditional fast expression and function of multimeric TRPV5 channels using Shield-1. American Journal of Physiology - Renal Physiology, 2009, 296, F204-F211.	1.3	6
120	Coexistence of normotensive primary aldosteronism in two patients with Gitelman's syndrome and novel thiazide-sensitive Naâ€“Cl cotransporter mutations. European Journal of Endocrinology, 2009, 161, 275-283.	1.9	24
121	Activation of the Ca2+-sensing receptor stimulates the activity of the epithelial Ca2+ channel TRPV5. Cell Calcium, 2009, 45, 331-339.	1.1	82
122	Active Ca2+ reabsorption in the connecting tubule. Pflugers Archiv European Journal of Physiology, 2009, 458, 99-109.	1.3	108
123	A molecularly guided tour along the nephron. Pflugers Archiv European Journal of Physiology, 2009, 458, 1-3.	1.3	2
124	The role of transient receptor potential channels in kidney disease. Nature Reviews Nephrology, 2009, 5, 441-449.	4.1	125
125	Regulation of magnesium reabsorption in DCT. Pflugers Archiv European Journal of Physiology, 2009, 458, 89-98.	1.3	31
126	Identification of Nipsnap1 as a novel auxiliary protein inhibiting TRPV6 activity. Pflugers Archiv European Journal of Physiology, 2008, 457, 91-101.	1.3	26

#	Article	IF	Citations
127	Bone Resorption Inhibitor Alendronate Normalizes the Reduced Bone Thickness of TRPV5â^'/â^' Mice. Journal of Bone and Mineral Research, 2008, 23, 1815-1824.	3.1	25
128	RACK1 Inhibits TRPM6 Activity via Phosphorylation of the Fused Î±-Kinase Domain. Current Biology, 2008, 18, 168-176.	1.8	67
129	Impaired routing of wild type FXYD2 after oligomerisation with FXYD2-G41R might explain the dominant nature of renal hypomagnesemia. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 398-404.	1.4	24
130	Murine TNFÎ"ARE CrohnÊ¼s disease model displays diminished expression of intestinal Ca2+ transporters. Inflammatory Bowel Diseases, 2008, 14, 803-811.	0.9	41
131	TRPV5: an ingeniously controlled calcium channel. Kidney International, 2008, 74, 1241-1246.	2.6	76
132	TRPV5 Is Internalized via Clathrin-dependent Endocytosis to Enter a Ca2+-controlled Recycling Pathway. Journal of Biological Chemistry, 2008, 283, 4077-4086.	1.6	35
133	Role of the Î±-Kinase Domain in Transient Receptor Potential Melastatin 6 Channel and Regulation by Intracellular ATP. Journal of Biological Chemistry, 2008, 283, 19999-20007.	1.6	48
134	Calciotropic and Magnesiotropic TRP Channels. Physiology, 2008, 23, 32-40.	1.6	87
135	Insight into the molecular regulation of the epithelial magnesium channel TRPM6. Current Opinion in Nephrology and Hypertension, 2008, 17, 373-378.	1.0	16
136	Calcium Channels. , 2008, , 1769-1783.		0
137	Prednisolone-induced Ca2+ malabsorption is caused by diminished expression of the epithelial Ca2+ channel TRPV6. American Journal of Physiology - Renal Physiology, 2007, 292, G92-G97.	1.6	99
138	Regulation of the epithelial calcium channel TRPV5 by extracellular factors. Current Opinion in Nephrology and Hypertension, 2007, 16, 319-324.	1.0	33
139	TRP channels in kidney disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 928-936.	1.8	60
140	TRPV5-mediated Ca2+ Reabsorption and Hypercalciuria. AIP Conference Proceedings, 2007, , .	0.3	0
141	Aromatase Deficiency Causes Altered Expression of Molecules Critical for Calcium Reabsorption in the Kidneys of Female Mice. Journal of Bone and Mineral Research, 2007, 22, 1893-1902.	3.1	45
142	TRPM6 and TRPM7 Chanzymes Essential for Magnesium Homeostasis. , 2007, , 34-45.		0
143	Epithelial Ca2+ and Mg2+ Channels in Kidney Disease. Advances in Chronic Kidney Disease, 2006, 13, 110-117.	0.6	23
144	The novel vitamin D analog ZK191784 as an intestine-specific vitamin D antagonist. FASEB Journal, 2006, 20, 2171-2173.	0.2	15

#	Article	IF	Citations
145	Recent advances in renal tubular calcium reabsorption. Current Opinion in Nephrology and Hypertension, 2006, 15, 524-529.	1.0	46
146	Tissue kallikrein stimulates Ca2+ reabsorption via PKC-dependent plasma membrane accumulation of TRPV5. EMBO Journal, 2006, 25, 4707-4716.	3.5	71
147	Interaction of the epithelial Ca2+ channels TRPV5 and TRPV6 with the intestine- and kidney-enriched PDZ protein NHERF4. Pflugers Archiv European Journal of Physiology, 2006, 452, 407-417.	1.3	32
148	The novel vitamin D analog ZK191784 as an intestine-specific vitamin D antagonist. FASEB Journal, 2006, , .	0.2	15
149	Acid-Base Status Determines the Renal Expression of Ca2+ and Mg2+ Transport Proteins. Journal of the American Society of Nephrology: JASN, 2006, 17, 617-626.	3.0	142
150	Age-dependent alterations in Ca2+ homeostasis: role of TRPV5 and TRPV6. American Journal of Physiology - Renal Physiology, 2006, 291, F1177-F1183.	1.3	52
151	The immunophilin FKBP52 inhibits the activity of the epithelial Ca2+ channel TRPV5. American Journal of Physiology - Renal Physiology, 2006, 290, F1253-F1259.	1.3	36
152	Regulation of TRPV5 and TRPV6 by associated proteins. American Journal of Physiology - Renal Physiology, 2006, 290, F1295-F1302.	1.3	87
153	Identification of BSPRY as a Novel Auxiliary Protein Inhibiting TRPV5 Activity. Journal of the American Society of Nephrology: JASN, 2006, 17, 26-30.	3.0	30
154	PACSINs Bind to the TRPV4 Cation Channel. Journal of Biological Chemistry, 2006, 281, 18753-18762.	1.6	166
155	Direct Interaction with Rab11a Targets the Epithelial Ca 2+ Channels TRPV5 and TRPV6 to the Plasma Membrane. Molecular and Cellular Biology, 2006, 26, 303-312.	1.1	120
156	Coordinated control of renal Ca2+ transport proteins by parathyroid hormone. Kidney International, 2005, 68, 1708-1721.	2.6	179
157	The epithelial calcium channels TRPV5 and TRPV6: regulation and implications for disease. Naunyn-Schmiedeberg's Archives of Pharmacology, 2005, 371, 295-306.	1.4	83
158	Characterization of a Madin-Darby canine kidney cell line stably expressing TRPV5. Pflugers Archiv European Journal of Physiology, 2005, 450, 236-244.	1.3	14
159	TRPV5 and TRPV6 in Ca2+ (re)absorption: regulating Ca2+ entry at the gate. Pflugers Archiv European Journal of Physiology, 2005, 451, 181-192.	1.3	111
160	Enhanced passive Ca2+ reabsorption and reduced Mg2+ channel abundance explains thiazide-induced hypocalciuria and hypomagnesemia. Journal of Clinical Investigation, 2005, 115, 1651-1658.	3.9	410
161	Tissue Kallikreinâ€"Deficient Mice Display a Defect in Renal Tubular Calcium Absorption. Journal of the American Society of Nephrology: JASN, 2005, 16, 3602-3610.	3.0	54
162	Hypervitaminosis D Mediates Compensatory Ca2+ Hyperabsorption in TRPV5 Knockout Mice. Journal of the American Society of Nephrology: JASN, 2005, 16, 3188-3195.	3.0	85

#	Article	IF	Citations
163	The epithelial Ca2+ channel TRPV5 is essential for proper osteoclastic bone resorption. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17507-17512.	3.3	164
164	Requirement of PDZ Domains for the Stimulation of the Epithelial Ca²⁺ Channel TRPV5 by the NHE Regulating Factor NHERF2 and the Serum and Glucocorticoid Inducible Kinase SGK1. Cellular Physiology and Biochemistry, 2005, 15, 175-182.	1.1	61
165	Localization and Functional Characterization of Glycosaminoglycan Domains in the Normal Human Kidney as Revealed by Phage Display-Derived Single Chain Antibodies. Journal of the American Society of Nephrology: JASN, 2005, 16, 1279-1288.	3.0	39
166	Is vitamin D indispensable for Ca2+ homeostasis: lessons from knockout mouse models?. Nephrology Dialysis Transplantation, 2005, 20, 864-867.	0.4	11
167	Epithelial Ca2+ and Mg2+ Channels in Health and Disease. Journal of the American Society of Nephrology: JASN, 2005, 16, 15-26.	3.0	160
168	Calcium Absorption Across Epithelia. Physiological Reviews, 2005, 85, 373-422.	13.1	746
169	Characterization of a murine renal distal convoluted tubule cell line for the study of transcellular calcium transport. American Journal of Physiology - Renal Physiology, 2004, 286, F483-F489.	1.3	37
170	Downregulation of Ca2+ and Mg2+ Transport Proteins in the Kidney Explains Tacrolimus (FK506)-Induced Hypercalciuria and Hypomagnesemia. Journal of the American Society of Nephrology: JASN, 2004, 15, 549-557.	3.0	169
171	Regulation of the Epithelial Ca²⁺ Channel TRPV5 by the NHE Regulating Factor NHERF2 and the Serum and Glucocorticoid Inducible Kinase Isoforms SGK1 and SGK3 Expressed in <i>Xenopus oocytes</i>. Cellular Physiology and Biochemistry, 2004, 14, 203-212.	1.1	79
172	TRPM6 Forms the Mg2+ Influx Channel Involved in Intestinal and Renal Mg2+ Absorption. Journal of Biological Chemistry, 2004, 279, 19-25.	1.6	552
173	Regulation of the Mouse Epithelial Ca2+ Channel TRPV6 by the Ca2+-sensor Calmodulin. Journal of Biological Chemistry, 2004, 279, 28855-28861.	1.6	126
174	80K-H as a New Ca2+ Sensor Regulating the Activity of the Epithelial Ca2+ Channel Transient Receptor Potential Cation Channel V5 (TRPV5). Journal of Biological Chemistry, 2004, 279, 26351-26357.	1.6	65
175	Molecular Determinants in TRPV5 Channel Assembly. Journal of Biological Chemistry, 2004, 279, 54304-54311.	1.6	79
176	Regulation of gene expression by dietary Ca2+ in kidneys of 25-hydroxyvitamin D3-1Î±-hydroxylase knockout mice. Kidney International, 2004, 65, 531-539.	2.6	59
177	Effects of vitamin D compounds on renal and intestinal Ca2+ transport proteins in 25-hydroxyvitamin D3-1Î±-hydroxylase knockout mice1. Kidney International, 2004, 66, 1082-1089.	2.6	48
178	Regulation of the epithelial Ca2+ channels TRPV5 and TRPV6 by 1Î±,25-dihydroxy Vitamin D3 and dietary Ca2+. Journal of Steroid Biochemistry and Molecular Biology, 2004, 89-90, 303-308.	1.2	51
179	Effects of chemical chaperones on partially retarded NaCl cotransporter mutants associated with Gitelman's syndrome in a mouse cortical collecting duct cell line. Nephrology Dialysis Transplantation, 2004, 19, 1069-1076.	0.4	12
180	Functional expression of the epithelial Ca2+ channels (TRPV5 and TRPV6) requires association of the S100A10-annexin 2 complex. EMBO Journal, 2003, 22, 1478-1487.	3.5	253

#	Article	IF	Citations
181	The carboxyl terminus of the epithelial Ca2+ channel ECaC1 is involved in Ca2+-dependent inactivation. Pflugers Archiv European Journal of Physiology, 2003, 445, 584-588.	1.3	56
182	(Patho)physiological implications of the novel epithelial Ca2+ channels TRPV5 and TRPV6. Pflugers Archiv European Journal of Physiology, 2003, 446, 401-409.	1.3	70
183	Epithelial calcium channels: from identification to function and regulation. Pflugers Archiv European Journal of Physiology, 2003, 446, 304-308.	1.3	90
184	The epithelial calcium channels, TRPV5 & TRPV6: from identification towards regulation. Cell Calcium, 2003, 33, 497-507.	1.1	187
185	Thiazide-induced hypocalciuria is accompanied by a decreased expression of Ca2+ transport proteins in kidney. Kidney International, 2003, 64, 555-564.	2.6	107
186	A molecular switch controlling renal sodium and potassium excretion. Nature Genetics, 2003, 35, 302-303.	9.4	19
187	Localization and Regulation of the Epithelial Ca2+ Channel TRPV6 in the Kidney. Journal of the American Society of Nephrology: JASN, 2003, 14, 2731-2740.	3.0	185
188	Mutations in the Human Na-K-2Cl Cotransporter (NKCC2) Identified in Bartter Syndrome Type I Consistently Result in Nonfunctional Transporters. Journal of the American Society of Nephrology: JASN, 2003, 14, 1419-1426.	3.0	61
189	Dimeric Architecture of the Human Bumetanide-Sensitive Na-K-Cl Co-transporter. Journal of the American Society of Nephrology: JASN, 2003, 14, 3039-3046.	3.0	49
190	The Structural Unit of the Thiazide-sensitive NaCl Cotransporter Is a Homodimer. Journal of Biological Chemistry, 2003, 278, 24302-24307.	1.6	81
191	Functional Expression of the Human Thiazide-Sensitive NaCl Cotransporter in Madin-Darby Canine Kidney Cells. Journal of the American Society of Nephrology: JASN, 2003, 14, 2428-2435.	3.0	26
192	Regulation of the epithelial Ca²⁺channels in small intestine as studied by quantitative mRNA detection. American Journal of Physiology - Renal Physiology, 2003, 285, G78-G85.	1.6	155
193	Renal Ca2+ wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. Journal of Clinical Investigation, 2003, 112, 1906-1914.	3.9	202
194	Renal Ca2+ wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. Journal of Clinical Investigation, 2003, 112, 1906-1914.	3.9	406
195	Functional Expression of Mutations in the Human NaCl Cotransporter: Evidence for Impaired Routing Mechanisms in Gitelmanâ€™s Syndrome. Journal of the American Society of Nephrology: JASN, 2002, 13, 1442-1448.	3.0	135
196	Modulation of renal Ca2+transport protein genes by dietary Ca2+and 1,25â€•dihydroxyvitamin D3in 25hydroxyvitamin D3â€•1Î±â€•hydroxylase knockout mice. FASEB Journal, 2002, 16, 1398-1406.	0.2	228
197	Molecular Mechanism of Active Ca2+Reabsorption in the Distal Nephron. Annual Review of Physiology, 2002, 64, 529-549.	5.6	221
198	Fast and Slow Inactivation Kinetics of the Ca2+Channels ECaC1 and ECaC2 (TRPV5 and TRPV6). Journal of Biological Chemistry, 2002, 277, 30852-30858.	1.6	92

#	Article	IF	Citations
199	Epithelial Ca2+ channel (ECAC1) in autosomal dominant idiopathic hypercalciuria. Nephrology Dialysis Transplantation, 2002, 17, 1614-1620.	0.4	42
200	Expression of the Novel Epithelial Ca2+ Channel ECaC1 in Rat Pancreatic Islets. Journal of Histochemistry and Cytochemistry, 2002, 50, 789-798.	1.3	30
201	1,25-Dihydroxyvitamin D3-Independent Stimulatory Effect of Estrogen on the Expression of ECaC1 in the Kidney. Journal of the American Society of Nephrology: JASN, 2002, 13, 2102-2109.	3.0	132
202	The epithelial sodium channel (ENaC) is intracellularly located as a tetramer. Pflugers Archiv European Journal of Physiology, 2002, 444, 549-555.	1.3	37
203	Functional implications of mutations in the human renal outer medullary potassium channel (ROMK2) identified in Bartter syndrome. Pflugers Archiv European Journal of Physiology, 2002, 443, 466-472.	1.3	24
204	ECaC: the gatekeeper of transepithelial Ca2+ transport. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1600, 6-11.	1.1	58
205	Na/P i cotransporter (Npt2) gene disruption increases duodenal calcium absorption and expression of epithelial calcium channels 1 and 2. Pflugers Archiv European Journal of Physiology, 2002, 444, 670-676.	1.3	22
206	Membrane-Initiated Ca2+ Signals Are Reshaped during Propagation to Subcellular Regions. Biophysical Journal, 2001, 81, 57-65.	0.2	28
207	Hormonal regulation of phospholipase D activity in Ca2+ transporting cells of rabbit connecting tubule and cortical collecting duct. Biochimica Et Biophysica Acta - Molecular Cell Research, 2001, 1538, 329-338.	1.9	1
208	CaT1 and the Calcium Release-activated Calcium Channel Manifest Distinct Pore Properties. Journal of Biological Chemistry, 2001, 276, 47767-47770.	1.6	212
209	Modulation of aldosterone-induced stimulation of ENaC synthesis by changing the rate of apical Na⁺entry. American Journal of Physiology - Renal Physiology, 2001, 281, F687-F692.	1.3	5
210	The epithelial calcium channel, ECaC1: molecular details of a novel player in renal calcium handling. Nephrology Dialysis Transplantation, 2001, 16, 1329-1335.	0.4	21
211	Pharmacological modulation of monovalent cation currents through the epithelial Ca2+ channel ECaC1. British Journal of Pharmacology, 2001, 134, 453-462.	2.7	106
212	Pore properties and ionic block of the rabbit epithelial calcium channel expressed in HEK 293 cells. Journal of Physiology, 2001, 530, 183-191.	1.3	73
213	Distribution of transcellular calcium and sodium transport pathways along mouse distal nephron. American Journal of Physiology - Renal Physiology, 2001, 281, F1021-F1027.	1.3	297
214	The Single Pore Residue Asp542 Determines Ca2+ Permeation and Mg2+ Block of the Epithelial Ca2+ Channel. Journal of Biological Chemistry, 2001, 276, 1020-1025.	1.6	161
215	Calcitriol Controls the Epithelial Calcium Channel in Kidney. Journal of the American Society of Nephrology: JASN, 2001, 12, 1342-1349.	3.0	220
216	Epithelial calcium channel: gate-keeper of active calcium reabsorption. Current Opinion in Nephrology and Hypertension, 2000, 9, 335-340.	1.0	41

#	Article	IF	Citations
217	Dominant isolated renal magnesium loss is caused by misrouting of the Na+,K+-ATPase Î3-subunit. Nature Genetics, 2000, 26, 265-266.	9.4	234
218	Wholeâ€cell and single channel monovalent cation currents through the novel rabbit epithelial Ca 2+ channel ECaC. Journal of Physiology, 2000, 527, 239-248.	1.3	145
219	Expression and immunolocalization of multidrug resistance protein 2 in rabbit small intestine. European Journal of Pharmacology, 2000, 400, 195-198.	1.7	49
220	Toward a comprehensive molecular model of active calcium reabsorption. American Journal of Physiology - Renal Physiology, 2000, 278, F352-F360.	1.3	85
221	Great strides in the understanding of renal magnesium and calcium reabsorption. Nephrology Dialysis Transplantation, 2000, 15, 568-571.	0.4	18
222	Permeation and Gating Properties of the Novel Epithelial Ca2+ Channel. Journal of Biological Chemistry, 2000, 275, 3963-3969.	1.6	288
223	Gene Structure and Chromosomal Mapping of Human Epithelial Calcium Channel. Biochemical and Biophysical Research Communications, 2000, 275, 47-52.	1.0	71
224	Effect of Chronic Metabolic Acidosis on Calbindin Expression along the Rat Distal Tubule. Journal of the American Society of Nephrology: JASN, 2000, 11, 203-210.	3.0	23
225	Localization of the Epithelial Ca2+ Channel in Rabbit Kidney and Intestine. Journal of the American Society of Nephrology: JASN, 2000, 11, 1171-1178.	3.0	196
226	Hormone-stimulated Ca²⁺transport in rabbit kidney: multiple sites of inhibition by exogenous ATP. American Journal of Physiology - Renal Physiology, 1999, 277, F899-F906.	1.3	13
227	Molecular Identification of the Apical Ca2+Channel in 1,25-Dihydroxyvitamin D3-responsive Epithelia. Journal of Biological Chemistry, 1999, 274, 8375-8378.	1.6	534
228	Hormone-stimulated Ca2+ reabsorption in rabbit kidney cortical collecting system is cAMP-independent and involves a phorbol ester-insensitive PKC isotype. Kidney International, 1999, 55, 225-233.	2.6	68
229	Time-dependent regulation by aldosterone of the amiloride-sensitive Na + channel in rabbit kidney. Pflugers Archiv European Journal of Physiology, 1999, 438, 354-360.	1.3	35
230	The Epithelial Calcium Channel, ECaC, Is Activated by Hyperpolarization and Regulated by Cytosolic Calcium. Biochemical and Biophysical Research Communications, 1999, 261, 488-492.	1.0	104
231	Hypoxia decreases calcium influx into rat proximal tubules. Kidney International, 1998, 53, 703-708.	2.6	10
232	Adenosine-stimulated Ca²⁺reabsorption is mediated by apical A₁receptors in rabbit cortical collecting system. American Journal of Physiology - Renal Physiology, 1998, 274, F736-F743.	1.3	19
233	COLD PRESERVATION OF ISOLATED RABBIT PROXIMAL TUBULES INDUCES RADICAL-MEDIATED CELL INJURY1. Transplantation, 1998, 65, 625-632.	0.5	42
234	Apical and basolateral expression of Aquaporin-1 in transfected MDCK and LLC-PK cells and functional evaluation of their transcellular osmotic water permeabilities. Pflugers Archiv European Journal of Physiology, 1997, 433, 780-787.	1.3	45

#	Article	IF	Citations
235	Neuropeptide Y inhibits ion secretion in intestinal epithelium by reducing chloride and potassium conductance. Pflugers Archiv European Journal of Physiology, 1997, 435, 219-226.	1.3	11
236	The Kidney Sodium-Calcium Exchangera. Annals of the New York Academy of Sciences, 1996, 779, 58-72.	1.8	30
237	Vasopressin-stimulated Ca 2+ reabsorption in rabbit cortical collecting system: effects on cAMP and cytosolic Ca 2+. Pflugers Archiv European Journal of Physiology, 1996, 433, 109-115.	1.3	39
238	Stimulation of Plasma Membrane Ca2+ Pump by Calbindin-D28k and Calmodulin is Additive in EGTA-Free Solutions. Journal of Nutrition, 1995, 125, 1981S-1986S.	1.3	20
239	Copper toxicity in cultured human skeletal muscle cells: the involvement of Na+/K+-ATPase and the Na+/Ca2+-exchanger. Pflugers Archiv European Journal of Physiology, 1994, 428, 461-467.	1.3	39
240	Effects of Ca2+ channel blockers, low Ca2+ medium and glycine on cell Ca2+ and injury in anoxic rabbit proximal tubules. Kidney International, 1994, 46, 223-229.	2.6	23
241	Ca2+ oscillations in the rabbit renal cortical collecting system induced by Na+ free solutions. Kidney International, 1993, 43, 828-836.	2.6	12
242	Effect of protein kinase C activation and down-regulation on active calcium transport. Kidney International, 1993, 43, 295-300.	2.6	23
243	Stimulation of sodium transport by aldosterone and arginine vasotocin in A6 cells. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 972, 320-330.	0.5	10
244	Computerized calculation of in vitro generation of ATP and creatine phosphate induced by respiration in human muscle mitochondria. Computers in Biology and Medicine, 1985, 15, 269-277.	3.9	0