

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

1 (one) Research fellowship for MSc Student

1 Research Fellowship(s) (BI) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution “Arrows2cancer - Ruthenium-peptide conjugates: arrows for selectively targeting breast cancer/CQE”, PTDC/QUI-QIN/0146/2020, financed by national funds by FCT / MCTES (PIDDAC) under the programme Programme All Scientific Domains, under the following conditions:

1. **Scientific Area:** Chemical Sciences, Inorganic Chemistry, Medicinal Chemistry
2. **Requirements for admission:** R&D activities to be carried out by Master's or Integrated Master's (BI) students. Candidates must have a degree in chemistry or related fields as a minimum, as well as relevant research experience in the field of inorganic chemistry.
3. **Additional optional skills and qualifications:** Master's student with availability to carry out the final Master's work. Knowledge of inorganic chemistry synthesis.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in proof of registration in the study cycle that confers the requested degree in this call.
5. **Work plan:** This work aims to develop new ruthenium-peptide conjugates (RuPCs) for the selective therapy of breast cancer. The main tasks planned include: i) Synthesis of new organometallic ruthenium complexes; ii) Structural characterization of the complexes by the usual spectroscopic techniques: FT-IR, UV-vis. and NMR. Elementary analyzes (%C, H%, N%, S%) will be also performed to obtain a guarantee of the purity of the compounds. Crystal structures will be determined by X-ray diffraction. Complementary studies will be carried out by cyclic voltammetry to evaluate the possible Ru oxidation states, the stability and reactivity of the redox species; iii) Synthesis of peptides and RuPCs; iv) The peptides and RuPCs will be purified and characterized by preparative HPLC, analytical HPLC and ESI-MS.
6. **Legislation framework:** Research Fellowship Holder Statute, in accordance with Law 40/2004, of 18 August, in its current version and the FCT Regulation for Research Studentships and Fellowships, in its current version (Reg. 950/2019 published in DR on 16th December: <https://dre.pt/application/file/a/127230968>, or at the FCT website: <https://www.fct.pt/apoios/bolsas/regulamento.phtml>), and FCiências.ID Fellowship Regulation, as approved on 12th May 2020 (available at [Regulamento de Bolsas de Investigação Científica da FCiências.ID](#)).
7. **Place of work:** The work will be developed at the CQE-Centro de Química Estrutural, Departamento de Química e Bioquímica/Faculdade de Ciências da Universidade de Lisboa under the scientific supervision of Professor Tânia Morais.
8. **Fellowship duration:** This position is initially opened for 6 months due to begin on June 2022. The fellowship contract may be potentially renewed for more 6 months, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.

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9. **Monthly allowance:** The fellowship amounts to € 875.98 ,according to [table values](#) of the fellowships awarded directly by the FCT, IP. The fellowship holder will have a personal accident insurance and can ensure the right to social security through adherence to the voluntary social insurance scheme, if not covered by any other social protection scheme, pursuant to *Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social*. The fellowship will be paid monthly by bank transfer

10. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV (60%) and relevance of previous experience (40%). If necessary, the candidates with the highest ranking will be called for an interview, in this case CV 60%, motivation letter 30%, interview 10%..

11. **Selection Committee:** Tânia Morais (President), Maria Helena Garcia (member), Maria José Villa de Brito (member) e Andreia Valente (substitute member)

12. **Publication/notification of results:** All the candidates will be notified by e-mail, sent by the call holder, with the selection meeting minutes enclosed.

13. **Deadlines:** This call for applications is open from 04/04/22 to 18/04/2022 .

14. **Application:** Applications should be sent via e-mail to tsmorais@ciencias.ulisboa.pt, by attaching the following documents:

- Curriculum vitae - **CV may be provided in PDF or through the [CIÊNCIAVITAE](#) system;**
- Certificate of completion of previous degree;
- [Motivation Letter with References](#)

15. **Time limits for the appeal procedure:** In case of negative decision, the candidates have 10 business days, after the date of announcement of the results of the candidates evaluation, to pronounce their disagreement in accordance with the *Código do Procedimento Administrativo*. Appeals against the final decision may be submitted to the Administration Board of FCIências.ID (fciencias.id@fciencias-id.pt) within 15 business days after the notification date

Note 1: The documents that prove the entitlement of the academic qualifications and diplomas, or the proof of registration in the academic degree or diploma requested on the call, can be dismissed during the application period and replaced by a declaration on their honour from the applicant. Their delivery is mandatory for the fellowship contractualization.

NOTE 2: Please note that - higher education degrees and diplomas awarded by foreign higher education institutions need to be recognized by a Portuguese higher education institution, pursuant to the [Decree-Law nr. 66/2018](#) (August 16) and the [Ministerial Order nr. 33/2019](#) (January 25). The presentation of the recognition certificate is mandatory for contract signature. More information can be obtained at: <https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition>.