

Alessandra Pesce

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Truncated (2/2) hemoglobin: Unconventional structures and functional roles in vivo and in human pathogenesis. <i>Molecular Aspects of Medicine</i> , 2022, 84, 101049.	6.4	5
2	The coexistence of cold activity and thermal stability in an Antarctic GH42 β -galactosidase relies on its hexameric quaternary arrangement. <i>FEBS Journal</i> , 2021, 288, 546-565.	4.7	31
3	Oxygen-mediated oxidation of ferrous nitrosylated nitrobindins. <i>Journal of Inorganic Biochemistry</i> , 2021, 224, 111579.	3.5	10
4	Structural and Functional Characterization of the Globin-Coupled Sensors of <i>Azotobacter vinelandii</i> and <i>Bordetella pertussis</i> . <i>Antioxidants and Redox Signaling</i> , 2020, 32, 378-395.	5.4	4
5	Structural and functional properties of Antarctic fish cytoglobins-1: Cold-reactivity in multi-ligand reactions. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 2132-2144.	4.1	10
6	Effects of iron on the aggregation propensity of the N-terminal fibrillogenic polypeptide of human apolipoprotein A-I. <i>BioMetals</i> , 2018, 31, 551-559.	4.1	4
7	Hydroxylamine-induced oxidation of ferrous carbonylated truncated hemoglobins from <i>Mycobacterium tuberculosis</i> and <i>Campylobacter jejuni</i> is limited by carbon monoxide dissociation. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 977-986.	2.6	3
8	Peroxynitrite scavenging by <i>Campylobacter jejuni</i> truncated hemoglobin P. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 1141-1150.	2.6	7
9	The N-terminal pre-A region of <i>Mycobacterium tuberculosis</i> 2/2HbN promotes NO dioxygenase activity. <i>FEBS Journal</i> , 2016, 283, 305-322.	4.7	10
10	A bacterial acyl aminoacyl peptidase couples flexibility and stability as a result of cold adaptation. <i>FEBS Journal</i> , 2016, 283, 4310-4324.	4.7	19
11	A redox signalling globin is essential for reproduction in <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2015, 6, 8782.	12.8	42
12	Structural flexibility of the heme cavity in the cold-adapted truncated hemoglobin from the Antarctic marine bacterium <i>Pseudoalteromonas haloplanktis</i> TAC125. <i>FEBS Journal</i> , 2015, 282, 2948-2965.	4.7	24
13	Structural Bases for the Regulation of CO Binding in the Archaeal Protoglobin from <i>Methanosarcina acetivorans</i> . <i>PLoS ONE</i> , 2015, 10, e0125959.	2.5	3
14	Nitrite-Reductase and Peroxynitrite Isomerization Activities of <i>Methanosarcina acetivorans</i> Protoglobin. <i>PLoS ONE</i> , 2014, 9, e95391.	2.5	13
15	Nitrosylation Mechanisms of <i>Mycobacterium tuberculosis</i> and <i>Campylobacter jejuni</i> Truncated Hemoglobins N, O, and P. <i>PLoS ONE</i> , 2014, 9, e102811.	2.5	19
16	The Diversity of 2/2 (Truncated) Globins. <i>Advances in Microbial Physiology</i> , 2013, 63, 49-78.	2.4	38
17	Protoglobin. <i>Advances in Microbial Physiology</i> , 2013, 63, 79-96.	2.4	25
18	Structure and Haem-Distal Site Plasticity in <i>Methanosarcina acetivorans</i> Protoglobin. <i>PLoS ONE</i> , 2013, 8, e66144.	2.5	19

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19	Isoniazid Inhibits the Heme-Based Reactivity of Mycobacterium tuberculosis Truncated Hemoglobin N. PLoS ONE, 2013, 8, e69762.	2.5	26
20	Structural heterogeneity and ligand gating in ferric methanosarcina acetivorans protoglobin mutants. IUBMB Life, 2011, 63, 287-294.	3.4	15
21	Structural heterogeneity and ligand gating in ferric methanosarcina acetivorans protoglobin mutants. IUBMB Life, 2011, 63, spcone-spcone.	3.4	0
22	Structural characterization of a group II 2/2 hemoglobin from the plant pathogen Agrobacterium tumefaciens. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 810-816.	2.3	13
23	Ligand Migration in the Apolar Tunnel of Cerebratulus lacteus Mini-Hemoglobin. Journal of Biological Chemistry, 2011, 286, 5347-5358.	3.4	23
24	HisE11 and HisF8 Provide Bis-histidyl Heme Hexa-coordination in the Globin Domain of Geobacter sulfurreducens Globin-coupled Sensor. Journal of Molecular Biology, 2009, 386, 246-260.	4.2	47
25	Mapping Heme-Ligand Tunnels in Group I Truncated(2/2) Hemoglobins. Methods in Enzymology, 2008, 436, 303-315.	1.0	17
26	Protein fold and structure in the truncated (2/2) globin family. Gene, 2007, 398, 2-11.	2.2	66
27	Protein structure in the truncated (2/2) hemoglobin family. IUBMB Life, 2007, 59, 535-541.	3.4	15
28	Structural Determinants in the Group III Truncated Hemoglobin from Campylobacter jejuni. Journal of Biological Chemistry, 2006, 281, 37803-37812.	3.4	54
29	Heme-Ligand Tunneling in Group I Truncated Hemoglobins. Journal of Biological Chemistry, 2004, 279, 21520-21525.	3.4	117
30	Thr-E11 Regulates O2 Affinity in Cerebratulus lacteus Mini-hemoglobin. Journal of Biological Chemistry, 2004, 279, 33662-33672.	3.4	38
31	Reversible hexa-to penta-coordination of the heme Fe atom modulates ligand binding properties of neuroglobin and cytoglobin. IUBMB Life, 2004, 56, 657-664.	3.4	47
32	The human brain hexacoordinated neuroglobin three-dimensional structure. Micron, 2004, 35, 63-65.	2.2	30
33	Human Brain Neuroglobin Structure Reveals a Distinct Mode of Controlling Oxygen Affinity. Structure, 2003, 11, 1087-1095.	3.3	286
34	Substrate channeling: Molecular bases. Biochemistry and Molecular Biology Education, 2003, 31, 228-233.	1.2	26
35	The 109 Residue Nerve Tissue Minihemoglobin from Cerebratulus lacteus Highlights Striking Structural Plasticity of the Î±-Helical Globin Fold. Structure, 2002, 10, 725-735.	3.3	66
36	Human neuroglobin: crystals and preliminary X-ray diffraction analysis. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1848-1850.	2.5	13

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37	Neuroglobin and cytoglobin. EMBO Reports, 2002, 3, 1146-1151.	4.5	273