



INSTITUTE  
FOR RESEARCH  
IN BIOMEDICINE

## POSTDOCTORAL FELLOW AT IRB BARCELONA

### 2 POSTDOCTORAL POSITIONS IN GENE TRANSLATION LABORATORY

Two postdoctoral positions are available in the laboratory of Gene Translation to investigate connections between components of the protein synthesis apparatus and human disease.

The first researcher will work on a newly discovered protein with an essential mitochondrial function, and on the analysis of an animal model of mitochondrial disease developed in the laboratory. For more information see [\(1\)](#).

The second position is to investigate the role of genomic tRNA content and cellular tRNA composition in two models of human disease that display striking variations in these parameters. For more information see: [\(2\)](#), and [\(3\)](#).

We are seeking ambitious and creative individuals with experience in cell biology and advanced bioinformatics. We will provide training in the specific areas of the projects (tRNA biochemistry, mitochondrial biology, parasite biology, etc.). The IRB is a multidisciplinary Institute with state-of-the-art facilities centrally located in Barcelona. The successful applicants should be ready to join the laboratory in the first quarter of 2012.

- 1 Guitart, T., Bernardo, T.L., Segales, J., Stratmann, T., Bernues, J., and Ribas de Pouplana, L. (2010) "A new aminoacyl-TRNA synthetase-like protein in insects with an essential mitochondrial function." *J. Biol. Chem.*, 285(49):38157-66.
- 2 Geslain, R., Bori-Sanz, T., Cubells, L., Medina, R., Rossell, D., Martí, E., and Ribas de Pouplana, L. (2009) "The endoplasmic reticulum controls proteome quality and gradually responds to mutational pressure." *Nucleic Acids Research* 38(5) e30.
- 3 Novoa, E.M., Pavon-Eternod, M., Pan, T., and Ribas de Pouplana, L. (2012) "A role for tRNA modifications in genome structure and codon usage" *Cell*, *In press.*"

Applicants should send by e-mail a brief cover letter summarising research interests and goals, full *curriculum vitae* and the names and addresses of two references to [lluis.ribas@irbbarcelona.org](mailto:lluis.ribas@irbbarcelona.org)

[www.irbbarcelona.org](http://www.irbbarcelona.org)