

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

Master fellowship

One Master fellowship is open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project **Molecules for Health: cholesterol absorption, and expression of its transporter proteins, interaction with drugs**, PTDC/BIA-BQM/28355/2017, financed by national funds by FCT / MCTES (PIDDAC) under the Programme All Scientific Domains, under the following conditions:

1. **Scientific Area:** Biomedicine; Life Sciences
2. **Requirements for admission:** Master Degree holder in Chemistry, Biochemistry or other related fields; experience in tissue culture, enzyme kinetics, HPLC-DAD analysis.
3. **Factors preferred:** Degree in Biochemistry; Master in Chemistry; Master degree obtained recently; experience in human cell culture; experience in liquid chromatography, experience in mass spectrometry and FTIR analysis of biomolecules and/or biological systems; willingness to take over the culture cell lab.

4. **Work plan: BioMol4Health**

Objectives: Effect of phenolic compounds from natural origin on diet cholesterol permeation.

Methodology: cholesterol permeation will be studied using human cell lines. Caco-2 cells in co-culture with HT-29-MTX will be used to simulate the intestinal barrier. The inhibition of cholesterol permeation will be studied using aqueous extracts from medicinal plants or/and algae. The cytotoxicity of the infusions and/or the isolated compounds will be studied before doing permeation studies. HPLC-DAD will be the method used for cholesterol quantification and the formation of the intestinal barrier will be determined by resistivity measurements in transwell systems.

Achieve goals: Find non-cytotoxic aqueous extracts with cholesterol inhibition activity

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 (<https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT.pdf>) and **FCiências.ID** Fellowship Regulation, as approved on 23rd February 2017.
6. **Place of work:** The work will be developed at BioISI, Edifício C8, FCUL under the scientific guidance of Professor Maria Luisa Serralheiro.
7. **Fellowship duration:** This position is initially opened for 6 months and will begin on **November** 2018. The fellowship contract may be renewed 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 € 980 according to table values of the fellowships awarded directly by the FCT, IP. (<http://www.fct.pt/apoios/bolsas/valores>).

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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 (50%), cover letter (20%) and interview (30%).

10. **Selection Committee:** Professora Doutora Maria Luisa Serralheiro (President), Prof. Doutora Rita Pacheco (Member), Prof. Doutor Pedro Falé (Member), Professor Doutor Helena Gaspar (alternate members) and Prof Doutor Ricardo Melo (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 16th to 29th October 2018

13. **Application:** Applications may be sent via e-mail to mlserralheiro@fc.ul.pt, by attaching the following documents: *cover letter, Curriculum vitae, certificate and other documents considered relevant*.

Applications may also be sent by mail to plvfale@fc.ul.pt (Departamento de Química e Bioquímica. Faculdade de Ciências, Universidade de Lisboa. Campo Grande, 1749-016 Lisboa, Portugal).

NOTE: Please note that Degrees obtained in foreign countries need a Portuguese Recognition certificate and, in some cases, a equivalence certificate issued by a Portuguese high degree institution according to the Decree-Law nr. 341/2007, of Oct 12th, the ministerial order nr. 29/2008, of Jan 10th and the ministerial order nr. 227/2017, of July 25th. The presentation of such certificates is mandatory for contract signature. For further info please see https://www.ulisboa.pt/sites/ulisboa.pt/files/basicpage/docs/guide_equiv_rec_foreign_degrees_august2017_site.pdf