Akira Kato

List of Publications by Year in descending order

63 papers	2,069 citations	236925 25 h-index	243625 44 g-index
63 all docs	63 docs citations	63 times ranked	2160 citing authors

#	Article	IF	Citations
1	Boric acid transport activity of human aquaporins expressed in Xenopus oocytes. Physiological Reports, 2022, 10, e15164.	1.7	5
2	Placental Mammals Acquired Functional Sequences in NRK for Regulating the CK2â€“PTENâ€“AKT Pathway and Placental Cell Proliferation. Molecular Biology and Evolution, 2022, 39, .	8.9	9
3	Molecular basis of ubiquitin-specific protease 8 autoinhibition by the WW-like domain. Communications Biology, 2021, 4, 1272.	4.4	6
4	Cloning, function, and localization of human, canine, and Drosophila ZIP10 (SLC39A10), a Zn²⁺ transporter. American Journal of Physiology - Renal Physiology, 2019, 316, F263-F273.	2.7	14
5	Na⁺/H⁺ exchange via the Drosophila vesicular glutamate transporter mediates activityâ€induced acid efflux from presynaptic terminals. Journal of Physiology, 2017, 595, 805-824.	2.9	19
6	Duplicated CFTR isoforms in eels diverged in regulatory structures and osmoregulatory functions. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 199, 130-141.	1.8	16
7	Sulfate transporters involved in sulfate secretion in the kidney are localized in the renal proximal tubule II of the elephant fish (Callorhinchus milii). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R66-R78.	1.8	13
8	Transport proteins NHA1 and NHA2 are essential for survival, but have distinct transport modalities. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11720-11725.	7.1	53
9	Ligand-induced internalization, recycling, and resensitization of adrenomedullin receptors depend not on CLR or RAMP alone but on the receptor complex as a whole. General and Comparative Endocrinology, 2015, 212, 156-162.	1.8	3
10	Identification and lateral membrane localization of cyclin M3, likely to be involved in renal Mg²⁺handling in seawater fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R525-R537.	1.8	13
11	Na⁺/H⁺and Na⁺/NH₄⁺exchange activities of zebrafish NHE3b expressed inXenopusoocytes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 306, R315-R327.	1.8	31
12	Identification and properties of a novel variant of NBC4 (Na+/HCO3â˜ co-transporter 4) that is predominantly expressed in the choroid plexus. Biochemical Journal, 2013, 450, 179-187.	3.7	13
13	Expression of a novel isoform of Na⁺/H⁺exchanger 3 in the kidney and intestine of banded houndshark,Triakis scyllium. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 304, R865-R876.	1.8	11
14	Identification and proximal tubular localization of the Mg²⁺transporter, Slc41a1, in a seawater fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R385-R396.	1.8	19
15	Lung Surfactant Levels are Regulated by Ig-Hepta/GPR116 by Monitoring Surfactant Protein D. PLoS ONE, 2013, 8, e69451.	2.5	60
16	Pufferfish Slc4a11 functions as a borate channel for borate secretion. FASEB Journal, 2013, 27, 910.14.	0.5	1
17	Euryhaline pufferfish NBCe1 differs from nonmarine species NBCe1 physiology. American Journal of Physiology - Cell Physiology, 2012, 302, C1083-C1095.	4.6	27
18	Histological demonstration of glucose transporters, fructose-1,6-bisphosphatase, and glycogen in gas gland cells of the swimbladder: Is a metabolic futile cycle operating?. Biochemical and Biophysical Research Communications, 2012, 417, 564-569.	2.1	6

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19	O2-Filled Swimbladder Employs Monocarboxylate Transporters for the Generation of O2 by Lactate-Induced Root Effect Hemoglobin. PLoS ONE, 2012, 7, e34579.	2.5	12
20	The mechanism of local blood acidification in the swimbladder by spatially organized monocarboxylate transporters. FASEB Journal, 2012, 26, 862.10.	0.5	0
21	Regulation of Electroneutral NaCl Absorption by the Small Intestine. Annual Review of Physiology, 2011, 73, 261-281.	13.1	145
22	Differential expression of Na⁺-Cl^{â˜'}cotransporter and Na⁺-K⁺-Cl^{â˜'}cotransporter 2 in the distal nephrons of euryhaline and seawater pufferfishes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R284-R297.	1.8	47
23	Identification and apical membrane localization of an electrogenic Na⁺/Ca²⁺exchanger NCX2a likely to be involved in renal Ca²⁺excretion by seawater fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1427-R1439.	1.8	9
24	Brief migration of the grass puffer, Takifugu niphobles, to fresh water from salt water. Ichthyological Research, 2010, 57, 298-304.	0.8	14
25	Evolution of trappin genes in mammals. BMC Evolutionary Biology, 2010, 10, 31.	3.2	9
26	Rh glycoprotein expression is modulated in pufferfish (Takifugu rubripes) during high environmental ammonia exposure. Journal of Experimental Biology, 2010, 213, 3150-3160.	1.7	95
27	Rhesus Glycoprotein P2 (Rhp2) Is a Novel Member of the Rh Family of Ammonia Transporters Highly Expressed in Shark Kidney. Journal of Biological Chemistry, 2010, 285, 2653-2664.	3.4	25
28	Neuroblastoma GOTO cells are hypersensitive to disruption of lipid rafts. Biochemical and Biophysical Research Communications, 2009, 389, 122-127.	2.1	2
29	Identification of renal transporters involved in sulfate excretion in marine teleost fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1647-R1659.	1.8	32
30	Identification of intestinal bicarbonate transporters involved in formation of carbonate precipitates to stimulate water absorption in marine teleost fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1402-R1412.	1.8	112
31	Functional Characterization of Pufferfish Slc26a6A and Slc26a6B. FASEB Journal, 2008, 22, 936.7.	0.5	0
32	MARCH-XI, a Novel Transmembrane Ubiquitin Ligase Implicated in Ubiquitin-dependent Protein Sorting in Developing Spermatids*. Journal of Biological Chemistry, 2007, 282, 24806-24815.	3.4	54
33	Ammonia secretion from fish gill depends on a set of Rh glycoproteins. FASEB Journal, 2007, 21, 1067-1074.	0.5	174
34	Characterization of the Column and Autocellular Junctions That Define the Vasculature of Gill Lamellae. Journal of Histochemistry and Cytochemistry, 2007, 55, 941-953.	2.5	14
35	Fluorescence Visualization of Branchial Collagen Columns Embraced by Pillar Cells. Journal of Histochemistry and Cytochemistry, 2007, 55, 57-62.	2.5	12
36	Pillar cell and erythrocyte localization of fugu ETA receptor and its implication. Biochemical and Biophysical Research Communications, 2007, 355, 149-155.	2.1	9

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37	Headless splice variant acting as dominant negative calcitonin receptor. Biochemical and Biophysical Research Communications, 2007, 362, 1037-1043.	2.1	25
38	Fish calcitonin receptor has novel features. General and Comparative Endocrinology, 2007, 154, 48-58.	1.8	20
39	Spliced Isoforms of LIM-Domain-Binding Protein (CLIM/NLI/Ldb) Lacking the LIM-Interaction Domain. Journal of Biochemistry, 2006, 140, 105-119.	1.7	15
40	Molecular and functional characterization of adrenomedullin receptors in pufferfish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R467-R478.	1.8	36
41	Takifugu obscurus is a euryhaline fugu species very close to Takifugu rubripes and suitable for studying osmoregulation. BMC Physiology, 2005, 5, 18.	3.6	89
42	A novel type of urea transporter, UT-C, is highly expressed in proximal tubule of seawater eel kidney. American Journal of Physiology - Renal Physiology, 2005, 288, F455-F465.	2.7	35
43	NHE3 in an ancestral vertebrate: primary sequence, distribution, localization, and function in gills. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R1520-R1534.	1.8	69
44	MARCH-II Is a Syntaxin-6â€“binding Protein Involved in Endosomal Trafficking. Molecular Biology of the Cell, 2005, 16, 1696-1710.	2.1	71
45	Identification, Evolution, and Regulation of Expression of Guinea Pig Trappin with an Unusually Long Transglutaminase Substrate Domain*. Journal of Biological Chemistry, 2005, 280, 20204-20215.	3.4	8
46	Androgen-Dependent Expression, Gene Structure, and Molecular Evolution of Guinea Pig Caltrin II, a WAP-Motif Protein1. Biology of Reproduction, 2004, 71, 1583-1590.	2.7	11
47	FHL5, a novel actin-binding protein, is highly expressed in eel gill pillar cells and responds to wall tension. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 287, R1141-R1154.	1.8	16
48	Î´-Tubulin is a component of intercellular bridges and both the early and mature perinuclear rings during spermatogenesis. Developmental Biology, 2004, 269, 196-205.	2.0	41
49	RING finger, B-box, and coiled-coil (RBCC) protein expression in branchial epithelial cells of Japanese eel, Anguilla japonica. FEBS Journal, 2002, 269, 6152-6161.	0.2	12
50	Eel urea transporter is localized to chloride cells and is salinity dependent. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R1594-R1604.	1.8	57
51	Isolation of a Novel Interleukin-1-inducible Nuclear Protein Bearing Ankyrin-repeat Motifs. Journal of Biological Chemistry, 2001, 276, 12485-12488.	3.4	96
52	A Simple Assay and Histochemical Localization of Transglutaminase Activity Using a Derivative of Green Fluorescent Protein as Substrate. Journal of Histochemistry and Cytochemistry, 2001, 49, 247-258.	2.5	16
53	Retrotransposons transcribed preferentially in proximal tubules of salt-hypertensive rats. Kidney International, 1999, 55, 995-1004.	5.2	4
54	Differential subcellular distribution of neurolysin (EC 3.4.24.16) and thimet oligopeptidase (EC) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.2	47

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55	Neuropeptide Specificity and Inhibition of Recombinant Isoforms of the Endopeptidase 3.4.24.16 Family: Comparison with the Related Recombinant Endopeptidase 3.4.24.15. Biochemical and Biophysical Research Communications, 1998, 250, 5-11.	2.1	80
56	Evolution of the Trappin Multigene Family in the Suidae. Journal of Biochemistry, 1998, 124, 491-502.	1.7	25
57	Targeting of Endopeptidase 24.16 to Different Subcellular Compartments by Alternative Promoter Usage. Journal of Biological Chemistry, 1997, 272, 15313-15322.	3.4	43
58	Role of Natriuretic Peptide Receptor Type C in Dahl Salt-Sensitive Hypertensive Rats. Hypertension, 1997, 30, 177-183.	2.7	29
59	Accelerated Evolution in Inhibitor Domains of Porcine Elafin Family Members. Journal of Biological Chemistry, 1996, 271, 7012-7018.	3.4	41
60	Cloning and Properties of a Novel Natriuretic Peptide Receptor, NPR-D. FEBS Journal, 1995, 233, 102-109.	0.2	49
61	Cloning, Characterization, and Tissue Distribution of Porcine SPAI, a Protein with a Transglutaminase Substrate Domain and the WAP Motif. Journal of Biological Chemistry, 1995, 270, 22428-22433.	3.4	13
62	Cloning, amino acid sequence and tissue distribution of porcine thimet oligopeptidase. A comparison with soluble angiotensin-binding protein. FEBS Journal, 1994, 221, 159-165.	0.2	32
63	Membrane Transport Proteins Expressed in the Renal Tubular Epithelial Cells of Seawater and Freshwater Teleost Fishes. Frontiers in Physiology, 0, 13, .	2.8	5