Marcel Deponte

List of Publications by Year
in descending order

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60 papers	2,930 citations	159358 30 h-index	168136 53 g-index
63 all docs	63 docs citations	63 times ranked	3980 citing authors

#	Article	IF	Citations
1	Glutathione catalysis and the reaction mechanisms of glutathione-dependent enzymes. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3217-3266.	1.1	812
2	The Incomplete Glutathione Puzzle: Just Guessing at Numbers and Figures?. Antioxidants and Redox Signaling, 2017, 27, 1130-1161.	2.5	120
3	Programmed cell death in protists. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1396-1405.	1.9	107
4	The malarial parasite Plasmodium falciparum imports the human protein peroxiredoxin 2 for peroxide detoxification. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13323-13328.	3.3	95
5	Two Novel Monothiol Glutaredoxins from Saccharomyces cerevisiae Provide Further Insight into Iron-Sulfur Cluster Binding, Oligomerization, and Enzymatic Activity of Glutaredoxins. Biochemistry, 2008, 47, 1452-1463.	1.2	88
6	Glutaredoxin catalysis requires two distinct glutathione interaction sites. Nature Communications, 2017, 8, 14835.	5.8	87
7	Thioredoxin Networks in the Malarial ParasitePlasmodium falciparum. Antioxidants and Redox Signaling, 2006, 8, 1227-1239.	2.5	82
8	Mechanistic Studies on a Novel, Highly Potent Gold-Phosphole Inhibitor of Human Glutathione Reductase. Journal of Biological Chemistry, 2005, 280, 20628-20637.	1.6	78
9	Identification of Proteins Targeted by the Thioredoxin Superfamily in Plasmodium falciparum. PLoS Pathogens, 2009, 5, e1000383.	2.1	75
10	A Novel Group of Glutaredoxins in thecis-Golgi Critical for Oxidative Stress Resistance. Molecular Biology of the Cell, 2008, 19, 2673-2680.	0.9	71
11	Plasmodium falciparum â€“ do killers commit suicide?. Trends in Parasitology, 2004, 20, 165-169.	1.5	70
12	Plasmodium falciparumglutathioneS-transferase-Structural and mechanistic studies on ligand binding and enzyme inhibition. Protein Science, 2006, 15, 281-289.	3.1	67
13	Enzymatic control of cysteinyl thiol switches in proteins. Biological Chemistry, 2015, 396, 401-413.	1.2	59
14	Wherever I may roam: Protein and membrane trafficking in P. falciparum-infected red blood cells. Molecular and Biochemical Parasitology, 2012, 186, 95-116.	0.5	56
15	Lateral release of proteins from the TOM complex into the outer membrane of mitochondria. EMBO Journal, 2011, 30, 3232-3241.	3.5	55
16	Hyperoxidation of mitochondrial peroxiredoxin limits H ₂ O ₂ â€induced cell death in yeast. EMBO Journal, 2019, 38, e101552.	3.5	50
17	Disulphide Bond Formation in the Intermembrane Space of Mitochondria. Journal of Biochemistry, 2009, 146, 599-608.	0.9	48
18	Biochemical Characterization of Dithiol Glutaredoxin 8 from Saccharomyces cerevisiae: The Catalytic Redox Mechanism Redux. Biochemistry, 2009, 48, 1410-1423.	1.2	47

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19	Characterization of the glyoxalases of the malarial parasite Plasmodium falciparum and comparison with their human counterparts. Biological Chemistry, 2005, 386, 41-52.	1.2	46
20	Allosteric Coupling of Two Different Functional Active Sites in Monomeric Plasmodium falciparum Glyoxalase I. Journal of Biological Chemistry, 2007, 282, 28419-28430.	1.6	44
21	Plasmodium falciparum glutaredoxin-like proteins. Biological Chemistry, 2005, 386, 33-40.	1.2	43
22	Biochemical characterization of Toxoplasma gondii 1-Cys peroxiredoxin 2 with mechanistic similarities to typical 2-Cys Prx. Molecular and Biochemical Parasitology, 2005, 140, 87-96.	0.5	42
23	Mitochondrial protein import pathways are functionally conserved among eukaryotes despite compositional diversity of the import machineries. Biological Chemistry, 2012, 393, 513-524.	1.2	42
24	Plasmodium falciparum 2-Cys peroxiredoxin reacts with plasmoredoxin and peroxynitrite. Biological Chemistry, 2005, 386, 1129-36.	1.2	40
25	Glutathione Sâ€transferase from Malarial Parasites: Structural and Functional Aspects. Methods in Enzymology, 2005, 401, 241-253.	0.4	40
26	The glyoxalase system of malaria parasitesâ€”Implications for cell biology and general glyoxalase research. Seminars in Cell and Developmental Biology, 2011, 22, 262-270.	2.3	40
27	Redox-sensitive GFP fusions for monitoring the catalytic mechanism and inactivation of peroxiredoxins in living cells. Redox Biology, 2018, 14, 549-556.	3.9	35
28	The Antimalarial Activities of Methylene Blue and the 1,4-Naphthoquinone 3-[4-(Trifluoromethyl)Benzyl]-Menadione Are Not Due to Inhibition of the Mitochondrial Electron Transport Chain. Antimicrobial Agents and Chemotherapy, 2013, 57, 2114-2120.	1.4	34
29	Quantitative assessment of the determinant structural differences between redox-active and inactive glutaredoxins. Nature Communications, 2020, 11, 1725.	5.8	34
30	Mechanisms and Applications of Redox-Sensitive Green Fluorescent Protein-Based Hydrogen Peroxide Probes. Antioxidants and Redox Signaling, 2018, 29, 552-568.	2.5	33
31	Distinct subcellular localization in the cytosol and apicoplast, unexpected dimerization and inhibition of Plasmodium falciparum glyoxalases. Molecular Microbiology, 2010, 76, 92-103.	1.2	32
32	Divergent Molecular Evolution of the Mitochondrial Sulfhydryl:Cytochrome c Oxidoreductase Erv in Opisthokonts and Parasitic Protists. Journal of Biological Chemistry, 2013, 288, 2676-2688.	1.6	31
33	Plasmodium falciparumthioredoxins and glutaredoxins as central players in redox metabolism. Redox Report, 2003, 8, 246-250.	1.4	30
34	Systematic re-evaluation of the bis(2-hydroxyethyl)disulfide (HEDS) assay reveals an alternative mechanism and activity of glutaredoxins. Chemical Science, 2015, 6, 3788-3796.	3.7	29
35	Plasmodium falciparum antioxidant protein as a model enzyme for a special class of glutaredoxin/glutathione-dependent peroxiredoxins. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4073-4090.	1.1	26
36	Peroxiredoxin Systems of Protozoal Parasites. Sub-Cellular Biochemistry, 2007, 44, 219-229.	1.0	26

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37	One cysteine is enough: A monothiol Grx can functionally replace all cytosolic Trx and dithiol Grx. Redox Biology, 2020, 36, 101598.	3.9	24
38	Tightâ€binding inhibitors efficiently inactivate both reaction centers of monomeric Plasmodiumâ€falciparum glyoxalaseâ€1. FEBS Journal, 2012, 279, 2568-2578.	2.2	21
39	Plasmodium falciparum glyoxalase II: Theorell-Chance product inhibition patterns, rate-limiting substrate binding via Arg257/Lys260, and unmasking of acid-base catalysis. Biological Chemistry, 2009, 390, 1171-83.	1.2	18
40	Plasmodium falciparum antioxidant protein reveals a novel mechanism for balancing turnover and inactivation of peroxiredoxins. Free Radical Biology and Medicine, 2015, 85, 228-236.	1.3	18
41	The cytosolic glyoxalases of Plasmodium falciparum are dispensable during asexual blood-stage development. Microbial Cell, 2018, 5, 32-41.	1.4	13
42	A single-cysteine mutant and chimeras of essential Leishmania Erv can complement the loss of Erv1 but not of Mia40 in yeast. Redox Biology, 2018, 15, 363-374.	3.9	12
43	Glyoxalase diversity in parasitic protists. Biochemical Society Transactions, 2014, 42, 473-478.	1.6	11
44	Growth inhibitory effects of standard pro- and antioxidants on the human malaria parasite Plasmodium falciparum. Experimental Parasitology, 2017, 180, 64-70.	0.5	11
45	Testing the CRISPR-Cas9 and glmS ribozyme systems in Leishmania tarentolae. Molecular and Biochemical Parasitology, 2021, 241, 111336.	0.5	11
46	Prokaryotic ancestry and gene fusion of a dual localized peroxiredoxin in malaria parasites. Microbial Cell, 2015, 2, 5-13.	1.4	9
47	Knockout of the peroxiredoxin 5 homologue PFAOP does not affect the artemisinin susceptibility of Plasmodium falciparum. Scientific Reports, 2017, 7, 4410.	1.6	8
48	An intracellular assay for activity screening and characterization of glutathione-dependent oxidoreductases. Free Radical Biology and Medicine, 2021, 172, 340-349.	1.3	8
49	No Need for Labels: The Autofluorescence of Leishmania tarentolae Mitochondria and the Necessity of Negative Controls. PLoS ONE, 2012, 7, e47641.	1.1	8
50	GFP tagging sheds light on protein translocation: implications for key methods in cell biology. Cellular and Molecular Life Sciences, 2012, 69, 1025-1033.	2.4	7
51	Protein abundance and folding rather than the redox state of Kelch13 determine the artemisinin susceptibility of Plasmodium falciparum. Redox Biology, 2021, 48, 102177.	3.9	7
52	Hemolytic and antimalarial effects of tight-binding glyoxalase 1 inhibitors on the host-parasite unit of erythrocytes infected with Plasmodium falciparum. Redox Biology, 2016, 8, 348-353.	3.9	6
53	Glutathione and glutathione-dependent enzymes. , 2022, , 241-275.		6
54	Tyrosine substitution of a conserved activeâ€site histidine residue activates Plasmodium falciparum peroxiredoxin 6. Protein Science, 2019, 28, 100-110.	3.1	4

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55	In Vivo Structure-Function Analysis and Redox Interactomes of Leishmania tarentolae Erv. Microbiology Spectrum, 2021, 9, e0080921.	1.2	4
56	In Search of Atroposâ€™ Scissors: Severing the Life-Thread of Plasmodium. , 2008, , 91-96.		3
57	The Catalytic Mechanism of Glutaredoxins. , 2018, , 251-261.		3
58	Characterization of the glutathioneâ€dependent reduction of the peroxiredoxin 5 homolog <scp>PfAOP</scp> from Plasmodium falciparum. Protein Science, 2022, 31, e4290.	3.1	3
59	Mitochondrial Protein Import in Malaria Parasites. , 2013, , 1-13.		1
60	Glyoxalase Systems in Malaria Parasites. , 2013, , 1-5.		0