



ONE RESEARCH FELLOWSHIP

One research fellowship are opened for recruitment in the Project **“Molecular control of self-renewal and lineage specification in thymic epithelial cell progenitors *in vivo*”**, financed by an ERC Starting Grant 2014 (reference 637843).

Internal reference: PR132002

Scientific Domain: Health Science - Immunology

Duration: 6 months, eventually renewable. The expected starting date is 1st of January 2021.

Qualifications: Applicants must be master students with a Bachelor in Biology, Biochemistry, or similar degree. To be considered for this position, candidates must be educated to a minimum classification of 16 (certificate should be attached to the application), a strong background in T-cell biology (detail this in the motivation letter) and autonomy to lead a scientific project. Proved experience in flow cytometry will be valued, detailing the level of experience (years/months of usage) in the motivation letter.

Job Description: Our laboratory studies the differentiation and function of Thymic Epithelial Cells (TEC), which provide chief microenvironments for T-cell development and tolerance induction within the thymus. Cortical (cTEC) and medullary (mTEC) subtypes define functionally distinct niches that derive from bipotent TEC progenitors. Yet, the genetic details that control cTEC/mTEC lineage specifications from TEC progenitors are unsettled. We are seeking for one highly motivated research fellow to integrate our ERC-funded team that aims to identify the nature of TEC progenitors and decipher the molecular principles involved in their self-renewal and cell-fate decision. Our goal is to select top candidate to apply in the near future to international and national PhD programs. We take an integrative approach to examine TEC differentiation, proceeding from high-throughput analyses at cellular level to *in vivo* mouse models. IBMC is a leading European research institute whose mission is to promote scientific excellence and innovation in Health Sciences. i3S/IBMC offers a state of the art, dynamic and international research environment. The working language is English.

Legislation and Salary:

A Research fellowship for R&D activities to be carried out by students of master's degrees, integrated master's degrees or by graduates and masters enrolled in non-academic degree courses (805,98 € per month) will be awarded. Fellowships are regulated by current laws relating to the Statute of Science Research Fellows, namely Law 40/2004 of August 18, amended and republished by Decree-Law DL123/2019 of 28 August, and the Regulation of Scientific Research Studentships of IBMC approved by Fundação para a Ciência e Tecnologia, I.P. 2019.

Location: i3S/IBMC/Thymus Development and Function Group, under the supervision of Dr. Nuno Alves.

Selection: The candidates will be selected according to their CV (100%).

Juri: Presidente: Nuno Alves (PhD)

Vogais efectivos: Rute Pinto (PhD), Pedro Rodrigues (PhD)

Results: The results will be published at the IBMC website and the selected candidate will be informed by email.

Dates: The application call is opened between 23 November to 7 December 2020. Applications and mandatory supporting documentation – **brief motivation letter, CV, the names of two references (included in the motivation letter), bachelor certification, and document proving the registration in a Master program** - are only accepted *via* the online application system:

<http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=PR132002>

Selection criteria: Only candidates that fulfill all the requirements will be considered. Top candidates will be ranked by evaluation of curricular achievements, relevance of previous laboratory experience to the proposed project, motivation letter and references.

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<http://www.i3s.up.pt>/ <https://www.ibmc.up.pt>
<http://www.i3s.up.pt/research-groups/host-interaction-and-response/thymus-development-and-function>