Raul Arredondo-Peter

List of Publications by Year
in descending order

43 papers	1,615 citations	393982 19 h-index	288905 40 g-index
43 all docs	43 docs citations	43 times ranked	1198 citing authors

#	Article	IF	Citations
1	A phylogenomic profile of globins. BMC Evolutionary Biology, 2006, 6, 31.	3.2	191
2	Crystal structure of a nonsymbiotic plant hemoglobin. Structure, 2000, 8, 1005-1014.	1.6	164
3	Three globin lineages belonging to two structural classes in genomes from the three kingdoms of life. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11385-11389.	3.3	156
4	Characterization of recombinant soybean leghemoglobin a and apolar distal histidine mutants. Journal of Molecular Biology, 1997, 266, 1032-1042.	2.0	133
5	Activation of the Oryza sativa non-symbiotic haemoglobin-2 promoter by the cytokinin-regulated transcription factor, ARR1. Journal of Experimental Botany, 2004, 55, 1721-1731.	2.4	125
6	Plant hemoglobins: What we know six decades after their discovery. Gene, 2007, 398, 78-85.	1.0	115
7	Plant Hemoglobins. Plant Physiology, 1998, 118, 1121-1125.	2.3	113
8	Synthesis of hemoglobins in rice (Oryza sativa var. Jackson) plants growing in normal and stress conditions. Plant Science, 2001, 161, 279-287.	1.7	53
9	The evolution of land plant hemoglobins. Plant Science, 2012, 191-192, 71-81.	1.7	50
10	Rhizobium etli Genetically Engineered for the Heterologous Expression of Vitreoscilla sp. Hemoglobin: Effects on Free-Living and Symbiosis. Molecular Plant-Microbe Interactions, 1999, 12, 1008-1015.	1.4	49
11	Phytoglobin: a novel nomenclature for plant globins accepted by the globin community at the 2014 XVIII conference on Oxygen-Binding and Sensing Proteins. F1000Research, 2016, 5, 212.	0.8	49
12	Nonsymbiotic hemoglobins in rice are synthesized during germination and in differentiating cell types. Protoplasma, 2001, 218, 125-133.	1.0	44
13	Phylogenetic Relationships of 3/3 and 2/2 Hemoglobins in Archaeplastida Genomes to Bacterial and Other Eukaryote Hemoglobins. Molecular Plant, 2011, 4, 42-58.	3.9	34
14	Molecular Cloning, Functional Characterization, and Subcellular Localization of Soybean Nodule Dihydrolipoamide Reductase,. Plant Physiology, 2002, 128, 300-313.	2.3	25
15	Cloning and expression analysis of hemoglobin genes from maize (Zea mays ssp. mays) and teosinte (Zea) Tj ETQq1 1 0.784314 rgBT /O	2.4	23
16	Mapping and analysis of a hemoglobin gene family from Oryza sativa. Plant Physiology and Biochemistry, 2002, 40, 199-202.	2.8	23
17	Cloning and characterization of a caesalpinoid (Chamaecrista fasciculata) hemoglobin: The structural transition from a nonsymbiotic hemoglobin to a leghemoglobin. Proteins: Structure, Function and Bioinformatics, 2008, 72, 252-260.	1.5	23
18	Expression of non-symbiotic hemoglobin 1 and 2 genes in rice (Oryza sativa) embryonic organs. Communicative and Integrative Biology, 2011, 4, 457-458.	0.6	23

#	Article	IF	Citations
19	Molecular Cloning and Characterization of a Moss (Ceratodon purpureus) Nonsymbiotic Hemoglobin Provides Insight into the Early Evolution of Plant Nonsymbiotic Hemoglobins. Molecular Biology and Evolution, 2008, 25, 1482-1487.	3.5	21
20	Analysis of peroxidase activity of rice (Oryza sativa) recombinant hemoglobin 1: Implications for in vivo function of hexacoordinate non-symbiotic hemoglobins in plants. Phytochemistry, 2010, 71, 21-26.	1.4	20
21	Modeling the tertiary structure of a maize (Zea mays ssp. mays) non-symbiotic hemoglobin. Plant Physiology and Biochemistry, 2004, 42, 891-897.	2.8	18
22	A consensus sequence of plant hemoglobins. Plant Molecular Biology Reporter, 1991, 9, 195-207.	1.0	16
23	Prediction of folding pathway and kinetics among plant hemoglobins using an average distance map method. Proteins: Structure, Function and Bioinformatics, 2005, 61, 500-506.	1.5	16
24	What are the origins and phylogeny of plant hemoglobins?. Communicative and Integrative Biology, 2011, 4, 443-445.	0.6	16
25	Expression and in silico structural analysis of a rice (Oryza sativa) hemoglobin 5. Plant Physiology and Biochemistry, 2008, 46, 855-859.	2.8	15
26	Expression and Localization of a Rhizobium-Derived Cambialistic Superoxide Dismutase in Pea (Pisum sativum) Nodules Subjected to Oxidative Stress. Molecular Plant-Microbe Interactions, 2011, 24, 1247-1257.	1.4	14
27	Analysis of a ferric leghemoglobin reductase from cowpea (Vigna unguiculata) root nodules. Plant Science, 2000, 154, 161-170.	1.7	11
28	In silico analysis of a flavohemoglobin from Sinorhizobium meliloti strain 1021. Microbiological Research, 2003, 158, 215-227.	2.5	11
29	Use of In Silico (Computer) Methods to Predict and Analyze the Tertiary Structure of Plant Hemoglobins. Methods in Enzymology, 2008, 436, 393-410.	0.4	10
30	Expression of non-symbiotic hemoglobin 1 and 2 genes in rice (Oryza sativa) embryonic organs. Communicative and Integrative Biology, 2011, 4, 457-8.	0.6	10
31	What are the origins and phylogeny of plant hemoglobins?. Communicative and Integrative Biology, 2011, 4, 443-5.	0.6	8
32	Rice (Oryza) hemoglobins. F1000Research, 2014, 3, 253.	0.8	6
33	Molecular cloning, functional characterization, and subcellular localization of soybean nodule dihydrolipoamide reductase. Plant Physiology, 2002, 128, 300-13.	2.3	6
34	A Selfâ€Induction Method to Produce High Quantities of Recombinant Functional Flavoâ€Leghemoglobin Reductase. Methods in Enzymology, 2008, 436, 411-423.	0.4	5
35	Rice (Oryza) hemoglobins. F1000Research, 2014, 3, 253.	0.8	5
36	Spectroscopic analysis of moss (Ceratodon purpureus and Physcomitrella patens) recombinant non-symbiotic hemoglobins. Communicative and Integrative Biology, 2012, 5, 527-530.	0.6	4

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37	Variability of non-symbiotic and truncated hemoglobin genes from the genome of cultivated monocots. Communicative and Integrative Biology, 2013, 6, e27496.	0.6	3
38	Rapid PCR-based detection of inserts from cDNA libraries using phage pools or direct phage plaques and lambda primers. Plant Molecular Biology Reporter, 1995, 13, 138-146.	1.0	2
39	Soybean dihydrolipoamide dehydrogenase (ferric leghemoglobin reductase 2) interacts with and reduces ferric rice non-symbiotic hemoglobin 1. Sciencejet, 2013, 2, .	1.0	2
40	Separation and spectrophotometric characterization of some fluorescent pigments from Ceratitis capitata, W. (diptera: Tephritidae) head capsule. Insect Biochemistry and Molecular Biology, 1992, 22, 505-509.	1.2	1
41	A bioinformatics insight to rhizobial globins: gene identification and mapping, polypeptide sequence and phenetic analysis, and protein modeling.. F1000Research, 2015, 4, 117.	0.8	1
42	Effect of the synthesis of rice non-symbiotic hemoglobins 1 and 2 in the recombinant Escherichia coli TB1 growth. F1000Research, 2015, 4, 1053.	0.8	1
43	Effect of the synthesis of rice non-symbiotic hemoglobins 1 and 2 in the recombinant Escherichia coli TB1 growth. F1000Research, 2015, 4, 1053.	0.8	0