



**Title of the project:** “The Pancreas Regulome: From causality to prediction of non-coding mutations in human pancreatic diseases”.

One PhD 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 Fellow holding a Master degree in Biology or related fields with a final score  $\geq 18$ . Good inter-personal relationships in the context of a multidisciplinary research team, creativity, perseverance and passion for basic science are essential attributes. Preference will be given to candidates with experience in:

- Zebrafish microinjection, transgenesis and mutagenesis.
- Immunocytochemistry in zebrafish.
- CRISPR/Cas9 mediated genomic deletions *in vitro* in cell lines
- FELASA C training (or equivalent).

**Selection criteria:**

**Evaluation – detailed CV, including:**

- Research experience with relevance in the application research field (50%).
- Participation in scientific meetings (25%)
- Participation in research projects relevant to the application research field (25%)

Final classification of candidates will be in a scale from 0 to 100.

**Application procedure:**

Interested candidates should submit their CV, a motivation letter and the contact information of one referee via the online application system: [http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=ZPR\\_BD\\_2019](http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=ZPR_BD_2019)

Applications will be open from 11 to 21 October 2019, with an ideal start date on 1<sup>st</sup> of November 2019. This fellowship will be awarded initially for 1 year, being renewable for a maximum up to the end of the ZPR ERC Starting Grant 2015.

**Selection Committee:**

President: José Bessa, PhD

Ordinary members: Mafalda Galhardo, 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](http://www.ibmc.up.pt/fellowships.php)).

The fellowship monthly amount is 1003.26 euros, plus student fees.