



Universidade de Évora - Laboratório HERCULES

**Announcement for the attribution of a Research Grant to a Scholarship holder
registered in a PhD programme**

29 of March of 2022

A call for tenders is open for one Scholarship for a researcher registered in a doctorate programme within the scope of the project “ROADMAP - Research On Antonio De Holanda Miniatures Artistic Production”, (PTDC/ART-HIS/0985/2021), financed by national funds through Fundação para a Ciência e a Tecnologia (FCT/MCTES), State budget - I&D 2021 call, under the following conditions:

Scientific area: Biochemistry

Admission requirements: Degree in Biochemistry, Biology, Human Biology, Biotechnology, or a related field. Experience in the field of manipulation and cell cultures, biochemistry/microbiology techniques, genetic analysis techniques will be valued.

As set forth FCT Research Scholarship Regulation No. 950/2019 of December 16, 2019, article 3 and 6, candidates for “BI” (Research Grants) must comply as a rule condition for the award of the scholarship, the effective inclusion in study cycles leading to the attribution of academic degrees or in courses not leading to an academic degree. Courses that do not confer an academic degree correspond to the courses provided for in subparagraph e) of paragraph 3 of article 4 of Decree-Law No. 74/2006 of 24 March and must be developed in a higher education institution in association with at least one R&D unit, including a course plan in one or several research areas of the unit.

Working plan: Traditionally produced from sheep, goat or calf skins, parchment is an important reservoir of culture and technological knowledge. The determination of the origin of the animals used to produce the parchments of Mediaeval and Renaissance illuminated manuscripts is an important task, not only for the characterization of the manuscripts themselves, but also for the characterization of scriptoria and ateliers, while allows for a better understanding of the artist-illuminator himself and for the acquisition mechanisms of the materials used in the production of an illuminated codex. Traditionally, the determination of the origin of the animals used to produce Mediaeval and Renaissance parchments is mainly performed based on the analysis of the follicular pattern. However, some patterns are very similar or may have undergone morphological changes during the production of the parchment. Recent studies on parchment DNA analysis have revealed interesting results in determining its origin. However, the amount of sample used is still very large. The challenge of, on the one hand, reducing the amount of parchment sample required as much as possible, and on the other hand, improving as much as

possible the accuracy of the identification of the animal origin of the parchments is of great importance and usefulness for the study of the animal origin of historical parchments.

The candidate will work on the development of a methodology that allows, following a low-invasive approach to the Artwork, to identify, on the one hand, the origin of the animal used to produce the parchments used by António de Holanda to produce the manuscripts object of study of the ROADMAP project, and on the other hand, the geographical origin of these animals.

The working plan to be developed will include:

- 1- Optimization of a methodology for the analysis of mitochondrial DNA present in parchments of different animal origins, to identify the animal species used in the production of historical parchments;
- 2- Optimization of a methodology of analysis by IR-MS of parchments from different animal origins, using the isotopes of C, H, N and S as biomarkers of the animals used in the production of historical parchments;
- 3 – Analysis of the microbiome of parchments from different animal origins,
- 4 – Analysis of trace elements (Ca, Na, K, Fe and Mn) present in historical parchments.

Applicable legislation and regulations: The granting of the Research Scholarship will be carried out upon the signing of a contract between the University of Évora and the scholarship holder, as set in the template https://www.fct.pt/apoios/Minuta_Contrato_Bolsa.docx, pursuant to the Research Scholarship Statute (Law No. 40/2004 of August 18 and Decree-Law No. 123/2019 of August 28) and in accordance with the legislation and Regulation of Research Grants of the Foundation for Science and Technology, IP in force, regulation nº950/2019 of December 16, 2019: <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt> and other applicable rules.

Place of work: The work will be developed at HERCULES Laboratory of the University of Évora, under the scientific guidance of the Prof. Doctor Ana Teresa Caldeira and of the Doctor Catarina Miguel

Duration of the scholarship: The scholarship will have a duration of 6 months, starting on May of 2022. The scholarship contract may be renewed until the end of the funding project's budget allocation.

Amount of monthly maintenance allowance: The amount of the scholarship corresponds to 1144.64€, according to the table of scholarships awarded directly by FCT, I.P. in Portugal (<http://fct.pt/apoios/bolsas/valores>), payments being made monthly, by check or bank transfer.

Selection methods: The selection will be made through curricular evaluation, based on the following percentage weighting:

- a) Experience as described in “Admission requirements” (maximum 60 points);
- b) Adequacy of the scientific area of specialization (maximum 20 points);
- c) Scientific production (scientific articles, oral or panel communications presented at national and international conferences) (maximum 20 points);

The selection board may decide to interview the candidates to better access some of the evaluation criteria or in case of a tie. In this case, the interview will correspond to 40% and the total evaluation obtained in the sum of evaluation criteria a, b and c will correspond to 60%.

Composition of the Selection Jury:

President: Doctor Catarina Pereira Miguel Cabral
1º Vowel – Prof. Doctor Ana Teresa Caldeira
2º Vowel – Professor Doctor António Candeias
1º Substitute – Prof. Doctor Antónia Fialho Conde
2º Substitute – Prof. Doctor Pedro Flor

Advertising/notification of results: The final results of the evaluation will be publicized, through an ordered list by final grade obtained posted in a visible and public place in HERCULES Laboratory, Palácio do Vimioso, Évora, being the candidate approved notified through email.

To ensure the right of prior hearing of interested parties, the Final Classification project will be announced by any written means to all interested parties.

After communicating the provisional list of the results of the evaluation, candidates have a period of 10 working days to express their opinion in a preliminary hearing of interested parties.

Application deadline and submission of applications: The tender is open from 30 of March of 2022 to 13 of April of 2022 and the results of the selection will be published by 18 of April of 2022.

Applications must be formalized, obligatorily, by sending an application letter with the following documents: copy of the Citizen Card, *Curriculum Vitae*, certificate of qualifications, reference or recommendation letters, motivation letter and other supporting documents considered relevant.

For the purposes of application, the evidence may be replaced by a declaration of honor signed by the candidate, but the failure to demonstrate that evidence, in the contracting phase, possession of the required degree on the deadline for application or the non-presentation of proof of enrollment in the study cycle or non-degree course, for scholarships with this component, imply the cancellation of the candidate's application.

Academic degrees obtained in foreign countries require registration by a Portuguese Institution in accordance with Decree-Law no. 66/2018, of August 16 and Ordinance No. 33/2019, of January 25th.

The presentation of the certificate is mandatory for the signing of the contract. More information can be obtained at: <https://www.dges.gov.pt/pt/pagina/recognition?plid=374>

Applications must be sent by email to:

Doctor Catarina Miguel
Laboratório HERCULES da Universidade de Évora

e-mail: cpm@uevora.pt

