SCIENCESPRINGDAY

FCT FACULDADE DE CIÊNCIAS E TECNOLOGIA UNIVERSIDADE NOVA DE LISBOA

Department of Chemistry – FCT – UNL
***Campus* de Caparica**

BIOINORGANIC CHEMISTRY – PROTEIN ENGINEERING

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Isabel Moura

(Professor of Chemistry)

http://sites.fct.unl.pt/biologicalchemistryatfctunl/

Research Activities – Key words

Sulfate reducing bacteria / Denitrifying bacteria / metalloproteins / spectroscopy (EPR, NMR, MB) / protein sequencing / iron-sulfur centres / hemes / nitrite reductase / nitrate reductase /nitric oxide reductase/nitrous oxide reductase/ formate dehydrogenase / new iron containing centres / redox properties/ new molybdocontaining proteins (Mo and Cu and Mo and Fe).

Teatching Experience

- Analytical Biochemistry
- Biochemistry
- Biophysical Chemistry
- Magnetic Resonance Techniques applied to Biological Systems
- Bioinorganic
- Undergraduate, Master and PhD programs
- Science divulgation

Last Publications

- BIOCHEMICAL CHARACTERIZATION OF THE PURPLE FORM OF *M. HYDROCARBONOCLASTICUS* NITROUS OXIDE REDUCTASE, S.Dell'Acqua, S.R. Pauleta*, J.J. G. Moura and I.Moura , *Proceedings of the Royal society B* **367**, 1204 1212 (2012)
- IRON-SULFUR CENTERS: NEW ROLES FOR ANCIENT METAL SITES, R. Grazina, S. Pauleta, J.J.G. Moura and I. Moura, Bioinorganic Fundamentals and Applications: Metals in Natural Living Systems, vol 3 (2012).
- PERIPLASM NITRATE REDUCTASES AND FORMATE DEHYDROGENASES:CONTROL OF THE CHEMICAL PROPERTIES OF MO AND W FOR FINE TUNING OF REACTIVITY AND SUBSTRATE SPECIFICITY, Pablo J. Gonzalez, Maria G. Rivas, Cristiano S. Mota, Carlos D. Brondino, Isabel Moura, José J. G. Moura, 65th Birthday celebration issue of CCR for Ed Solomon (2013) 2,315-331.
- NITROUS OXIDE REDUCTASE, Sofia R. Pauleta, Simone Dell'Acqua, Isabel Moura 65th Birthday celebration issue of CCR for Ed Solomon (2013) **2**,332-349.
- ELECTROCHEMICAL BEHAVIOUR OF BACTERIAL NOR-EVIDENCES OF LOW REDOX POTENTIAL NON-HEME FeB GIVE NEW PERSPECTIVES ON THE CATALYTIC MECHANISM, C.M.Cordas, A.G.Duarte, J.J.G.Moura and I.Moura, *Biochim.Biophys.Acta –Bioenergetics* **1827**, 233-238 (2013).
- SUBSTRATE-DEPENDENT MODULATION OF THE ENZYMATIC CATALYTIC ACTIVITY: REDUCTION OF NITRATE, CHLORATE AND PERCHLORATE BY RESPIRATORY NITRATE REDUCTASE FROM MARINOBACTER HYDROCARBONOCLASTICUS 617., Jacopo Marangon, Patrícia M. Paes de Sousa, Isabel Moura, Carlos D. Brondino, José J.G. Moura and Pablo J. González *Biochim Biophys Acta.* **1817**,1072-82(2012).

Research Parameters

Number of papers-363
Citations-9335
Average citation per item-25.7 H-factor = 51

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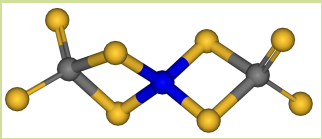

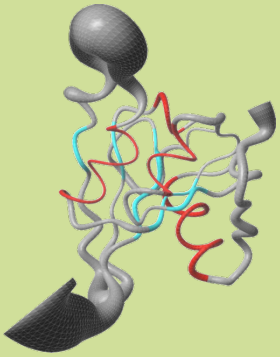

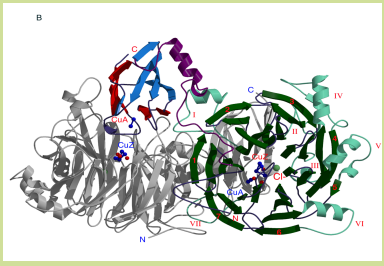

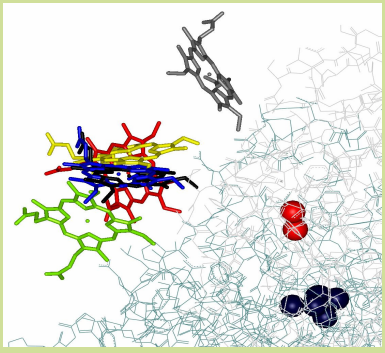

Funding

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MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

DAAD / ANR