



Title of the project:

The Pancreas Regulome: From causality to prediction of non-coding mutations in human pancreatic diseases.

One Post-doctoral Fellowship is available for recruitment to collaborate in the project “The Pancreas Regulome: From causality to prediction of non-coding mutations in human pancreatic diseases”, financed by an ERC Starting Grant 2015.

Summary of work program:

Several human pancreatic diseases have been characterized, being the diabetes the most common. Like others, this genetic disease is related to disrupted non-coding cis-regulatory elements (CREs) that culminate in altered gene expression. Although Genome Wide Association Studies support this hypothesis, it's still unclear how mutations on CREs contribute to disease. The translation from the “non-coding code” to phenotype is an exciting and unexplored field that we will approach in this project with the help of the zebrafish as a suitable animal model. We aim to uncover the implications of the disruption of pancreas CREs and how they contribute to diabetes *in vivo*.

Candidate profile:

We are looking for a Postdoctoral Fellow holding a PhD degree in Biology or related fields. Creativity, curiosity, perseverance, dynamism, passion for basic science and good inter-personal relationships in the context of a multidisciplinary research team are essential attributes. Candidates should have at least one publication as a first author in a peer-review journal. We are looking for candidates with experience or interest in the following fields, in the context of transcriptional regulation:

- Accessing the chromatin state genome wide, including the use of techniques such as Chromatin Immunoprecipitation and ATAC-seq.
- Bioinformatics.
- BAC recombeneering and BAC transgenesis in zebrafish.
- Crispr-Cas9 in zebrafish.

Application procedure:

Interested candidates should submit their CV, a motivation letter and the contact information of two referees and their respective reference letters via the online application system: <http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=ERC651604>

Applications will be open from 13 January to 20 February 2017, with an ideal start date on 1st of March 2017. This fellowship will be awarded initially for 6 months, being renewable for a maximum of 36 months.

Selection Committee:

President: José Bessa, PhD

Ordinary members: Carla Lopes, PhD, and Elsa Logarinho, PhD

The fellowships are regulated by current laws relating to the Statute of Science Research Fellows, namely Law 40/2004 of August 18, and the Regulation of Scientific Research Studentships of the IBMC (www.ibmc.up.pt/fellowships.php).

The fellowship monthly amount is 1495 euros.

If you have any questions or doubts please contact me via email: jose.bessa@ibmc.up.pt