Call for a Postdoctoral Fellowship

UID/Multi/04555/2019

A call is open for a Postdoctoral Fellowship (BPD) for PhD holder under the R&D Unit with reference ‘Instituto Gulbenkian de Ciência UID/Multi/04555/2019’ at the IGC - Instituto Gulbenkian de Ciência, Oeiras, Portugal, funded by national funds through FCT/MCTES (PIDDAC), as follows:

Scientific Areas: Bioelectric control of collective cell migration in vivo.

Admission Requisites:
PhD in any relevant Molecular Biosciences discipline is mandatory. We are looking for a highly motivated person, passionate by science and technology, eager to learn and to solve problems, with personal competences to work in a multidisciplinary environment and high degree of initiative and maturity.

Additionally, we will encourage to apply candidates with:

i) Previous experience with zebrafish and Xenopus embryo work.
ii) A minimum of 5 years Lab experience is required.
iii) Experience in the application of bioelectricity techniques in vivo (zebrafish and/or Xenopus).
iv) Experience in the use of vibrating voltage probe in vivo (zebrafish and/or Xenopus).
v) Experience in the use of self-referencing micro-optrode techniques in vivo (zebrafish and/or Xenopus).
vi) Justification of the intention to work in a multidisciplinary project involving mechanical and bioelectrical approaches to cell migration is compulsory.
vii) Capacity to work both independently and as a part of an international team are required.
viii) High commitment and a collaborative attitude are needed for this job.
ix) Troubleshooting capacity and attention to detail are extremely important.
x) Experience with ASET and Clampfit software, ImageJ, Prism, Illustrator, and Photoshop is also required.
x) Good communication skills, including a good level of spoken English is necessary.

Work plan:
The selected candidate will join the Mechanisms of Morphogenesis lab in October 2019. The activities that the candidate will perform are: 1) Measurement of electric fields in vivo, with vibrating voltage probes, hence experience in these methods are a requirement; 2) Imaging and analysis of cell migration under native electrical contexts; 3) Analysis of collective cell migration upon modification of bioelectrical parameters vivo and ex vivo; 4) Development of novel assays to study collective cell migration in response to electric fields in vivo; 5) Transfer of knowledge to graduate students when requested by the PI; and 6) General lab maintenance chores when requested by the PI.
Applicants with experience in bioelectrical analysis will have a priority as they will complement the host lab skills.

**Legislation and Applicable Regulation:** Statute of the Scientific Research Fellow, Research Fellowship Regulations of the Foundation for Science and Technology I.P. in force; and the Research Fellowship Regulations from Instituto Gulbenkian de Ciência (IGC), Oeiras, Portugal. To know more about the changes introduced on the Statute of the Scientific Research Fellow by the Law Decree nº 123/2019 please consult the link [https://dre.pt/web/guest/home/-/dre/124256707/details/maximized?res=pt#resumo-claro](https://dre.pt/web/guest/home/-/dre/124256707/details/maximized?res=pt#resumo-claro)

Please note that according to the Law Decree nº 123/2019 the Postdoctoral Fellowships can only have a maximum duration of three years and can only be assigned to persons that obtained the PhD degree less than three years ago.

**Working place:** The work will be developed at IGC (Instituto Gulbenkian de Ciência, Oeiras, Portugal), in the Mechanisms of Morphogenesis group under the scientific supervision of Doctor Elias H Barriga and the applicant my also travel for further training to collaborating labs, if required.

**Fellowship Duration:** The postdoctoral fellowship will be for a period up to a maximum of 36 months, which can be renewed, in agreement with the project-allocated budget for human resources.

**Monthly Allowance:** The present fellowship corresponds to € 1.509,80 (PhD) + Social Security, according to the Portuguese guidelines directly defined by FCT (Fundação para a Ciência e a Tecnologia, I.P) ([https://www.fct.pt/apoios/bolsas/valores.phtml.pt](https://www.fct.pt/apoios/bolsas/valores.phtml.pt)) and the Research Fellowship Regulations from the Instituto Gulbenkian de Ciência (IGC), Oeiras, Portugal. Payment will be made by bank transfer.

**Selection Methods:**

The selection criteria will be application evaluation (50%) and interview (50%). A pre-selection for interview will be performed based on the application evaluation, and the candidates with higher score will be selected for interview (up to 2 candidates). After interview, the candidate with higher final score will be selected. The selection for interview will be dependent on the fulfilment of the mandatory criteria (20%), and in such case, assessment of the preferential (20%) and presentation letter (10%). Candidates that do not fulfil the mandatory criteria will not be considered for interview and application effects.

**Jury Composition:**

Dr. Elias H Barriga, Dr. Monica Dias, and Dr. Ivo Telley. Substitute members (optative) Dr. Caren Norden.

**Announcement and Communication of Results:** The assessment results will be sent to all candidates by email and to FCT by registered surface mail.
Application structure and deadline: The present call is open between 20 September 2019 and 3 October 2019.

The applications should be sent to ebarriga@igc.gulbenkian.pt with the title: “Application BPD-IGC, UID/Multi/04555/2019 – Candidate’s Surname”. The documents should be sent in English as single Portable Document Format (PDF) and include: Proof of Degree (Degree Certificate), updated Curriculum Vitae, motivation letter and names and contacts of two references.