

IBMC - Instituto de Biologia Molecular e Celular

Postdoctoral fellowship (f/m)

Internal Code: Norte2020NEURO19

Project: NORTE-01-0145-FEDER-000008 – Porto Neurosciences and Neurologic Disease Research Initiative at i3S

Title: The molecular mechanism of peroxisome biogenesis in mammals

IBMC/i3S is opening **1 (one) Postdoctoral Fellowship** to join its Research Program in Organelle Biogenesis and Function.

We are looking for a Fellow holding a PhD in Molecular Biology, Biochemistry, Cell Biology or related fields with experience and full autonomy in working in with proteins and DNA/RNA at all levels of production, purification and characterization. English language, both spoken and written, and good inter-personal relationships in the context of a multidisciplinary research team are essential attributes. Preference will be given to candidates with these characteristics.

Group: Organelle Biogenesis and Function (OBF)

PI: Jorge E. Azevedo

Work Plan:

Peroxisomes are single membrane-bound organelles involved in many biochemical pathways. The vital importance of these organelles in human health and development is underscored by a group of genetic diseases - the peroxisomal biogenesis disorders (PBDs) - in which peroxisomes are partially or completely non-functional. PBDs are caused by mutations in genes encoding proteins involved in peroxisomal maintenance and inheritance, the so-called peroxins or PEX proteins.

From the 16 mammalian peroxins presently known, 10 are involved in the import of newly synthesized proteins into the matrix of the organelle. These include the shuttling receptors PEX5 and PEX7, and several proteins of the peroxisomal membrane. In addition to these peroxins, the peroxisomal protein import machinery also comprises other components. These are mostly involved in ubiquitination/deubiquitination of PEX5. This project aims at characterizing in detail this protein sorting machinery. Several biochemical approaches will be used for this purpose, all of which are already implemented in the laboratory.

The work will be developed at Instituto de Investigação e Inovação em Saúde - i3S, Porto, Portugal.

The Postdoctoral Fellowship will be for 12 months, renewable up to 36 months, and it is expected to start in May 1st 2016.

The fellowship amount is 1495 euros, paid by bank transfer, preferentially.
(<http://alfa.fct.mctes.pt/apoios/bolsas/valores>)

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Fellowships are regulated by current laws relating to the Statute of Science Research Fellows, namely Law 40/2004 of August 18, amended and republished by Decree-Law No. 202/2012 of 27 August and the Regulation of Scientific Research Studentships of IBMC approved by Fundação para a Ciência e Tecnologia
(<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf>)

Selection Committee:

Jorge Eduardo da Silva Azevedo, PhD
Tânia Filipa Arsénio Geraldes Francisco, PhD
Tony Alexandre Quinteiros Rodrigues, PhD

Applications are open from March 15th to March 31st, 2016.

To apply for the Postdoctoral Fellowship interested candidates must hold a PhD degree and submit the following documents a) Complete CV; b) Letter of Motivation; and c) Referee Letter, *via* the online application system:

<http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=Norte2020NEURO19>

The ranking list of candidates will be published at IBMC website, and the selected candidate will be notified by email.