



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

### 1 RESEARCH FELLOWSHIP

One Research Fellowship is opened at **Fundação da Faculdade de Ciências da Universidade de Lisboa**, in the **project “A phylochronological approach to refine the understanding of the origins and evolutionary trajectories of cattle”** (Ref. DFRH/WIIA/15/2011), financed by the FCT and the Marie Curie Action Cofund under the People Programme of the European Commission’s 7th Research Framework, under grant agreement n° PCOFUND-GA-2009-246542, under the following conditions:

1. **Scientific Areas:** Biology

2. **Requirements for admission:**

MSc degree in Biology or related areas;

Research experience in Genetics, including laboratory skills in DNA extraction and PCR amplification, DNA sequencing and genotyping of molecular markers;

Fluency in written and spoken English;

Also, it is desirable that the candidate has some experience in the analysis of genetic data, and interest in bioinformatics will be valued. The candidate is expected to be able to work independently, to show initiative, perseverance and to have good communication skills.

3. **Work plan:**

The candidate will work on the objectives of the project, in collaboration with the other team members. Iberian domestic animal breeds show a vast range of morphological and genetic variation. This is due to strong artificial selection, however what fraction results from local domestication and/or post-domestication introgression from wild ancestors has not been investigated. This is a challenging archaeogenetics study regarding such events in Iberia and North Africa.

The major aim of the proposed research is to perform a phylochronological genetic analysis to investigate biodiversity of wild and domestic Iberian cattle throughout time to refine our understanding about their origins and evolutionary trajectories.

The selected candidate will be responsible for extracting ancient DNA from archaeological specimens (i.e. bones and teeth), for preparing PCRs for the amplification of genomic regions of interest (particularly mitochondrial DNA). The candidate will have an active role in the statistical analysis of the genetic data collected and in drafting manuscripts for publication. The ancient DNA analyses will be conducted in dedicated facilities offered by foreign partners, thus the candidate must be available to travel and live abroad for up to 6 months. Training in ancient DNA and next-generation sequencing methodologies is foreseen. The candidate will participate in informal meetings among project partners. Participation in national and international seminars is also expected.

*Keywords: Archaeogenetics; phylochronology; domestication; hybridization; animal improvement*

4. **Legislation framework:** A fellowship contract will be celebrated according to the regulations defined by FCT “Regulations for Advanced Training and Qualification of Human Resources”, 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 29 January, and Decree-Law No. 89/2013 of 9 July and Fundação para a Ciência e a Tecnologia, I.P. Fellowships Regulation of 2013.



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5. **Place of work:** The work will be mainly developed at Centro de Biologia Ambiental, da Faculdade de Ciências da Universidade de Lisboa, under the scientific guidance of Doctor Catarina Ginja ([http://cba.fc.ul.pt/members/catarina\\_ginja.php](http://cba.fc.ul.pt/members/catarina_ginja.php)).
6. **Fellowship duration:** This position is opened for 9 months and will last from January 2014 until the end of September 2014. Upon request by the candidate for good cause, a later start date may be accommodated; however note that this will leave the ending date of the fellowship fixed and instead shorten its duration.
7. **Monthly allowance:** The fellowship amounts to €980, according to table values of the scholarships awarded directly by the FCT, IP. (<http://www.fct.pt/apoios/bolsas/valores>). During the time spent in a foreign laboratory the fellowship amount will be of €1710, and the travel expenses will be covered following [Regulamento nº 326/2013](#). The grant 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 scholarship will be paid monthly by bank transfer.
8. **Selection method:** Candidates will be assessed by the quality of their CV (35%), their motivation letter (25%) and the information obtained from the references (if solicited by the jury) (10%). Up to five short-listed candidates will be invited to an interview (30%) at Centro de Biologia Ambiental, and which can also include a practical test in the laboratory. If the candidates do not fulfill the required quality standards the jury might decide not to award the fellowship.
9. **Selection Committee:** Doctor Catarina Ginja (president); Doctor Ana Elisabete Pires; Professor Maria do Mar Oom; Doctor Cristina Luís (supplementary member).
10. **Publication/notification of results:** The final results of the evaluation will become public, through an ordered list, which will be posted at the entrance hall of the **Fundação da Faculdade de Ciências da Universidade de Lisboa**, located at the Faculdade de Ciências da Universidade de Lisboa, C1 bldg – 3rd floor, Campo Grande, 1749-016 Lisboa, and the selected candidate will be notified by e-mail. The results of this call will be communicated to all candidates by e-mail.
11. **Deadlines:** This call for application is open from December 4, 2013 to December 17, 2013.
12. **Application:** Applications must be sent via e-mail to [cjginja@fc.ul.pt](mailto:cjginja@fc.ul.pt), with the subject **BI Application** and with the following documents attached:

Motivation letter, clearly addressing past research experience and how it relates to the project;

Detailed academic *curriculum vitae* including a list of publications;

Indication of three references and their contact information;

Certificate copies of obtained degrees (the candidates selected for an interview must present the original certificates).

**The candidates that fail to include all these documents in their application will not be considered for evaluation.**