

# Fernando P Molina-Heredia

## List of Publications by Citations

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30  
papers

691  
citations

15  
h-index

26  
g-index

36  
ext. papers

764  
ext. citations

6.1  
avg, IF

3.22  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 30 | Structure of superoxide reductase bound to ferrocyanide and active site expansion upon X-ray-induced photo-reduction. <i>Structure</i> , <b>2004</b> , 12, 1729-40  | 5.2  | 84        |
| 29 | Photosynthesis: a new function for an old cytochrome?. <i>Nature</i> , <b>2003</b> , 424, 33-4  | 50.4 | 79        |
| 28 | An evolutionary analysis of the reaction mechanisms of photosystem I reduction by cytochrome c(6) and plastocyanin. <i>Bioelectrochemistry</i> , <b>2002</b> , 55, 41-5   | 5.6  | 57        |
| 27 | A comparative structural and functional analysis of cyanobacterial plastocyanin and cytochrome c (6) as alternative electron donors to Photosystem I. <i>Photosynthesis Research</i> , <b>2003</b> , 75, 97-110   | 3.7  | 50        |
| 26 | A single arginyl residue in plastocyanin and in cytochrome c(6) from the cyanobacterium <i>Anabaena</i> sp. PCC 7119 is required for efficient reduction of photosystem I. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 601-5  | 5.4  | 39        |
| 25 | Cloning and correct expression in <i>Escherichia coli</i> of the <i>petE</i> and <i>petJ</i> genes respectively encoding plastocyanin and cytochrome c6 from the cyanobacterium <i>Anabaena</i> sp. PCC 7119. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 243, 302-6 | 3.4  | 39        |
| 24 | Site-directed mutagenesis of cytochrome c(6) from <i>Anabaena</i> species PCC 7119. Identification of surface residues of the heme protein involved in photosystem I reduction. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 33565-70  | 5.4  | 36        |
| 23 | NMR analysis of the transient complex between membrane photosystem I and soluble cytochrome c6. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 7925-31   | 5.4  | 34        |
| 22 | The interactions of cyanobacterial cytochrome c6 and cytochrome f, characterized by NMR. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 48685-9  | 5.4  | 31        |
| 21 | Laser flash-induced kinetic analysis of cytochrome f oxidation by wild-type and mutant plastocyanin from the cyanobacterium <i>Nostoc</i> sp. PCC 7119. <i>Biochemistry</i> , <b>2005</b> , 44, 11601-7   | 3.2  | 27        |
| 20 | A comparative structural and functional analysis of cytochrome cM cytochrome c6 and plastocyanin from the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Letters</i> , <b>2002</b> , 517, 50-4   | 3.8  | 26        |
| 19 | Gated electron transfer of cytochrome c6 at biomimetic interfaces: a time-resolved SERR study. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 7390-7  | 3.6  | 23        |
| 18 | A comparative kinetic analysis of the reactivity of plant, horse, and human respiratory cytochrome c towards cytochrome c oxidase. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 346, 1108-13 <sup>4</sup>   | 3.4  | 23        |
| 17 | Detoxification of superoxide without production of H <sub>2</sub> O <sub>2</sub> : antioxidant activity of superoxide reductase complexed with ferrocyanide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 14750-5                    | 11.5 | 21        |
| 16 | Recalcitrant carbohydrates after enzymatic hydrolysis of pretreated lignocellulosic biomass. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 207   | 7.8  | 17        |
| 15 | Management of enzyme diversity in high-performance cellulolytic cocktails. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 156  | 7.8  | 14        |
| 14 | Convergent Evolution of Cytochrome c6 and Plastocyanin <b>2006</b> , 683-696  |      | 13        |

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|----|--|-----|----|
| 13 | The reaction mechanism of Photosystem I reduction by plastocyanin and cytochrome c6 follows two different kinetic models in the cyanobacterium <i>Pseudanabaena</i> sp. PCC 6903. <i>Photosynthesis Research</i> , <b>1998</b> , 57, 93-100    | 3.7 | 12 |
| 12 | Redox properties of Arabidopsis cytochrome c6 are independent of the loop extension specific to higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2004</b> , 1657, 115-20   | 4.6 | 11 |
| 11 | Cytochrome c6-like protein as a putative donor of electrons to photosystem I in the cyanobacterium <i>Nostoc</i> sp. PCC 7119. <i>Photosynthesis Research</i> , <b>2011</b> , 110, 61-72   | 3.7 | 9  |
| 10 | Photosystem I reduction in diatoms: as complex as the green lineage systems but less efficient. <i>Biochemistry</i> , <b>2013</b> , 52, 8687-95  | 3.2 | 8  |
| 9  | Endophytic Colonization of Rice (L.) by the Symbiotic Strain PCC 73102. <i>Molecular Plant-Microbe Interactions</i> , <b>2020</b> , 33, 1040-1045  | 3.6 | 8  |
| 8  | Cytochrome c is the main respiratory and photosynthetic soluble electron donor in heterocysts of the cyanobacterium <i>Anabaena</i> sp. PCC 7120. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2019</b> , 1860, 60-68             | 4.6 | 8  |
| 7  | Consortia of Plant-Growth-Promoting Rhizobacteria Isolated from Halophytes Improve Response of Eight Crops to Soil Salinization and Climate Change Conditions. <i>Agronomy</i> , <b>2021</b> , 11, 1609  | 3.6 | 7  |
| 6  | Interaction of photosystem I from <i>Phaeodactylum tricornutum</i> with plastocyanins as compared with its native cytochrome c6: Reunion with a lost donor. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2015</b> , 1847, 1549-59 | 4.6 | 4  |
| 5  | A novel alpha-amylase from the cyanobacterium <i>Nostoc</i> sp. PCC 7119. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 86, 131-41   | 5.7 | 4  |
| 4  | Cyt c6-3: A New Isoform of Photosynthetic Cyt c6 Exclusive to Heterocyst-Forming Cyanobacteria. <i>Plant and Cell Physiology</i> , <b>2017</b> , 58, 256-265   | 4.9 | 2  |
| 3  | Sustaining Rice Production through Biofertilization with N <sub>2</sub> -Fixing Cyanobacteria. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4628  | 2.6 | 2  |
| 2  | Cytochrome cM Is Probably a Membrane Protein Similar to the C Subunit of the Bacterial Nitric Oxide Reductase. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9396  | 2.6 | 1  |
| 1  | From Cytochrome C6 to Plastocyanin. An Evolutionary Approach <b>1998</b> , 1499-1504   |     | 0  |