



## Title of the project:

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

One PhD student 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  $\geq 15$ . 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 and transgenesis.
- Immunocytochemistry in zebrafish.
- *In situ* hybridization with RNA probes
- Genetic screens in zebrafish
- FELASA B training (or equivalent).

**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=Internal Reference: ERC651803>

Applications will be open from 14 to 24 August 2018, with an ideal start date on 1<sup>st</sup> of September 2018. This fellowship will be awarded initially for 6 months, being renewable for a maximum of 33 months.

Selection Committee: President: José Bessa, PhD

Ordinary members: Carla Lopes, PhD, and Renata Freitas, 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 993,43 euros + fees.