

# Alessandra Pesce

## List of Publications by Year in descending order

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37  
papers

1,462  
citations

394421

19  
h-index

345221

36  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1156  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Brain Neuroglobin Structure Reveals a Distinct Mode of Controlling Oxygen Affinity. Structure, 2003, 11, 1087-1095.	3.3	286
2	Neuroglobin and cytoglobin. EMBO Reports, 2002, 3, 1146-1151.	4.5	273
3	Heme-Ligand Tunneling in Group I Truncated Hemoglobins. Journal of Biological Chemistry, 2004, 279, 21520-21525.	3.4	117
4	The 109 Residue Nerve Tissue Minihemoglobin from Cerebratulus lacteus Highlights Striking Structural Plasticity of the $\alpha$ -Helical Globin Fold. Structure, 2002, 10, 725-735.	3.3	66
5	Protein fold and structure in the truncated (2/2) globin family. Gene, 2007, 398, 2-11.	2.2	66
6	Structural Determinants in the Group III Truncated Hemoglobin from Campylobacter jejuni. Journal of Biological Chemistry, 2006, 281, 37803-37812.	3.4	54
7	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
8	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
9	A redox signalling globin is essential for reproduction in Caenorhabditis elegans. Nature Communications, 2015, 6, 8782.	12.8	42
10	Thr-E11 Regulates O <sub>2</sub> Affinity in Cerebratulus lacteus Mini-hemoglobin. Journal of Biological Chemistry, 2004, 279, 33662-33672.	3.4	38
11	The Diversity of 2/2 (Truncated) Globins. Advances in Microbial Physiology, 2013, 63, 49-78.	2.4	38
12	The co-existence of cold activity and thermal stability in an Antarctic GH42 $\alpha$ -galactosidase relies on its hexameric quaternary arrangement. FEBS Journal, 2021, 288, 546-565.	4.7	31
13	The human brain hexacoordinated neuroglobin three-dimensional structure. Micron, 2004, 35, 63-65.	2.2	30
14	Substrate channeling: Molecular bases. Biochemistry and Molecular Biology Education, 2003, 31, 228-233.	1.2	26
15	Isoniazid Inhibits the Heme-Based Reactivity of Mycobacterium tuberculosis Truncated Hemoglobin N. PLoS ONE, 2013, 8, e69762.	2.5	26
16	Protoglobin. Advances in Microbial Physiology, 2013, 63, 79-96.	2.4	25
17	Structural flexibility of the heme cavity in the cold-adapted truncated hemoglobin from the Antarctic marine bacterium <i>Pseudoalteromonas haloplanktis</i> TAC 125. FEBS Journal, 2015, 282, 2948-2965.	4.7	24
18	Ligand Migration in the Apolar Tunnel of Cerebratulus lacteus Mini-Hemoglobin. Journal of Biological Chemistry, 2011, 286, 5347-5358.	3.4	23

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19	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
20	Structure and Haem-Distal Site Plasticity in <i>Methanosarcina acetivorans</i> Protoglobin. <i>PLoS ONE</i> , 2013, 8, e66144.	2.5	19
21	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
22	Mapping Heme-Ligand Tunnels in Group I Truncated(2/2) Hemoglobins. <i>Methods in Enzymology</i> , 2008, 436, 303-315.	1.0	17
23	Protein structure in the truncated (2/2) hemoglobin family. <i>IUBMB Life</i> , 2007, 59, 535-541.	3.4	15
24	Structural heterogeneity and ligand gating in ferric <i>methanosarcina acetivorans</i> protoglobin mutants. <i>IUBMB Life</i> , 2011, 63, 287-294.	3.4	15
25	Human neuroglobin: crystals and preliminary X-ray diffraction analysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1848-1850.	2.5	13
26	Structural characterization of a group II 2/2 hemoglobin from the plant pathogen <i>Agrobacterium tumefaciens</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 810-816.	2.3	13
27	Nitrite-Reductase and Peroxynitrite Isomerization Activities of <i>Methanosarcina acetivorans</i> Protoglobin. <i>PLoS ONE</i> , 2014, 9, e95391.	2.5	13
28	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
29	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
30	Oxygen-mediated oxidation of ferrous nitrosylated nitrobindins. <i>Journal of Inorganic Biochemistry</i> , 2021, 224, 111579.	3.5	10
31	Peroxynitrite scavenging by <i>Campylobacter jejuni</i> truncated hemoglobin P. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 1141-1150.	2.6	7
32	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
33	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
34	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
35	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
36	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

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37	Structural heterogeneity and ligand gating in ferric methanosarcina acetivorans protoglobin mutants. IUBMB Life, 2011, 63, spcone-spcone.	3.4	0