

Open Call for a Research Fellowship in the Project EMBO-4152

The Instituto Gulbenkian de Ciência is welcoming applications to a Postdoctoral Research Fellowship within the project **EMBO-4152**, with the title “Fitness landscapes and the predictability of evolution”, financed by EMBO with the following conditions:

1. Duration: The fellowship will have the duration of 12 months with the possibility of renewal until the end of the project or until the end date of the project’s possible renewal, expected to start in May 2020, in the exclusiveness regime as the regulation of research fellow by the Fundação para a Ciência e Tecnologia, IP into force.

2. Subject of Activities: In this project, we will aim at modeling the costs of antibiotic resistance across environments using the concept of fitness landscapes. The candidate will work closely with our long-term collaborators, specifically with Thomas Bataillon (Aarhus University). The project involves mathematical modeling, simulations and data analysis. The goal is to understand and potentially predict how costs of resistance vary across environments, and thus to address how the potential for adaptation is contingent on the environment and the genetic background. The desired candidate has strong expertise in mathematical modeling both through analytical approaches and simulations, and has previously addressed evolutionary questions.

3. Research Groups: Evolutionary Dynamics – Claudia Bank

4. Academic Profile and Selection Criteria: PhD in applied Physics or Mathematics or related scientific area. The desired candidate has experience in mathematical modeling through analytical approaches and simulations. It is essential that the candidate has experience in addressing evolutionary questions using the concept of fitness landscapes.

5. 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 page <https://dre.pt/web/guest/home/-/dre/124256707/details/maximized?res=pt#resumo-claro>

6. Subsidy Month Stipend: According to the regulations of the FCT Scientific Fellowships in Portugal (€1600/month + Social Security + complement 300€), <http://www.fct.pt/apoios/bolsas/valores>, the payment will be made by bank transfer.

7. Application Documents: Motivation letter, *Curriculum Vitae* (including contacts of two references) and *proof of degree* should be sent by e-mail in a single PDF file named “EMBO4152_postdoc.pdf” to the Email address: claudiab@igc.gulbenkian.pt

8. Methods of Selection and Evaluation: The selection procedure shall be as follows: CV and previous experience (60%) and motivation letter (20%). The top candidates will be interviewed (20%).

9. Jury Selection: Chairman: Claudia Bank, PhD. Other members: Vera Martins, PhD, and Lounès Chikhi, PhD.

10. Form of Advertising / Notification of results: The assessment results will be sent to all candidates by email.

11. Application Period: From 09.03.2020 until 24.03.2020.