Matthias A Hediger

List of Publications by Year in Descending Order

192 papers	27,431 citations	76 h-index	165 g-index
207 ext. papers	29,604 ext. citations	9.1 avg, IF	6.57 L-index

#	Paper	IF	Citations
192	The N terminus of Orai1 couples to the AKAP79 signaling complex to drive NFAT1 activation by local Ca entry. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	12
191	Oncogenic KRAS mutations enhance amino acid uptake by colorectal cancer cells via the hippo signaling effector YAP1. *Molecular Oncology*, **2021**, 15, 2782-2800	7.9	4
190	The sodium/proton exchanger NHA2 regulates blood pressure through a WNK4-NCC dependent pathway in the kidney. *Kidney International*, **2021**, 99, 350-363	9.9	1
189	Electrophysiological characterization of a diverse group of sugar transporters from Trichoderma reesei. *Scientific Reports*, **2021**, 11, 14678	4.9	1
188	Inhibitors of Human Divalent Metal Transporters DMT1 (SLC11A2) and ZIP8 (SLC39A8) from a GDB-17 Fragment Library. *ChemMedChem*, **2021**, 16, 3306-3314	3.7	4
187	Functional characterization of a highly specific L-arabinose transporter from Trichoderma reesei. *Microbial Cell Factories*, **2021**, 20, 177	6.4	1
186	Pyrazolyl-pyrimidones inhibit the function of human solute carrier protein SLC11A2 (hDMT1) by metal chelation. *RSC Medicinal Chemistry*, **2020**, 11, 1023-1031	3.5	2
185	Ca/Calmodulin Binding to STIM1 Hydrophobic Residues Facilitates Slow Ca-Dependent Inactivation of the Orai1 Channel. *Cellular Physiology and Biochemistry*, **2020**, 54, 252-270	3.9	6
184	Natural product inspired optimization of a selective TRPV6 calcium channel inhibitor. *RSC Medicinal Chemistry*, **2020**, 11, 1032-1040	3.5	6
183	Inactivation-mimicking block of the epithelial calcium channel TRPV6. *Science Advances*, **2020**, 6,	14.3	6
182	Sequence Features of Mitochondrial Transporter Protein Families. *Biomolecules*, **2020**, 10,	5.9	5
181	Synthesis and Pharmacological Characterization of 2-Aminoethyl Diphenylborinate (2-APB) Derivatives for Inhibition of Store-Operated Calcium Entry (SOCE) in MDA-MB-231 Breast Cancer Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8
180	Sodium-coupled glucose transport, the SLC5 family, and therapeutically relevant inhibitors: from molecular discovery to clinical application. *Pflugers Archiv European Journal of Physiology*, **2020**, 472, 1177-1206	4.6	13
179	Capsaicin-like analogue induced selective apoptosis in A2058 melanoma cells: Design, synthesis and molecular modeling. *Bioorganic and Medicinal Chemistry*, **2019**, 27, 2893-2904	3.4	8
178	A novel STIM1-Orai1 gating interface essential for CRAC channel activation. *Cell Calcium*, **2019**, 79, 57-674		25
177	Unraveling the structural elements of pH sensitivity and substrate binding in the human zinc transporter SLC39A2 (ZIP2). *Journal of Biological Chemistry*, **2019**, 294, 8046-8063	5.4	10
176	Recurrent SLC1A2 variants cause epilepsy via a dominant negative mechanism. *Annals of Neurology*, **2019**, 85, 921-926	9.4	11

175	Photoswitchable Inhibitor of the Calcium Channel TRPV6. *ACS Medicinal Chemistry Letters*, **2019**, 10, 1341-1345	4.5	5
174	Different Pharmacological Properties of GLUT9a and GLUT9b: Potential Implications in Preeclampsia. *Cellular Physiology and Biochemistry*, **2019**, 53, 508-517	3.9	2
173	Mechanistic basis of the inhibition of SLC11/NRAMP-mediated metal ion transport by bis-isothiourea substituted compounds. *ELife*, **2019**, 8,	8.9	7
172	ORAI1 channel gating and selectivity is differentially altered by natural mutations in the first or third transmembrane domain. *Journal of Physiology*, **2019**, 597, 561-582	3.9	25
171	Establishment of a novel microscale thermophoresis ligand-binding assay for characterization of SLC solute carriers using oligopeptide transporter PepT1 (SLC15 family) as a model system. *Journal of Pharmacological and Toxicological Methods*, **2018**, 92, 67-76	1.7	4
170	Amino acid transporters revisited: New views in health and disease. *Trends in Biochemical Sciences*, **2018**, 43, 752-789	10.3	161
169	Reassessment of the Transport Mechanism of the Human Zinc Transporter SLC39A2. *Biochemistry*, **2018**, 57, 3976-3986	3.2	15
168	Placental glucose transporter (GLUT)-1 is down-regulated in preeclampsia. *Placenta*, **2017**, 55, 94-99	3.4	31
167	Cortical cytoskeleton dynamics regulates plasma membrane calcium ATPase isoform-2 (PMCA2) activity. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2017**, 1864, 1413-1424	4.9	5
166	A novel proton transfer mechanism in the SLC11 family of divalent metal ion transporters. *Scientific Reports*, **2017**, 7, 6194	4.9	20
165	TRPV5 and TRPV6 Calcium-Selective Channels **2017**, 241-274		17
164	Conservation of the oligomeric state of native VDAC1 in detergent micelles. *Biochimie*, **2016**, 127, 163-72	4.6	3
163	Mutation in the Monocarboxylate Transporter 12 Gene Affects Guanidinoacetate Excretion but Does Not Cause Glucosuria. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 1426-36	12.7	16
162	Concise Asymmetric Synthesis and Pharmacological Characterization of All Stereoisomers of Glutamate Transporter Inhibitor TFB-TBOA and Synthesis of EAAT Photoaffinity Probes. *ACS Chemical Neuroscience*, **2016**, 7, 534-9	5.7	11
161	Redox modulation of STIM-ORAI signaling. *Cell Calcium*, **2016**, 60, 142-52	4	31
160	A Call for Systematic Research on Solute Carriers. *Cell*, **2015**, 162, 478-87	56.2	312
159	Discovery and characterization of a novel non-competitive inhibitor of the divalent metal transporter DMT1/SLC11A2. *Biochemical Pharmacology*, **2015**, 96, 216-24	6	20
158	Rapid method to express and purify human membrane protein using the Xenopus oocyte system for functional and low-resolution structural analysis. *Methods in Enzymology*, **2015**, 556, 241-65	1.7	7

157	Mutations in SLC1A4, encoding the brain serine transporter, are associated with developmental delay, microcephaly and hypomyelination. *Journal of Medical Genetics*, **2015**, 52, 541-7	5.8	43
156	The Hydroxyl Side Chain of a Highly Conserved Serine Residue Is Required for Cation Selectivity and Substrate Transport in the Glial Glutamate Transporter GLT-1/SLC1A2. *Journal of Biological Chemistry*, **2015**, 290, 30464-74	5.4	5
155	Optimization of TRPV6 Calcium Channel Inhibitors Using a 3D Ligand-Based Virtual Screening Method. *Angewandte Chemie*, **2015**, 127, 14961-14965	3.6	1
154	Optimization of TRPV6 Calcium Channel Inhibitors Using a 3D Ligand-Based Virtual Screening Method. *Angewandte Chemie - International Edition*, **2015**, 54, 14748-52	16.4	29
153	Nutrient transport in the mammary gland: calcium, trace minerals and water soluble vitamins. *Journal of Mammary Gland Biology and Neoplasia*, **2014**, 19, 73-90	2.4	30
152	Development and Validation of a Fast and Homogeneous Cell-Based Fluorescence Screening Assay for Divalent Metal Transporter 1 (DMT1/SLC11A2) Using the FLIPR Tetra. *Journal of Biomolecular Screening*, **2014**, 19, 900-8		10
151	Hypoxic treatment of human dual placental perfusion induces a preeclampsia-like inflammatory response. *Laboratory Investigation*, **2014**, 94, 873-80	5.9	20
150	Development of the First Fluorescence Screening Assay for the SLC39A2 Zinc Transporter. *Journal of Biomolecular Screening*, **2014**, 19, 909-16		9
149	Expression, purification, and projection structure by single particle electron microscopy of functional human TRPM4 heterologously expressed in Xenopus laevis oocytes. *Protein Expression and Purification*, **2014**, 95, 169-76	2	7
148	Expression, purification, and structural insights for the human uric acid transporter, GLUT9, using the Xenopus laevis oocytes system. *PLoS ONE*, **2014**, 9, e108852	3.7	24
147	Proton-coupled oligopeptide transporter family SLC15: physiological, pharmacological and pathological implications. *Molecular Aspects of Medicine*, **2013**, 34, 323-36	16.7	193
146	Design, synthesis and pharmacological characterization of analogs of 2-aminoethyl diphenylborinate (2-APB), a known store-operated calcium channel blocker, for inhibition of TRPV6-mediated calcium transport. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 3202-13	3.4	42
145	Human TRPV5 and TRPV6: key players in cadmium and zinc toxicity. *Cell Calcium*, **2013**, 54, 276-86	4	31
144	Mammalian iron transporters: families SLC11 and SLC40. *Molecular Aspects of Medicine*, **2013**, 34, 270-87	16.7	72
143	The urea transporter family (SLC14): physiological, pathological and structural aspects. *Molecular Aspects of Medicine*, **2013**, 34, 313-22	16.7	43
142	The SLC1 high-affinity glutamate and neutral amino acid transporter family. *Molecular Aspects of Medicine*, **2013**, 34, 108-20	16.7	186
141	Solute carriers (SLCs) in cancer. *Molecular Aspects of Medicine*, **2013**, 34, 719-34	16.7	48
140	The ABCs of membrane transporters in health and disease (SLC series): introduction. *Molecular Aspects of Medicine*, **2013**, 34, 95-107	16.7	362

139	The sodium-dependent ascorbic acid transporter family SLC23. *Molecular Aspects of Medicine*, **2013**, 34, 436-54	16.7	89
138	SLC13 family of Na+-coupled di- and tri-carboxylate/sulfate transporters. *Molecular Aspects of Medicine*, **2013**, 34, 299-312	16.7	73
137	Zinc transporters in prostate cancer. *Molecular Aspects of Medicine*, **2013**, 34, 735-41	16.7	61
136	Sodium/hydrogen exchanger NHA2 is critical for insulin secretion in β-cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 10004-9	11.5	40
135	Investigation of the inhibitory effects of the benzodiazepine derivative, 5-BDBD on P2X4 purinergic receptors by two complementary methods. *Cellular Physiology and Biochemistry*, **2013**, 32, 11-24	3.9	42
134	Expression, purification and low-resolution structure of human vitamin C transporter SVCT1 (SLC23A1). *PLoS ONE*, **2013**, 8, e76427	3.7	8
133	Functional and physiological role of vitamin C transporters. *Current Topics in Membranes*, **2012**, 70, 357-75	2.2	45
132	Inhibition of the human epithelial calcium channel TRPV6 by 2-aminoethoxydiphenyl borate (2-APB). *Cell Calcium*, **2012**, 52, 468-80	4	53
131	Frog oocytes to unveil the structure and supramolecular organization of human transport proteins. *PLoS ONE*, **2011**, 6, e21901	3.7	23
130	Heavy metal cations permeate the TRPV6 epithelial cation channel. *Cell Calcium*, **2011**, 49, 43-55	4	51
129	Chemical inhibitors of the calcium entry channel TRPV6. *Pharmaceutical Research*, **2011**, 28, 322-30	4.5	33
128	Synthesis, maturation, and trafficking of human Na+-dicarboxylate cotransporter NaDC1 requires the chaperone activity of cyclophilin B. *Journal of Biological Chemistry*, **2011**, 286, 11242-53	5.4	10
127	Heavy metal cations permeate the TRPV6 epithelial cation channel. *FASEB Journal*, **2011**, 25, 1042.23	0.9	
126	Channels and transporters. Mini-symposium of the Division of Medicinal Chemistry (DMC) of the Swiss Chemical Society (SCS) at the Department of Chemistry, University of Basel, May 27, 2010. *Chimia*, **2010**, 64, 662-6	1.3	3
125	Identification of selective norbornane-type aspartate analogue inhibitors of the glutamate transporter 1 (GLT-1) from the chemical universe generated database (GDB). *Journal of Medicinal Chemistry*, **2010**, 53, 7236-50	8.3	36
124	Trpv6 mediates intestinal calcium absorption during calcium restriction and contributes to bone homeostasis. *Bone*, **2010**, 47, 301-8	4.7	79
123	Tamoxifen inhibits TRPV6 activity via estrogen receptor-independent pathways in TRPV6-expressing MCF-7 breast cancer cells. *Molecular Cancer Research*, **2009**, 7, 2000-10	6.6	45
122	Tamoxifen inhibits TRPV6 activity via estrogen receptor independent pathways in TRPV6 transfected MCF-7 cells. *FASEB Journal*, **2009**, 23, 998.29	0.9	

121	Characterization of a stem cell population in lung cancer A549 cells. *Biochemical and Biophysical Research Communications*, **2008**, 371, 163-7	3.4	96
120	Transport model of the human Na+-coupled L-ascorbic acid (vitamin C) transporter SVCT1. *American Journal of Physiology - Cell Physiology*, **2008**, 294, C451-9	5.4	21
119	Mechanisms and regulation of epithelial Ca2+ absorption in health and disease. *Annual Review of Physiology*, **2008**, 70, 257-71	23.1	77
118	Gain-of-function haplotype in the epithelial calcium channel TRPV6 is a risk factor for renal calcium stone formation. *Human Molecular Genetics*, **2008**, 17, 1613-8	5.6	55
117	The role of TRPV6 in breast carcinogenesis. *Molecular Cancer Therapeutics*, **2008**, 7, 271-9	6.1	145
116	Active intestinal calcium transport in the absence of transient receptor potential vanilloid type 6 and calbindin-D9k. *Endocrinology*, **2008**, 149, 3196-205	4.8	178
115	The Mammalian Transporter Families **2008**, 91-146		4
114	Calcium channel TRPV6 is involved in murine maternal-fetal calcium transport. *Journal of Bone and Mineral Research*, **2008**, 23, 1249-56	6.3	83
113	Vitamin D: molecular mechanism of action. *Annals of the New York Academy of Sciences*, **2007**, 1116, 340-8	6.5	87
112	Functional properties of multiple isoforms of human divalent metal-ion transporter 1 (DMT1). *Biochemical Journal*, **2007**, 403, 59-69	3.8	135
111	Marked disturbance of calcium homeostasis in mice with targeted disruption of the Trpv6 calcium channel gene. *Journal of Bone and Mineral Research*, **2007**, 22, 274-85	6.3	203
110	Mutations in the tight-junction gene claudin 19 (CLDN19) are associated with renal magnesium wasting, renal failure, and severe ocular involvement. *American Journal of Human Genetics*, **2006**, 79, 949-57	11	384
109	Distribution of the glutamate transporters GLT-1 (SLC1A2) and GLAST (SLC1A3) in peripheral organs. *Anatomy and Embryology*, **2006**, 211, 595-606		44
108	Divalent metal-ion transporter DMT1 mediates both H+ -coupled Fe2+ transport and uncoupled fluxes. *Pflugers Archiv European Journal of Physiology*, **2006**, 451, 544-58	4.6	111
107	Characterization of a branched-chain amino-acid transporter SBAT1 (SLC6A15) that is expressed in human brain. *Biochemical and Biophysical Research Communications*, **2005**, 337, 892-900	3.4	63
106	Molecular physiology of urate transport. *Physiology*, **2005**, 20, 125-33	9.8	206
105	Identification of mammalian proline transporter SIT1 (SLC6A20) with characteristics of classical system imino. *Journal of Biological Chemistry*, **2005**, 280, 8974-84	5.4	113
104	CaT1 knock-down strategies fail to affect CRAC channels in mucosal-type mast cells. *Journal of Physiology*, **2004**, 557, 121-32	3.9	39

103	Sodium-dependent ascorbic acid transporter family SLC23. *Pflugers Archiv European Journal of Physiology*, **2004**, 447, 677-82	4.6	111
102	The SLC14 gene family of urea transporters. *Pflugers Archiv European Journal of Physiology*, **2004**, 447, 603-9	4.6	58
101	SLC11 family of H+-coupled metal-ion transporters NRAMP1 and DMT1. *Pflugers Archiv European Journal of Physiology*, **2004**, 447, 571-9	4.6	96
100	The glutamate/neutral amino acid transporter family SLC1: molecular, physiological and pharmacological aspects. *Pflugers Archiv European Journal of Physiology*, **2004**, 447, 469-79	4.6	309
99	The ABCs of solute carriers: physiological, pathological and therapeutic implications of human membrane transport proteinsIntroduction. *Pflugers Archiv European Journal of Physiology*, **2004**, 447, 465-8	4.6	689
98	Apical entry channels in calcium-transporting epithelia. *Physiology*, **2003**, 18, 158-63	9.8	26
97	Tissue-engineered neomucosa: morphology, enterocyte dynamics, and SGLT1 expression topography. *Transplantation*, **2003**, 75, 181-5	1.8	33
96	Calcium transporter 1 and epithelial calcium channel messenger ribonucleic acid are differentially regulated by 1,25 dihydroxyvitamin D3 in the intestine and kidney of mice. *Endocrinology*, **2003**, 144, 3885-94	4.8	193
95	The glutamate and neutral amino acid transporter family: physiological and pharmacological implications. *European Journal of Pharmacology*, **2003**, 479, 237-47	5.3	153
94	Effect of middle cerebral artery occlusion on mRNA expression for the sodium-coupled vitamin C transporter SVCT2 in rat brain. *Journal of Neurochemistry*, **2003**, 86, 896-906	6	53
93	Functional properties and cellular distribution of the system A glutamine transporter SNAT1 support specialized roles in central neurons. *Journal of Biological Chemistry*, **2003**, 278, 23720-30	5.4	102
92	K+ amino acid transporter KAAT1 mutant Y147F has increased transport activity and altered substrate selectivity. *Journal of Experimental Biology*, **2003**, 206, 245-54	3	17
91	Epithelial Ca2+ entry channels: transcellular Ca2+ transport and beyond. *Journal of Physiology*, **2003** , 551, 729-40	3.9	90
90	The calcium-sensing receptor is required for normal calcium homeostasis independent of parathyroid hormone. *Journal of Clinical Investigation*, **2003**, 111, 1021-8	15.9	147
89	Calcium-selective ion channel, CaT1, is apically localized in gastrointestinal tract epithelia and is aberrantly expressed in human malignancies. *Laboratory Investigation*, **2002**, 82, 1755-64	5.9	189
88	A family of calcium-permeable channels in the kidney: distinct roles in renal calcium handling. *Current Opinion in Nephrology and Hypertension*, **2002**, 11, 555-61	3.5	31
87	Intestinal expression of genes involved in iron absorption in humans. *American Journal of Physiology - Renal Physiology*, **2002**, 282, G598-607	5.1	65
86	Iron transport: emerging roles in health and disease. *Biochemistry and Cell Biology*, **2002**, 80, 679-89	3.6	52

85	Iron transport and hemochromatosis. *Journal of Investigative Medicine*, **2002**, 50, 239S-246S	2.9	6
84	Single-channel activities of the human epithelial Ca2+ transport proteins CaT1 and CaT2. *Journal of Membrane Biology*, **2001**, 184, 113-20	2.3	19
83	Differential distribution of the glutamate transporters GLT-1 and GLAST in tanycytes of the third ventricle. *Journal of Comparative Neurology*, **2001**, 433, 101-14	3.4	77
82	CaT1 manifests the pore properties of the calcium-release-activated calcium channel. *Nature*, **2001**, 410, 705-9	50.4	313
81	Inhibition of the glutamate transporter EAAC1 expressed in Xenopus oocytes by phorbol esters. *Brain Research*, **2001**, 914, 196-203	3.7	50
80	Amyotrophic lateral sclerosis-linked glutamate transporter mutant has impaired glutamate clearance capacity. *Journal of Biological Chemistry*, **2001**, 276, 576-82	5.4	131
79	Colonic epithelial hPepT1 expression occurs in inflammatory bowel disease: transport of bacterial peptides influences expression of MHC class 1 molecules. *Gastroenterology*, **2001**, 120, 1666-79	13.3	163
78	Inhibition of CaT1 channel activity by a noncompetitive IP3 antagonist. *Biochemical and Biophysical Research Communications*, **2001**, 280, 145-50	3.4	24
77	Polycystin-2 is a novel cation channel implicated in defective intracellular Ca(2+) homeostasis in polycystic kidney disease. *Biochemical and Biophysical Research Communications*, **2001**, 282, 341-50	3.4	194
76	CaT1 expression correlates with tumor grade in prostate cancer. *Biochemical and Biophysical Research Communications*, **2001**, 282, 729-34	3.4	141
75	Transport function of the naturally occurring pathogenic polycystin-2 mutant, R742X. *Biochemical and Biophysical Research Communications*, **2001**, 282, 1251-6	3.4	62
74	Structural conservation of the genes encoding CaT1, CaT2, and related cation channels. *Genomics*, **2001**, 76, 99-109	4.3	83
73	Iron-dependent regulation of the divalent metal ion transporter. *FEBS Letters*, **2001**, 509, 309-16	3.8	237
72	An iron-regulated ferric reductase associated with the absorption of dietary iron. *Science*, **2001**, 291, 1755-9	33.3	772
71	Diurnal rhythmicity in intestinal SGLT-1 function, V(max), and mRNA expression topography. *American Journal of Physiology - Renal Physiology*, **2001**, 280, G209-15	5.1	58
70	Molecular characterization of a novel urea transporter from kidney inner medullary collecting ducts. *American Journal of Physiology - Renal Physiology*, **2001**, 280, F487-94	4.3	32
69	Intestinal metal ion absorption: an update. *Current Opinion in Gastroenterology*, **2001**, 17, 177-183	3	18
68	The vitamin C transporter SVCT2 is expressed by astrocytes in culture but not in situ. *NeuroReport*, **2000**, 11, 1395-9	1.7	40

67	Distribution of the glutamate transporters GLAST and GLT-1 in rat circumventricular organs, meninges, and dorsal root ganglia. *Journal of Comparative Neurology*, **2000**, 421, 385-99	3.4	89
66	Differential recognition of ACE inhibitors in Xenopus laevis oocytes expressing rat PEPT1 and PEPT2. *Pharmaceutical Research*, **2000**, 17, 526-32	4.5	78
65	Na/HCO3 cotransporters in rat brain: expression in glia, neurons, and choroid plexus. *Journal of Neuroscience*, **2000**, 20, 6839-48	6.6	103
64	Long-term regulation of urea transporter expression by vasopressin in Brattleboro rats. *American Journal of Physiology - Renal Physiology*, **2000**, 278, F620-7	4.3	32
63	A rat kidney-specific calcium transporter in the distal nephron. *Journal of Biological Chemistry*, **2000** , 275, 28186-94	5.4	122
62	A novel system A isoform mediating Na+/neutral amino acid cotransport. *Journal of Biological Chemistry*, **2000**, 275, 22790-7	5.4	189
61	Human vitamin C (L-ascorbic acid) transporter SVCT1. *Biochemical and Biophysical Research Communications*, **2000**, 267, 488-94	3.4	172
60	Functional roles of histidine and tyrosine residues in the H(+)-peptide transporter PepT1. *Biochemical and Biophysical Research Communications*, **2000**, 272, 726-30	3.4	81
59	Human calcium transport protein CaT1. *Biochemical and Biophysical Research Communications*, **2000** , 278, 326-32	3.4	173
58	A novel duodenal iron-regulated transporter, IREG1, implicated in the basolateral transfer of iron to the circulation. *Molecular Cell*, **2000**, 5, 299-309	17.6	1157
57	Functional and molecular characterization of the human neutral solute channel aquaporin-9. *American Journal of Physiology - Renal Physiology*, **1999**, 277, F685-96	4.3	92
56	Glutamate transporters in kidney and brain. *American Journal of Physiology - Renal Physiology*, **1999**, 277, F487-92	4.3	23
55	Stoichiometry and kinetics of the high-affinity H+-coupled peptide transporter PepT2. *Journal of Biological Chemistry*, **1999**, 274, 2773-9	5.4	50
54	Polycystin-L is a calcium-regulated cation channel permeable to calcium ions. *Nature*, **1999**, 401, 383-6	50.4	183
53	Yeast SMF1 mediates H(+)-coupled iron uptake with concomitant uncoupled cation currents. *Journal of Biological Chemistry*, **1999**, 274, 35089-94	5.4	125
52	SOD1 mutants linked to amyotrophic lateral sclerosis selectively inactivate a glial glutamate transporter. *Nature Neuroscience*, **1999**, 2, 848	25.5	70
51	A family of mammalian Na+-dependent L-ascorbic acid transporters. *Nature*, **1999**, 399, 70-5	50.4	724
50	Metal ion transporters in mammals: structure, function and pathological implications. *Journal of Physiology*, **1999**, 518, 1-12	3.9	71

49	SOD1 mutants linked to amyotrophic lateral sclerosis selectively inactivate a glial glutamate transporter. *Nature Neuroscience*, **1999**, 2, 427-33	25.5	242
48	Molecular cloning and characterization of a channel-like transporter mediating intestinal calcium absorption. *Journal of Biological Chemistry*, **1999**, 274, 22739-46	5.4	483
47	Localization of sodium bicarbonate cotransporter (NBC) protein and messenger ribonucleic acid in rat epididymis. *Biology of Reproduction*, **1999**, 60, 573-9	3.9	66
46	. *Nature*, **1999**, 401, 383-386	50.4	99
45	Molecular and functional analysis of SDCT2, a novel rat sodium-dependent dicarboxylate transporter. *Journal of Clinical Investigation*, **1999**, 103, 1159-68	15.9	86
44	Tubular localization and tissue distribution of peptide transporters in rat kidney. *Pharmaceutical Research*, **1998**, 15, 1244-9	4.5	70
43	Molecular genetics of cystinuria: mutation analysis of SLC3A1 and evidence for another gene in type I (silent) phenotype. *Kidney International*, **1998**, 54, 48-55	9.9	63
42	Expression cloning using Xenopus laevis oocytes. *Methods in Enzymology*, **1998**, 296, 17-52	1.7	62
41	Molecular characterization of a broad selectivity neutral solute channel. *Journal of Biological Chemistry*, **1998**, 273, 24737-43	5.4	383
40	Characterization of a rat Na+-dicarboxylate cotransporter. *Journal of Biological Chemistry*, **1998**, 273, 20972-81	5.4	89
39	The Molecular Physiology of Sodium- and Proton-Coupled Solute Transporters. *Physiology*, **1998**, 13, 123-131	9.8	6
38	Cloning and functional expression of rNBC, an electrogenic Na(+)-HCO3- cotransporter from rat kidney. *American Journal of Physiology - Renal Physiology*, **1998**, 274, F425-32	4.3	111
37	The amino acid transport system y+L/4F2hc is a heteromultimeric complex. *FASEB Journal*, **1998**, 12, 1319-29	0.9	84
36	Urea transporters in kidney: molecular analysis and contribution to the urinary concentrating process1. *American Journal of Physiology - Renal Physiology*, **1998**, 275, F319-24	4.3	12
35	Symmetry of H+ binding to the intra- and extracellular side of the H+-coupled oligopeptide cotransporter PepT1. *Journal of Biological Chemistry*, **1997**, 272, 7777-85	5.4	56
34	Localization of the high-affinity glutamate transporter EAAC1 in rat kidney. *American Journal of Physiology - Renal Physiology*, **1997**, 273, F1023-9	4.3	25
33	Expression cloning and characterization of a renal electrogenic Na+/HCO3- cotransporter. *Nature*, **1997**, 387, 409-13	50.4	371
32	Cloning and characterization of a mammalian proton-coupled metal-ion transporter. *Nature*, **1997**, 388, 482-8	50.4	2578

31	Structure and pharmacology of proton-linked peptide transporters. *Journal of Controlled Release*, **1997**, 46, 31-38	11.7	8
30	The High-Affinity Glutamate Transporter Family **1997**, 171-213		22
29	Nonradioactive monitoring of organic and inorganic solute transport into single Xenopus oocytes by capillary zone electrophoresis. *Biophysical Journal*, **1996**, 70, 998-1005	2.9	14
28	Knockout of glutamate transporters reveals a major role for astroglial transport in excitotoxicity and clearance of glutamate. *Neuron*, **1996**, 16, 675-86	13.9	2081
27	Mammalian urea transporters. *Current Opinion in Nephrology and Hypertension*, **1996**, 5, 401-5	3.5	3
26	Structure, regulation and physiological roles of urea transporters. *Kidney International*, **1996**, 49, 1615-23	9.9	45
25	Electrogenic properties of the epithelial and neuronal high affinity glutamate transporter. *Journal of Biological Chemistry*, **1995**, 270, 16561-8	5.4	152
24	Molecular cloning of PEPT 2, a new member of the H+/peptide cotransporter family, from human kidney. *Biochimica Et Biophysica Acta - Biomembranes*, **1995**, 1235, 461-6	3.8	207
23	Molecular characteristics of Na(+)-coupled glucose transporters in adult and embryonic rat kidney. *Journal of Biological Chemistry*, **1995**, 270, 29365-71	5.4	149
22	Neuronal high-affinity glutamate transport in the rat central nervous system. *NeuroReport*, **1995**, 6, 2357-62	1.7	97
21	Human intestinal H+/peptide cotransporter. Cloning, functional expression, and chromosomal localization. *Journal of Biological Chemistry*, **1995**, 270, 6456-63	5.4	405
20	Expression cloning and characterization of the glutamate transporter in neurons. *Kidney and Blood Pressure Research*, **1994**, 17, 161-4	3.1	2
19	Expression cloning of a mammalian proton-coupled oligopeptide transporter. *Nature*, **1994**, 368, 563-6	50.4	741
18	Assignment of the gene for cystinuria (SLC3A1) to human chromosome 2p21 by fluorescence in situ hybridization. *Genomics*, **1994**, 24, 413-4	4.3	31
17	Localization of the Na+/glucose cotransporter gene SGLT2 to human chromosome 16 close to the centromere. *Genomics*, **1993**, 17, 787-9	4.3	54
16	The elusive transporters with a high affinity for glutamate. *Trends in Neurosciences*, **1993**, 16, 365-70	13.3	175
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