

IBMC - Instituto de Biologia Molecular e Celular

Research fellowship Master (f /m)

Internal Code: Norte2020HOST13

Project: NORTE-01-0145-FEDER-000012, Structured Programme on Bioengineering Therapies for Infectious Diseases and Tissue Regeneration

Title: Novel antimicrobial peptides from a teleost fish (*Dicentrarchus labrax*) and their potential applications

IBMC/i3S is opening **1 (one) BI Master Fellowship** to join the Iron and Innate Immunity Group

PI: Pedro Rodrigues

Requisites:

Candidates must hold a MSc in Marine Biology, Aquatic Sciences or related fields with experience in molecular and cell biology. Excellent oral and written communication skills in English and high commitment and motivation are essential attributes. Preference will be given to candidates with previous experience in working with animals, in particular with fish species. Work will be developed at the Instituto de Investigação e Inovação em Saúde - i3S, Porto, Portugal.

Work plan:

The importance of antimicrobial peptides (AMP) in the defense against pathogens has boosted a number of new studies leading to the discovery of several AMP families in different organisms, namely in teleost fish. However, each novel AMP has been identified in a particular fish species, limiting the ability to fully-understand the comprehensive role of AMP families in fish. The role of AMPs in sea bass (*Dicentrarchus labrax*), a commercially important fish species, has been object of recent attention. However, apart from studies on hepcidin, other major AMP, such as piscidins, defensins, cathelicidins have not been characterized. In the proposed project, we aim to gain in-depth knowledge of the sea bass AMP families, to understand their role during infection and evaluate their antimicrobial properties. We intend to assess their potential for prophylactic and therapeutic applications in aquaculture, as well as for the development of detection kits for monitoring fish health.

The fellowship is initially for 6 months, eventually renewable to 12 months.

The expected starting date is 1st November 2016. The fellowship amount is 980 euros, paid by bank transfer, preferentially. (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>)

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 No. 202/2012 of 27 August and the Regulation of Scientific Research Studentships of IBMC approved by Fundação para a Ciência e Tecnologia. (<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf>)

Applications are open from 10 until 25 October, 2016.

To apply for the Research Fellowship interested candidates must hold a master degree and submit mandatorily the following three documents a) Complete CV; b) Letter of Motivation; and c) Two names as a reference, via the online application system:

<http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=Norte2020HOST13>

The ranking list of candidates will be published at IBMC website, and the selected candidate will be notified by email.

Selection Committee:

Pedro Rodrigues, PhD

João Neves, PhD

Ana Carolina Moreira, PhD