

Angela Fago

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137
papers

5,091
citations

39
h-index

66
g-index

151
ext. papers

5,856
ext. citations

4.6
avg, IF

5.56
L-index

#	Paper	IF	Citations
137	Neuroglobin and cytoglobin in search of their role in the vertebrate globin family. <i>Journal of Inorganic Biochemistry</i> , 2005 , 99, 110-9	4.2	249
136	Reactivity studies of the Fe(III) and Fe(II)NO forms of human neuroglobin reveal a potential role against oxidative stress. <i>Journal of Biological Chemistry</i> , 2004 , 279, 22841-7	5.4	213
135	Evolutionary and functional insights into the mechanism underlying high-altitude adaptation of deer mouse hemoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14450-5	11.5	167
134	Generation of nitric oxide from nitrite by carbonic anhydrase: a possible link between metabolic activity and vasodilation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 297, H2068-74	5.2	160
133	Allosteric regulation and temperature dependence of oxygen binding in human neuroglobin and cytoglobin. Molecular mechanisms and physiological significance. <i>Journal of Biological Chemistry</i> , 2004 , 279, 44417-26	5.4	146
132	Predictable convergence in hemoglobin function has unpredictable molecular underpinnings. <i>Science</i> , 2016 , 354, 336-339	33.3	140
131	Epistasis among adaptive mutations in deer mouse hemoglobin. <i>Science</i> , 2013 , 340, 1324-7	33.3	139
130	Reactions of ferrous neuroglobin and cytoglobin with nitrite under anaerobic conditions. <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 1777-82	4.2	128
129	Repeated elevational transitions in hemoglobin function during the evolution of Andean hummingbirds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20669-74	11.5	112
128	The reaction of neuroglobin with potential redox protein partners cytochrome b5 and cytochrome c. <i>FEBS Letters</i> , 2006 , 580, 4884-8	3.8	112
127	Genetic differences in hemoglobin function between highland and lowland deer mice. <i>Journal of Experimental Biology</i> , 2010 , 213, 2565-74	3	106
126	Functional adaptation and its molecular basis in vertebrate hemoglobins, neuroglobins and cytoglobins. <i>Respiratory Physiology and Neurobiology</i> , 2004 , 144, 141-59	2.8	104
125	Nitrite-dependent vasodilation is facilitated by hypoxia and is independent of known NO-generating nitrite reductase activities. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H3072-8	5.2	95
124	Epistasis constrains mutational pathways of hemoglobin adaptation in high-altitude pikas. <i>Molecular Biology and Evolution</i> , 2015 , 32, 287-98	8.3	78
123	Deer mouse hemoglobin exhibits a lowered oxygen affinity owing to mobility of the E helix. Corrigendum. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013 , 69, 710-710		78
122	Functional properties of neuroglobin and cytoglobin. Insights into the ancestral physiological roles of globins. <i>IUBMB Life</i> , 2004 , 56, 689-96	4.7	78
121	Convergent Evolution of Hemoglobin Function in High-Altitude Andean Waterfowl Involves Limited Parallelism at the Molecular Sequence Level. <i>PLoS Genetics</i> , 2015 , 11, e1005681	6	76

120	Intraspecific polymorphism, interspecific divergence, and the origins of function-altering mutations in deer mouse hemoglobin. <i>Molecular Biology and Evolution</i> , 2015 , 32, 978-97	8.3	73
119	Reactions of peroxyxynitrite with globin proteins and their possible physiological role. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2005 , 142, 124-9	2.6	66
118	Contribution of a mutational hot spot to hemoglobin adaptation in high-altitude Andean house wrens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13958-63	11.5	60
117	Modulation of red cell glycolysis: interactions between vertebrate hemoglobins and cytoplasmic domains of band 3 red cell membrane proteins. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 287, R454-64	3.2	58
116	A role for neuroglobin: resetting the trigger level for apoptosis in neuronal and retinal cells. <i>IUBMB Life</i> , 2008 , 60, 398-401	4.7	56
115	Integrating evolutionary and functional tests of adaptive hypotheses: a case study of altitudinal differentiation in hemoglobin function in an Andean Sparrow, <i>Zonotrichia capensis</i> . <i>Molecular Biology and Evolution</i> , 2014 , 31, 2948-62	8.3	51
114	Hypoxia tolerance, nitric oxide, and nitrite: lessons from extreme animals. <i>Physiology</i> , 2015 , 30, 116-26	9.8	50
113	Divergent and parallel routes of biochemical adaptation in high-altitude passerine birds from the Qinghai-Tibet Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1865-1870	11.5	46
112	Keeping the heart in balance: the functional interactions of myoglobin with nitrogen oxides. <i>Journal of Experimental Biology</i> , 2010 , 213, 2726-33	3	46
111	Effects of short-term hypoxia on neuroglobin levels and localization in mouse brain tissues. <i>Neuropathology and Applied Neurobiology</i> , 2005 , 31, 610-7	5.2	46
110	Roles of nitric oxide, nitrite and myoglobin on myocardial efficiency in trout (<i>Oncorhynchus mykiss</i>) and goldfish (<i>Carassius auratus</i>): implications for hypoxia tolerance. <i>Journal of Experimental Biology</i> , 2010 , 213, 2755-62	3	43
109	Functional differentiation of myoglobin isoforms in hypoxia-tolerant carp indicates tissue-specific protective roles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012 , 302, R693-701	3.2	43
108	The reactions of neuroglobin with CO: evidence for two forms of the ferrous protein. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 1339-43	4.2	43
107	A membrane-bound vertebrate globin. <i>PLoS ONE</i> , 2011 , 6, e25292	3.7	42
106	Hemoglobin Structure and Function. <i>Fish Physiology</i> , 1998 , 17, 1-40	2	42
105	Isohemoglobin differentiation in the bimodal-breathing amazon catfish <i>Hoplosternum littorale</i> . <i>Journal of Biological Chemistry</i> , 2000 , 275, 17297-305	5.4	42
104	The cathodic hemoglobin of <i>Anguilla anguilla</i> . Amino acid sequence and oxygen equilibria of a reverse Bohr effect hemoglobin with high oxygen affinity and high phosphate sensitivity. <i>Journal of Biological Chemistry</i> , 1995 , 270, 18897-902	5.4	42
103	Hemoglobin and subunit multiplicity in the rainbow trout (<i>Oncorhynchus mykiss</i>) hemoglobin system. <i>Fish Physiology and Biochemistry</i> , 2001 , 24, 335-342	2.7	41

102	The unique hemoglobin system of <i>Pleuragramma antarcticum</i> , an antarctic migratory teleost. Structure and function of the three components. <i>Journal of Biological Chemistry</i> , 1996 , 271, 23780-5	5.4	41
101	Novel mechanism for high-altitude adaptation in hemoglobin of the Andean frog <i>Telmatobius peruvianus</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002 , 283, R1052-60	3.2	40
100	The anodic hemoglobin of <i>Anguilla anguilla</i> . Molecular basis for allosteric effects in a root-effect hemoglobin. <i>Journal of Biological Chemistry</i> , 1997 , 272, 15628-35	5.4	39
99	Temperature-Dependent Enthalpy of Oxygenation in Antarctic Fish Hemoglobins. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1997 , 118, 319-326	2.3	39
98	The hemoglobins of <i>Notothenia angustata</i> , a temperate fish belonging to a family largely endemic to the Antarctic Ocean. <i>FEBS Journal</i> , 1992 , 210, 963-70		38
97	Expression and purification of recombinant hemoglobin in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2011 , 6, e20176	3.7	36
96	Integrating nitric oxide, nitrite and hydrogen sulfide signaling in the physiological adaptations to hypoxia: A comparative approach. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012 , 162, 1-6	2.6	34
95	Hemoglobin function and allosteric regulation in semi-fossorial rodents (family Sciuridae) with different altitudinal ranges. <i>Journal of Experimental Biology</i> , 2013 , 216, 4264-71	3	34
94	The case of the missing NO-hemoglobin: spectral changes suggestive of heme redox reactions reflect changes in NO-heme geometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 12087-92	11.5	34
93	Metabolic adaptations during extreme anoxia in the turtle heart and their implications for ischemia-reperfusion injury. <i>Scientific Reports</i> , 2019 , 9, 2850	4.9	34
92	Expression patterns and adaptive functional diversity of vertebrate myoglobins. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013 , 1834, 1832-9	4	33
91	Stability-Mediated Epistasis Restricts Accessible Mutational Pathways in the Functional Evolution of Avian Hemoglobin. <i>Molecular Biology and Evolution</i> , 2017 , 34, 1240-1251	8.3	33
90	Molecular basis of hemoglobin adaptation in the high-flying bar-headed goose. <i>PLoS Genetics</i> , 2018 , 14, e1007331	6	32
89	Genetically based low oxygen affinities of felid hemoglobins: lack of biochemical adaptation to high-altitude hypoxia in the snow leopard. <i>Journal of Experimental Biology</i> , 2015 , 218, 2402-9	3	30
88	Hemoglobin isoform differentiation and allosteric regulation of oxygen binding in the turtle, <i>Trachemys scripta</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 305, R961-7	3.2	30
87	Functional properties of myoglobins from five whale species with different diving capacities. <i>Journal of Experimental Biology</i> , 2012 , 215, 3403-10	3	30
86	Characterization of a globin-coupled oxygen sensor with a gene-regulating function. <i>Journal of Biological Chemistry</i> , 2007 , 282, 37325-40	5.4	30
85	Lack of conventional oxygen-linked proton and anion binding sites does not impair allosteric regulation of oxygen binding in dwarf caiman hemoglobin. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 305, R300-12	3.2	28

84	A polymerising Root-effect fish hemoglobin with high subunit heterogeneity. Correlation with primary structure. <i>FEBS Journal</i> , 1993 , 218, 829-35		28
83	Suppression of reactive oxygen species generation in heart mitochondria from anoxic turtles: the role of complex I -nitrosation. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	27
82	Reactions of ferric hemoglobin and myoglobin with hydrogen sulfide under physiological conditions. <i>Journal of Inorganic Biochemistry</i> , 2018 , 182, 133-140	4.2	27
81	Students' motivation toward laboratory work in physiology teaching. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2016 , 40, 313-8	1.9	27
80	Hydrogen sulfide and nitric oxide metabolites in the blood of free-ranging brown bears and their potential roles in hibernation. <i>Free Radical Biology and Medicine</i> , 2014 , 73, 349-57	7.8	26
79	ATP-induced temperature independence of hemoglobin-O ₂ affinity in heterothermic billfish. <i>Journal of Experimental Biology</i> , 2010 , 213, 1579-85	3	26
78	The hemoglobin system of the hagfish <i>Myxine glutinosa</i> : aggregation state and functional properties. <i>BBA - Proteins and Proteomics</i> , 1995 , 1249, 109-15		26
77	Circulating nitric oxide metabolites and cardiovascular changes in the turtle <i>Trachemys scripta</i> during normoxia, anoxia and reoxygenation. <i>Journal of Experimental Biology</i> , 2012 , 215, 2560-6	3	25
76	Phenotypic plasticity in blood-oxygen transport in highland and lowland deer mice. <i>Journal of Experimental Biology</i> , 2013 , 216, 1167-73	3	25
75	Allosteric modulation by S-nitrosation in the low-O ₂ affinity myoglobin from rainbow trout. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 300, R101-8	3.2	24
74	The primary structure and oxygen-binding properties of the single haemoglobin of the high-Antarctic fish <i>Aethotaxis mitopteryx</i> DeWitt. <i>Polar Biology</i> , 1992 , 12, 135-140	2	24
73	Oxygenation properties and oxidation rates of mouse hemoglobins that differ in reactive cysteine content. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012 , 161, 265-70	2.6	23
72	Evolutionary and functional properties of a two-locus beta-globin polymorphism in Indian house mice. <i>Genetics</i> , 2010 , 184, 1121-31	4	23
71	The nerve hemoglobin of the bivalve mollusc <i>Spisula solidissima</i> : molecular cloning, ligand binding studies, and phylogenetic analysis. <i>Journal of Biological Chemistry</i> , 2006 , 281, 5364-72	5.4	23
70	The Greenland shark <i>Somniosus microcephalus</i> -Hemoglobins and ligand-binding properties. <i>PLoS ONE</i> , 2017 , 12, e0186181	3.7	21
69	Bohr effect and temperature sensitivity of hemoglobins from highland and lowland deer mice. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016 , 195, 10-4	2.6	19
68	Oxygenation properties and isoform diversity of snake hemoglobins. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 309, R1178-91	3.2	19
67	Oxygen binding properties of non-mammalian nerve globins. <i>FEBS Journal</i> , 2006 , 273, 1323-9	5.7	19

66	High blood oxygen affinity in the air-breathing swamp eel <i>Monopterus albus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2014 , 178, 102-8	2.6	18
65	Nitric oxide increases myocardial efficiency in the hypoxia-tolerant turtle <i>Trachemys scripta</i> . <i>Journal of Experimental Biology</i> , 2009 , 212, 954-60	3	18
64	The <i>Staphylococcus aureus</i> Protein IsdH Inhibits Host Hemoglobin Scavenging to Promote Heme Acquisition by the Pathogen. <i>Journal of Biological Chemistry</i> , 2016 , 291, 23989-23998	5.4	18
63	Allosteric mechanisms underlying the adaptive increase in hemoglobin-oxygen affinity of the bar-headed goose. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	17
62	Globin-like proteins in <i>Caenorhabditis elegans</i> : in vivo localization, ligand binding and structural properties. <i>BMC Biochemistry</i> , 2010 , 11, 17	4.8	17
61	Thermodynamics of oxygenation-linked proton and lactate binding govern the temperature sensitivity of O ₂ binding in crustacean (<i>Carcinus maenas</i>) hemocyanin. <i>Journal of Experimental Biology</i> , 2008 , 211, 1057-62	3	16
60	Hagfish hemoglobins: structure, function, and oxygen-linked association. <i>Journal of Biological Chemistry</i> , 2001 , 276, 27415-23	5.4	16
59	Bicarbonate binding to hemoglobin links oxygen and carbon dioxide transport in hagfish. <i>Respiration Physiology</i> , 1999 , 115, 309-15		16
58	Turtles maintain mitochondrial integrity but reduce mitochondrial respiratory capacity in the heart after cold acclimation and anoxia. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	14
57	Metabolic adaptations to anoxia and reoxygenation: New lessons from freshwater turtles and crucian carp. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2020 , 11, 55-64	1.7	14
56	Respiratory responses to short term hypoxia in the snapping turtle, <i>Chelydra serpentina</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2000 , 126, 223-31 ⁶		14
55	Enthalpic partitioning of the reduced temperature sensitivity of O ₂ binding in bovine hemoglobin. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2014 , 176, 20-5	2.6	13
54	The haemoglobin system of the mudfish, <i>Labeo capensis</i> : adaptations to temperature and hypoxia. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998 , 120, 735-742	2.3	13
53	Water regulates oxygen binding in hagfish (<i>Myxine glutinosa</i>) hemoglobin. <i>Journal of Experimental Biology</i> , 2003 , 206, 1389-95	3	13
52	Oxygen binding by single red blood cells from the red-eared turtle <i>Trachemys scripta</i> . <i>Journal of Applied Physiology</i> , 2001 , 90, 1679-84	3.7	13
51	Oxygen binding to partially nitrosylated hemoglobin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013 , 1834, 1894-900	4	12
50	Decrease in the red cell cofactor 2,3-diphosphoglycerate increases hemoglobin oxygen affinity in the hibernating brown bear <i>Ursus arctos</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 304, R43-9	3.2	12
49	Unusual stability of human neuroglobin at low pH--molecular mechanisms and biological significance. <i>FEBS Journal</i> , 2009 , 276, 7027-39	5.7	12

48	Allosteric effect of water in fish and human hemoglobins. <i>Journal of Biological Chemistry</i> , 2003 , 278, 42769-73	9.4	12
47	Haematological studies on <i>Aethotaxis mitopteryx</i> DeWitt, a high-Antarctic fish with a single haemoglobin. <i>Polar Biology</i> , 1992 , 12, 141-145	2	12
46	Hypoxia enhances blood O affinity and depresses skeletal muscle O consumption in zebrafish (<i>Danio rerio</i>). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2019 , 234, 18-25	2.3	11
45	Insights into the anomalous heme pocket of rainbow trout myoglobin. <i>Journal of Inorganic Biochemistry</i> , 2012 , 109, 1-8	4.2	11
44	Functional roles of globin proteins in hypoxia-tolerant ectothermic vertebrates. <i>Journal of Applied Physiology</i> , 2017 , 123, 926-934	3.7	10
43	A comparison of blood nitric oxide metabolites and hemoglobin functional properties among diving mammals. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017 , 205, 35-40	2.6	10
42	Effects of an 8-weeks erythropoietin treatment on mitochondrial and whole body fat oxidation capacity during exercise in healthy males. <i>Journal of Sports Sciences</i> , 2015 , 33, 570-8	3.6	10
41	O binding and CO sensitivity in haemoglobins of subterranean African mole rats. <i>Journal of Experimental Biology</i> , 2017 , 220, 3939-3948	3	10
40	The roles of tissue nitrate reductase activity and myoglobin in securing nitric oxide availability in deeply hypoxic crucian carp. <i>Journal of Experimental Biology</i> , 2016 , 219, 3875-3883	3	10
39	Stable mitochondrial CICIII supercomplex interactions in reptiles versus homeothermic vertebrates. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	9
38	Oxygen binding and aggregation of hemoglobin from the common European frog, <i>Rana temporaria</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1997 , 117, 225-31	2.3	9
37	A Novel Possible Role for Met Hemoglobin as Carrier of Hydrogen Sulfide in the Blood. <i>Antioxidants and Redox Signaling</i> , 2020 , 32, 258-265	8.4	9
36	Globin E is a myoglobin-related, respiratory protein highly expressed in lungfish oocytes. <i>Scientific Reports</i> , 2019 , 9, 280	4.9	8
35	Inhibitory effects of nitrite on the reactions of bovine carbonic anhydrase II with CO ₂ and bicarbonate consistent with zinc-bound nitrite. <i>Journal of Inorganic Biochemistry</i> , 2015 , 149, 6-11	4.2	8
34	Deer mouse hemoglobin exhibits a lowered oxygen affinity owing to mobility of the E helix. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013 , 69, 393-8		8
33	Enhancing effects of acetazolamide on neuronal activity correlate with enhanced visual processing ability in humans. <i>Neuropharmacology</i> , 2011 , 61, 900-8	5.5	8
32	The Zebrafish Cytochrome /Cytochrome Reductase/NADH System Efficiently Reduces Cytoglobins 1 and 2: Conserved Activity of Cytochrome /Cytochrome Reductases during Vertebrate Evolution. <i>Biochemistry</i> , 2019 , 58, 3212-3223	3.2	7
31	Oxygen-linked S-nitrosation in fish myoglobins: a cysteine-specific tertiary allosteric effect. <i>PLoS ONE</i> , 2014 , 9, e97012	3.7	7

30	Molecular and functional characterization of hemocyanin of the giant African millipede, <i>Archispirostreptus gigas</i> . <i>Journal of Experimental Biology</i> , 2013 , 216, 1616-23	3	7
29	Critical redox and allosteric aspects of nitric oxide interactions with hemoglobin. <i>Antioxidants and Redox Signaling</i> , 2004 , 6, 979-91	8.4	7
28	Functional diversification of sea lamprey globins in evolution and development. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018 , 1866, 283-291	4	7
27	Regulation of blood oxygen transport in hibernating mammals. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017 , 187, 847-856	2.2	6
26	Structure and function of crocodylian hemoglobins and allosteric regulation by chloride, ATP, and CO. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 318, R657-R667	3.2	6
25	Effects of water activity on oxygen-binding in high-molecular weight, extracellular invertebrate hemoglobin and hemocyanin. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003 , 136, 83-90	2.3	6
24	Tissue-dependent variation of hydrogen sulfide homeostasis in anoxic freshwater turtles. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	5
23	Hagfish Haemoglobins 1998 , 321-333		5
22	High temperature impairs mitochondrial function in rainbow trout cardiac mitochondria. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	5
21	Suppression of mitochondrial respiration by hydrogen sulfide in hibernating 13-lined ground squirrels. <i>Free Radical Biology and Medicine</i> , 2021 , 169, 181-186	7.8	5
20	A globin domain in a neuronal transmembrane receptor of <i>Caenorhabditis elegans</i> and <i>Ascaris suum</i> : molecular modeling and functional properties. <i>Journal of Biological Chemistry</i> , 2015 , 290, 10336-52	5.4	4
19	Hemoglobin polymerization via disulfide bond formation in the hypoxia-tolerant turtle <i>Trachemys scripta</i> : implications for antioxidant defense and O transport. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018 , 314, R84-R93	3.2	4
18	Myoglobin-dependent O ₂ consumption of the hypoxic trout heart. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013 , 165, 40-5	2.6	4
17	Genetic and functional diversity of the multiple lungfish myoglobins. <i>FEBS Journal</i> , 2020 , 287, 1598-1611	5.7	4
16	Oxygenation properties of hemoglobin and the evolutionary origins of isoform multiplicity in an amphibious air-breathing fish, the blue-spotted mudskipper (<i>Amblyloides niger</i>). <i>Journal of Experimental Biology</i> , 2020 , 223,	3	4
15	Exploring pathways of NO and HS signaling in metabolic depression: The case of anoxic turtles. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021 , 253, 110857	2.6	4
14	Myoglobin oxygenation and autoxidation in three reptilian species. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015 , 187, 8-12	2.6	3
13	The role of blood nitrite in the control of hypoxic vasodilation. <i>Advances in Experimental Biology</i> , 2007 , 199-212		3

12	New insights into survival strategies to oxygen deprivation in anoxia-tolerant vertebrates.. <i>Acta Physiologica</i> , 2022 , e13841	5.6	3
11	Effect of NH2-terminal acetylation on the oxygenation properties of vertebrate haemoglobin. <i>Biochemical Journal</i> , 2020 , 477, 3839-3850	3.8	2
10	Carbon dioxide and bicarbonate accumulation in caiman erythrocytes during diving. <i>Journal of Experimental Biology</i> , 2021 ,	3	2
9	Emergence of a Chimeric Globin Pseudogene and Increased Hemoglobin Oxygen Affinity Underlie the Evolution of Aquatic Specializations in Sirenia. <i>Molecular Biology and Evolution</i> , 2019 , 36, 1134-1147	8.3	1
8	Kinetic properties and heme pocket structure of two domains of the polymeric hemoglobin of <i>Artemia</i> in comparison with the native molecule. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 1307-16	4	1
7	Molecular basis of hemoglobin adaptation in the high-flying bar-headed goose		1
6	Evolution of hemoglobin function in tropical air-breathing catfishes. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2021 , 335, 814-819	1.9	1
5	New insights into the allosteric effects of CO2 and bicarbonate on crocodilian hemoglobin. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	1
4	Changes in hemoglobin function and isoform expression during embryonic development in the American alligator,. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021 , 321, R869-R878	3.2	0
3	Haematological studies on <i>Aethotaxis mitopteryx</i> DeWitt, a high-Antarctic fish with a single haemoglobin 1992 , 141-145		
2	The primary structure and oxygen-binding properties of the single haemoglobin of the high-Antarctic fish <i>Aethotaxis mitopteryx</i> DeWitt 1992 , 135-140		
1	Ontogeny of hemoglobin-oxygen binding and multiplicity in the obligate air-breathing fish <i>Arapaima gigas</i> .. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2022 , 268, 111190	2.6	