

**CENTRO DE BIOLOGIA MOLECULAR
UNIVERSIDAD AUTONOMA DE MADRID**

Postdoctoral Position Available

BIOGENESIS, DYNAMICS AND FUNCTION OF MITOCHONDRIA IN HUMAN PATHOLOGY

We are looking for a highly motivated and independent postdoctoral scientist to join our group at the CBMSO in Madrid. We seek for a person with a relevant PhD and with a contrasted background in biochemistry, molecular and cellular biology techniques. The candidate should be proficient in English, both in oral and in writing skills. The successful applicant is expected to contribute to the characterization of the post-transcriptional mechanisms that regulate the biogenesis of mitochondria and the characterization of cellular and animal models of interference of mitochondrial oxidative phosphorylation.

Funding (~ 27,000 €/year of gross salary) is available for an initial period of two years starting in early July 2007. Applications should include:

- a) A letter with a short description of the specific interests the applicant has in the field,
- b) A CV with a description of the technical expertise and list of publications of the candidate,
- d) The name and contact information of two scientists from whom references of the applicant could be requested.

Email applications should be sent to José M. Cuezva (jmcuezva@cbm.uam.es). Phone contact: 34 91 497 4866

Martinez-Diez M, Santamaria G, Ortega AD, Cuezva JM. Biogenesis and Dynamics of Mitochondria during the Cell Cycle: Significance of 3'UTRs. **PLoS ONE**. 2006 Dec 20;1:e107.

Santamaria G, Martinez-Diez M, Fabregat I, Cuezva JM. Efficient execution of cell death in non-glycolytic cells requires the generation of ROS controlled by the activity of mitochondrial H⁺-ATP synthase. **Carcinogenesis**. 2006;27(5):925-35.

Isidoro A, Casado E, Redondo A, Acebo P, Espinosa E, Alonso AM, Cejas P, Hardisson D, Fresno Vara JA, Belda-Iniesta C, Gonzalez-Baron M, Cuezva JM. Breast carcinomas fulfill the Warburg hypothesis and provide metabolic markers of cancer prognosis. **Carcinogenesis**. 2005;26(12):2095-104.

Isidoro A, Martinez M, Fernandez PL, Ortega AD, Santamaria G, Chamorro M, Reed JC, Cuezva JM. Alteration of the bioenergetic phenotype of mitochondria is a hallmark of breast, gastric, lung and oesophageal cancer. **Biochem J**. 2004 ;378(Pt 1):17-20.

Cuezva JM, Krajewska M, de Heredia ML, Krajewski S, Santamaria G, Kim H, Zapata JM, Marusawa H, Chamorro M, Reed JC. The bioenergetic signature of cancer: a marker of tumor progression. **Cancer Res**. 2002;62(22):6674-81.

de Heredia ML, Izquierdo JM, Cuezva JM. A conserved mechanism for controlling the translation of beta-F1-ATPase mRNA between the fetal liver and cancer cells. **J Biol Chem**. 2000, 275(10):7430-7.