

# Shit Fun Chew

## List of Publications by Year in descending order

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173  
papers

4,424  
citations

101384

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54  
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173  
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173  
docs citations

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times ranked

2116  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonia production, excretion, toxicity, and defense in fish: a review. <i>Frontiers in Physiology</i> , 2010, 1, 134.	1.3	286
2	Nitrogen metabolism in the African lungfish ( <i>Protopterus dolloi</i> ) aestivating in a mucus cocoon on land. <i>Journal of Experimental Biology</i> , 2004, 207, 777-786.	0.8	116
3	Environmental ammonia exposure induces oxidative stress in gills and brain of <i>Boleophthalmus boddarti</i> (mudskipper). <i>Aquatic Toxicology</i> , 2009, 95, 203-212.	1.9	111
4	Title is missing!. <i>Fish Physiology and Biochemistry</i> , 1998, 19, 59-69.	0.9	91
5	Five Tropical Air-Breathing Fishes, Six Different Strategies to Defend against Ammonia Toxicity on Land. <i>Physiological and Biochemical Zoology</i> , 2004, 77, 768-782.	0.6	90
6	Excretory nitrogen metabolism and defence against ammonia toxicity in air-breathing fishes. <i>Journal of Fish Biology</i> , 2014, 84, 603-638.	0.7	82
7	Chronic and acute ammonia toxicity in mudskippers, <i>Periophthalmodon schlosseri</i> and <i>Boleophthalmus boddarti</i> : brain ammonia and glutamine contents, and effects of methionine sulfoximine and MK801. <i>Journal of Experimental Biology</i> , 2005, 208, 1993-2004.	0.8	77
8	Urea synthesis in the African lungfish <i>Protopterus dolloi</i> -hepatic carbamoyl phosphate synthetase III and glutamine synthetase are upregulated by 6 days of aerial exposure. <i>Journal of Experimental Biology</i> , 2003, 206, 3615-3624.	0.8	76
9	Strategies for Surviving High Concentrations of Environmental Ammonia in the Swamp Eel <i>Monopterus albus</i> . <i>Physiological and Biochemical Zoology</i> , 2004, 77, 390-405.	0.6	76
10	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.	1.3	74
11	The swamp eel <i>Monopterus albus</i> reduces endogenous ammonia production and detoxifies ammonia to glutamine during 144 h of aerial exposure. <i>Journal of Experimental Biology</i> , 2003, 206, 2473-2486.	0.8	70
12	The sleeper <i>Bostrichthys sinensis</i> (Family Eleotridae) stores glutamine and reduces ammonia production during aerial exposure. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2001, 171, 357-367.	0.7	68
13	The influence of feeding and fasting on plasma metabolites in the dogfish shark ( <i>Squalus acanthias</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2010, 155, 435-444.	0.8	67
14	Control of breathing in African lungfish ( <i>Protopterus dolloi</i> ): A comparison of aquatic and cocooned (terrestrialized) animals. <i>Respiratory Physiology and Neurobiology</i> , 2008, 160, 8-17.	0.7	66
15	The osmotic response of the Asian freshwater stingray ( <i>Himantura signifer</i> ) to increased salinity: a comparison with marine ( <i>Taeniura lymma</i> ) and Amazonian freshwater ( <i>Potamotrygon</i> ) Tj ETQq1 1 0.784314 rgBT / Overlock 13 Tf 50 17		
16	The Loach <i>Misgurnus anguillicaudatus</i> Reduces Amino Acid Catabolism and Accumulates Alanine and Glutamine during Aerial Exposure. <i>Physiological and Biochemical Zoology</i> , 2001, 74, 226-237.	0.6	60
17	Ornithine-urea cycle and urea synthesis in African lungfishes, <i>Protopterus aethiopicus</i> and <i>Protopterus annectens</i> , exposed to terrestrial conditions for six days. <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005, 303A, 354-365.	1.3	59
18	The giant mudskipper <i>Periophthalmodon schlosseri</i> facilitates active NH <sub>4</sub> <sup>+</sup> excretion by increasing acid excretion and decreasing NH <sub>3</sub> permeability in the skin. <i>Journal of Experimental Biology</i> , 2004, 207, 787-801.	0.8	58

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19	Nitrogen Metabolism and Excretion in the Swamp Eel, <i>Monopterus albus</i> , during 6 or 40 Days of Estivation in Mud. <i>Physiological and Biochemical Zoology</i> , 2005, 78, 620-629.	0.6	53
20	The Whitish Inner Mantle of the Giant Clam, <i>Tridacna squamosa</i> , Expresses an Apical Plasma Membrane Ca <sup>2+</sup> -ATPase (PMCA) Which Displays Light-Dependent Gene and Protein Expressions. <i>Frontiers in Physiology</i> , 2017, 8, 781.	1.3	51
21	Carbohydrate and amino acid metabolism in fasting and aestivating African lungfish ( <i>Protopterus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 2008, 151, 85-92.	0.8	49
22	Defences against ammonia toxicity in tropical air-breathing fishes exposed to high concentrations of environmental ammonia: a review. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2004, 174, 565-75.	0.7	48
23	Active ammonia transport and excretory nitrogen metabolism in the climbing perch, <i>Anabas testudineus</i> , during 4 days of emersion or 10 minutes of forced exercise on land. <i>Journal of Experimental Biology</i> , 2006, 209, 4475-4489.	0.8	47
24	Alkaline Environmental pH Has No Effect on Ammonia Excretion in the Mudskipper <i>Periophthalmodon schlosseri</i> but Inhibits Ammonia Excretion in the Related Species <i>Boleophthalmus boddarti</i> . <i>Physiological and Biochemical Zoology</i> , 2003, 76, 204-214.	0.6	46
25	African Sharptooth Catfish <i>Clarias gariepinus</i> Does Not Detoxify Ammonia to Urea or Amino Acids but Actively Excretes Ammonia during Exposure to Environmental Ammonia. <i>Physiological and Biochemical Zoology</i> , 2004, 77, 242-254.	0.6	45
26	Air-breathing and excretory nitrogen metabolism in fishes. <i>Acta Histochemica</i> , 2018, 120, 680-690.	0.9	45
27	The snakehead <i>Channa asiatica</i> accumulates alanine during aerial exposure, but is incapable of sustaining locomotory activities on land through partial amino acid catabolism. <i>Journal of Experimental Biology</i> , 2003, 206, 693-704.	0.8	44
28	An investigation of the role of carbonic anhydrase in aquatic and aerial gas transfer in the African lungfish <i>Protopterus dolloi</i> . <i>Journal of Experimental Biology</i> , 2005, 208, 3805-3815.	0.8	44
29	Circulating Catecholamines and Cardiorespiratory Responses in Hypoxic Lungfish ( <i>Protopterus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 2008, 151, 325-334.	0.6	43
30	Air Breathing and Ammonia Excretion in the Giant Mudskipper, <i>Periophthalmodon schlosseri</i> . <i>Physiological and Biochemical Zoology</i> , 2004, 77, 783-788.	0.6	41
31	Ammonia toxicity and tolerance in the brain of the African sharptooth catfish, <i>Clarias gariepinus</i> . <i>Aquatic Toxicology</i> , 2007, 82, 204-213.	1.9	41
32	Roles of three branchial Na <sup>+</sup> -K <sup>+</sup> -ATPase $\alpha$ -subunit isoforms in freshwater adaptation, seawater acclimation, and active ammonia excretion in <i>Anabas testudineus</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R112-R125.	0.9	41
33	Greatly Elevated Urea Excretion after Air Exposure Appears to Be Carrier Mediated in the Slender Lungfish ( <i>Protopterus dolloi</i> ). <i>Physiological and Biochemical Zoology</i> , 2005, 78, 893-907.	0.6	40
34	A light-dependent ammonia-assimilating mechanism in the ctenidia of a giant clam. <i>Coral Reefs</i> , 2017, 36, 311-323.	0.9	40
35	Carbonic anhydrase $\alpha$ -like in the giant clam, <i>Tridacna squamosa</i> : characterization, localization, response to light, and possible role in the transport of inorganic carbon from the host to its symbionts. <i>Physiological Reports</i> , 2017, 5, e13494.	0.7	40
36	Differential gene expression in the liver of the African lungfish, <i>Protopterus annectens</i> , after 6 days of estivation in air. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2012, 182, 231-245.	0.7	39

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37	Increased urea synthesis and/or suppressed ammonia production in the African lungfish, <i>Protopterus annectens</i> , during aestivation in air or mud. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 351-363.	0.7	38
38	The interplay of increased urea synthesis and reduced ammonia production in the African lungfish <i>Protopterus aethiopicus</i> during 46 days of aestivation in a mucus cocoon. <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005, 303A, 1054-1065.	1.3	37
39	Light Induces an Increase in the pH of and a Decrease in the Ammonia Concentration in the Extrapallial Fluid of the Giant Clam <i>Tridacna squamosa</i> . <i>Physiological and Biochemical Zoology</i> , 2006, 79, 656-664.	0.6	37
40	Lipid, ketone body and oxidative metabolism in the African lungfish, <i>Protopterus dolloi</i> following 60 days of fasting and aestivation. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2008, 151, 93-101.	0.8	37
41	Light induces changes in activities of Na <sup>+</sup> /K <sup>+</sup> -ATPase, H <sup>+</sup> /K <sup>+</sup> -ATPase and glutamine synthetase in tissues involved directly or indirectly in light-enhanced calcification in the giant clam, <i>Tridacna squamosa</i> . <i>Frontiers in Physiology</i> , 2015, 6, 68.	1.3	37
42	Changes in tissue free amino acid contents, branchial Na <sup>+</sup> /K <sup>+</sup> -ATPase activity and bimodal breathing pattern in the freshwater climbing perch, <i>Anabas testudineus</i> (Bloch), during seawater acclimation. <i>Journal of Experimental Zoology</i> , 2007, 307A, 708-723.	1.2	36
43	Light-dependent expression of a Na <sup>+</sup> /H <sup>+</sup> exchanger 3-like transporter in the ctenidium of the giant clam, <i>Tridacna squamosa</i> , can be related to increased H <sup>+</sup> excretion during light-enhanced calcification. <i>Physiological Reports</i> , 2017, 5, e13209.	0.7	35
44	Both seawater acclimation and environmental ammonia exposure lead to increases in mRNA expression and protein abundance of Na <sup>+</sup> :K <sup>+</sup> :2Cl <sup>-</sup> cotransporter in the gills of the climbing perch, <i>Anabas testudineus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2012, 182, 491-506.	0.7	34
45	Molecular characterization, light-dependent expression, and cellular localization of a host vacuolar-type H <sup>+</sup> -ATPase (VHA) subunit A in the giant clam, <i>Tridacna squamosa</i> , indicate the involvement of the host VHA in the uptake of inorganic carbon and its supply to the symbiotic zooxanthellae. <i>Gene</i> , 2018, 659, 137-148.	1.0	34
46	Nitrogen Excretion And Defense Against Ammonia Toxicity. <i>Fish Physiology</i> , 2005, 21, 307-395.	0.2	33
47	Active Ammonia excretion in the giant mudskipper, <i>Periophthalmodon schlosseri</i> (Pallas), during emersion. <i>Journal of Experimental Zoology</i> , 2007, 307A, 357-369.	1.2	33
48	Light-enhanced expression of Carbonic Anhydrase 4-like supports shell formation in the fluted giant clam <i>Tridacna squamosa</i> . <i>Gene</i> , 2019, 683, 101-112.	1.0	31
49	Nitrogen Metabolism and Excretion During Aestivation. <i>Progress in Molecular and Subcellular Biology</i> , 2010, 49, 63-94.	0.9	30
50	Signal molecule changes in the gills and lungs of the African lungfish <i>Protopterus annectens</i> , during the maintenance and arousal phases of aestivation. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 44, 71-80.	1.2	30
51	Light exposure enhances urea absorption in the fluted giant clam, <i>Tridacna squamosa</i> , and up-regulates the protein abundance of a light-dependent urea active transporter, DUR3-like, in its ctenidium. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	30
52	Dogmas and controversies in the handling of nitrogenous wastes: Ammonia tolerance in the oriental weatherloach <i>Misgurnus anguillicaudatus</i> . <i>Journal of Experimental Biology</i> , 2004, 207, 1977-1983.	0.8	29
53	Mechanisms of acid-base regulation in the African lungfish <i>Protopterus annectens</i> . <i>Journal of Experimental Biology</i> , 2007, 210, 1944-1959.	0.8	29
54	Molecular characterization and mRNA expression of carbamoyl phosphate synthetase III in the liver of the African lungfish, <i>Protopterus annectens</i> , during aestivation or exposure to ammonia. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2012, 182, 367-379.	0.7	29

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55	The African Lungfish, <i>Protopterus dolloi</i> , Detoxifies Ammonia to Urea during Environmental Ammonia Exposure. <i>Physiological and Biochemical Zoology</i> , 2005, 78, 31-39.	0.6	28
56	Strategies Adopted by the Mudskipper <i>Boleophthalmus boddarti</i> to Survive Sulfide Exposure in Normoxia or Hypoxia. <i>Physiological and Biochemical Zoology</i> , 2004, 77, 824-837.	0.6	27
57	Glutamine accumulation and up-regulation of glutamine synthetase activity in the swamp eel, <i>Monopterus albus</i> (Zuiew), exposed to brackish water. <i>Journal of Experimental Biology</i> , 2009, 212, 1248-1258.	0.8	27
58	The freshwater Amazonian stingray, <i>Potamotrygon motoro</i> , up-regulates glutamine synthetase activity and protein abundance, and accumulates glutamine when exposed to brackish (15‰) water. <i>Journal of Experimental Biology</i> , 2009, 212, 3828-3836.	0.8	26
59	Postprandial increases in nitrogenous excretion and urea synthesis in the giant mudskipper <i>Periophthalmodon schlosseri</i> . <i>Journal of Experimental Biology</i> , 2004, 207, 3015-3023.	0.8	25
60	Nitric oxide synthase-dependent On/Off-switch and apoptosis in freshwater and aestivating lungfish, <i>Protopterus annectens</i> : Skeletal muscle versus cardiac muscle. <i>Nitric Oxide - Biology and Chemistry</i> , 2013, 32, 1-12.	1.2	25
61	The inner mantle of the giant clam, <i>Tridacna squamosa</i> , expresses a basolateral Na <sup>+</sup> /K <sup>+</sup> -ATPase $\alpha$ -subunit, which displays light-dependent gene and protein expression along the shell-facing epithelium. <i>PLoS ONE</i> , 2017, 12, e0186865.	1.1	25
62	Molecular Characterization of a Dual Domain Carbonic Anhydrase From the Ctenidium of the Giant Clam, <i>Tridacna squamosa</i> , and Its Expression Levels After Light Exposure, Cellular Localization, and Possible Role in the Uptake of Exogenous Inorganic Carbon. <i>Frontiers in Physiology</i> , 2018, 9, 281.	1.3	25
63	Defense against environmental ammonia toxicity in the African lungfish, <i>Protopterus aethiopicus</i> : Bimodal breathing, skin ammonia permeability and urea synthesis. <i>Aquatic Toxicology</i> , 2007, 85, 76-86.	1.9	24
64	Effects of hypoxia on the energy status and nitrogen metabolism of African lungfish during aestivation in a mucus cocoon. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 853-865.	0.7	24
65	Biochemical adaptations of the mudskipper <i>Boleophthalmus boddarti</i> to a lack of oxygen. <i>Marine Biology</i> , 1992, 112, 567-571.	0.7	23
66	Increases in urea synthesis and the ornithine-urea cycle capacity in the giant African snail, <i>Achatina fulica</i> , during fasting or aestivation, or after the injection with ammonium chloride. <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005, 303A, 1040-1053.	1.3	23
67	Postprandial nitrogen metabolism and excretion in juvenile marble goby, <i>Oxyeleotris marmorata</i> (Bleeker, 1852). <i>Aquaculture</i> , 2008, 284, 260-267.	1.7	23
68	Roles of intestinal glutamate dehydrogenase and glutamine synthetase in environmental ammonia detoxification in the euryhaline four-eyed sleeper, <i>Bostrychus sinensis</i> . <i>Aquatic Toxicology</i> , 2010, 98, 91-98.	1.9	23
69	Exposure to brackish water, upon feeding, leads to enhanced conservation of nitrogen and increased urea synthesis and retention in the Asian freshwater stingray <i>Himantura signifer</i> . <i>Journal of Experimental Biology</i> , 2006, 209, 484-492.	0.8	22
70	Upregulation of intracellular antioxidant enzymes in brain and heart during estivation in the African lungfish <i>Protopterus dolloi</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 361-369.	0.7	22
71	Nitrogen metabolism and excretion in the aquatic chinese soft-shelled turtle, <i>Pelodiscus sinensis</i> , exposed to a progressive increase in ambient salinity. <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2006, 305A, 995-1009.	1.3	21
72	Nitrogen metabolism and branchial osmoregulatory acclimation in the juvenile marble goby, <i>Oxyeleotris marmorata</i> , exposed to seawater. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 154, 360-369.	0.8	21

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73	Functional roles of Na <sup>+</sup> /K <sup>+</sup> -ATPase in active ammonia excretion and seawater acclimation in the giant mudskipper, <i>Periophthalmodon schlosseri</i> . <i>Frontiers in Physiology</i> , 2014, 5, 158.	1.3	21
74	Molecular Characterization of Branchial aquaporin 1aa and Effects of Seawater Acclimation, Emersion or Ammonia Exposure on Its mRNA Expression in the Gills, Gut, Kidney and Skin of the Freshwater Climbing Perch, <i>Anabas testudineus</i> . <i>PLoS ONE</i> , 2013, 8, e61163.	1.1	21
75	Changes in salinity and ionic compositions can act as environmental signals to induce a reduction in ammonia production in the African lungfish <i>Protopterus dolloi</i> . <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005, 303A, 456-463.	1.3	20
76	Effects of intra-peritoneal injection with NH <sub>4</sub> Cl, urea, or NH <sub>4</sub> Cl+urea on nitrogen excretion and metabolism in the African lungfish <i>Protopterus dolloi</i> . <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005, 303A, 272-282.	1.3	20
77	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. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2012, 182, 793-812.	0.7	20
78	Differential Gene Expression in the Brain of the African Lungfish, <i>Protopterus annectens</i> , after Six Days or Six Months of Aestivation in Air. <i>PLoS ONE</i> , 2013, 8, e71205.	1.1	20
79	Phototrophic potential and form II ribulose-1,5-bisphosphate carboxylase/oxygenase expression in five organs of the fluted giant clam, <i>Tridacna squamosa</i> . <i>Coral Reefs</i> , 2020, 39, 361-374.	0.9	20
80	Can the mudskipper, <i>Periophthalmus chrysospilos</i> , tolerate acute environmental hypoxic exposure?. <i>Fish Physiology and Biochemistry</i> , 1990, 8, 221-227.	0.9	19
81	A comparison of the effects of environmental ammonia exposure on the Asian freshwater stingray <i>Himantura signifer</i> and the Amazonian freshwater stingray <i>Potamotrygon motoro</i> . <i>Journal of Experimental Biology</i> , 2003, 206, 3625-3633.	0.8	19
82	Exposure to air, but not seawater, increases the glutamine content and the glutamine synthetase activity in the marsh clam <i>Polymesoda expansa</i> . <i>Journal of Experimental Biology</i> , 2004, 207, 4605-4614.	0.8	19
83	The fluted giant clam ( <i>Tridacna squamosa</i> ) increases nitrate absorption and upregulates the expression of a homolog of SIALIN (H <sup>+</sup> :2NO <sub>3</sub> <sup>-</sup> cotransporter) in the ctenidium during light exposure. <i>Coral Reefs</i> , 2020, 39, 451-465.	0.9	19
84	Intestinal osmoregulatory acclimation and nitrogen metabolism in juveniles of the freshwater marble goby exposed to seawater. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 511-520.	0.7	18
85	Cytochrome c oxidase is regulated by modulations in protein expression and mitochondrial membrane phospholipid composition in estivating African lungfish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 298, R608-R616.	0.9	18
86	Light-Dependent Phenomena and Related Molecular Mechanisms in Giant Clam-Dinoflagellate Associations: A Review. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	18
87	Molecular characterization of argininosuccinate synthase and argininosuccinate lyase from the liver of the African lungfish <i>Protopterus annectens</i> , and their mRNA expression levels in the liver, kidney, brain and skeletal muscle during aestivation. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2014, 184, 835-853.	0.7	17
88	Regulation of lactone oxidase expression and vitamin C synthesis in the brain and kidney of the African lungfish, <i>Protopterus annectens</i> . <i>FASEB Journal</i> , 2014, 28, 3506-3517.	0.2	17
89	Differences in the responses of two mudskippers, <i>Boleophthalmus boddarti</i> and <i>Periophthalmus chrysospilos</i> to changes in salinity. <i>The Journal of Experimental Zoology</i> , 1990, 256, 227-231.	1.4	16
90	Effects of peritoneal injection of NH <sub>4</sub> HCO <sub>3</sub> on nitrogen excretion and metabolism in the swamp eel <i>Monopterus albus</i> ? increased ammonia excretion with an induction of glutamine synthetase activity. <i>The Journal of Experimental Zoology</i> , 2004, 301A, 324-333.	1.4	16

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91	Aestivation and hypoxia-related events share common silent neuron trafficking processes. <i>BMC Neuroscience</i> , 2012, 13, 39.	0.8	16
92	Branchial Na <sup>+</sup> :K <sup>+</sup> :2Cl <sup>-</sup> cotransporter 1 and Na <sup>+</sup> /K <sup>+</sup> -ATPase $\beta$ -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.	1.3	16
93	Aestivation Induces Changes in the mRNA Expression Levels and Protein Abundance of Two Isoforms of Urea Transporters in the Gills of the African Lungfish, <i>Protopterus annectens</i> . <i>Frontiers in Physiology</i> , 2017, 8, 71.	1.3	16
94	Molecular characterization of a novel algal glutamine synthetase (GS) and an algal glutamate synthase (GOGAT) from the colorful outer mantle of the giant clam, <i>Tridacna squamosa</i> , and the putative GS-GOGAT cycle in its symbiotic zooxanthellae. <i>Gene</i> , 2018, 656, 40-52.	1.0	16
95	Na <sup>+</sup> /K <sup>+</sup> -ATPase $\beta$ -subunit ( $\beta$ ) Isoforms and Their mRNA Expression Levels, Overall $\beta$ Protein Abundance, and Kinetic Properties of $\beta$ in the Skeletal Muscle and Three Electric Organs of the Electric Eel, <i>Electrophorus electricus</i> . <i>PLoS ONE</i> , 2015, 10, e0118352.	1.1	16
96	Effects of hypoxia on the mudskipper, <i>Periophthalmus chrysospilos</i> (Bleeker, 1853). <i>Journal of Fish Biology</i> , 1991, 38, 621-623.	0.7	15
97	Cyanide detoxification in the mudskipper, <i>Boleophthalmus boddarti</i> . <i>The Journal of Experimental Zoology</i> , 1992, 261, 1-8.	1.4	15
98	The ammonotelic African lungfish, <i>Protopterus dolloi</i> , increases the rate of urea synthesis and becomes ureotelic after feeding. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2004, 174, 555-64.	0.7	15
99	The ctenidium of the giant clam, <i>Tridacna squamosa</i> , expresses an ammonium transporter 1 that displays light-suppressed gene and protein expression and may be involved in ammonia excretion. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2018, 188, 765-777.	0.7	15
100	Nitrogen metabolism and excretion in <i>Allenbatrachus grunniens</i> (L): effects of variable salinity, confinement, high pH and ammonia loading. <i>Journal of Fish Biology</i> , 2004, 65, 1392-1411.	0.7	14
101	Ammonia exposure increases the expression of Na <sup>+</sup> :K <sup>+</sup> :2Cl <sup>-</sup> cotransporter 1a in the gills of the giant mudskipper, <i>Periophthalmodon schlosseri</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2015, 185, 57-72.	0.7	14
102	Molecular Characterization of Aquaporin 1 and Aquaporin 3 from the Gills of the African Lungfish, <i>Protopterus annectens</i> , and Changes in Their Branchial mRNA Expression Levels and Protein Abundance during Three Phases of Aestivation. <i>Frontiers in Physiology</i> , 2016, 7, 532.	1.3	14
103	With illumination, the fluted giant clam, <i>Tridacna squamosa</i> , upregulates the protein abundance of an apical Na <sup>+</sup> : glucose cotransporter 1 homolog in its ctenidium, and increases exogenous glucose absorption that can be impeded by urea. <i>Journal of Experimental Biology</i> , 2019, 222,	0.8	14
104	Postprandial increases in nitrogenous excretion and urea synthesis in the Chinese soft-shelled turtle, <i>Pelodiscus sinensis</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2006, 177, 19-29.	0.7	13
105	Acute ammonia toxicity and the protective effects of methionine sulfoximine on the swamp eel, <i>Monopterus albus</i> . <i>Journal of Experimental Zoology</i> , 2009, 311A, 676-688.	1.2	13
106	Branchial and intestinal osmoregulatory acclimation in the four-eyed sleeper, <i>Bostrychus sinensis</i> (Lacepède), exposed to seawater. <i>Marine Biology</i> , 2009, 156, 1751-1764.	0.7	13
107	Differential Gene Expression in the Liver of the African Lungfish, <i>Protopterus annectens</i> , after 6 Months of Aestivation in Air or 1 Day of Arousal from 6 Months of Aestivation. <i>PLoS ONE</i> , 2015, 10, e0121224.	1.1	13
108	Calcium absorption in the fluted giant clam, <i>Tridacna squamosa</i> , may involve a homolog of voltage-gated calcium channel subunit $\beta$ 1 (CACNA1) that has an apical localization and displays light-enhanced protein expression in the ctenidium. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2019, 189, 693-706.	0.7	13

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110	The African Sharptooth Catfish <i>Clarias gariepinus</i> Can Tolerate High Levels of Ammonia in Its Tissues and Organs during Four Days of Aerial Exposure. <i>Physiological and Biochemical Zoology</i> , 2005, 78, 630-640.	0.6	12
111	Ascorbate synthesis in fishes: A review. <i>IUBMB Life</i> , 2015, 67, 69-76.	1.5	12
112	Molecular characterization of betaine-homocysteine methyltransferase 1 from the liver, and effects of aestivation on its expressions and homocysteine concentrations in the liver, kidney and muscle, of the African lungfish, <i>Protopterus annectens</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015, 183, 30-41.	0.7	12
113	Mechanisms of and defense against acute ammonia toxicity in the aquatic Chinese soft-shelled turtle, <i>Pelodiscus sinensis</i> . <i>Aquatic Toxicology</i> , 2008, 86, 185-196.	1.9	11
114	The Chinese soft-shelled turtle, <i>Pelodiscus sinensis</i> , excretes urea mainly through the mouth instead of the kidney. <i>Journal of Experimental Biology</i> , 2012, 215, 3723-3733.	0.8	11
115	Ascorbic Acid Biosynthesis and Brackish Water Acclimation in the Euryhaline Freshwater White-Rimmed Stingray, <i>Himantura signifer</i> . <i>PLoS ONE</i> , 2013, 8, e66691.	1.1	11
116	Shell formation in the giant clam, <i>Tridacna squamosa</i> , may involve an apical Na <sup>+</sup> /Ca <sup>2+</sup> exchanger 3 homolog in the shell-facing epithelium of the whitish inner mantle, which displays light-enhanced gene and protein expression. <i>Coral Reefs</i> , 2019, 38, 1173-1186.	0.9	11
117	High Brain Ammonia Tolerance and Down-Regulation of Na <sup>+</sup> :K <sup>+</sup> :2Cl <sup>-</sup> Cotransporter 1b mRNA and Protein Expression in the Brain of the Swamp Eel, <i>Monopterus albus</i> , Exposed to Environmental Ammonia or Terrestrial Conditions. <i>PLoS ONE</i> , 2013, 8, e69512.	1.1	11
118	Detoxification of environmental sulfide to sulfane sulfur in the intertidal sipunculid <i>Phascolosoma arcuatum</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1997, 167, 213-220.	0.7	10
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122	Molecular characterization, cellular localization, and light-enhanced expression of Beta-Na <sup>+</sup> /H <sup>+</sup> Exchanger-like in the whitish inner mantle of the giant clam, <i>Tridacna squamosa</i> , denote its role in light-enhanced shell formation. <i>Gene</i> , 2019, 695, 101-112.	1.0	10
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131	Using form II ribulose-1,5-bisphosphate carboxylase/oxygenase to estimate the phototrophic potentials of Symbiodinium, Cladocopium and Durusdinium in various organs of the fluted giant clam, <i>Tridacna squamosa</i> , and to evaluate their responses to light upon isolation from the host. <i>Coral Reefs</i> , 2021, 40, 233-250.	0.9	9
132	Effects of anoxia on the activities of pyruvate kinase and phosphoenolpyruvate carboxykinase, and the production of lactate and succinate in the intertidal pulmonate <i>Onchidium tumidium</i> . <i>Marine Biology</i> , 1993, 116, 103-107.	0.7	8
133	Free amino acids and osmoregulation in the intertidal pulmonate <i>Onchidium tumidium</i> . <i>Marine Biology</i> , 1999, 134, 735-741.	0.7	8
134	Lungfish aestivating activities are locked in distinct encephalic $\beta$ -aminobutyric acid type A receptor subunits. <i>Journal of Neuroscience Research</i> , 2011, 89, 418-428.	1.3	8
135	The colorful mantle of the giant clam, <i>Tridacna squamosa</i> , expresses a light-dependent manganese superoxide dismutase to ameliorate oxidative stresses due to its symbiotic association with zooxanthellae. <i>Coral Reefs</i> , 2018, 37, 1039-1051.	0.9	8
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137	Excretory nitrogen metabolism in the Chinese fire-belly newt <i>Cynops orientalis</i> in water, on land, or in high concentrations of environmental ammonia. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2004, 174, 113-120.	0.7	7
138	Ammonia tolerance in the slender lungfish ( <i>Protopterus dolloi</i> ): the importance of environmental acidification. <i>Canadian Journal of Zoology</i> , 2005, 83, 507-517.	0.4	7
139	Illumination enhances the protein abundance of sarcoplasmic reticulum Ca <sup>2+</sup> -ATPases-like transporter in the ctenidium and whitish inner mantle of the giant clam, <i>Tridacna squamosa</i> , to augment exogenous Ca <sup>2+</sup> uptake and shell formation, respectively. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2021, 251, 110811.	0.8	7
140	Using glutamine synthetase 1 to evaluate the symbionts' potential of ammonia assimilation and their responses to illumination in five organs of the giant clam, <i>Tridacna squamosa</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2021, 255, 110914.	0.8	7
141	Voltage-Gated Na <sup>+</sup> Channel Isoforms and Their mRNA Expression Levels and Protein Abundance in Three Electric Organs and the Skeletal Muscle of the Electric Eel <i>Electrophorus electricus</i> . <i>PLoS ONE</i> , 2016, 11, e0167589.	1.1	7
142	Effects of environmental anoxia on concentrations of free amino acids and kinetic properties of glutamate dehydrogenase in three body parts of <i>Phascolosoma arcuatum</i> (Sipuncula). <i>Journal of Experimental Marine Biology and Ecology</i> , 1992, 165, 125-132.	0.7	6
143	Ammonia production and kinetic properties of glutamate dehydrogenase in the sipunculid <i>Phascolosoma arcuatum</i> exposed to anoxia. <i>Marine Biology</i> , 1994, 119, 261-266.	0.7	6
144	The Chinese soft-shelled turtle, <i>Pelodiscus sinensis</i> , decreases nitrogenous excretion, reduces urea synthesis and suppresses ammonia production during emersion. <i>Journal of Experimental Biology</i> , 2013, 216, 1650-7.	0.8	6

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146	Molecular characterization of three Rhesus glycoproteins from the gills of the African lungfish, <i>Protopterus annectens</i> , and effects of aestivation on their mRNA expression levels and protein abundance. <i>PLoS ONE</i> , 2017, 12, e0185814.	1.1	6
147	Ammoniogenesis in mudskippers <i>Boleophthalmus boddarti</i> and <i>Periophthalmodon schlosseri</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1987, 87, 941-948.	0.2	5
148	Ammonia exposure affects the mRNA and protein expression levels of certain Rhesus glycoproteins in the gills of climbing perch. <i>Journal of Experimental Biology</i> , 2017, 220, 2916-2931.	0.8	5
149	Differences in electrophoretic patterns of lactate dehydrogenases from the gills, hearts and muscles of three mudskippers. <i>Journal of Fish Biology</i> , 1992, 40, 975-977.	0.7	4
150	Differences in the responses between tissues of the body wall and the internal organs of <i>Phascolosoma arcuatum</i> (Sipuncula) to changes in salinity. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1994, 107, 141-147.	0.7	4
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154	Using Transcript Levels of Nitrate Transporter 2 as Molecular Indicators to Estimate the Potentials of Nitrate Transport in <i>Symbiodinium</i> , <i>Cladocopium</i> , and <i>Durusdinium</i> of the Fluted Giant Clam, <i>Tridacna squamosa</i> . <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	4
155	Symbiotic Dinoflagellates of the Giant Clam, <i>Tridacna squamosa</i> , Express Ammonium Transporter 2 at the Plasma Membrane and Increase Its Expression Levels During Illumination. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	4
156	Intermediary metabolism in mudskippers, <i>Periophthalmodon schlosseri</i> and <i>Boleophthalmus boddarti</i> , during immersion or emersion. <i>Canadian Journal of Zoology</i> , 2006, 84, 981-991.	0.4	3
157	The fluted giant clam ( <i>Tridacna squamosa</i> ) increases the protein abundance of the host's copper-zinc superoxide dismutase in the colorful outer mantle, but not the whitish inner mantle, during light exposure. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2020, 250, 110791.	0.8	3
158	Transepithelial absorption of exogenous inorganic carbon in the ctenidium of the giant clam, <i>Tridacna squamosa</i> involves a basolateral electrogenic Na <sup>+</sup> â€“HCO <sub>3</sub> <sup>âˆ’</sup> cotransporter 1 that displays light-enhanced gene and protein expression levels. <i>Coral Reefs</i> , 2021, 40, 1849-1865.	0.9	3
159	Molecular characterization, cellular localization and light-dependent expression of dinoflagellate vacuolar-type H <sup>+</sup> -ATPase (VHA) subunit B in the colourful outer mantle of the giant clam, <i>Tridacna squamosa</i> , indicate the involvement of VHA in CO <sub>2</sub> uptake in the photosynthesizing symbionts. <i>Plant Gene</i> , 2021, 28, 100328.	1.4	3
160	The colorful mantle of the giant clam <i>Tridacna squamosa</i> expresses a homolog of electrogenic sodium: Bicarbonate cotransporter 2 that mediates the supply of inorganic carbon to photosynthesizing symbionts. <i>PLoS ONE</i> , 2021, 16, e0258519.	1.1	3
161	Sodium-Dependent Phosphate Transporter Protein 1 Is Involved in the Active Uptake of Inorganic Phosphate in Nephrocytes of the Kidney and the Translocation of Pi Into the Tubular Epithelial Cells in the Outer Mantle of the Giant Clam, <i>Tridacna squamosa</i> . <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	2
162	The giant clam <i>Tridacna squamosa</i> quickly regenerates iridocytes and restores symbiont quantity and phototrophic potential to above-control levels in the outer mantle after darkness-induced bleaching. <i>Coral Reefs</i> , 2022, 41, 35-51.	0.9	2

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164	Distribution of Pyruvate Oxidoreductases in Three Body Parts of the Intertidal Sipunculid, <i>Phascolosoma arcuatum</i> . <i>Zoological Science</i> , 1997, 14, 239-242.	0.3	1
165	Cyanide exposure affects the production and excretion of ammonia by the mudskipper <i>Boleophthalmus boddarti</i> . <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1998, 120, 441-448.	0.5	1
166	L-Cysteine is a Competitive Inhibitor of Pyruvate Kinase from the Intertidal Sipunculan, <i>Phascolosoma arcuatum</i> . <i>Zoological Science</i> , 2000, 17, 717-723.	0.3	1
167	Effects of seawater acclimation on two Na <sup>+</sup> /K <sup>+</sup> -ATPase $\alpha$ -subunit isoforms in the gills of the marble goby, <i>Oxyeleotris marmorata</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2021, 253, 110853.	0.8	1
168	Molecular characterization, immunofluorescent localization, and expression levels of two bicarbonate anion transporters in the whitish mantle of the giant clam, <i>Tridacna squamosa</i> , and the implications for light-enhanced shell formation. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2022, 268, 111200.	0.8	1
169	Symbiotic dinoflagellates of the giant clam, <i>Tridacna squamosa</i> , express an extracellular alpha carbonic anhydrase associated with the plasma membrane to promote HCO <sub>3</sub> <sup>-</sup> dehydration and CO <sub>2</sub> uptake during illumination. <i>Coral Reefs</i> , 0, , .	0.9	1
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171	The influence of feeding and fasting on plasma metabolites in the dogfish shark ( <i>Squalus acanthias</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, S66-S67.	0.8	0
172	Basolateral Na <sup>+</sup> /Ca <sup>2+</sup> exchanger 1 and Na <sup>+</sup> /K <sup>+</sup> -ATPase, which display light-enhanced gene and protein expression levels, could be involved in the absorption of exogenous Ca <sup>2+</sup> through the ctenidium of the giant clam, <i>Tridacna squamosa</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2021, 259, 110997.	0.8	0
173	Molecular characterization and light-dependent expression of glycerol facilitator (GlpF) in coccoid Symbiodiniaceae dinoflagellates of the giant clam <i>Tridacna squamosa</i> . <i>Gene Reports</i> , 2022, 27, 101623.	0.4	0