

Faculty of Pharmacy Research and Development Association
Call for the award of 1 (one) Research Grant for PhD students

Notice n. º BID/8/FARM-ID/2023

Under the Regulation of Research Grants of the Foundation for Science and Technology, IP, Regulation No. 950/2019, published in Diário da República, 2nd Series, No. 241, of 16 December, of the Regulation of Research Grants of the University of Lisbon, Dispatch No. 6238/2020, published in Diário da República, 2nd Series, no. 113, of 12 June, and of the Statute of the Research Fellowship (EBI), Decree-Law no. 123/2019, published in Diário da República, 1st Series, no. 164, of 28 August, it is made known that a call for the award of **1 (one) Research Grant for PhD students**, within the scope of the project **2022.08559.PTDC**, titled: *"Merging photochemical and asymmetric synthesis to access new chiral aminocyclopentitols"*, funded by Foundation for Science and Technology, I.P. (FCT) is open under the following conditions:

I. **Scientific Area:** Pharmaceutical Sciences, Chemistry, or related areas

II. **Admission Requirements:**

- Master's degree in Pharmaceutical Sciences, or related areas;
- Be enrolled in a PhD in Pharmacy, Chemistry or related areas; *
- Present a proposal of a Work Plan to be developed.

*During the application stage, if the candidates do not have in their possession the document proving their enrolment in the doctoral program, that document may be replaced by a declaration of honour. Proof of obtaining the degree and/or enrolment through the presentation of certificated must be carried out until the hiring, under penalty of annulment of the candidate's assessment due to error on the assumptions of fact, and consequent exclusion from this competition.

Preferred Requirements:

- Demonstrated experience in Synthetic Organic Chemistry, isolation and characterization of organic compounds.
- Experience in palladium chemistry, C-H activation,
- To have developed work abroad and to have a final average with a Master's degree of 16 values.

III. **Research Grant Duration:** The research grant will have a duration of **6 months**, eventually renewable, **until the end of the project**, and expected to begin in July 2023, on an exclusivity regime, in accordance with the terms of the Regulation of Research Grants of the Foundation for Science and Technology, I.P.

IV. Work Plan: The objective of the work is performed the synthesis of aminocyclopentitol core via photochemical conversion of pyridinium salts under flow conditions to originate diverse bicyclic vinyl aziridines, and their subsequent use in key asymmetric palladium catalyzed C-C bond formation. Optimization of the reaction conditions for Pd-catalyzed asymmetric alkylation of bicyclic vinyl aziridines with Meldrum acid and their application to a number of carbon-based nucleophiles. Appropriate functional group modification of the thus-obtained enantiomerically enriched adducts from the Pd-AAA to reach the desired ACPs. Additionally, is also envisage other reactions of bicyclic vinyl aziridines using Pd-catalysis.

V. Workplace and Scientific Guidance: The work will be carried out in the Building A, Bioorganic Chemistry Laboratory at the Faculty of Pharmacy, University of Lisbon, under the supervision of Filipa Alexandra Delgado Siopa, Junior Researcher, at the Faculty of Pharmacy of the University of Lisbon.

VI. Monthly maintenance stipend: The monthly maintenance stipend (grant) corresponds to **1.199,64 €**, according to the table of values directly attributed by FCT, I.P. in Portugal (https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf). Payment will be made via bank transfer.

In addition to the monthly maintenance stipend the grant holder will also be awarded with the value correspondent to the payment of the first step of *Seguro Social Voluntário* (voluntary payment of Social Security), in case he/she chooses to be included in this regime.

VII. Formalization of applications: Applications must be sent in non-editable format (PDF), to the email concursos@ff.ulisboa.pt, containing the identification of the above-mentioned notice. Applications in paper format will not be accepted.

VIII. Application deadline: The deadline for applications is from **June 07th to 22nd June 2023 (10 working days)**.

IX. Evaluation and rating criteria:

Candidate's Merit: Aims to assess compliance with the formal requirements requested in the opening notice, but also to consider the suitability of the scientific area of training and/or specialization, training and professional experience, with a maximum weighting of 100%.

- **Adequacy of the Scientific Training Area (AACF):** Candidates will be ranked on the basis of holding a Master's degree in Pharmaceutical Sciences or related field with a maximum weighting of 30%.
- **Training and Experience (FE):** Candidates will be ranked on the basis of laboratory experience in synthetic organic chemistry, including palladium chemistry, C-H activation, isolation and characterisation of organic compounds, with a maximum weighting of 40%.

- **Specific competencies for the proposed work plan (CEPTP):** Applicants will be screened on the basis of knowledge in synthetic organic chemistry and structural analysis, and a good command of the English language, spoken and written, with a maximum weighting of 30%.

Final classification: The selection of the candidate to fill the vacancy will be based on the points obtained, which will result from the sum of the points obtained in the Candidate's Merit, and for this purpose an individual sheet will be filled in.

X. Instruction of Application:

- a. Form containing the candidate's identification (*available on the institutional website*);
- b. *Curriculum Vitae* containing the information necessary for the evaluation of the application;
- c. Proof of obtaining a Master's degree in Pharmaceutical Sciences or related areas;
- d. Proof of enrolment in a Doctoral program in Pharmacy; or a declaration on honour (*available on the institutional website*);
- e. Proposed work plan to be developed;
- f. Declaration of honour stating that there is no professional activity that violates the exclusivity regime (*available on the institutional website*);
- g. Letter of motivation;
- h. Contact of two references;
- i. Other supporting documents considered relevant.

All the documents necessary for the submission of the application are available on the institutional website, through the link: <https://www.ff.ulisboa.pt/faculdade/recursos-humanos/recrutamento/anuncio-para-atribuicao-de-1-uma-de-bolsa-de-investigacao-para-estudantes-de-doutoramento-aviso-n-o-bid-8-farm-id-2023>.

The documents that instruct the application must be submitted in Portuguese or English language.

No document that should have been submitted in the application phase can be submitted after the deadline set in the opening notice. Failure to comply with the deadline set for the submission of the application, as well as the lack or late submission of documents referred to in this point will determine the exclusion from the competition.

XI. Composition of the Jury: The Jury responsible for the selection of the candidates will be constituted by.

President - Filipa Alexandra Delgado Siopa, Junior Researcher, FFUL

1st Member of the Jury - Carlos Alberto Mateus Afonso, Full Professor, FFUL

2nd Member of the Jury - Jaime Alfredo da Silva Coelho, Auxiliary Researcher, FCUL.

1st Alternate Member of the Jury Pedro Miguel Pimenta Góis, Assistant Professor with habilitation, FFUL

2nd Alternate Member of the Jury - Andreia Almeida Rosatella, Junior Researcher, University Lusófona.



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XII. Form of notification of results: All candidates will be notified of the final results of the evaluation by email and will have 10 working days after the aforementioned notification to make a statement, in accordance with the Code of Administrative Procedure.

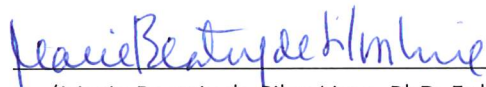
After this notification, and in case there are no claims, the results will become final. In case of claims, and after the allegation is analysed and accepted or rejected, the results will become final after 10 working days.

After the final decision is made, a complaint/appeal can be filed to the Director of the Faculty of Pharmacy of the University of Lisbon, Maria Beatriz da Silva Lima, PhD, Full Professor, within 10 working days from the date of notification.

XIII. Applicable legislation and regulations: Regulation no. 950/2019, Regulation of Research Grants of the Foundation for Science and Technology, I.P. (FCT, I.P.), published in *Diário da República*, 2nd Series, no. 241, of December 16, Regulation of Research Grants of the University of Lisbon, Order no. 6238/2020, published in *Diário da República*, 2nd Series, no. 113, of 12 June, and Research Fellowship Statute (EBI), Decree-Law no. 123/2019, published in *Diário da República*, 1st Series, no. 164, of 28 August.

Faculty of Pharmacy Research and Development Association, 6th June 2023.

The Director,



(Maria Beatriz da Silva Lima, PhD, Full Professor)