

# Akira Kato

## List of Publications by Year in descending order

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63  
papers

2,069  
citations

236925

25  
h-index

243625

44  
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63  
all docs

63  
docs citations

63  
times ranked

2160  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonia secretion from fish gill depends on a set of Rh glycoproteins. <i>FASEB Journal</i> , 2007, 21, 1067-1074.	0.5	174
2	Regulation of Electroneutral NaCl Absorption by the Small Intestine. <i>Annual Review of Physiology</i> , 2011, 73, 261-281.	13.1	145
3	Identification of intestinal bicarbonate transporters involved in formation of carbonate precipitates to stimulate water absorption in marine teleost fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1402-R1412.	1.8	112
4	Isolation of a Novel Interleukin-1-inducible Nuclear Protein Bearing Ankyrin-repeat Motifs. <i>Journal of Biological Chemistry</i> , 2001, 276, 12485-12488.	3.4	96
5	Rh glycoprotein expression is modulated in pufferfish ( <i>Takifugu rubripes</i> ) during high environmental ammonia exposure. <i>Journal of Experimental Biology</i> , 2010, 213, 3150-3160.	1.7	95
6	<i>Takifugu obscurus</i> is a euryhaline fugu species very close to <i>Takifugu rubripes</i> and suitable for studying osmoregulation. <i>BMC Physiology</i> , 2005, 5, 18.	3.6	89
7	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. <i>Biochemical and Biophysical Research Communications</i> , 1998, 250, 5-11.	2.1	80
8	MARCH-II Is a Syntaxin-6-binding Protein Involved in Endosomal Trafficking. <i>Molecular Biology of the Cell</i> , 2005, 16, 1696-1710.	2.1	71
9	NHE3 in an ancestral vertebrate: primary sequence, distribution, localization, and function in gills. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R1520-R1534.	1.8	69
10	Lung Surfactant Levels are Regulated by Ig-Hepta/GPR116 by Monitoring Surfactant Protein D. <i>PLoS ONE</i> , 2013, 8, e69451.	2.5	60
11	Eel urea transporter is localized to chloride cells and is salinity dependent. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 281, R1594-R1604.	1.8	57
12	MARCH-XI, a Novel Transmembrane Ubiquitin Ligase Implicated in Ubiquitin-dependent Protein Sorting in Developing Spermatids*. <i>Journal of Biological Chemistry</i> , 2007, 282, 24806-24815.	3.4	54
13	Transport proteins NHA1 and NHA2 are essential for survival, but have distinct transport modalities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11720-11725.	7.1	53
14	Cloning and Properties of a Novel Natriuretic Peptide Receptor, NPR-D. <i>FEBS Journal</i> , 1995, 233, 102-109.	0.2	49
15	Differential subcellular distribution of neurolysin (EC 3.4.24.16) and thimet oligopeptidase (EC Tj ETQq1 1 0.784314 rgBT / Overlock 10	2.2	47
16	Differential expression of Na <sup>+</sup> -Cl <sup>-</sup> cotransporter and Na <sup>+</sup> -K <sup>+</sup> -Cl <sup>-</sup> cotransporter 2 in the distal nephrons of euryhaline and seawater pufferfishes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R284-R297.	1.8	47
17	Targeting of Endopeptidase 24.16 to Different Subcellular Compartments by Alternative Promoter Usage. <i>Journal of Biological Chemistry</i> , 1997, 272, 15313-15322.	3.4	43
18	Accelerated Evolution in Inhibitor Domains of Porcine Elafin Family Members. <i>Journal of Biological Chemistry</i> , 1996, 271, 7012-7018.	3.4	41

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19	$\hat{\gamma}$ -Tubulin is a component of intercellular bridges and both the early and mature perinuclear rings during spermatogenesis. <i>Developmental Biology</i> , 2004, 269, 196-205.	2.0	41
20	Molecular and functional characterization of adrenomedullin receptors in pufferfish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R467-R478.	1.8	36
21	A novel type of urea transporter, UT-C, is highly expressed in proximal tubule of seawater eel kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 288, F455-F465.	2.7	35
22	Cloning, amino acid sequence and tissue distribution of porcine thimet oligopeptidase. A comparison with soluble angiotensin-binding protein. <i>FEBS Journal</i> , 1994, 221, 159-165.	0.2	32
23	Identification of renal transporters involved in sulfate excretion in marine teleost fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R1647-R1659.	1.8	32
24	Na <sup>+</sup> /H <sup>+</sup> and Na <sup>+</sup> /NH <sub>4</sub> <sup>+</sup> exchange activities of zebrafish NHE3b expressed in <i>Xenopus</i> oocytes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R315-R327.	1.8	31
25	Role of Natriuretic Peptide Receptor Type C in Dahl Salt-Sensitive Hypertensive Rats. <i>Hypertension</i> , 1997, 30, 177-183.	2.7	29
26	Euryhaline pufferfish NBCe1 differs from nonmarine species NBCe1 physiology. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1083-C1095.	4.6	27
27	Evolution of the Trappin Multigene Family in the Suidae. <i>Journal of Biochemistry</i> , 1998, 124, 491-502.	1.7	25
28	Headless splice variant acting as dominant negative calcitonin receptor. <i>Biochemical and Biophysical Research Communications</i> , 2007, 362, 1037-1043.	2.1	25
29	Rhesus Glycoprotein P2 (Rhp2) Is a Novel Member of the Rh Family of Ammonia Transporters Highly Expressed in Shark Kidney. <i>Journal of Biological Chemistry</i> , 2010, 285, 2653-2664.	3.4	25
30	Fish calcitonin receptor has novel features. <i>General and Comparative Endocrinology</i> , 2007, 154, 48-58.	1.8	20
31	Identification and proximal tubular localization of the Mg <sup>2+</sup> transporter, Slc41a1, in a seawater fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R385-R396.	1.8	19
32	Na <sup>+</sup> /H <sup>+</sup> exchange via the <i>Drosophila</i> vesicular glutamate transporter mediates activity-induced acid efflux from presynaptic terminals. <i>Journal of Physiology</i> , 2017, 595, 805-824.	2.9	19
33	A Simple Assay and Histochemical Localization of Transglutaminase Activity Using a Derivative of Green Fluorescent Protein as Substrate. <i>Journal of Histochemistry and Cytochemistry</i> , 2001, 49, 247-258.	2.5	16
34	FHL5, a novel actin-binding protein, is highly expressed in eel gill pillar cells and responds to wall tension. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R1141-R1154.	1.8	16
35	Duplicated CFTR isoforms in eels diverged in regulatory structures and osmoregulatory functions. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2016, 199, 130-141.	1.8	16
36	Spliced Isoforms of LIM-Domain-Binding Protein (CLIM/NLI/Ldb) Lacking the LIM-Interaction Domain. <i>Journal of Biochemistry</i> , 2006, 140, 105-119.	1.7	15

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37	Characterization of the Column and Autocellular Junctions That Define the Vasculature of Gill Lamellae. <i>Journal of Histochemistry and Cytochemistry</i> , 2007, 55, 941-953.	2.5	14
38	Brief migration of the grass puffer, <i>Takifugu niphobles</i> , to fresh water from salt water. <i>Ichthyological Research</i> , 2010, 57, 298-304.	0.8	14
39	Cloning, function, and localization of human, canine, and <i>Drosophila</i> ZIP10 (SLC39A10), a Zn <sup>2+</sup> transporter. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 316, F263-F273.	2.7	14
40	Cloning, Characterization, and Tissue Distribution of Porcine SPAI, a Protein with a Transglutaminase Substrate Domain and the WAP Motif. <i>Journal of Biological Chemistry</i> , 1995, 270, 22428-22433.	3.4	13
41	Identification and properties of a novel variant of NBC4 (Na <sup>+</sup> /HCO <sub>3</sub> <sup>2-</sup> co-transporter 4) that is predominantly expressed in the choroid plexus. <i>Biochemical Journal</i> , 2013, 450, 179-187.	3.7	13
42	Identification and lateral membrane localization of cyclin M3, likely to be involved in renal Mg <sup>2+</sup> handling in seawater fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R525-R537.	1.8	13
43	Sulfate transporters involved in sulfate secretion in the kidney are localized in the renal proximal tubule II of the elephant fish ( <i>Callorhynchus milii</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R66-R78.	1.8	13
44	RING finger, B-box, and coiled-coil (RBCC) protein expression in branchial epithelial cells of Japanese eel, <i>Anguilla japonica</i> . <i>FEBS Journal</i> , 2002, 269, 6152-6161.	0.2	12
45	Fluorescence Visualization of Branchial Collagen Columns Embraced by Pillar Cells. <i>Journal of Histochemistry and Cytochemistry</i> , 2007, 55, 57-62.	2.5	12
46	O <sub>2</sub> -Filled Swimbladder Employs Monocarboxylate Transporters for the Generation of O <sub>2</sub> by Lactate-Induced Root Effect Hemoglobin. <i>PLoS ONE</i> , 2012, 7, e34579.	2.5	12
47	Androgen-Dependent Expression, Gene Structure, and Molecular Evolution of Guinea Pig Caltrin II, a WAP-Motif Protein1. <i>Biology of Reproduction</i> , 2004, 71, 1583-1590.	2.7	11
48	Expression of a novel isoform of Na <sup>+</sup> /H <sup>+</sup> exchanger 3 in the kidney and intestine of banded houndshark, <i>Triakis scyllium</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R865-R876.	1.8	11
49	Pillar cell and erythrocyte localization of fugu ETA receptor and its implication. <i>Biochemical and Biophysical Research Communications</i> , 2007, 355, 149-155.	2.1	9
50	Evolution of trappin genes in mammals. <i>BMC Evolutionary Biology</i> , 2010, 10, 31.	3.2	9
51	Identification and apical membrane localization of an electrogenic Na <sup>+</sup> /Ca <sup>2+</sup> exchanger NCX2a likely to be involved in renal Ca <sup>2+</sup> excretion by seawater fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1427-R1439.	1.8	9
52	Placental Mammals Acquired Functional Sequences in NRK for Regulating the CK2-PTEN-AKT Pathway and Placental Cell Proliferation. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	9
53	Identification, Evolution, and Regulation of Expression of Guinea Pig Trappin with an Unusually Long Transglutaminase Substrate Domain*. <i>Journal of Biological Chemistry</i> , 2005, 280, 20204-20215.	3.4	8
54	Histological demonstration of glucose transporters, fructose-1,6-bisphosphatase, and glycogen in gas gland cells of the swimbladder: Is a metabolic futile cycle operating?. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 564-569.	2.1	6

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55	Molecular basis of ubiquitin-specific protease 8 autoinhibition by the WW-like domain. <i>Communications Biology</i> , 2021, 4, 1272.	4.4	6
56	Boric acid transport activity of human aquaporins expressed in <i>Xenopus</i> oocytes. <i>Physiological Reports</i> , 2022, 10, e15164.	1.7	5
57	Membrane Transport Proteins Expressed in the Renal Tubular Epithelial Cells of Seawater and Freshwater Teleost Fishes. <i>Frontiers in Physiology</i> , 0, 13, .	2.8	5
58	Retrotransposons transcribed preferentially in proximal tubules of salt-hypertensive rats. <i>Kidney International</i> , 1999, 55, 995-1004.	5.2	4
59	Ligand-induced internalization, recycling, and resensitization of adrenomedullin receptors depend not on CLR or RAMP alone but on the receptor complex as a whole. <i>General and Comparative Endocrinology</i> , 2015, 212, 156-162.	1.8	3
60	Neuroblastoma GOTO cells are hypersensitive to disruption of lipid rafts. <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 122-127.	2.1	2
61	Pufferfish Slc4a11 functions as a borate channel for borate secretion. <i>FASEB Journal</i> , 2013, 27, 910.14.	0.5	1
62	Functional Characterization of Pufferfish Slc26a6A and Slc26a6B. <i>FASEB Journal</i> , 2008, 22, 936.7.	0.5	0
63	The mechanism of local blood acidification in the swimbladder by spatially organized monocarboxylate transporters. <i>FASEB Journal</i> , 2012, 26, 862.10.	0.5	0