

Internal Reference: ERC651602

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

1 (one) Postdoctoral Fellowship is available in the group of José Bessa at the Institute for Molecular and Cell Biology in Porto. The fellowship is funded for 1 year, extensible up to 3 years by an ERC Starting Grant.

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*.

We are looking for a Postdoctoral Fellow holding a PhD degree in Biology or related fields with experience and full autonomy working with zebrafish as a model organism. Preference will be given to candidates with experience in Assay for Transposase-Accessible Chromatin (ATAC-seq), Chromatin Immunoprecipitation (ChIP-seq) and Circularized Chromosome Conformation Capture (4C-seq) combined with high-throughput sequencing. Good inter-personal relationships in the context of a multidisciplinary research team, a good publication track record, creativity, perseverance, and passion for basic science are essential attributes.

Interested candidates should submit their CV, a motivation letter, and the contact information of two referees via the online application system:

<http://www.ibmc.up.pt/gestaocandidaturas/index.php?codigo=ERC651602>

Applications should be submitted between June 8th and June 15th, 2016. Starting date of the fellowship is July 1st, 2016.

Selection Committee:

President: José Bessa, PhD

Vogais: 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 of (www.ibmc.up.pt/fellowships.php). Fellowship monthly amount is 1495 Euros.