

Phylogenetic Relationships within Cation Transporter F

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Sodium Uptake in Arabidopsis Roots Is Regulated by Cyclic Nucleotides. <i>Plant Physiology</i> , 2001, 127, 1617-1625.	2.3	239
2	Strategies to identify transport systems in plants. <i>Trends in Plant Science</i> , 2001, 6, 577-585.	4.3	30
3	Structural Determinants of Ca ²⁺ Transport in the Arabidopsis H ⁺ /Ca ²⁺ Antiporter CAX1. <i>Journal of Biological Chemistry</i> , 2001, 276, 43152-43159.	1.6	62
4	Combining Genetics and Cell Biology to Crack the Code of Plant Cell Calcium Signaling. <i>Science Signaling</i> , 2001, 2001, re13-re13.	1.6	24
5	Dominant Negative Guard Cell K ⁺ Channel Mutants Reduce Inward-Rectifying K ⁺ Currents and Light-Induced Stomatal Opening in Arabidopsis. <i>Plant Physiology</i> , 2001, 127, 473-485.	2.3	173
6	Regulation of CAX1, an Arabidopsis Ca ²⁺ /H ⁺ Antiporter. Identification of an N-Terminal Autoinhibitory Domain. <i>Plant Physiology</i> , 2001, 127, 1020-1029.	2.3	102
7	Inventory of the Superfamily of P-Type Ion Pumps in Arabidopsis. <i>Plant Physiology</i> , 2001, 126, 696-706.	2.3	402
8	Genes Encoding Calmodulin-binding Proteins in the Arabidopsis Genome. <i>Journal of Biological Chemistry</i> , 2002, 277, 9840-9852.	1.6	199
9	Mechanism of N-terminal Autoinhibition in the Arabidopsis Ca ²⁺ /H ⁺ Antiporter CAX1. <i>Journal of Biological Chemistry</i> , 2002, 277, 26452-26459.	1.6	67
10	The Expression of HAK-Type K ⁺ Transporters Is Regulated in Response to Salinity Stress in Common Ice Plant. <i>Plant Physiology</i> , 2002, 129, 1482-1493.	2.3	138
11	Pollen tube development and competitive ability are impaired by disruption of a Shaker K ⁺ channel in Arabidopsis. <i>Genes and Development</i> , 2002, 16, 339-350.	2.7	195
12	Inventory and Functional Characterization of the HAK Potassium Transporters of Rice. <i>Plant Physiology</i> , 2002, 130, 784-795.	2.3	299
13	Distinct N-Terminal Regulatory Domains of Ca ²⁺ /H ⁺ Antiporters. <i>Plant Physiology</i> , 2002, 130, 1054-1062.	2.3	60
14	Genetic Manipulation of Vacuolar Proton Pumps and Transporters. <i>Plant Physiology</i> , 2002, 129, 967-973.	2.3	128
15	Genes and Proteins for Solute Transport and Sensing. <i>The Arabidopsis Book</i> , 2002, 1, e0092.	0.5	11
16	Characterization of CAX4, an Arabidopsis H ⁺ /Cation Antiporter. <i>Plant Physiology</i> , 2002, 128, 1245-1254.	2.3	109
17	A Mutation in the Arabidopsis KT2/KUP2 Potassium Transporter Gene Affects Shoot Cell Expansion. <i>Plant Cell</i> , 2002, 14, 119-131.	3.1	202
18	Arabidopsis and the Genetic Potential for the Phytoremediation of Toxic Elemental and Organic Pollutants. <i>The Arabidopsis Book</i> , 2002, 1, e0032.	0.5	31

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19	Electrophysiological Analysis of Cloned Cyclic Nucleotide-Gated Ion Channels. <i>Plant Physiology</i> , 2002, 128, 400-410.	2.3	198
20	Outer Pore Residues Control the H ⁺ and K ⁺ Sensitivity of the Arabidopsis Potassium Channel AKT3. <i>Plant Cell</i> , 2002, 14, 1859-1868.	3.1	41
21	Calcium at the Crossroads of Signaling. <i>Plant Cell</i> , 2002, 14, S401-S417.	3.1	1,076
22	The Genetic Basis of Metal Hyperaccumulation in Plants. <i>Critical Reviews in Plant Sciences</i> , 2002, 21, 539-566.	2.7	357
23	Plants and sodium ions: keeping company with the enemy. <i>Genome Biology</i> , 2002, 3, reviews1017.1.	13.9	83
24	Genes for calcium-permeable channels in the plasma membrane of plant root cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1564, 299-309.	1.4	182
25	KCO1 is a component of the slow-vacuolar (SV) ion channel. <i>FEBS Letters</i> , 2002, 511, 28-32.	1.3	56
26	Phytoremediation of Metals Using Transgenic Plants. <i>Critical Reviews in Plant Sciences</i> , 2002, 21, 439-456.	2.7	254
27	Summaries of National Science Foundation-Sponsored Arabidopsis 2010 Projects and National Science Foundation-Sponsored Plant Genome Projects That Are Generating Arabidopsis Resources for the Community. <i>Plant Physiology</i> , 2002, 129, 394-437.	2.3	29
28	Limiting nutrients: an old problem with new solutions?. <i>Current Opinion in Plant Biology</i> , 2002, 5, 158-163.	3.5	43
29	Plant K ⁺ Transport: Not Just an Uphill Struggle. <i>Current Biology</i> , 2002, 12, R402-R404.	1.8	9
30	Identification and characterization of a NaCl-inducible vacuolar Na ⁺ /H ⁺ antiporter in <i>Beta vulgaris</i> . <i>Physiologia Plantarum</i> , 2002, 116, 206-212.	2.6	114
31	Vacuolar membrane localization of the Arabidopsis <i>AtPore</i> ™ K ⁺ channel KCO1. <i>Plant Journal</i> , 2002, 29, 809-820.	2.8	113
32	Characterization of a HKT-type transporter in rice as a general alkali cation transporter. <i>Plant Journal</i> , 2002, 31, 529-542.	2.8	139
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34	A role for HKT1 in sodium uptake by wheat roots. <i>Plant Journal</i> , 2002, 32, 139-149.	2.8	250
35	<i>Arabidopsis thaliana</i> root non-selective cation channels mediate calcium uptake and are involved in growth. <i>Plant Journal</i> , 2002, 32, 799-808.	2.8	174
36	NONSELECTIVE CATION CHANNELS IN PLANTS. <i>Annual Review of Plant Biology</i> , 2002, 53, 67-107.	8.6	347

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37	Knock-out of Arabidopsis metal transporter gene IRT1 results in iron deficiency accompanied by cell differentiation defects. <i>Plant Molecular Biology</i> , 2002, 50, 587-597.	2.0	229
38	Molecular cloning and functional expression in bacteria of the potassium transporters CnHAK1 and CnHAK2 of the seagrass <i>Cymodocea nodosa</i> . <i>Plant Molecular Biology</i> , 2002, 50, 623-633.	2.0	51
39	Molecular mechanisms of potassium and sodium uptake in plants. <i>Plant and Soil</i> , 2002, 247, 43-54.	1.8	151
40	Characterization of a family of vacuolar Na ⁺ /H ⁺ -antiporters in <i>Arabidopsis thaliana</i> . <i>Plant and Soil</i> , 2003, 253, 245-256.	1.8	109
41	Selecting plants to minimise radiocaesium in the food chain. <i>Plant and Soil</i> , 2003, 249, 177-186.	1.8	62
42	MOLECULAR MECHANISMS AND REGULATION OF K ⁺ TRANSPORT IN HIGHER PLANTS. <i>Annual Review of Plant Biology</i> , 2003, 54, 575-603.	8.6	530
43	Five-Group Distribution of the Shaker-like K ⁺ Channel Family in Higher Plants. <i>Journal of Molecular Evolution</i> , 2003, 56, 418-434.	0.8	98
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45	Iron uptake, trafficking and homeostasis in plants. <i>Planta</i> , 2003, 216, 541-551.	1.6	546
46	Cytosolic potassium homeostasis revisited: 42 K-tracer analysis in <i>Hordeum vulgare</i> L. reveals set-point variations in [K ⁺]. <i>Planta</i> , 2003, 217, 540-546.	1.6	60
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48	Genes for magnesium transport. <i>Current Opinion in Plant Biology</i> , 2003, 6, 263-267.	3.5	93
49	Don't shoot the (second) messenger: endomembrane transporters and binding proteins modulate cytosolic Ca ²⁺ levels. <i>Current Opinion in Plant Biology</i> , 2003, 6, 257-262.	3.5	58
50	Functional interaction of calmodulin with a plant cyclic nucleotide gated cation channel. <i>Plant Physiology and Biochemistry</i> , 2003, 41, 945-954.	2.8	79
51	Efflux-mediated heavy metal resistance in prokaryotes. <i>FEMS Microbiology Reviews</i> , 2003, 27, 313-339.	3.9	1,214
52	Phytoextraction of metals and metalloids from contaminated soils. <i>Current Opinion in Biotechnology</i> , 2003, 14, 277-282.	3.3	908
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54	Transport and metabolism of free cyanide and iron cyanide complexes by willow. <i>Plant, Cell and Environment</i> , 2003, 26, 1467-1478.	2.8	96

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56	Natural variation in cadmium tolerance and its relationship to metal hyperaccumulation for seven populations of <i>Thlaspi caerulescens</i> from western Europe. <i>Plant, Cell and Environment</i> , 2003, 26, 1657-1672.	2.8	242
57	AtNRAMP3, a multispecific vacuolar metal transporter involved in plant responses to iron deficiency. <i>Plant Journal</i> , 2003, 34, 685-695.	2.8	433
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59	ILR2, a novel gene regulating IAA conjugate sensitivity and metal transport in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2003, 35, 523-534.	2.8	41
60	Transcriptome analysis of root transporters reveals participation of multiple gene families in the response to cation stress. <i>Plant Journal</i> , 2003, 35, 675-692.	2.8	286
61	Vacuolar cation/H ⁺ exchange, ion homeostasis, and leaf development are altered in a T-DNA insertional mutant of AtNHX1, the <i>Arabidopsis</i> vacuolar Na ⁺ /H ⁺ antiporter. <i>Plant Journal</i> , 2003, 36, 229-239.	2.8	331
62	Isolation of AtSUC2 promoter-GFP-marked companion cells for patch-clamp studies and expression profiling. <i>Plant Journal</i> , 2003, 36, 931-945.	2.8	85
63	Phosphorus acquisition and use: critical adaptations by plants for securing a nonrenewable resource. <i>New Phytologist</i> , 2003, 157, 423-447.	3.5	2,243
64	<i>Schizosaccharomyces pombe</i> as a model for metal homeostasis in plant cells: the phytochelatin-dependent pathway is the main cadmium detoxification mechanism. <i>New Phytologist</i> , 2003, 159, 323-330.	3.5	67
65	Differential metal-specific tolerance and accumulation patterns among <i>Thlaspi caerulescens</i> populations originating from different soil types. <i>New Phytologist</i> , 2003, 159, 411-419.	3.5	242
66	<i>Thlaspi caerulescens</i> , an attractive model species to study heavy metal hyperaccumulation in plants. <i>New Phytologist</i> , 2003, 159, 351-360.	3.5	319
67	Heavy metals and plants – model systems and hyperaccumulators. <i>New Phytologist</i> , 2003, 159, 289-293.	3.5	101
68	Genomic scale profiling of nutrient and trace elements in <i>Arabidopsis thaliana</i> . <i>Nature Biotechnology</i> , 2003, 21, 1215-1221.	9.4	407
69	The hyperaccumulation of metals by plants. <i>Advances in Botanical Research</i> , 2003, 40, 63-105.	0.5	123
70	Mechanisms and Control of Nutrient Uptake in Plants. <i>International Review of Cytology</i> , 2003, 229, 73-114.	6.2	66
71	Structure and function of potassium channels in plants: some inferences about the molecular origin of inward rectification in KAT1 channels (Review). <i>Molecular Membrane Biology</i> , 2003, 20, 19-25.	2.0	20
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80	ARAMEMNON, a Novel Database for Arabidopsis Integral Membrane Proteins. <i>Plant Physiology</i> , 2003, 131, 16-26.	2.3	624
81	Transcriptional Profiling of Arabidopsis Tissues Reveals the Unique Characteristics of the Pollen Transcriptome. <i>Plant Physiology</i> , 2003, 133, 713-725.	2.3	365
82	Genes Encoding Proteins of the Cation Diffusion Facilitator Family That Confer Manganese Tolerance. <i>Plant Cell</i> , 2003, 15, 1131-1142.	3.1	227
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85	Topological analysis of a plant vacuolar Na ⁺ /H ⁺ antiporter reveals a luminal C terminus that regulates antiporter cation selectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12510-12515.	3.3	161
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92	Cloning and Characterization of CXIP1, a Novel PICOT Domain-containing <i>Arabidopsis</i> Protein That Associates with CAX1. <i>Journal of Biological Chemistry</i> , 2003, 278, 6503-6509.	1.6	61
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99	Isolation and Functional Characterization of Ca ²⁺ /H ⁺ Antiporters from Cyanobacteria. <i>Journal of Biological Chemistry</i> , 2004, 279, 4330-4338.	1.6	54
100	Expression of KT/KUP Genes in <i>Arabidopsis</i> and the Role of Root Hairs in K ⁺ Uptake. <i>Plant Physiology</i> , 2004, 134, 1135-1145.	2.3	296
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104	Protection of Plasma Membrane K ⁺ Transport by the Salt Overly Sensitive1 Na ⁺ -H ⁺ Antiporter during Salinity Stress. <i>Plant Physiology</i> , 2004, 136, 2548-2555.	2.3	176
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108	Cyclic Adenosine Monophosphate Regulates Calcium Channels in the Plasma Membrane of <i>Arabidopsis</i> Leaf Guard and Mesophyll Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 35306-35312.	1.6	103

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110	Expression Patterns of a Novel AtCHX Gene Family Highlight Potential Roles in Osmotic Adjustment and K ⁺ Homeostasis in Pollen Development. <i>Plant Physiology</i> , 2004, 136, 2532-2547.	2.3	148
111	Sodium Transporters in Plants. Diverse Genes and Physiological Functions. <i>Plant Physiology</i> , 2004, 136, 2457-2462.	2.3	199
112	Natural variation and QTL analysis for cationic mineral content in seeds of <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2004, 27, 828-839.	2.8	155
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116	DNA array analyses of <i>Arabidopsis thaliana</i> lacking a vacuolar Na ⁺ /H ⁺ antiporter: impact of AtNHX1 on gene expression. <i>Plant Journal</i> , 2004, 40, 752-771.	2.8	114
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118	Natural genetic variation in caesium (Cs) accumulation by <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2004, 162, 535-548.	3.5	64
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121	Over-Expression of an <i>Arabidopsis</i> Zinc Transporter in <i>Hordeum Vulgare</i> Increases Short-Term Zinc Uptake after Zinc Deprivation and Seed Zinc Content. <i>Plant Molecular Biology</i> , 2004, 54, 373-385.	2.0	174
122	Identification and Characterization of Several New Members of the ZIP Family of Metal Ion Transporters in <i>Medicago Truncatula</i> . <i>Plant Molecular Biology</i> , 2004, 54, 583-596.	2.0	163
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125	Cloning and functional characterization of the high-affinity K ⁺ transporter HAK1 of pepper. <i>Plant Molecular Biology</i> , 2004, 56, 413-421.	2.0	83
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129	Cross-species microarray transcript profiling reveals high constitutive expression of metal homeostasis genes in shoots of the zinc hyperaccumulator <i>Arabidopsis halleri</i> . <i>Plant Journal</i> , 2004, 37, 251-268.	2.8	500
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134	A comparative genomic analysis of the calcium signaling machinery in <i>Neurospora crassa</i> , <i>Magnaporthe grisea</i> , and <i>Saccharomyces cerevisiae</i> . <i>Fungal Genetics and Biology</i> , 2004, 41, 827-841.	0.9	128
135	Differential expression of rice Nramp genes in response to pathogen infection, defense signal molecules and metal ions. <i>Physiological and Molecular Plant Pathology</i> , 2004, 65, 235-243.	1.3	16
136	Critical Review of the Science and Options for Reducing Cadmium in Tobacco (<i>Nicotiana Tabacum</i> L.) and Other Plants. <i>Advances in Agronomy</i> , 2004, 83, 111-180.	2.4	104
137	Characterization of CXIP4, a novel <i>Arabidopsis</i> protein that activates the H ⁺ /Ca ²⁺ antiporter, CAX1. <i>FEBS Letters</i> , 2004, 559, 99-106.	1.3	44
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139	<i>Lotus japonicus</i> LjKUP Is Induced Late During Nodule Development and Encodes a Potassium Transporter of the Plasma Membrane. <i>Molecular Plant-Microbe Interactions</i> , 2004, 17, 789-797.	1.4	38
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