IBMC - Instituto de Biologia Molecular e Celular

Research fellowship - Master (f/m)

Internal Code: Norte2020HOST06

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

Title: Pathogenesis of arthropathy in hereditary hemochromatosis: a clinical and experimental approach

IBMC/i3S is opening **1 (one) Research Fellowship - Master** to join its Research Program in Modulation of inflammation for new therapies

We are looking for a Fellow holding a Masters degree in Biology, Biochemistry or related fields (with a final mark of 16 out of 20 or above) with proven experience in working in Molecular and Cell Biology, Histology (including tissue processing), and with a license to work with animals (FELASA B). Preference will be given to candidates with good knowledge and experience in the field of iron biology research, and good inter-personal relationships in the context of a multidisciplinary research team.

Group and PI: Basic & Clinical Research on Iron Biology (PI: Prof. Graça Porto)

Work Plan:
The human immune system is classically viewed as a system to protect normal tissues against the harmful effects of foreign entities (microorganisms, tissue grafts, biomaterials). The resulting inflammatory response is expected to contribute to tissue homeostasis, repair and infection control. Growing evidence is now supporting the notion that this same immune system also responds to the "threat" of toxic metabolic products, the best paradigm being the response to the toxicity of iron.

Iron and its related oxidative stress products strongly impact on cartilage damage in several types of osteoarthritis. In Hereditary Hemochromatosis, a genetic disorder of systemic iron overload, osteoarthritis is a particularly severe clinical manifestation for which there is still no treatment.

The hypothesis that HH arthropathy depends on the effectiveness of the local host response to iron-induced synovial damage is the basis for this Project where we will use both clinical and experimental in vivo and in vitro models to explore the disease pathogenesis and identify novel biomarkers predicting disease expression.

The work will be developed at Instituto de Investigação e Inovação em Saúde - i3S, Porto, Portugal.

The Fellowship will be for 12 months, renewable up to 36 months, and it is expected to start in May 1st 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)

Selection Committee:
Graça Porto, PhD
Tiago Duarte, PhD
Eugénia Cruz, PhD

Applications are open from March 15th to March 31st, 2016.

To apply for the Fellowship interested candidates must hold a MSc degree and submit the following documents a) Complete CV; and b) Letter of Motivation *via* the online application system: http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=Norte2020HOST06

The selection method to be used will be curriculum evaluation. The Jury may invite the best ranked candidates for interview.

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