

# Raul Arredondo-Peter

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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        |
| 2  | 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         |
| 3  | 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         |
| 4  | 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         |
| 5  | Rice ( <i>Oryza</i> ) hemoglobins. F1000Research, 2014, 3, 253.  | 0.8 | 5         |
| 6  | Rice ( <i>Oryza</i> ) hemoglobins. F1000Research, 2014, 3, 253.  | 0.8 | 6         |
| 7  | Variability of non-symbiotic and truncated hemoglobin genes from the genome of cultivated monocots. Communicative and Integrative Biology, 2013, 6, e27496.  | 0.6 | 3         |
| 8  | Soybean dihydrolipoamide dehydrogenase (ferric leghemoglobin reductase 2) interacts with and reduces ferric rice non-symbiotic hemoglobin 1. Sciencejet, 2013, 2, .  | 1.0 | 2         |
| 9  | Spectroscopic analysis of moss ( <i>Ceratodon purpureus</i> and <i>Physcomitrella patens</i> ) recombinant non-symbiotic hemoglobins. Communicative and Integrative Biology, 2012, 5, 527-530.   | 0.6 | 4         |
| 10 | The evolution of land plant hemoglobins. Plant Science, 2012, 191-192, 71-81.  | 1.7 | 50        |
| 11 | Expression and Localization of a <i>Rhizobium</i> -Derived Cambialistic Superoxide Dismutase in Pea ( <i>Pisum sativum</i> ) Nodules Subjected to Oxidative Stress. Molecular Plant-Microbe Interactions, 2011, 24, 1247-1257.                   | 1.4 | 14        |
| 12 | 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        |
| 13 | What are the origins and phylogeny of plant hemoglobins?. Communicative and Integrative Biology, 2011, 4, 443-445.   | 0.6 | 16        |
| 14 | Expression of non-symbiotic hemoglobin 1 and 2 genes in rice ( <i>Oryza sativa</i> ) embryonic organs. Communicative and Integrative Biology, 2011, 4, 457-458.  | 0.6 | 23        |
| 15 | What are the origins and phylogeny of plant hemoglobins?. Communicative and Integrative Biology, 2011, 4, 443-5.   | 0.6 | 8         |
| 16 | Expression of non-symbiotic hemoglobin 1 and 2 genes in rice ( <i>Oryza sativa</i> ) embryonic organs. Communicative and Integrative Biology, 2011, 4, 457-8.  | 0.6 | 10        |
| 17 | Analysis of peroxidase activity of rice ( <i>Oryza sativa</i> ) recombinant hemoglobin 1: Implications for in vivo function of hexacoordinate non-symbiotic hemoglobins in plants. Phytochemistry, 2010, 71, 21-26.                              | 1.4 | 20        |
| 18 | Cloning and characterization of a caesalpinoid ( <i>Chamaecrista fasciculata</i> ) hemoglobin: The structural transition from a nonsymbiotic hemoglobin to a leghemoglobin. Proteins: Structure, Function and Bioinformatics, 2008, 72, 252-260. | 1.5 | 23        |

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|----|--|-----|-----------|
| 19 | Expression and in silico structural analysis of a rice ( <i>Oryza sativa</i> ) hemoglobin 5. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 855-859.   | 2.8 | 15        |
| 20 | Molecular Cloning and Characterization of a Moss ( <i>Ceratodon purpureus</i> ) Nonsymbiotic Hemoglobin Provides Insight into the Early Evolution of Plant Nonsymbiotic Hemoglobins. <i>Molecular Biology and Evolution</i> , 2008, 25, 1482-1487. | 3.5 | 21        |
| 21 | A Self-Induction Method to Produce High Quantities of Recombinant Functional Flavohemoglobin Reductase. <i>Methods in Enzymology</i> , 2008, 436, 411-423.   | 0.4 | 5         |
| 22 | Use of In Silico (Computer) Methods to Predict and Analyze the Tertiary Structure of Plant Hemoglobins. <i>Methods in Enzymology</i> , 2008, 436, 393-410.   | 0.4 | 10        |
| 23 | Plant hemoglobins: What we know six decades after their discovery. <i>Gene</i> , 2007, 398, 78-85.   | 1.0 | 115       |
| 24 | A phylogenomic profile of globins. <i>BMC Evolutionary Biology</i> , 2006, 6, 31.  | 3.2 | 191       |
| 25 | Prediction of folding pathway and kinetics among plant hemoglobins using an average distance map method. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 500-506.  | 1.5 | 16        |
| 26 | Three globin lineages belonging to two structural classes in genomes from the three kingdoms of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11385-11389.                             | 3.3 | 156       |
| 27 | Activation of the <i>Oryza sativa</i> non-symbiotic haemoglobin-2 promoter by the cytokinin-regulated transcription factor, ARR1. <i>Journal of Experimental Botany</i> , 2004, 55, 1721-1731.   | 2.4 | 125       |
| 28 | Modeling the tertiary structure of a maize ( <i>Zea mays ssp. mays</i> ) non-symbiotic hemoglobin. <i>Plant Physiology and Biochemistry</i> , 2004, 42, 891-897.   | 2.8 | 18        |
| 29 | In silico analysis of a flavohemoglobin from <i>Sinorhizobium meliloti</i> strain 1021. <i>Microbiological Research</i> , 2003, 158, 215-227.  | 2.5 | 11        |
| 30 | Molecular Cloning, Functional Characterization, and Subcellular Localization of Soybean Nodule Dihydrolipoamide Reductase. <i>Plant Physiology</i> , 2002, 128, 300-313.   | 2.3 | 25        |
| 31 | Mapping and analysis of a hemoglobin gene family from <i>Oryza sativa</i> . <i>Plant Physiology and Biochemistry</i> , 2002, 40, 199-202.  | 2.8 | 23        |
| 32 | Molecular cloning, functional characterization, and subcellular localization of soybean nodule dihydrolipoamide reductase. <i>Plant Physiology</i> , 2002, 128, 300-13.  | 2.3 | 6         |
| 33 | Synthesis of hemoglobins in rice ( <i>Oryza sativa</i> var. Jackson) plants growing in normal and stress conditions. <i>Plant Science</i> , 2001, 161, 279-287.  | 1.7 | 53        |
| 34 | Nonsymbiotic hemoglobins in rice are synthesized during germination and in differentiating cell types. <i>Protoplasma</i> , 2001, 218, 125-133.  | 1.0 | 44        |
| 35 | Cloning and expression analysis of hemoglobin genes from maize ( <i>Zea mays ssp. mays</i> ) and teosinte ( <i>Zea</i> ) Tj ETQq1.1 0.784314 rgBT  | 2.4 | 23        |
| 36 | Crystal structure of a nonsymbiotic plant hemoglobin. <i>Structure</i> , 2000, 8, 1005-1014.   | 1.6 | 164       |

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|----|--|-----|-----------|
| 37 | Analysis of a ferric leghemoglobin reductase from cowpea ( <i>Vigna unguiculata</i> ) root nodules. <i>Plant Science</i> , 2000, 154, 161-170.   | 1.7 | 11        |
| 38 | <i>Rhizobium etli</i> Genetically Engineered for the Heterologous Expression of <i>Vitreoscilla</i> sp. Hemoglobin: Effects on Free-Living and Symbiosis. <i>Molecular Plant-Microbe Interactions</i> , 1999, 12, 1008-1015.   | 1.4 | 49        |
| 39 | Plant Hemoglobins. <i>Plant Physiology</i> , 1998, 118, 1121-1125.   | 2.3 | 113       |
| 40 | Characterization of recombinant soybean leghemoglobin a and apolar distal histidine mutants. <i>Journal of Molecular Biology</i> , 1997, 266, 1032-1042.   | 2.0 | 133       |
| 41 | Rapid PCR-based detection of inserts from cDNA libraries using phage pools or direct phage plaques and lambda primers. <i>Plant Molecular Biology Reporter</i> , 1995, 13, 138-146.  | 1.0 | 2         |
| 42 | Separation and spectrophotometric characterization of some fluorescent pigments from <i>Ceratitis capitata</i> , W. (diptera: Tephritidae) head capsule. <i>Insect Biochemistry and Molecular Biology</i> , 1992, 22, 505-509. | 1.2 | 1         |
| 43 | A consensus sequence of plant hemoglobins. <i>Plant Molecular Biology Reporter</i> , 1991, 9, 195-207.   | 1.0 | 16        |