

IBMC - Instituto de Biologia Molecular e Celular

Master fellowship (f/m)

Internal Code: PR341801

Project: FLAD -Life Science 2020

Title: *Structural characterization of bacterial K⁺ transporters*

IBMC/i3S is opening **1 (one) Master Fellowship** to join its Research Program in Mechanisms of transport and regulation in bacterial K⁺ transporters.

We are looking for candidates holding a Master degree in Biochemistry or related fields. Working knowledge of protein expression and purification and protein crystallization is highly desirable. Knowledge of English language, both spoken and written, and good inter-personal qualities in the context of a multidisciplinary research team are also essential attributes.

Group and PI: Structural Biochemistry, João Morais-Cabral.

Work Plan: The cellular K⁺ homeostasis machinery includes a variety of membrane proteins that mediate K⁺ transport. In many cases these macromolecules have not been properly characterized and their structure is unknown. This project is focused on bacterial membrane protein expression, crystallization and biophysical characterization of molecular properties. Specific tasks involve: generation of expression plasmids, expression and purification of protein, protein crystallization trials, determination of structure using X-ray crystallography and characterization of molecular properties using biochemical and biophysical techniques.

Selection: Using a scale ranging from 0 to 20 candidates will be first ranked according to their curricular details and letter of motivation. Candidates classified with more than 15 points will be called for an interview. Final candidate ranking will include outcome of interview (weight of 70%) and curricular evaluation (weight of 30%).

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

The Fellowship will last 6 months, potentially renewable up to 12 months, and is expected to start March 1st 2018.

The fellowship pays 980 euros per month, preferentially paid by bank transfer.
(<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:
João Morais Cabral, PhD
Carol Harley, PhD
Rita Rocha, PhD

Applications are open from January 25th to February 4th, 2018.

To apply for the Fellowship interested candidates must submit the following documents: a) Complete CV; b) Letter of Motivation with clear description of laboratory skills and prior working experience and names of references, c) Certificate of Master degree with discriminated grades. Documents must be submitted *via* the online application system:

<http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=PR341801>

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