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VASCULAR MORPHOGENESIS LAB  
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CALL FOR ONE INITIATION RESEARCH FELLOWSHIP (BII)  
Reference of Fellowship IMM/BII/5-2021

Instituto de Medicina Molecular João Lobo Antunes (IMM) opens a call for one Initiation Research Fellowship for a PhD student with the funding support from the European Research Council (ERC) under the project “*AXIAL.EC: Principles of Axial Polarity-Driven Vascular Patterning*” (ERC Starting Grant, GA 679368).

**Work Plan and Goals:** Angiogenesis is the mechanism of blood vessel formation from pre-existing ones and is vital for nutrient and oxygen delivery to all cells in the organism. In response to blood flow, endothelial cells polarise against the flow direction, and migrate from low-flow to high-flow regions. This polarised collective behaviour defines the hierarchical structure of the vasculature but the mechanisms that regulate ECs response to blood flow, its polarisation and migration and its impact in vascular remodelling, remains to be clarified. The aim of this project is to unveil the molecular mechanisms that regulate endothelial cell polarity. To do this, the candidate will establish a siRNA screening platform to identify regulator of flow response in endothelial cells.

**Scientific Area:** Cell Biology

**Candidate's Profile**

- Master degree holder in Cellular and Molecular Biology, and related areas enrolled in a PhD study cycle
- Experience with cell culture and microfluidic techniques
- Experience in R programming language and COMSOL.
- Experience with multiplexing imaging methods
- Prior experience (more than 3 years) in vascular biology and confocal microscopy
- Good teamwork and interpersonal skills
- Excellent knowledge of English, written and spoken

**Duration of Fellowships:** 6 (six) months on an exclusive basis, eventually renewable not exceeding the eligibility period of the project.

**Law and Regulation:** Estatuto do Bolseiro de Investigação (Lei n.º 40/2004, de 18 de Agosto, republished in attachment to Decreto-Lei n.º 202/2012, de 27 de Agosto, changed by **Decreto-Lei n.º 123/2019, 28 de Agosto**), current Regulation of Fellowships of IMM and IMM Career By-Law and Assessment regulations.

*The IMM undertakes to ensure compliance with the principles of non-discrimination and equality and to that extent, provides that no candidate can be privileged, benefited, harmed or deprived of any right or exempted from any duty due in particular ancestry, age, gender, sexual orientation, marital status, family status, economic status, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic disease, nationality, ethnic origin or race, place of origin, language, religion, political or ideological convictions and trade union membership.*

**Predicted Start Date:** April 2021

**Workplace and Scientific Orientation:** The work will be developed at Vascular Morphogenesis Laboratory under the supervision of Claudio Franco.

**Fellow Monitoring Centre:** The monitoring centre works on Tuesdays and Thursdays from 9:00AM to 6:30PM at Human Resources Office.

**Monthly Remuneration:** 1074,64€, in accordance with the applicable regulations and project budget. The amount will be paid through bank transfer at the end of each month.

**Necessary Documents for Applications:** - Motivation letter; - Detailed CV; - Master Degree certificate; - Contact of two references; - Document proving the enrollment in the PhD study cycle. ***The non-compliance with these requirements determines the immediate rejection of the application.***

**Evaluation:** Applications will be evaluated by a jury composed by Doctors Claudio Franco, Edgar Gomes, Sergio Almeida (all PhD's)

**Selection Method:** : The selection will be made based on CV 50%, Motivation Letter 20% and Interview 30%.

**Deadlines and Submission of Applications:** The call will be open for 10 working days, starting on **1<sup>st</sup> March and ending on 12<sup>th</sup> March 2021.**

Applications should be sent to IMM Human Resources through the email [imm-hr@medicina.ulisboa.pt](mailto:imm-hr@medicina.ulisboa.pt), indicating the reference of fellowship (mandatory).

***The non-compliance with these requirements determines the immediate rejection of the application.***

**Communication of Results:** The results will be published at <https://imm.medicina.ulisboa.pt/jobs/#results>.

Lisbon, 12<sup>th</sup> February 2021

The Executive Director of IMM  
Maria Manuel Dias da Mota, PhD