Seth L Alper

List of Publications by Year
in descending order

202 papers	9,832 citations	41344 49 h-index	45317 90 g-index
203 all docs	203 docs citations	203 times ranked	10156 citing authors

#	Article	IF	Citations
1	Antigen retrieval in cryostat tissue sections and cultured cells by treatment with sodium dodecyl sulfate (SDS). Histochemistry and Cell Biology, 1996, 105, 261-267.	1.7	310
2	The SLC26 gene family of anion transporters and channels. Molecular Aspects of Medicine, 2013, 34, 494-515.	6.4	297
3	Innate immunity pathways regulate the nephropathy gene Apolipoprotein L1. Kidney International, 2015, 87, 332-342.	5.2	278
4	Autosomal dominant tubulointerstitial kidney disease: diagnosis, classification, and managementâ€”A KDIGO consensus report. Kidney International, 2015, 88, 676-683.	5.2	276
5	Anion Exchanger 1 (Band 3) Is Required to Prevent Erythrocyte Membrane Surface Loss but Not to Form the Membrane Skeleton. Cell, 1996, 86, 917-927.	28.9	267
6	Multiple clinical forms of dehydrated hereditary stomatocytosis arise from mutations in PIEZO1. Blood, 2013, 121, 3925-3935.	1.4	266
7	Inflammation-dependent cerebrospinal fluid hypersecretion by the choroid plexus epithelium in posthemorrhagic hydrocephalus. Nature Medicine, 2017, 23, 997-1003.	30.7	256
8	Mutations causing medullary cystic kidney disease type 1 lie in a large VNTR in MUC1 missed by massively parallel sequencing. Nature Genetics, 2013, 45, 299-303.	21.4	237
9	Glymphatic System Impairment in Alzheimerâ€™s Disease and Idiopathic Normal Pressure Hydrocephalus. Trends in Molecular Medicine, 2020, 26, 285-295.	6.7	206
10	Molecular physiology and genetics of Na+-independent SLC4 anion exchangers. Journal of Experimental Biology, 2009, 212, 1672-1683.	1.7	192
11	Molecular physiology of SLC4 anion exchangers. Experimental Physiology, 2006, 91, 153-161.	2.0	190
12	cDNA Cloning and Functional Characterization of the Mouse Ca2+-gated K+ Channel, mIK1. Journal of Biological Chemistry, 1998, 273, 21542-21553.	3.4	183
13	Genetic Diseases of Acid-Base Transporters. Annual Review of Physiology, 2002, 64, 899-923.	13.1	180
14	Physiological Roles of the Intermediate Conductance, Ca2+-activated Potassium Channel Kcnn4. Journal of Biological Chemistry, 2004, 279, 47681-47687.	3.4	173
15	APOL1 kidney disease risk variants cause cytotoxicity by depleting cellular potassium and inducing stress-activated protein kinases. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 830-837.	7.1	170
16	Autosomal Dominant Distal Renal Tubular Acidosis Is Associated in Three Families with Heterozygosity for the R589H Mutation in the AE1 (Band 3) Clâ^'/HCO3â^'Exchanger. Journal of Biological Chemistry, 1998, 273, 6380-6388.	3.4	167
17	TNF-mediated damage to glomerular endothelium is an important determinant of acute kidney injury in sepsis. Kidney International, 2014, 85, 72-81.	5.2	165
18	Polarized distribution of key membrane transport proteins in the rat submandibular gland. Pflugers Archiv European Journal of Physiology, 1996, 433, 260.	2.8	162

#	Article	IF	Citations
19	Acute regulation of the SLC26A3 congenital chloride diarrhoea anion exchanger (DRA) expressed in Xenopus oocytes. Journal of Physiology, 2003, 549, 3-19.	2.9	150
20	Hypo-FunctionalSLC26A4variants associated with nonsyndromic hearing loss and enlargement of the vestibular aqueduct: Genotype-phenotype correlation or coincidental polymorphisms?. Human Mutation, 2009, 30, 599-608.	2.5	143
21	Functional Comparison of Mouse slc26a6 Anion Exchanger with Human SLC26A6 Polypeptide Variants. Journal of Biological Chemistry, 2005, 280, 8564-8580.	3.4	137
22	Cell-specific mitotic defect and dyserythropoiesis associated with erythroid band 3 deficiency. Nature Genetics, 2003, 34, 59-64.	21.4	132
23	Mice with a Targeted Disruption of the AE2 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Cl</mml:mtext></mml:mrow><mml:mo>â^’</mml:mo></mml:msup> Exchanger Are Achlorhydric. Journal of Biological Chemistry, 2004, 279, 30531-30539.	3.4	129
24	Distal Renal Tubular Acidosis in Mice Lacking the AE1 (Band3) Clâ^'/HCO3 â^' Exchanger (slc4a1). Journal of the American Society of Nephrology: JASN, 2007, 18, 1408-1418.	6.1	127
25	Interactions of transmembrane carbonic anhydrase, CAIX, with bicarbonate transporters. American Journal of Physiology - Cell Physiology, 2007, 293, C738-C748.	4.6	125
26	Polarization of Na+/H+ and Clâ^'/Hco 3â^' Exchangers in Migrating Renal Epithelial Cells. Journal of General Physiology, 2000, 115, 599-608.	1.9	120
27	Regulation of AE1 anion exchanger and H + -ATPase in rat cortex by acute metabolic acidosis and alkalosis. Kidney International, 1997, 51, 125-137.	5.2	119
28	De Novo Mutation in Genes Regulating Neural Stem Cell Fate in Human Congenital Hydrocephalus. Neuron, 2018, 99, 302-314.e4.	8.1	112
29	Agonist-induced Coordinated Trafficking of Functionally Related Transport Proteins for Water and Ions in Cholangiocytes. Journal of Biological Chemistry, 2003, 278, 20413-20419.	3.4	108
30	Inflammation in acquired hydrocephalus: pathogenic mechanisms and therapeutic targets. Nature Reviews Neurology, 2020, 16, 285-296.	10.1	107
31	K-Cl cotransporters, cell volume homeostasis, and neurological disease. Trends in Molecular Medicine, 2015, 21, 513-523.	6.7	102
32	Deletion of the chloride transporter Slc26a9 causes loss of tubulovesicles in parietal cells and impairs acid secretion in the stomach. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17955-17960.	7.1	94
33	A Dominant Negative Mutant of the KCC1 K-Cl Cotransporter. Journal of Biological Chemistry, 2001, 276, 41870-41878.	3.4	93
34	STAS Domain Structure and Function. Cellular Physiology and Biochemistry, 2011, 28, 407-422.	1.6	90
35	Mouse K-Cl cotransporter KCC1: cloning, mapping, pathological expression, and functional regulation. American Journal of Physiology - Cell Physiology, 1999, 277, C899-C912.	4.6	87
36	Exome sequencing implicates genetic disruption of prenatal neuro-gliogenesis in sporadic congenital hydrocephalus. Nature Medicine, 2020, 26, 1754-1765.	30.7	84

#	Article	IF	Citations
37	Identification of a basolateral Cl^{â^'}/HCO 3 â^' exchanger specific to gastric parietal cells. American Journal of Physiology - Renal Physiology, 2003, 284, G1093-G1103.	3.4	81
38	Novel Gardos channel mutations linked to dehydrated hereditary stomatocytosis (xerocytosis). American Journal of Hematology, 2015, 90, 921-926.	4.1	81
39	Disruption of erythroid K-Cl cotransporters alters erythrocyte volume and partially rescues erythrocyte dehydration in SAD mice. Journal of Clinical Investigation, 2007, 117, 1708-1717.	8.2	80
40	Deletion of the Chloride Transporter Slc26a7 Causes Distal Renal Tubular Acidosis and Impairs Gastric Acid Secretion. Journal of Biological Chemistry, 2009, 284, 29470-29479.	3.4	78
41	Inhibition of WNK3 Kinase Signaling Reduces Brain Damage and Accelerates Neurological Recovery After Stroke. Stroke, 2015, 46, 1956-1965.	2.0	78
42	The Cytoplasmic and Transmembrane Domains of AE2 Both Contribute to Regulation of Anion Exchange by pH. Journal of Biological Chemistry, 1996, 271, 5741-5749.	3.4	76
43	Missense mutations in the ABCB6 transporter cause dominant familialpseudohyperkalemia. American Journal of Hematology, 2013, 88, 66-72.	4.1	67
44	Species differences in Cl^{â^'} affinity and in electrogenicity of SLC26A6â€mediated oxalate/Cl^{â^'} exchange correlate with the distinct human and mouse susceptibilities to nephrolithiasis. Journal of Physiology, 2008, 586, 1291-1306.	2.9	64
45	APOL1 Kidney Risk Variants Induce Cell Death via Mitochondrial Translocation and Opening of the Mitochondrial Permeability Transition Pore. Journal of the American Society of Nephrology: JASN, 2019, 30, 2355-2368.	6.1	64
46	Immunolocalization of AE2 anion exchanger in rat kidney. American Journal of Physiology - Renal Physiology, 1997, 273, F601-F614.	2.7	63
47	Distinct and novel SLC26A4/Pendrin mutations in Chinese and U.S. patients with nonsyndromic hearing loss. Physiological Genomics, 2009, 38, 281-290.	2.3	61
48	Mutations in Chromatin Modifier and Ephrin Signaling Genes in Vein of Galen Malformation. Neuron, 2019, 101, 429-443.e4.	8.1	56
49	Developmentally regulated KCC2 phosphorylation is essential for dynamic GABA-mediated inhibition and survival. Science Signaling, 2019, 12, .	3.6	55
50	Intracellular Ca²⁺signaling in endothelial cells by the angiogenesis inhibitors endostatin and angiostatin. American Journal of Physiology - Cell Physiology, 2001, 280, C1140-C1150.	4.6	53
51	UBD modifies APOL1 -induced kidney disease risk. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3446-3451.	7.1	52
52	Regulated transport of sulfate and oxalate by SLC26A2/DTDST. American Journal of Physiology - Cell Physiology, 2010, 298, C1363-C1375.	4.6	51
53	Hypoxia Activates a Ca2+-Permeable Cation Conductance Sensitive to Carbon Monoxide and to GsMTx-4 in Human and Mouse Sickle Erythrocytes. PLoS ONE, 2010, 5, e8732.	2.5	50
54	Immunolocalization of Anion Exchanger AE2, Na⁺/H⁺ Exchangers NHE1 and NHE4, and Vacuolar Type H⁺-ATPase in Rat Pancreas. Journal of Histochemistry and Cytochemistry, 2001, 49, 463-474.	2.5	48

#	Article	IF	Citations
55	Structure-function relationships of AE2 regulation by Ca i 2 + -sensitive stimulators NH 4 + and hypertonicity. American Journal of Physiology - Cell Physiology, 2003, 284, C1235-C1246.	4.6	48
56	Hereditary xerocytosis revisited. American Journal of Hematology, 2014, 89, 1142-1146.	4.1	47
57	A new molecular link between defective autophagy and erythroid abnormalities in chorea-acanthocytosis. Blood, 2016, 128, 2976-2987.	1.4	47
58	SLC26 anion exchangers of guinea pig pancreatic duct: molecular cloning and functional characterization. American Journal of Physiology - Cell Physiology, 2011, 301, C289-C303.	4.6	46
59	Impaired neurogenesis alters brain biomechanics in a neuroprogenitor-based genetic subtype of congenital hydrocephalus. Nature Neuroscience, 2022, 25, 458-473.	14.8	46
60	Differential expression and regulation of AE2 anion exchanger subtypes in rabbit parietal and mucous cells. Journal of Physiology, 2001, 534, 837-848.	2.9	45
61	Deficient HCO3- Transport in an AE1 Mutant with Normal Cl- Transport Can be Rescued by Carbonic Anhydrase II Presented on an Adjacent AE1 Protomer. Journal of Biological Chemistry, 2003, 278, 44949-44958.	3.4	44
62	Hereditary Stomatocytosis Associated with a Loss of Function Mutation In Rh-Associated Glycoprotein (RhAG). Blood, 2010, 116, 2040-2040.	1.4	44
63	Apolipoprotein L1 (APOL1) risk variant toxicity depends on the haplotype background. Kidney International, 2019, 96, 1303-1307.	5.2	43
64	Whole exome sequencing identified ATP6V1C2 as a novel candidate gene for recessive distal renal tubular acidosis. Kidney International, 2020, 97, 567-579.	5.2	42
65	Increased sulfate uptake by E. coli overexpressing the SLC26-related SulP protein Rv1739c from Mycobacterium tuberculosis. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 149, 255-266.	1.8	40
66	The AE gene family of Cl/HCO3- exchangers. Journal of Nephrology, 2002, 15 Suppl 5, S41-53.	2.0	40
67	Immunolocalization of anion exchanger AE2 and Na⁺- HCO 3 â˜ cotransporter in rat parotid and submandibular glands. American Journal of Physiology - Renal Physiology, 1999, 277, G1288-G1296.	3.4	39
68	Acute pH-dependent Regulation of AE2-mediated Anion Exchange Involves Discrete Local Surfaces of the NH2-terminal Cytoplasmic Domain. Journal of Biological Chemistry, 2004, 279, 52664-52676.	3.4	39
69	AE2 Cl^{â˜}/HCO₃^{â˜}exchanger is required for normal cAMP-stimulated anion secretion in murine proximal colon. American Journal of Physiology - Renal Physiology, 2010, 298, G493-G503.	3.4	39
70	SLC4A2-mediated Cl ^{â˜} /HCO ₃ ^{â˜} exchange activity is essential for calpain-dependent regulation of the actin cytoskeleton in osteoclasts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2163-2168.	7.1	39
71	Addition of Alanyl-Glutamine to Dialysis Fluid Restores Peritoneal Cellular Stress Responses â€“ A First-In-Man Trial. PLoS ONE, 2016, 11, e0165045.	2.5	39
72	Solution Structure of the Guanine Nucleotide-binding STAS Domain of SLC26-related SulP Protein Rv1739c from Mycobacterium tuberculosis. Journal of Biological Chemistry, 2011, 286, 8534-8544.	3.4	38

#	Article	IF	Citations
73	Functional kinomics establishes a critical node of volume-sensitive cation-Clâ^' cotransporter regulation in the mammalian brain. Scientific Reports, 2016, 6, 35986.	3.3	38
74	Noninvasive Immunohistochemical Diagnosis and Novel MUC1 Mutations Causing Autosomal Dominant Tubulointerstitial Kidney Disease. Journal of the American Society of Nephrology: JASN, 2018, 29, 2418-2431.	6.1	38
75	Zebrafish slc4a2/ae2 anion exchanger: cDNA cloning, mapping, functional characterization, and localization. American Journal of Physiology - Renal Physiology, 2005, 289, F835-F849.	2.7	37
76	Role of JNK in hypertonic activation of Clâ^'-dependent Na+/H+ exchange in Xenopus oocytes. American Journal of Physiology - Cell Physiology, 2001, 281, C1978-C1990.	4.6	36
77	Intercalated Cell Depletion and Vacuolar H+-ATPase Mistargeting in an Ae1 R607H Knockin Model. Journal of the American Society of Nephrology: JASN, 2017, 28, 1507-1520.	6.1	36
78	Alkaline-shifted pH Sensitivity of AE2c1-mediated Anion Exchange Reveals Novel Regulatory Determinants in the AE2 N-terminal Cytoplasmic Domain. Journal of Biological Chemistry, 2006, 281, 1885-1896.	3.4	35
79	Native and recombinant Slc26a3 (downregulated in adenoma, Dra) do not exhibit properties of 2Cl^{â^'}/1HCO₃^{â^'} exchange. American Journal of Physiology - Cell Physiology, 2011, 300, C276-C286.	4.6	35
80	Functional characterization and modified rescue of novel AE1 mutation R730C associated with overhydrated cation leak stomatocytosis. American Journal of Physiology - Cell Physiology, 2011, 300, C1034-C1046.	4.6	34
81	Transmembrane insertases and N-glycosylation critically determine synthesis, trafficking, and activity of the nonselective cation channel TRPC6. Journal of Biological Chemistry, 2019, 294, 12655-12669.	3.4	34
82	Familial renal tubular acidosis. Journal of Nephrology, 2010, 23 Suppl 16, S57-76.	2.0	34
83	DIAPH1 Variants in Nonâ€"East Asian Patients With Sporadic Moyamoya Disease. JAMA Neurology, 2021, 78, 993.	9.0	33
84	The abts and sulp families of anion transporters from Caenorhabditis elegans. American Journal of Physiology - Cell Physiology, 2005, 289, C341-C351.	4.6	32
85	Putative Re-entrant Loop 1 of AE2 Transmembrane Domain Has a Major Role in Acute Regulation of Anion Exchange by pH. Journal of Biological Chemistry, 2009, 284, 6126-6139.	3.4	32
86	Gastrin inhibits a novel, pathological colon cancer signaling pathway involving EGR1, AE2, and P-ERK. Journal of Molecular Medicine, 2012, 90, 707-718.	3.9	32
87	Effects of Alanyl-Glutamine Treatment on the Peritoneal Dialysis Effluent Proteome Reveal Pathomechanism-Associated Molecular Signatures. Molecular and Cellular Proteomics, 2018, 17, 516-532.	3.8	32
88	Exome Sequencing Implicates Impaired GABA Signaling and Neuronal Ion Transport in Trigeminal Neuralgia. IScience, 2020, 23, 101552.	4.1	32
89	Deletion of the WNK3-SPAK kinase complex in mice improves radiographic and clinical outcomes in malignant cerebral edema after ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 550-563.	4.3	31
90	The GPA-dependent, spherostomatocytosis mutant AE1 E758K induces GPA-independent, endogenous cation transport in amphibian oocytes. American Journal of Physiology - Cell Physiology, 2010, 298, C283-C297.	4.6	30

#	Article	IF	Citations
91	Functional characterization of novel ABCB6 mutations and their clinical implications in familial pseudohyperkalemia. Haematologica, 2016, 101, 909-917.	3.5	30
92	Defects in processing and trafficking of the AE1 Cl - /HCO3 - exchanger associated with inherited distal renal tubular acidosis. Clinical and Experimental Nephrology, 2004, 8, 1-11.	1.6	29
93	Loss of Cystic Fibrosis Transmembrane Regulator Impairs Intestinal Oxalate Secretion. Journal of the American Society of Nephrology: JASN, 2017, 28, 242-249.	6.1	29
94	Pendrin Function and Regulation in <i>Xenopus</i> Oocytes. Cellular Physiology and Biochemistry, 2011, 28, 435-450.	1.6	28
95	Dehydrated stomatocytic anemia due to the heterozygous mutation R2456H in the mechanosensitive cation channel PIEZO1: a case report. Blood Cells, Molecules, and Diseases, 2014, 52, 53-54.	1.4	28
96	Effect of chronic elevated carbon dioxide on the expression of acid-base transporters in the neonatal and adult mouse. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1294-R1302.	1.8	27
97	Hemolytic anemia and distal renal tubular acidosis in two Indian patients homozygous for SLC4A1/AE1 mutation A858D. American Journal of Hematology, 2010, 85, 824-828.	4.1	27
98	Structural characterization of the Câ€terminal coiledâ€coil domains of wildâ€type and kidney diseaseâ€associated mutants of apolipoprotein L1. FEBS Journal, 2016, 283, 1846-1862.	4.7	27
99	Loss of the AE3 anion exchanger in a hypertrophic cardiomyopathy model causes rapid decompensation and heart failure. Journal of Molecular and Cellular Cardiology, 2011, 50, 137-146.	1.9	26
100	Basolateral chloride loading by the anion exchanger type 2: role in fluid secretion by the human airway epithelial cell line Caluâ€3. Journal of Physiology, 2012, 590, 5299-5316.	2.9	26
101	Disruption of Cav1.2-mediated signaling is a pathway for ketamine-induced pathology. Nature Communications, 2020, 11, 4328.	12.8	26
102	Functional and molecular characterization of luminal and basolateral Cl^{â^'}/ HCO 3 â^' exchangers of rat thick limbs. American Journal of Physiology - Renal Physiology, 1998, 275, F334-F342.	2.7	25
103	Enhanced Formation of a HCOâ^'3 Transport Metabolon in Exocrine Cells of Nhe1â€"/â€" Mice. Journal of Biological Chemistry, 2007, 282, 35125-35132.	3.4	25
104	Anion Exchanger 1 Interacts with Nephrin in Podocytes. Journal of the American Society of Nephrology: JASN, 2010, 21, 1456-1467.	6.1	25
105	A null variant in the apolipoprotein L3 gene is associated with non-diabetic nephropathy. Nephrology Dialysis Transplantation, 2018, 33, 323-330.	0.7	25
106	AE anion exchanger mRNA and protein expression in vascular smooth muscle cells, aorta, and renal microvessels. American Journal of Physiology - Renal Physiology, 1997, 273, F1039-F1047.	2.7	24
107	Enhanced suicidal death of erythrocytes from gene-targeted mice lacking the Clâ^'/HCO3â^'exchanger AE1. American Journal of Physiology - Cell Physiology, 2007, 292, C1759-C1767.	4.6	24
108	Loss-of-function and gain-of-function phenotypes of stomatocytosis mutant RhAG F65S. American Journal of Physiology - Cell Physiology, 2011, 301, C1325-C1343.	4.6	24

#	Article	IF	Citations
109	Functional and Transcriptomic Characterization of Peritoneal Immune-Modulation by Addition of Alanyl-Glutamine to Dialysis Fluid. Scientific Reports, 2017, 7, 6229.	3.3	24
110	Characterization of a highly polymorphic marker adjacent to the SLC4A1 gene and of kidney immunostaining in a family with distal renal tubular acidosis. Nephrology Dialysis Transplantation, 2004, 19, 371-379.	0.7	23
111	Homozygous knockout of the piezo1 gene in the zebrafish is not associated with anemia. Haematologica, 2015, 100, e483-e485.	3.5	23
112	WNK-Cab39-NKCC1 signaling increases the susceptibility to ischemic brain damage in hypertensive rats. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2780-2794.	4.3	23
113	Brain ventricles as windows into brain development and disease. Neuron, 2022, 110, 12-15.	8.1	23
114	How pH Regulates a pH Regulator. Cell Biochemistry and Biophysics, 2002, 36, 123-136.	1.8	21
115	Loss of Slc4a1b Chloride/Bicarbonate Exchanger Function Protects Mechanosensory Hair Cells from Aminoglycoside Damage in the Zebrafish Mutant persephone. PLoS Genetics, 2012, 8, e1002971.	3.5	21
116	Erythrocytes from hereditary xerocytosis patients heterozygous for KCNN4 V282M exhibit increased spontaneous Gardos channelâ€like activity inhibited by senicapoc. American Journal of Hematology, 2017, 92, E108-E110.	4.1	21
117	HCO3â^'/Clâ^' Exchange Inactivation and Reactivation during Mouse Oocyte Meiosis Correlates with MEK/MAPK-Regulated Ae2 Plasma Membrane Localization. PLoS ONE, 2009, 4, e7417.	2.5	20
118	The pendrin anion exchanger gene is transcriptionally regulated by uroguanylin: a novel enterorenal link. American Journal of Physiology - Renal Physiology, 2012, 302, F614-F624.	2.7	20
119	Lithium preserves peritoneal membrane integrity by suppressing mesothelial cell Î±B-crystallin. Science Translational Medicine, 2021, 13, .	12.4	20
120	Targeted Metabolomic Profiling of Peritoneal Dialysis Effluents Shows Anti-oxidative Capacity of Alanyl-Glutamine. Frontiers in Physiology, 2018, 9, 1961.	2.8	19
121	PTEN mutations in autism spectrum disorder and congenital hydrocephalus: developmental pleiotropy and therapeutic targets. Trends in Neurosciences, 2021, 44, 961-976.	8.6	19
122	AE anion exchangers in atrial tumor cells. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H937-H945.	3.2	18
123	K-CL co-transport plays an important role in normal and Â thalassemic erythropoiesis. Haematologica, 2007, 92, 1319-1326.	3.5	18
124	Three 5â€²â€Variant mRNAs of Anion Exchanger AE2 in Stomach and Intestine of Mouse, Rabbit, and Rat. Annals of the New York Academy of Sciences, 2000, 915, 81-91.	3.8	17
125	Peritoneal Dialysis Fluid Supplementation with Alanyl-Glutamine Attenuates Conventional Dialysis Fluid-Mediated Endothelial Cell Injury by Restoring Perturbed Cytoprotective Responses. Biomolecules, 2020, 10, 1678.	4.0	17
126	Transcriptional Patterns in Peritoneal Tissue of Encapsulating Peritoneal Sclerosis, a Complication of Chronic Peritoneal Dialysis. PLoS ONE, 2013, 8, e56389.	2.5	17

#	Article	IF	Citations
127	Copy Number Variation at the APOL1 Locus. PLoS ONE, 2015, 10, e0125410.	2.5	17
128	Regulation of Kâ€“Cl cotransport by protein phosphatase 1Î± in mouse erythrocytes. Pflugers Archiv European Journal of Physiology, 2006, 451, 760-768.	2.8	16
129	Let's look at cysts from both sides now. Kidney International, 2008, 74, 699-702.	5.2	14
130	Study of Cathepsin B inhibition in VEGFR TKI treated human renal cell carcinoma xenografts. Oncogenesis, 2019, 8, 15.	4.9	14
131	Genome-wide association study of erythrocyte density in sickle cell disease patients. Blood Cells, Molecules, and Diseases, 2017, 65, 60-65.	1.4	13
132	Revised prevalence estimate of possible Hereditary Xerocytosis as derived from a large U.S. Laboratory database. American Journal of Hematology, 2018, 93, E9-E12.	4.1	13
133	Extracellular Clâ¯ regulates human SO4 2â¯/anion exchanger SLC26A1 by altering pH sensitivity of anion transport. Pflugers Archiv European Journal of Physiology, 2016, 468, 1311-1332.	2.8	12
134	Genomics of human congenital hydrocephalus. Child's Nervous System, 2021, 37, 3325-3340.	1.1	12
135	Mouse Ae1 E699Q mediates SO42â¯i/aniono exchange with [SO42â¯]i-dependent reversal of wild-type pHo sensitivity. American Journal of Physiology - Cell Physiology, 2008, 295, C302-C312.	4.6	11
136	Anion Exchangers in Flux: Functional Differences between Human and Mouse SLC26A6 Polypeptides. Novartis Foundation Symposium, 2008, , 107-125.	1.1	11
137	Cesium-associated hypokalemia successfully treated with amiloride. CKJ: Clinical Kidney Journal, 2015, 8, 335-338.	2.9	11
138	Combined genetic disruption of K-Cl cotransporters and Gardos channel KCNN4 rescues erythrocyte dehydration in the SAD mouse model of sickle cell disease. Blood Cells, Molecules, and Diseases, 2019, 79, 102346.	1.4	11
139	Erythrocyte ion content and dehydration modulate maximal Gardos channel activity in KCNN4 V282M/+ hereditary xerocytosis red cells. American Journal of Physiology - Cell Physiology, 2019, 317, C287-C302.	4.6	11
140	Reduced DIDS-sensitive chloride conductance in Ae1â¯/â¯ mouse erythrocytes. Blood Cells, Molecules, and Diseases, 2008, 41, 22-34.	1.4	10
141	Zebrafish ae2.2 encodes a second slc4a2 anion exchanger. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1081-R1091.	1.8	10
142	Atypical patterns of segregation of familial enlargement of the vestibular aqueduct. Laryngoscope, 2016, 126, E240-E247.	2.0	10
143	Increased Red Cell KCNN4 Activity in Sporadic Hereditary Xerocytosis Associated With Enhanced Single Channel Pressure Sensitivity of PIEZO1ÂMutant V598M. HemaSphere, 2018, 2, e55.	2.7	10
144	Inflammatory hydrocephalus. Child's Nervous System, 2021, 37, 3341-3353.	1.1	10

#	Article	IF	Citations
145	The Peritoneal Surface Proteome in a Model of Chronic Peritoneal Dialysis Reveals Mechanisms of Membrane Damage and Preservation. Frontiers in Physiology, 2019, 10, 472.	2.8	9
146	SLC26A4mutation testing for hearing loss associated with enlargement of the vestibular aqueduct. World Journal of Otorhinolaryngology, 2013, 3, 26.	0.1	9
147	Substitution of transmembrane domain Cys residues alters pHo-sensitive anion transport by AE2/SLC4A2 anion exchanger. Pflugers Archiv European Journal of Physiology, 2013, 465, 839-851.	2.8	8
148	Strain-specific variations in cation content and transport in mouse erythrocytes. Physiological Genomics, 2013, 45, 343-350.	2.3	8
149	Molecular cloning and functional characterization of zebrafish Slc4a3/Ae3 anion exchanger. Pflugers Archiv European Journal of Physiology, 2014, 466, 1605-1618.	2.8	8
150	The Clinically Tested Gardos Channel Inhibitor Senicapoc Exhibits Antimalarial Activity. Antimicrobial Agents and Chemotherapy, 2016, 60, 613-616.	3.2	8
151	Loss of kAE1 expression in collecting ducts of end-stage kidneys from a family with SLC4A1 G609R-associated distal renal tubular acidosis. CKJ: Clinical Kidney Journal, 2017, 10, sfw074.	2.9	8
152	Authors response to "Comment on: 'Homozygous knockout of the piezo1 gene in the zebrafish is not associated with anemia". Haematologica, 2016, 101, e39-e39.	3.5	8
153	Countermeasures against COVID-19: how to navigate medical practice through a nascent, evolving evidence base â€" a European multicentre mixed methods study. BMJ Open, 2021, 11, e043015.	1.9	8
154	Response to: The c.â^'103T>C variant in the 5â€²-UTR ofSLC26A4gene: a pathogenic mutation or coincidental polymorphism?. Human Mutation, 2009, 30, 1471-1471.	2.5	7
155	Molecular Dynamics Simulations of the STAS Domains of Rat Prestin and Human Pendrin Reveal Conformational Motions in Conserved Flexible Regions. Cellular Physiology and Biochemistry, 2014, 33, 605-620.	1.6	7
156	Diseases of mutations in the SLC4A1/AE1 (band 3) Clâ^'/HCO 3 â^' exchanger. , 2003, , 39-63.		7
157	Na⁺/H⁺ exchange is inactivated during mouse oocyte meiosis, facilitating glycine accumulation that maintains embryo cell volume. Journal of Cellular Physiology, 2013, 228, 2042-2053.	4.1	6
158	4-Aminopyridine, A Blocker of Voltage-Dependent K+ Channels, Restores Blood Pressure and Improves Survival in the Wistar Rat Model of Anaphylactic Shock. Critical Care Medicine, 2016, 44, e1082-e1089.	0.9	6
159	Regulators of Erythrocyte Volume as Modifiers in Sickle Cell Disease: The Gardos Channel.. Blood, 2007, 110, 3387-3387.	1.4	6
160	Anion exchangers in flux: functional differences between human and mouse SLC26A6 polypeptides. Novartis Foundation Symposium, 2006, 273, 107-19; discussion 119-25, 261-4.	1.1	6
161	NMR assignment and secondary structure of the STAS domain of Rv1739c, a putative sulfate transporter of Mycobacterium tuberculosis. Biomolecular NMR Assignments, 2009, 3, 99-102.	0.8	5
162	Interactions of mouse glycophorin A with the dRTA-related mutant G719D of the mouse Cl^{â€"}/HCO₃^{â€"}exchanger Ae1This paper is one of a selection of papers published in a Special Issue entitled CSBMCB 53rd Annual Meeting â€" Membrane Proteins in Health and Disease, and has undergone the Journalâ€™s usual peer review process.. Biochemistry and Cell Biology, 2011, 89, 224-235.	2.0	5

#	Article	IF	Citations
163	Guanine nucleotides differentially modulate backbone dynamics of the STAS domain of the SulP/SLC26 transport protein Rv1739c of Mycobacteriumâ€ƒtuberculosis. FEBS Journal, 2012, 279, 420-436.	4.7	5
164	N-ethylmaleimide activates a Clâ^'-independent component of K+ flux in mouse erythrocytes. Blood Cells, Molecules, and Diseases, 2013, 51, 9-16.	1.4	5
165	Genetic disruption of KCC cotransporters in a mouse model of thalassemia intermedia. Blood Cells, Molecules, and Diseases, 2020, 81, 102389.	1.4	5
166	New drugs on the horizon for cerebral edema: whatâ€™s in the clinical development pipeline?. Expert Opinion on Investigational Drugs, 2020, 29, 1099-1105.	4.1	5
167	A <i>Grammastola spatulata</i> mechanotoxin-4 (GsMTx4)-sensitive cation channel mediates increased cation permeability in human hereditary spherocytosis of multiple genetic etiologies. Haematologica, 2021, 106, 2759-2762.	3.5	5
168	Haplotype-resolved germline and somatic alterations in renal medullary carcinomas. Genome Medicine, 2021, 13, 114.	8.2	5
169	Nobel prize in physiology or medicine 2021, receptors for temperature and touch: Implications for hematology. American Journal of Hematology, 2022, 97, 168-170.	4.1	5
170	Adaptative Up-Regulation of PRX2 and PRX5 Expression Characterizes Brain from a Mouse Model of Chorea-Acanthocytosis. Antioxidants, 2022, 11, 76.	5.1	5
171	Autosomal dominant overhydrated stomatocytosis associated with the heterozygous Rh<scp>AG</scp> mutation F65S: a case of missed heterozygosity due to allelic dropout. British Journal of Haematology, 2013, 161, 602-604.	2.5	4
172	Congenital chloride-losing diarrhea in a Mexican child with the novel homozygous SLC26A3 mutation G393W. Frontiers in Physiology, 2015, 6, 179.	2.8	3
173	NMR insight into myosin-binding subunit coiled-coil structure reveals binding interface with protein kinase G-Iâ± leucine zipper in vascular function. Journal of Biological Chemistry, 2017, 292, 7052-7065.	3.4	3
174	The SLC4 Anion Exchanger Gene Family. , 2008, , 1499-1537.		2
175	Mouse strainâ€specific coding polymorphism in the Slc4a2/Ae2 gene encodes Ae2c2 variants differing in isoformâ€specific dominant negative activity. Experimental Physiology, 2008, 93, 458-467.	2.0	2
176	Harnessing red cell membrane pathophysiology towards pointâ€ofâ€care diagnosis for sickle cell disease. Journal of Physiology, 2013, 591, 1403-1404.	2.9	2
177	Human SLC26A4/Pendrin STAS domain is a nucleotide-binding protein: Refolding and characterization for structural studies. Biochemistry and Biophysics Reports, 2016, 8, 184-191.	1.3	2
178	Cellular and Immunohistochemical Changes in Anaphylactic Shock Induced in the Ovalbumin-Sensitized Wistar Rat Model. Biomolecules, 2019, 9, 101.	4.0	2
179	The Pendrin Polypeptide. , 2017, , 187-220.		2
180	The expression of acidâ€base transporters in the neonatal and adult mouse exposed to chronic hypercapnia. FASEB Journal, 2007, 21, A1283.	0.5	2

#	Article	IF	Citations
181	Erythroidâ€specific inactivation of Slc12a6/Kcc3 by EpoR promoterâ€driven Cre expression reduces Kâ€Cl cotransport activity in mouse erythrocytes. Physiological Reports, 2022, 10, e15186.	1.7	2
182	Monitoring Daily Ultrafiltration in Automated Peritoneal Dialysis. Clinical Journal of the American Society of Nephrology: CJASN, 2022, 17, 107-110.	4.5	2
183	Hereditary anemia caused by multilocus inheritance of <i>PIEZO1</i>, <i>SLC4A1</i> and <i>ABCB6</i> mutations: a diagnostic and therapeutic challenge. Haematologica, 2022, 107, 2280-2284.	3.5	2
184	The erythroid K-Cl cotransport inhibitor [(dihydroindenyl)oxy]acetic acid blocks erythroid Ca²⁺-activated K⁺ channel KCNN4. American Journal of Physiology - Cell Physiology, 2022, 323, C694-C705.	4.6	2
185	Short Sequence Repeat Polymorphism in the Mouse slc4al Gene Encoding the AE1 Cl-/HCO3-Exchanger. DNA Sequence, 2000, 11, 447-450.	0.7	1
186	Cation-leak stomatocytosis in Standard Schnauzers does not cosegregate with coding mutations in the RhAG, SLC4A1, or GLUT1 genes associated with human disease. Blood Cells, Molecules, and Diseases, 2012, 48, 219-225.	1.4	1
187	The SLC4 Anion Exchanger Gene Family. , 2013, , 1861-1915.		1
188	Modulation of tubular solute reuptake in UMOD knockout mice. American Journal of Physiology - Renal Physiology, 2018, 315, F238-F240.	2.7	1
189	Molecular characterization of Slc26a3 and Slc26a6 anion transporters in guinea pig pancreatic duct. Journal of Medical Investigation, 2009, 56, 329-331.	0.5	1
190	Trpv1 and Trpa1 are not essential for Psickle-like activity in red cells of the SAD mouse model of sickle cell disease. Blood Cells, Molecules, and Diseases, 2021, 92, 102619.	1.4	1
191	Purinergic signaling is essential for full Psickle activation by hypoxia and by normoxic acid pH in mature human sickle red cells and in vitro-differentiated cultured human sickle reticulocytes. Pflugers Archiv European Journal of Physiology, 2022, 474, 553-565.	2.8	1
192	Erratum. Cytotechnology, 1996, 18, 235-248.	1.6	0
193	FC 105LITHIUM PRESERVES PERITONEAL MEMBRANE INTEGRITY BY REDUCING MESOTHELIAL CELL Î²B-CRYSTALLIN. Nephrology Dialysis Transplantation, 2021, 36, .	0.7	0
194	Nonconserved charged residues of the AE2 transmembrane domain alter regulation of anion exchange by pH. FASEB Journal, 2007, 21, A1281.	0.5	0
195	Missense Mutations in the ABCB6 Transporter Cause Dominant Familial Pseudohyperkalemia. Blood, 2012, 120, 3184-3184.	1.4	0
196	Senicapoc, a Gardos Channel Inhibitor Developed to Treat Sickle Cell Disease, Exhibits Antimalarial Activity. Blood, 2014, 124, 743-743.	1.4	0
197	WNK3â€SPAK/OSR1â€NKCC1 Signaling Pathway in Ischemic Brain Injury. FASEB Journal, 2015, 29, 844.1.	0.5	0
198	IK Channel (SK4) Knockout Mice Have Normal Bladder Function. FASEB Journal, 2015, 29, 845.11.	0.5	0

#	Article	IF	Citations
199	Transcriptional Regulation and Epigenetics of Pendrin. , 2017, , 157-185.		0
200	Abstract WP269: New Insights Into Worsened Cerebral Ischemia in Hypertensive Rats: Roles of WNK-SPAK/OSR1-NKCC1 Signaling. Stroke, 2016, 47, .	2.0	0
201	Effect of Nitric Oxide Pathway Inhibition on the Evolution of Anaphylactic Shock in Animal Models: A Systematic Review. Biology, 2022, 11, 919.	2.8	0
202	Activation of 2â€oxoglutarate receptor 1 (<scp>OXGR1</scp>) by Î±â€ketoglutarate (<scp>Î±KG</scp>) does not detectably stimulate Pendrinâ€mediated anion exchange in Xenopus oocytes. Physiological Reports, 2022, 10, .	1.7	0