

Research Fellowship (M/F)

Title of the Project: Spatiotemporal control of epithelial architecture during cell division (PTDC/BEX-BCM/0432/2014, project funded by FCT)

Internal Reference: PR041603

Working place: Cell Division and Genomic Stability, IBMC/I3S (Instituto de Investigação e Inovação em Saúde, Universidade do Porto, Rua Alfredo Allen, 208, Porto) supervised by Dr. Eurico Morais de Sá

Summary of work program: The epithelial tissue is polarized along an apico-basal axis with functionally distinct cortical domains. Research in the field has focused on the mechanisms that control apico-basal polarity, but how these asymmetries are remodelled during cell division is still rather unexplored. Our recent findings revealed that the key basolateral determinant Lgl is released from the cortex during mitosis to promote correct mitotic spindle orientation. We will now 1) identify the mechanism that participate on Lgl cortical reloading at mitotic exit 2) examine the role of this event on polarization of new daughter cells and 3) determine how phosphorylation controls Lgl interaction with cortical binding partners.

Candidate profile: We are looking for a high motivated fellow holding a Master degree in Biochemistry, Biology or related area with a final score ≥ 18 . Experience in *Drosophila* genetics, cell culture and confocal microscopy is **required**.

Application procedure: Applications should include a letter of motivation, *curriculum vitae*, Master certificate, at least one reference letter and a short description of research achievements. They must be submitted between the **15th of November and the 28th of November, 2016** on the IBMC webpage:

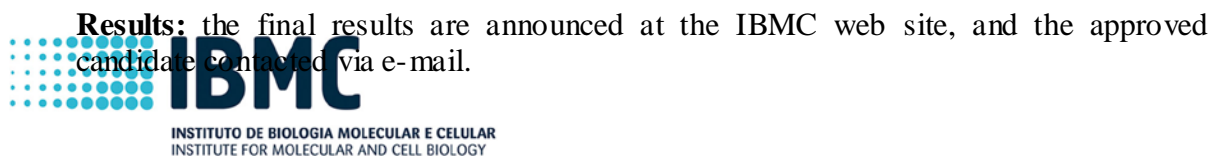
<http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=PR041603>

Legislation and applicable laws: Employment at the IBMC is regulated by current laws relating to the Statute of Science Research Fellows of Fundação para a Ciência e Tecnologia, I.P. - 2015, 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 the IBMC approved by Fundação para a Ciência e Tecnologia (www.ibmc.up.pt/fellowships.php)

Evaluation of applications:

The candidates with the required profile will be selected based on the written documentation (CV (80%), motivation letter (10%) and references (10%).

Jury: President – Eurico Morais de Sá (PhD); Ordinary members – Claudio Sunkel (PhD) and Carlos Conde (PhD).



Grant conditions:

The fellowship is expected to start in the 1st of December, 2016 and will be awarded for 7 months. The monthly amount of the fellowship is € 980.00 (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>), preferentially paid by bank transfer. The selected candidates will benefit from an excellent research environment, and have access to state of the art facilities for advanced light microscopy.