

Sofia Pauleta  
Assistant Professor  
DQ - Departamento de Química  
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## Personal information

Sofia R. Pauleta has finished her Ph.D. in Biochemistry-Biophysical Chemistry, in 2003 from the NOVA University of Lisbon. In 2007, after a post-doctoral fellowship under the co-supervision of Prof. Ivano Bertini and Prof. Paola Turano, at CERM, University of Florence (Italy) she returned to Portugal. She was awarded an Assistant Researcher position at REQUIMTE, followed by a IF-FCT-2013 researcher, a highly competitive program, as Principal Investigator, and in 2019 started the tenure-track position as Assistant Professor at FCT NOVA (teaching at the level of BSc, Master and PhD degree), and since 2022 is the Coordinator of Master degree in Biochemistry FCT NOVA.

Since 2009, after receiving her first independent research grant she started her own research lab, as PI of the Microbial Stress Lab@UCIBIO NOVA. At the moment, her team has 1 postdoctoral researcher (Junior researcher), 2 PhD students, 2 Master students (1 is an Erasmus students from Italy) and 2 undergraduate students.

Her lab uses *Neisseria gonorrhoeae*, *Escherichia coli* and *Staphylococcus aureus*, as model organisms. These bacteria are considered by CDC to be urgent health threats and are classified by WHO as high priority pathogens for R&D of new antibiotics; thus, Microbial Stress Lab aims to identify and characterize enzymes as new drug targets, which will have an impact on both the health care system and society. These enzymes are involved in detoxification of reactive oxygen species, metal resistance and alternative electron acceptors (nitrite and nitrate), which are essential during infection. In addition, her lab has been focusing on the contribution of these enzymes/protein to biofilm formation and on the identification of compounds with antimicrobial activity and anti-biofilm as possible inhibitors of these enzymes. Her lab has expertise in steady-state kinetics, spectroscopic techniques (visible, EPR, NMR, CD, resonance Raman), biomolecular NMR, microcalorimetry (ITC and DSC) and heterologous production of metalloproteins, biofilm formation and composition (*E. coli*, methicillin-resistant *S. aureus*).

## Qualifications

Biochemistry, Doctorate, Universidade NOVA de Lisboa  
1 Oct 1998 → 30 Sep 2002  
Award Date: 7 Nov 2003

Biotechnology, Bachelor, Faculdade de Ciências e Tecnologia (FCT)  
1 Oct 1993 → 30 Jun 1998  
Award Date: 30 Jun 1998

## Employment

### Assistant Professor

DQ - Departamento de Química  
Universidade NOVA de Lisboa  
Portugal  
1 Jan 2019 → present

### Principal Investigator

Researcher  
DQ - Departamento de Química  
Universidade NOVA de Lisboa  
Portugal  
1 Jan 2014 → 31 Dec 2018

### Invited Researcher

Researcher  
UCIBIO - Applied Molecular Biosciences Unit  
Universidade NOVA de Lisboa  
1 Nov 2012 → 31 Oct 2013

## Assistant Researcher

Research Assistant

CQFB-REQUIMTE - Centro de Química Fina e Biotecnologia (Lab. Associado REQUIMTE)

Universidade NOVA de Lisboa

1 Oct 2007 → 1 Oct 2012

## Research outputs

- OrpR is a  $\sigma^{54}$ -dependent activator using an iron-sulfur cluster for redox sensing in *Desulfovibrio vulgaris* Hildenborough**  
Fiévet, A., Merrouch, M., Brasseur, G., Eve, D., Biondi, E. G., Valette, O., Pauleta, S. R., Dolla, A., Dermoun, Z., Burlat, B. & Aubert, C., Jul 2021, In: *Molecular Microbiology*. 116, 1, p. 231-244 14 p.  
Research output: Contribution to journal › Article › peer-review
- Acrylamide-hemoglobin adduct: A spectroscopic study**  
Favinha, A. G., Barreiro, D. S., Martins, J. N., O'Toole, P. & Pauleta, S. R., 5 Nov 2020, In: *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*. 241, 118644.  
Research output: Contribution to journal › Article › peer-review
- The effect of pH on *Marinobacter hydrocarbonoclasticus* denitrification pathway and nitrous oxide reductase**  
Carreira, C., Nunes, R. F., Mestre, O., Moura, I. & Pauleta, S. R., 1 Oct 2020, In: *Journal of Biological Inorganic Chemistry*. 25, 7, p. 927-940 14 p.  
Research output: Contribution to journal › Article › peer-review
- Proton-coupled electron transfer mechanisms of the copper centres of nitrous oxide reductase from *Marinobacter hydrocarbonoclasticus* – An electrochemical study**  
Carreira, C., dos Santos, M. M. C., Pauleta, S. R. & Moura, I., 1 Jun 2020, In: *Bioelectrochemistry*. 133, 107483.  
Research output: Contribution to journal › Article › peer-review
- The Tetranuclear Copper-Sulfide Center of Nitrous Oxide Reductase**  
Pauleta, S. R., Carepo, M. S. P. & Moura, I., 23 Mar 2020, In: *Metal ions in life sciences*. 20  
Research output: Contribution to journal › Article › peer-review
- The bacterial Mrp<sub>ORP</sub> is a novel Mrp/NBP35 protein involved in iron-sulfur biogenesis**  
Pardoux, R., Fiévet, A., Carreira, C., Brochier-Armanet, C., Valette, O., Dermoun, Z., Py, B., Dolla, A., Pauleta, S. R. & Aubert, C., 1 Dec 2019, In: *Scientific Reports*. 9, 1, 712.  
Research output: Contribution to journal › Article › peer-review
- YhjA - An *Escherichia coli* trihemic enzyme with quinol peroxidase activity**  
Nóbrega, C. S., Devreese, B. & Pauleta, S. R., Jun 2018, In: *Biochimica et Biophysica Acta - Bioenergetics*. 1859, 6, p. 411-422 12 p.  
Research output: Contribution to journal › Article › peer-review
- Interaction between *Neisseria gonorrhoeae* bacterial peroxidase and its electron donor, the lipid-modified azurin**  
Nóbrega, C. S. & Pauleta, S. R., 1 May 2018, In: *FEBS Letters*. 592, 9, p. 1473-1483 11 p.  
Research output: Contribution to journal › Letter › peer-review
- Genomic organization, gene expression and activity profile of *Marinobacter hydrocarbonoclasticus* denitrification enzymes**  
Carreira, C., Mestre, O., Nunes, R. F., Moura, I. & Pauleta, S. R., 1 Jan 2018, In: *PeerJ*. 2018, 9, e5603.  
Research output: Contribution to journal › Article › peer-review
- Insights into the recognition and electron transfer steps in nitric oxide reductase from *Marinobacter hydrocarbonoclasticus***  
Ramos, S., Almeida, R. M., Cordas, C. M., Moura, J. J. G., Pauleta, S. R. & Moura, I., Dec 2017, In: *Journal of Inorganic Biochemistry*. 177, p. 402-411 10 p.  
Research output: Contribution to journal › Article › peer-review
- Biochemical characterization of the bacterial peroxidase from the human pathogen *Neisseria gonorrhoeae***  
Nóbrega, C. S., Raposo, M., Van Driessche, G., Devreese, B. & Pauleta, S. R., 1 Jun 2017, In: *Journal of Inorganic Biochemistry*. 171, p. 108-119 12 p.  
Research output: Contribution to journal › Article › peer-review
- Spectroscopic Definition of the Cu<sub>Z</sub><sup>o</sup> Intermediate in Turnover of Nitrous Oxide Reductase and Molecular Insight into the Catalytic Mechanism**  
Johnston, E. M., Carreira, C., Dell'Acqua, S., Dey, S. G., Pauleta, S. R., Moura, I. & Solomon, E. I., 29 Mar 2017, In: *Journal of the American Chemical Society*. 139, 12, p. 4462-4476 15 p.  
Research output: Contribution to journal › Article › peer-review

13. **Protein-Assisted Formation of Molybdenum Heterometallic Clusters: Evidence for the Formation of  $S_2MoS_2$ -M- $S_2MoS_2$  Clusters with M = Fe, Co, Ni, Cu, or Cd within the Orange Protein**  
Maiti, B. K., Maia, L. B., Pauleta, S. R., Moura, I. & Moura, J. J. G., 20 Feb 2017, In: *Inorganic Chemistry*. 56, 4, p. 2210-2220 11 p.  
Research output: Contribution to journal > Article > peer-review
14. **Insights into Nitrous Oxide Reductase**  
Pauleta, S. R., Carreira, C. & Moura, I., Jan 2017, *Metalloenzymes in Denitrification: Applications and Environmental Impacts*. Royal Society of Chemistry, Vol. 7. p. 141-169 29 p. (RSC Metallobiology; vol. 2017-January, no. 9).  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
15. **A Bird's Eye View of Denitrification in Relation to the Nitrogen Cycle**  
Moura, I., Maia, L. B., Pauleta, S. R. & Moura, J. J. G., 2017, *Metalloenzymes in Denitrification: Applications and Environmental Impacts*. 9 ed. Royal Society of Chemistry, Vol. January. p. 1-10 10 p. (RSC Metallobiology; vol. 2017-January, no. 9).  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
16. **CHAPTER 11: Electron Transfer and Molecular Recognition in Denitrification and Nitrate Dissimilatory Pathways**  
Almeida, R. M., Dell'Acqua, S., Moura, I., Pauleta, S. R. & Moura, J. J. G., 2017, *Molybdenum and Tungsten Enzymes: Biochemistry*. 9 ed. Royal Society of Chemistry, Vol. 2017-January. p. 252-286 35 p. (RSC Metallobiology; vol. 2017-January, no. 9).  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
17. **Nitrous oxide reductase (CuZ and CuA)**  
Pauleta, S. R. & Moura, I. M. A. M. G. D., 2017, *Nitrous oxide reductase (CuZ and CuA)*. Johnson, M. K. & Scott, R. A. (eds.). Wiley, (Encyclopedia of Inorganic and Bioinorganic Chemistry; vol. Metalloprotein Active Site Assembly).  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
18. **Preface**  
Moura, I., Moura, J. J. G., Pauleta, S. R. & Maia, L. B., 2017, In: *RSC Metallobiology*. 2017-January, 9, p. v  
Research output: Contribution to journal > Editorial > peer-review
19. **The small iron-sulfur protein from the ORP operon binds a [2Fe-2S] cluster**  
Maiti, B. K., Moura, I., Moura, J. J. G. & Pauleta, S. R., 1 Sep 2016, In: *Biochimica Et Biophysica Acta-Bioenergetics*. 1857, 9, p. 1422-1429 8 p.  
Research output: Contribution to journal > Article > peer-review
20. **Predicting protein-protein interactions using BiGGER: Case studies**  
Almeida, R. M. L. R. D., Dell'Acqua, S., Krippahl, L., Moura, J. J. G. & Pauleta, S. R., 1 Aug 2016, In: *Molecules*. 21, 8, 1037.  
Research output: Contribution to journal > Article > peer-review
21. **Resonance assignment of DVU2108 that is part of the Orange Protein complex in *Desulfovibrio vulgaris* Hildenborough**  
Neca, A. J., Soares, R., Carepo, M. S. P. & Pauleta, S. R., Apr 2016, In: *Biomolecular Nmr Assignments*. 10, 1, p. 117-120 4 p.  
Research output: Contribution to journal > Article > peer-review
22. **Orange protein from *Desulfovibrio alaskensis* G20: insights into the Mo-Cu cluster protein-assisted synthesis**  
Carepo, M. S. P., Carreira, C., Grazina, R., Zakrzewska, M. E., Dolla, A., Aubert, C., Pauleta, S. R., Moura, J. J. G. & Moura, I., Mar 2016, In: *Journal Of Biological Inorganic Chemistry*. 21, 1, p. 53-62 10 p.  
Research output: Contribution to journal > Article > peer-review
23. **The solution structure of the soluble form of the lipid-modified azurin from *Neisseria gonorrhoeae*, the electron donor of cytochrome c peroxidase**  
Nobrega, C. S., Saraiva, I. H., Carreira, C., Devreese, B., Matzapetakis, M. & Pauleta, S. R., Feb 2016, In: *Biochimica Et Biophysica Acta-Bioenergetics*. 1857, 2, p. 169-176 8 p.  
Research output: Contribution to journal > Article > peer-review
24. **Incorporation of molybdenum in rubredoxin: models for mononuclear molybdenum enzymes**  
Maiti, B. K., Maia, L. B., Silveira, C. M. C. F., Todorovic, S., Carreira, C., Carepo, M. S. P., Grazina, R., Moura, I., Pauleta, S. R. & Moura, J. J. G., Jul 2015, In: *Journal Of Biological Inorganic Chemistry*. 20, 5, p. 821-829 9 p.  
Research output: Contribution to journal > Article > peer-review
25. **HCN Channels: The Molecular Basis for their cAMP-TRIP8b Regulation**  
Saponaro, A., Donadoni, C., Pauleta, S. R., Cantini, F., Matzapetakis, M., Thiel, G., Banci, L., Santoro, B. & Moroni, A., 27 Jan 2015, In: *Biophysical Journal*. 108, 2, p. 366A-366A 1 p.  
Research output: Contribution to journal > Meeting Abstract > peer-review
26. **Protonation state of the Cu<sub>4</sub>S<sub>2</sub> Cu-Z site in nitrous oxide reductase: redox dependence and insight into reactivity**  
Johnston, E. M., Dell'Acqua, S., Pauleta, S. R., Moura, I. & Solomon, E. I., 2015, In: *Chemical science*. 6, 10, p. 5670-5679 10 p.  
Research output: Contribution to journal > Article > peer-review

27. **Química Bioinorgânica e luz - fotossíntese, oxigênio e água**  
Moura, J. J. G., Maia, L. B., Pauleta, S. R. & Moura, I. M. A. M. G. D., 2015, In: *Química*. 136, p. 17-19 3 p.  
Research output: Contribution to journal › Article › peer-review
28. **One Electron Reduced Square Planar Bis(benzene-1,2-dithiolato) Copper Dianionic Complex and Redox Switch by O<sub>2</sub>/HO<sup>-</sup>**  
Maiti, B. K., Maia, L. B. L., Pal, K., Pakhira, B., Avilés, M. T., Moura, I. M. A. M. G. D., Pauleta, S. R., Nunez, J. L., Rizzi, A. C., Brondino, C. D., Sarkar, S. & Moura, J. J. G. D., 15 Dec 2014, In: *Inorganic Chemistry*. 53, 24, p. 12799-12808  
Research output: Contribution to journal › Article › peer-review
29. **Structural basis for the mutual antagonism of cAMP and TRIP8b in regulating HCN channel function**  
Saponaro, A., Pauleta, S. R., Cantini, F., Matzapetakis, M., Hammann, C., Donadoni, C., Hu, L., Thiel, G., Banci, L., Santoro, B. & Moroni, A., 7 Oct 2014, In: *Proceedings of the National Academy of Sciences of the United States of America*. 111, 40, p. 14577-14582  
Research output: Contribution to journal › Article › peer-review
30. **Electronic structure and reactivities of resting and intermediate forms of the tetranuclear copper cluster in nitrous oxide reductase**  
Johnston, E. M., Dell'Acqua, S., Gorelsky, S., Moura, I., Solomon, E. I. & Pauleta, S. R., Aug 2014, In: *Abstracts Of Papers Of The American Chemical Society*. 248, 1 p.  
Research output: Contribution to journal › Meeting Abstract › peer-review
31. **Metal substituted rubredoxins: a sulfur rich coordination site as models for metalloenzymes**  
Moura, J. J. G., Maiti, B. K., Carreira, C., Maia, L. B., Carepo, S. P., Pauleta, S. R. & Moura, I., Aug 2014, In: *Journal Of Biological Inorganic Chemistry*. 19, p. S731-S731 1 p.  
Research output: Contribution to journal › Meeting Abstract › peer-review
32. **Synthesis and characterization of [S<sub>2</sub>MoS<sub>2</sub>Cu(n-SPhF)](2-) (n = o, m, P) clusters: Potential F-19-NMR structural probes for Orange Protein**  
Maiti, B. K., Avilés, M. T., Moura, I., Pauleta, S. R. & Moura, J. J. G., Jul 2014, In: *Inorganic Chemistry Communications*. 45, p. 97-100 4 p.  
Research output: Contribution to journal › Article › peer-review
33. **Mo-Cu metal cluster formation and binding in an orange protein isolated from *Desulfovibrio gigas***  
Carepo, M. S. P., Pauleta, S. R., Wedd, A. G., Moura, J. J. G. D. & Moura, I. M. A. M. G. D., Jun 2014, In: *Journal of Biological Inorganic Chemistry*. 19, 4-5(SI), p. 605-614  
Research output: Contribution to journal › Article › peer-review
34. **INSIGHTS INTO THE CATALYTIC CYCLE OF *Pseudomonas nautica* NITROUS OXIDE REDUCTASE**  
Moura, I., Carreira, C., Pauleta, S., Nunes, R. F., Moura, J. J., Ramos, S., Dell'Acqua, S. & Einsle, O., Mar 2014, In: *Journal Of Biological Inorganic Chemistry*. 19, p. S104-S104 1 p.  
Research output: Contribution to journal › Meeting Abstract › peer-review
35. **The Auxiliary Subunit TRIP8B Inhibits the Binding of cAMP to HCN2 Channels Through an Allosteric Mechanism**  
Saponaro, A. C., Matzapetakis, M., Santoro, B., Pauleta, S. R. & Moroni, A., 28 Jan 2014, In: *Biophysical Journal*. 106, 2, p. 758A-758A 1 p.  
Research output: Contribution to journal › Meeting Abstract › peer-review
36. **Determination of the active form of the tetranuclear copper sulfur cluster in nitrous oxide reductase**  
Johnston, E. M., Dell'Acqua, S., Ramos, S. J. G., Pauleta, S. R., Moura, I. M. A. M. G. D. & Solomon, E. I., 15 Jan 2014, In: *Journal of the American Chemical Society*. 136, 2, p. 614-617  
Research output: Contribution to journal › Article › peer-review
37. **Química de coordenação e Biologia: controlo da actividade enzimática por alteração da coordenação de centros metálicos catalíticos**  
Maia, L. B., Pauleta, S. R. & Moura, J. J. G., 2014, In: *Química*. 132, p. 9-21 12 p.  
Research output: Contribution to journal › Article › peer-review
38. **<sup>1</sup>H, <sup>13</sup>C and <sup>15</sup>N resonance assignment of the soluble form of the Lipid-modified Azurin from *Neisseria gonorrhoeae***  
Nóbrega, C. S., Matzapetakis, M. & Pauleta, S. R., 1 Oct 2013, In: *Biomolecular Nmr Assignments*. 7, 2, p. 311-314 4 p.  
Research output: Contribution to journal › Article › peer-review
39. **Iron-Sulfur Centers: New Roles for Ancient Metal Sites**  
Grazina, R., Pauleta, S. R., Moura, J. J. G. & Moura, I., Aug 2013, *Comprehensive Inorganic Chemistry II: From Elements to Applications*. 2nd ed. Elsevier Ltd, Vol. 3. p. 103-148 46 p.  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › peer-review
40. **Structural rearrangements occurring on HCN2 CNBD domain upon cAMP binding**  
Saponaro, A., Matzapetakis, M., Moroni, A. & Pauleta, S., Jul 2013, In: *European Biophysics Journal With Biophysics Letters*. 42, p. S181-S181 1 p.  
Research output: Contribution to journal › Article › peer-review

41. **Marinobacter hydrocarbonoclasticus is an aerobic denitrifier**  
Pauleta, S. R. & Moura, I. M. A. M. G. D., 1 Jan 2013, *11th European Biological Inorganic Chemistry Conference (EUROBIC 11)*. Vol. NA. p. 49-52  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > peer-review
42. **Copper-substituted forms of the wild type and C42A variant of rubredoxin**  
Thapper, A., Rizzi, A. C., Brondino, C. D., Wedd, A. G., Pais, R. J., Maiti, B. K., Moura, I. M. A. M. G. D., Pauleta, S. R. & Moura, J. J. G. D., 2013, In: *Journal of Inorganic Biochemistry*. 127, p. 232-237  
Research output: Contribution to journal > Article > peer-review
43. **Nitrous oxide reductase**  
Dell'Acqua, S., Pauleta, S. R. & Moura, I. M. A. M. G. D., 2013, *Nitrous oxide reductase*. Kretsinger, R. H., Uversky, V. N. & Permyakov, E. A. (eds.). Springer, (Encyclopedia of Metalloproteins).  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review
44. **Rearrangement of Mo-Cu-S Cluster Reflects the Structural Instability of Orange Protein Cofactor.**  
Maiti, B. K., Avilés, M. T., Carepo, M. S. P., Moura, I. M. A. M. G. D., Pauleta, S. R. & Moura, J. J. G. D., 2013, In: *Zeitschrift Fur Anorganische Und Allgemeine Chemie*. 639, 8-9(SI), p. 1361-1364  
Research output: Contribution to journal > Article > peer-review
45. **Superoxide Reductase: Different Interaction Modes with its Two Redox Partners**  
Almeida, R., Turano, P., Moura, I. M. A. M. G. D., Pauleta, S. R. & Moura, J. J. G. D., 2013, In: *Chembiochem*. 14, 14, p. 1858-1866  
Research output: Contribution to journal > Article > peer-review
46. **Analysis of resonance Raman data on the blue copper site in pseudoazurin: Excited state  $\pi$  and  $\sigma$  charge transfer distortions and their relation to ground state reorganization energy**  
Hadt, R. G., Xie, X., Pauleta, S. R., Moura, I. M. A. M. G. D. & Solomon, E. I., 1 Oct 2012, In: *Journal of Inorganic Biochemistry*. 115, p. 155-162 8 p.  
Research output: Contribution to journal > Article > peer-review
47. **Synthesis of  $[\text{MoS}_4]^{2-}$ -M (M = Cu and Cd) clusters: Potential NMR spectroscopic structural probes for the orange protein**  
Maiti, B. K., Avilés, T., Matzapetakis, M., Moura, I., Pauleta, S. R. & Moura, J. J. G., 1 Sep 2012, In: *European Journal of Inorganic Chemistry*. 26, p. 4159-4166 8 p.  
Research output: Contribution to journal > Article > peer-review
48. **Biochemical characterization of the purple form of *Marinobacter hydrocarbonoclasticus* nitrous oxide reductase**  
Moura, J. J. G. D., Pauleta, S. R. & Moura, I. M. A. M. G. D., 1 Jan 2012, In: *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*. 367, 1593, p. 1204-12  
Research output: Contribution to journal > Article > peer-review
49. **Copper tolerance in *Marinobacter hydrocarbonoclasticus* - Proteomic analysis of the periplasm**  
Silveira, C. M., Matzapetakis, M., Gabriela Almeida, M. & Pauleta, S. R., 2012, *MICROBES IN APPLIED RESEARCH: CURRENT ADVANCES AND CHALLENGES*. MendezVilas, A. (ed.). World Scientific Publishing Co. Pte Ltd, p. 608-612 5 p.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > peer-review
50. **Artefacts induced on c-type haem proteins by electrode surfaces**  
Moura, J. J. G. D., Videira, P. D. M. P. D. S., Pauleta, S. R. & Moura, I. M. A. M. G. D., 1 Jan 2011, In: *Journal Of Biological Inorganic Chemistry*. 16, 2, p. 209-215  
Research output: Contribution to journal > Article > peer-review
51. **Gd(III) Chelates as NMR Probes of Protein-Protein Interactions. Case Study: Rubredoxin and Cytochrome c(3)**  
Moura, J. J. G. D. & Pauleta, S. R., 1 Jan 2011, In: *Inorganic Chemistry*. 50, 21, p. 10600-10607  
Research output: Contribution to journal > Article > peer-review
52. **The Anaerobe-Specific Orange Protein Complex of *Desulfovibrio vulgaris* Hildenborough Is Encoded by Two Divergent Operons Coregulated by  $\sigma(54)$  and a Cognate Transcriptional Regulator**  
Pauleta, S. R. & Moura, I. M. A. M. G. D., 1 Jan 2011, In: *Journal of Bacteriology*. 193, 13, p. 3207-3219  
Research output: Contribution to journal > Article > peer-review
53. **The electron transfer complex between nitrous oxide reductase and its electron donors**  
Moura, J. J. G. D., Pauleta, S. R. & Moura, I. M. A. M. G. D., 1 Jan 2011, In: *Journal Of Biological Inorganic Chemistry*. 16, 8, p. 1241-1254  
Research output: Contribution to journal > Article > peer-review
54. **The tetranuclear copper active site of nitrous oxide reductase: the CuZ center**  
Moura, J. J. G. D., Pauleta, S. R. & Moura, I. M. A. M. G. D., 1 Jan 2011, In: *Journal Of Biological Inorganic Chemistry*. 16, 2, p. 183-194  
Research output: Contribution to journal > Article > peer-review
55. **A new CuZ active form in the catalytic reduction of  $\text{N}_2\text{O}$  by nitrous oxide reductase from *Pseudomonas nautica***  
Dell'Acqua, S., Pauleta, S. R., Sousa, P. M. P. D., Mönzani, E., Casella, L., Moura, J. J. G. & Moura, I., 1 Aug 2010, In: *Journal of Biological Inorganic Chemistry*. 15, 6, p. 967-976 10 p.  
Research output: Contribution to journal > Article > peer-review

56. **The 1.4 Å resolution structure of *Paracoccus pantotrophus* pseudoazurin**  
Najmudin, S., Pauleta, S. R., Moura, I. & Romão, M. J., 10 Jun 2010, In: *Acta Crystallographica Section F: Structural Biology and Crystallization Communications*. 66, 6, p. 627-635 9 p.  
Research output: Contribution to journal > Article > peer-review
57. **Pressure Perturbation Calorimetry and the Thermodynamics of Noncovalent Interactions in Water: Comparison of Protein-Protein, Protein-Ligand, and Cyclodextrin-Adamantane Complexes**  
Pauleta, S. R., 1 Jan 2010, In: *Journal Of Physical Chemistry B*. 114, 49, p. 16228-16235  
Research output: Contribution to journal > Article > peer-review
58. **Rubredoxin as a paramagnetic relaxation-inducing probe**  
Almeida, R. M., Pauleta, S. R., Moura, I. & Moura, J. J. G., 1 Sep 2009, In: *Journal of Inorganic Biochemistry*. 103, 9, p. 1245-1253 9 p.  
Research output: Contribution to journal > Article > peer-review
59. **Molecular interactions/electron transfer protein complexes using Docking algorithms, spectroscopy (NMR) and site direct mutagenesis**  
Moura, J., Krippahl, L., Pauleta, S., Almeida, R. & Del Acqua, S., Jul 2009, In: *Febs Journal*. 276, p. 11-11  
Research output: Contribution to journal > Meeting Abstract > peer-review
60. **The electron transfer complex between *D. gigas* Superoxide Reductase and Rubredoxin**  
Almeida, R., Pauleta, S., Moura, I. & Moura, J. J. G., Jul 2009, In: *Febs Journal*. 276, p. 128-128  
Research output: Contribution to journal > Meeting Abstract > peer-review
61. **A variable temperature spectroscopic study on *Paracoccus pantotrophus* pseudoazurin: Protein constraints on the blue Cu site**  
Pauleta, S. R., Gonzalez, P. J. & Moura, I. M. A. M. G. D., 1 Jan 2009, In: *Journal of Inorganic Biochemistry*. 103, 10, p. 1307-1313  
Research output: Contribution to journal > Article > peer-review
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## Awards

**Destoxificação de peróxido de hidrogénio por Bactérias Patogénicas - Peroxidase tri-hémicas de E.coli como modelo**  
 Pauleta, S.

Fundação para a Ciência e a Tecnologia: €230,446.85

1/10/18 → 31/10/22