**IBMC - Instituto de Biologia Molecular e Celular**

**BIM fellowship (f/m)**

**Internal Code:** Norte2020NEURO57

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

**Title:** Characterization of the mammalian peroxisomal matrix protein import pathway using an in vitro system

IBMC/i3S is opening **1 (one) BIM** to join its Research Program in **Dissecting the molecular mechanisms of peroxisomal biogenesis**

We are looking for a fellow with a Master degree in Biochemistry, Biology, or related fields with a final score ≥ 16. The candidate should have full autonomy in working in Molecular Biology and Biochemistry. Preference will be given to candidates with previous experience in cloning, recombinant protein production and purification, and rat/mouse organelle isolation. Previous experience in the field of organelle structure/biochemistry/biogenesis would be valued. Applicants should be fluent in English and be capable of establishing good inter-personal relationships in the context of a research team. The candidate should be available to join the team immediately.

**Group: Organelle Biogenesis and Function (OBF)**

**PI: Jorge 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 receptor PEX5 and the ancillary factor PEX7, as well as 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.

**Selection of candidates:**

Candidates will be selected according to theirs CVs and, if necessary, through an interview.

The BIM Fellowship will be for 1 year, and it is expected to start in November 1st, 2017.

The fellowship amount is 980 euros, paid by bank transfer, preferentially.
(http://alfa.fct.mctes.pt/apoios/bolsas/valores)

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:
Tânia Francisco, PhD
Tony Rodrigues, PhD
Aurora Barbosa, PhD

Applications are open from September 22 September to 18 October, 2017.

To apply for the Research Fellowship interested candidates must submit a complete CV *via* the online application system at:

http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=Norte2020NEURO57

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