

Ion regulation in fish gills: recent progress in the cellular

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Development of zebrafish epidermis. Birth Defects Research Part C: Embryo Today Reviews, 2011, 93, 205-214.	3.6	79
2	Pharmacological characterisation of apical Na ⁺ and Cl ⁻ transport mechanisms of the anal papillae in the larval mosquito <i>Aedes aegypti</i> . Journal of Experimental Biology, 2011, 214, 3992-3999.	1.7	28
3	New insights into ion regulation of cephalopod molluscs: a role of epidermal ionocytes in acid-base regulation during embryogenesis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1700-R1709.	1.8	27
4	Acid secretion by mitochondrion-rich cells of medaka (<i>Oryzias latipes</i>) acclimated to acidic freshwater. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 302, R283-R291.	1.8	34
5	Permeability properties of the teleost gill epithelium under ion-poor conditions. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 302, R727-R739.	1.8	44
6	β -Adrenergic regulation of Na ⁺ uptake by larval zebrafish <i>Danio rerio</i> in acidic and ion-poor environments. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 303, R1031-R1041.	1.8	21
7	Rhcg1 and NHE3b are involved in ammonium-dependent sodium uptake by zebrafish larvae acclimated to low-sodium water. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 302, R84-R93.	1.8	102
8	Functional characterization and localization of a gill-specific claudin isoform in Atlantic salmon. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 302, R300-R311.	1.8	19
9	Potassium excretion through ROMK potassium channel expressed in gill mitochondrion-rich cells of Mozambique tilapia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 302, R568-R576.	1.8	35
10	Cortisol regulates Na ⁺ uptake in zebrafish, <i>Danio rerio</i> , larvae via the glucocorticoid receptor. Molecular and Cellular Endocrinology, 2012, 364, 113-125.	3.2	89
11	Structure and function of ionocytes in the freshwater fish gill. Respiratory Physiology and Neurobiology, 2012, 184, 282-292.	1.6	171
12	New insights into gill ionocyte and ion transporter function in euryhaline and diadromous fish. Respiratory Physiology and Neurobiology, 2012, 184, 257-268.	1.6	202
13	Effects of salinity acclimation on Na ⁺ /K ⁺ -ATPase responses and FXD11 expression in the gills and kidneys of the Japanese eel (<i>Anguilla japonica</i>). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 163, 302-310.	1.8	43
14	Tight junctions, tight junction proteins and paracellular permeability across the gill epithelium of fishes: A review. Respiratory Physiology and Neurobiology, 2012, 184, 269-281.	1.6	173
15	Excretion of cesium and rubidium via the branchial potassium-transporting pathway in Mozambique tilapia. Fisheries Science, 2012, 78, 597-602.	1.6	26
16	Both seawater acclimation and environmental ammonia exposure lead to increases in mRNA expression and protein abundance of Na ⁺ :K ⁺ :2Cl ⁻ cotransporter in the gills of the climbing perch, <i>Anabas testudineus</i> . Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 491-506.	1.5	34
17	Cystic fibrosis transmembrane conductance regulator in the gills of the climbing perch, <i>Anabas testudineus</i> , is involved in both hypoosmotic regulation during seawater acclimation and active ammonia excretion during ammonia exposure. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 793-812.	1.5	20
18	Morphological and functional characterization of a novel Na ⁺ /K ⁺ -ATPase-immunoreactive, follicle-like structure on the gill septum of Japanese banded houndshark, <i>Triakis scyllium</i> . Cell and Tissue Research, 2012, 348, 141-153.	2.9	16

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19	Expression of aquaporin 3 in gills of the Atlantic killifish (<i>Fundulus heteroclitus</i>): Effects of seawater acclimation. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012, 161, 320-326.	1.8	44
20	Structures and immunolocalization of Na ⁺ , K ⁺ -ATPase, Na ⁺ /H ⁺ exchanger 3 and vacuolar-type H ⁺ -ATPase in the gills of blennies (Teleostei: Blenniidae) inhabiting rocky intertidal areas. <i>Journal of Fish Biology</i> , 2012, 80, 2236-2252.	1.6	11
21	A proteomics approach reveals divergent molecular responses to salinity in populations of European whitefish (<i>Coregonus lavaretus</i>). <i>Molecular Ecology</i> , 2012, 21, 3516-3530.	3.9	54
22	Ecological proteomics: Finding molecular markers that matter. <i>Molecular Ecology</i> , 2012, 21, 3382-3384.	3.9	11
23	Zebrafish as an animal model to study ion homeostasis. <i>Pflügers Archiv European Journal of Physiology</i> , 2013, 465, 1233-1247.	2.8	151
24	The effect of predator exposure and reproduction on oxidative stress parameters in the Catarina scallop <i>Argopecten ventricosus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013, 165, 89-96.	1.8	27
25	The skin of fish as a transport epithelium: a review. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013, 183, 877-891.	1.5	102
26	The ClC-3 chloride channel and osmoregulation in the European Sea Bass, <i>Dicentrarchus labrax</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013, 183, 641-662.	1.5	17
27	Transcriptomic and iTRAQ proteomic approaches reveal novel short-term hyperosmotic stress responsive proteins in the gill of the Japanese eel (<i>Anguilla japonica</i>). <i>Journal of Proteomics</i> , 2013, 89, 81-94.	2.4	47
28	CO ₂ -driven seawater acidification differentially affects development and molecular plasticity along life history of fish (<i>Oryzias latipes</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013, 165, 119-130.	1.8	71
29	Freshwater Acclimation Induces Stress Responses and Expression of Branchial Na ⁺ /K ⁺ -ATPase and Proliferating Cell Nuclear Antigen in <i>Takifugu niphobles</i> . <i>Journal of Experimental Zoology</i> , 2013, 319, 409-421.	1.2	10
30	Digestion in sea urchin larvae impaired under ocean acidification. <i>Nature Climate Change</i> , 2013, 3, 1044-1049.	18.8	126
31	Fish anesthesia: effects of the essential oils of <i>Hesperozygis ringens</i> and <i>Lippia alba</i> on the biochemistry and physiology of silver catfish (<i>Rhamdia quelen</i>). <i>Fish Physiology and Biochemistry</i> , 2014, 40, 701-14.	2.3	68
32	Development in a naturally acidified environment: Na ⁺ /H ⁺ -exchanger 3-based proton secretion leads to CO ₂ tolerance in cephalopod embryos. <i>Frontiers in Zoology</i> , 2013, 10, 51.	2.0	36
33	Compensatory regulation of Na ⁺ absorption by Na ⁺ /H ⁺ exchanger and Na ⁺ -Cl ⁻ cotransporter in zebrafish (<i>Danio rerio</i>). <i>Frontiers in Zoology</i> , 2013, 10, 46.	2.0	43
34	Cortisol promotes differentiation of epidermal ionocytes through Foxi3 transcription factors in zebrafish (<i>Danio rerio</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013, 164, 249-257.	1.8	50
35	Osmoregulatory response to low salinities in the European sea bass embryos: a multi-site approach. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013, 183, 83-97.	1.5	11
36	Evidence for a role of tight junctions in regulating sodium permeability in zebrafish (<i>Danio rerio</i>) acclimated to ion-poor water. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013, 183, 203-213.	1.5	26

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38	Effect of low pH exposure on Na ⁺ regulation in two cichlid fish species of the Amazon. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013, 166, 441-448.	1.8	38
39	Confocal scanning laser microscopy with complementary ^{3D} image analysis allows quantitative studies of functional state of ionoregulatory cells in the Nile tilapia (<i>Oreochromis niloticus</i>) following salinity challenge. <i>Microscopy Research and Technique</i> , 2013, 76, 412-418.	2.2	5
40	Structural differentiation of apical openings in active mitochondria-rich cells during early life stages of Nile tilapia (<i>Oreochromis niloticus</i> L.) as a response to osmotic challenge. <i>Fish Physiology and Biochemistry</i> , 2013, 39, 1101-1114.	2.3	3
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42	Proton-facilitated ammonia excretion by ionocytes of medaka (<i>Oryzias latipes</i>) acclimated to seawater. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R242-R251.	1.8	30
43	Characterization of Na ⁺ uptake in the endangered desert pupfish, <i>Cyprinodon macularius</i> (Baird and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		
44	Seawater acclimation and inositol monophosphatase isoform expression in the European eel (<i>Anguilla anguilla</i>) and Nile tilapia (<i>Oreochromis niloticus</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R369-R384.	1.8	13
45	Increases in apoptosis, caspase activity and expression of p53 and bax, and the transition between two types of mitochondrion-rich cells, in the gills of the climbing perch, <i>Anabas testudineus</i> , during a progressive acclimation from freshwater to seawater. <i>Frontiers in Physiology</i> , 2013, 4, 135.	2.8	74
46	Branchial Na ⁺ :K ⁺ :2Cl ⁻ cotransporter 1 and Na ⁺ /K ⁺ -ATPase α -subunit in a brackish water-type ionocyte of the euryhaline freshwater white-rimmed stingray, <i>Himantura signifer</i> . <i>Frontiers in Physiology</i> , 2013, 4, 362.	2.8	16
47	The tight junction protein claudin-b regulates epithelial permeability and sodium handling in larval zebrafish, <i>Danio rerio</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R504-R513.	1.8	37
48	Claudins in teleost fishes. <i>Tissue Barriers</i> , 2013, 1, e25391.	3.2	92
49	Close Association of Carbonic Anhydrase (CA2a and CA15a), Na ⁺ /H ⁺ Exchanger (Nhe3b), and Ammonia Transporter Rhcg1 in Zebrafish Ionocytes Responsible for Na ⁺ Uptake. <i>Frontiers in Physiology</i> , 2013, 4, 59.	2.8	56
50	Annotated genes and nonannotated genomes: cross-species use of Gene Ontology in ecology and evolution research. <i>Molecular Ecology</i> , 2013, 22, 3216-3241.	3.9	77
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53	Diverse mechanisms for body fluid regulation in teleost fishes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R778-R792.	1.8	100
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55	Lack of hormonal stimulation prevents the landlocked Biwa salmon (<i>Oncorhynchus masou</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 747 To Comparative Physiology, 2014, 307, R414-R425.	1.8	5
56	Functional roles of Na ⁺ /K ⁺ -ATPase in active ammonia excretion and seawater acclimation in the giant mudskipper, <i>Periophthalmodon schlosseri</i> . <i>Frontiers in Physiology</i> , 2014, 5, 158.	2.8	21
57	Gene expression and cellular localization of ROMKs in the gills and kidney of Mozambique tilapia acclimated to fresh water with high potassium concentration. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R1303-R1312.	1.8	18
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62	Discovery of osmotic sensitive transcription factors in fish intestine via a transcriptomic approach. <i>BMC Genomics</i> , 2014, 15, 1134.	2.8	43
63	Differential transcriptomic analyses revealed genes and signaling pathways involved in iono-osmoregulation and cellular remodeling in the gills of euryhaline Mozambique tilapia, <i>Oreochromis mossambicus</i> . <i>BMC Genomics</i> , 2014, 15, 921.	2.8	66
64	The role of osmotic stress transcription factor 1 in fishes. <i>Frontiers in Zoology</i> , 2014, 11, 86.	2.0	17
65	Î±-ENaC in bullfrog embryo: expression in cement gland, gills and skin. <i>Cell and Tissue Research</i> , 2014, 355, 103-109.	2.9	0
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71	A new model for fish ion regulation: identification of ionocytes in freshwater- and seawater-acclimated medaka (<i>Oryzias latipes</i>). <i>Cell and Tissue Research</i> , 2014, 357, 225-243.	2.9	105
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80	Prolactin 177, prolactin 188, and extracellular osmolality independently regulate the gene expression of ion transport effectors in gill of Mozambique tilapia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1251-R1263.	1.8	28
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82	Transcriptomic analysis reveals specific osmoregulatory adaptive responses in gill mitochondria-rich cells and pavement cells of the Japanese eel. <i>BMC Genomics</i> , 2015, 16, 1072.	2.8	28
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84	A Time Differential Staining Technique Coupled with Full Bilateral Gill Denervation to Study Ionocytes in Fish. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	1
85	Molecular Physiology of an Extra-renal Cl ⁻ Uptake Mechanism for Body Fluid Cl ⁻ Homeostasis. <i>International Journal of Biological Sciences</i> , 2015, 11, 1190-1203.	6.4	30
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87	Stanniocalcin-1 Controls Ion Regulation Functions of Ion-transporting Epithelium Other than Calcium Balance. <i>International Journal of Biological Sciences</i> , 2015, 11, 122-132.	6.4	33
88	Transcriptome Profiling and Molecular Pathway Analysis of Genes in Association with Salinity Adaptation in Nile Tilapia <i>Oreochromis niloticus</i> . <i>PLoS ONE</i> , 2015, 10, e0136506.	2.5	85
89	Aquaporin 1 Is Involved in Acid Secretion by Ionocytes of Zebrafish Embryos through Facilitating CO ₂ Transport. <i>PLoS ONE</i> , 2015, 10, e0136440.	2.5	20
90	Transcriptomic Analysis of Trout Gill Ionocytes in Fresh Water and Sea Water Using Laser Capture Microdissection Combined with Microarray Analysis. <i>PLoS ONE</i> , 2015, 10, e0139938.	2.5	25
91	Cortisol Regulates Acid Secretion of H ⁺ -ATPase-rich Ionocytes in Zebrafish (<i>Danio rerio</i>) Embryos. <i>Frontiers in Physiology</i> , 2015, 6, 328.	2.8	27

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92	Development of gas exchange and ion regulation in two species of air-breathing fish, <i>Betta splendens</i> and <i>Macropodus opercularis</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 185, 24-32.	1.8	3
93	Renin expression in developing zebrafish is associated with angiogenesis and requires the Notch pathway and endothelium. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F531-F539.	2.7	38
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96	Hypo-osmotic stress-induced physiological and ion-osmoregulatory responses in European sea bass (<i>Dicentrarchus labrax</i>) are modulated differentially by nutritional status. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 181, 87-99.	1.8	29
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104	Comparisons of two types of teleostean pseudobranchs, silver moony (<i>Monodactylus argenteus</i>) and tilapia (<i>Oreochromis mossambicus</i>), with salinity-dependent morphology and ion transporter expression. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2015, 185, 677-693.	1.5	6
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110	A role for transcription factor glial cell missing 2 in Ca ²⁺ homeostasis in zebrafish, <i>Danio rerio</i> . Pflugers Archiv European Journal of Physiology, 2015, 467, 753-765.	2.8	19
111	Hydrogen sulfide inhibits Na ⁺ uptake in larval zebrafish, <i>Danio rerio</i> . Pflugers Archiv European Journal of Physiology, 2015, 467, 651-664.	2.8	11
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113	The Control of Calcium Metabolism in Zebrafish (<i>Danio rerio</i>). International Journal of Molecular Sciences, 2016, 17, 1783.	4.1	50
114	Comparison of Integrated Responses to Nonlethal and Lethal Hypothermal Stress in Milkfish (<i>Chanos</i>) Tj ETQq0 0 0,rgBT /Overlock 10 T	2.5	17
115	Strong Ion Regulatory Abilities Enable the Crab <i>Xenograpsus testudinatus</i> to Inhabit Highly Acidified Marine Vent Systems. Frontiers in Physiology, 2016, 7, 14.	2.8	18
117	Responses to simulated winter conditions differ between threespine stickleback ecotypes. Molecular Ecology, 2016, 25, 764-775.	3.9	19
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119	A role for sodium-chloride cotransporters in the rapid regulation of ion uptake following acute environmental acidosis: new insights from the zebrafish model. American Journal of Physiology - Cell Physiology, 2016, 311, C931-C941.	4.6	17
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124	A Stenohaline Medaka, <i>Oryzias woworae</i> , Increases Expression of Gill Na ⁺ , K ⁺ -ATPase and Na ⁺ , K ⁺ , 2Cl ⁻ Cotransporter 1 to Tolerate Osmotic Stress. Zoological Science, 2016, 33, 414.	0.7	9
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134	Local adaptation to osmotic environment in killifish, <i>Fundulus heteroclitus</i> , is supported by divergence in swimming performance but not by differences in excess post-exercise oxygen consumption or aerobic scope. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016, 196, 11-19.	1.8	29
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