

Post-doctoral Fellowship (M/F)

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

Internal Reference: PR041701

Working place: Cell Division and Genomic Stability, 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 forms an essential mechanical and chemical barrier separating the compartments of multicellular organisms. This function relies on its cohesive structure achieved by intercellular junctions. Cell division represents a major challenge to tissue integrity, as the separation of the new daughter cells must be tightly coordinated with the attachment to the surrounding tissue. By combining genetic screens with quantitative microscopy in live *Drosophila* tissue and cell lines, we aim to decipher the mechanisms that control the epithelial-specific features of cell division, transmitting epithelial organization to the new daughter cells. Since loss of epithelial architecture underlies many pathological conditions, this project will provide critical insight to tackle pathways deregulated in human disease.

Candidate profile: We are looking for a high motivated and independent fellow holding a PhD degree in Biochemistry, Biology or related area, that recently concluded his/her PhD degree, and having at least one paper as first author in peer-reviewed journals. Good knowledge of spoken and written English is essential. Preference will be given to candidates with prior experience in confocal microscopy, *Drosophila* genetics and/or cell culture.

Application procedure: Applications should include a letter of motivation, *curriculum vitae*, at least one reference letter, PhD Certificate and a short description of research achievements. They must be submitted between the **20th of February and the 21st of March 2017** on the IBMC webpage:

<http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=PR041701>

Legislation and applicable laws: Fellowships at the IBMC are 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 (35%), motivation letter (5%) and references (10%)). The most qualified candidates from the initial selections will be then subjected to a final selection step based on a personal interview (50% to sum up with the evaluation of the written documents).

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

Results: the final results are announced at the IBMC web site, and the approved candidate contacted via e-mail.

Grant conditions:

The fellowship is expected to start in the 1st of April, 2017 and will be awarded initially for 12 months, being renewable for a maximum of 26 months. The monthly amount of the fellowship is €1495.00 (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>), preferentially paid by bank transfer. The selected candidates will benefit from an excellent research environment, and will have access to state of the art facilities for advanced light microscopy.