

CALL FOR AWARDING RESEARCH FELLOWSHIPS WITHIN PROJECT GRANTS AND R&D INSTITUTIONS

One Research Doctoral Fellowship

One Research Doctoral Fellowship open at the **FCiências.ID – Associação para a Investigação e o Desenvolvimento de Ciências**, for the project/R&D institution BioISI – Biosystems & Integrative Sciences Institute, UID/Multi/04046/2013, financed by national funds by FCT / MCTES (PIDDAC) under the programme), under the following conditions:

1. **Scientific Area:** Biomedicine; Life Sciences
2. **Requirements for admission:** PhD Degree holder, h-index (Scopus) of 12, experience in mass spectrometry, tissue culture, FTIR analysis of living cells and experience in advising MSc theses.
3. **Factors preferred:** Degree in Biology, PhD in Biochemistry (Pharmaceutical and Toxicological Biochemistry), PhD awarded no more than 6 years prior 1st January 2018, Post-Doctoral experience in an International Research Institute on application of biological FTIR spectroscopy, more than 30 international peer reviewed publications.
4. **Work plan: FTIR4Cells**
Objectives: Biomarkers for identification of cystic fibrosis cell mutants, and effect of drugs and bioactive compounds combinations in cells;
Methodology: Search for biomarkers as well as the effect of bioactive compounds will be accomplished using cell culture methods. The bioactive molecules will be identified using LC-MS/MS and cells will be incubated with these compounds. To analyse the effect of these molecules and to the search for cell biomarkers FTIR spectroscopy will be used. The methodology of living cells analysed by FTIR spectroscopy allows the identification of biomarkers between wild type cells and mutants (this will be applied to cystic fibrosis cells) and of cell component changes under the effect of the identified molecules.
Achieve goals: Find new biomarkers for cystic fibrosis cells and disclose new effects of bioactive molecules, paving the way for future research lines and new project proposals.
5. **Legislation framework:** Statute of the Scientific Research Fellowship, in accordance with Law 40/2004, of 18 August, as amended and republished by Decree-Law No. 202/2012 of 27 August, and as amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of 9 July; And also by the FCT, I.P. Fellowships Regulation, in force (<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf>) and FCIências.ID Fellowship Regulation, as approved on 23rd February 2017.
6. **Place of work:** The work will be developed at BioISI, FCUL under the scientific guidance of Prof. Dout. Maria Luisa Serralheiro.
7. **Fellowship duration:** This position is initially opened for 6 months and will begin on **February** 2018. The fellowship contract may be renewed to more **12 months**, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.
8. **Monthly allowance:** The fellowship amounts to € 1495 according to table values of the fellowships awarded directly by the FCT, IP. (<http://www.fct.pt/apoios/bolsas/valores>).
The fellowship holder will have a personal accident insurance and, if not covered by any social protection scheme can ensure the right to social security through adherence to the voluntary social insurance scheme, pursuant to Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social.
The fellowship will be paid monthly by bank transfer.
9. **Selection method:** Candidates will be assessed by the quality of their CV (80%) and cover letter (20%).

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10. **Selection Committee:** Professora Doutora Margarida Amaral (President), Prof. Doutor Carlos Farinha (Members), Prof. Doutora Maria Luisa Serralheiro (Members), Professor Doutor Rui Malhó (alternate members) and Prof Doutor Francisco Pinto (alternate members)
11. **Publication/notification of results:** The final results of the evaluation will become public, through ordered list *final grade obtained* which will be posted at the entrance hall of the **FCiências.ID**, located at the Faculdade de Ciências da Universidade de Lisboa, C1 bdg – 3rd floor, Campo Grande, 1749-016 Lisboa, and the selected candidate will be notified by *e-mail*.
12. **Deadlines:** This call for applications is open from 22 January to 2 February 2018
13. **Application:** Applications may be sent via e-mail to mlserralheiro@fc.ul.pt or sfluz@fc.ul.pt, by attaching the following documents: *Curriculum Vitae*, *cover letter* and PhD Certificate