

Announcement for attribution of Research Fellowship (BI)***PTDC/CVT/100881/2008_BI2***

Application to a research fellowship is open in the framework of project “**The causes and consequences of mitochondrial DNA deletions in animal cells**” (PTDC/CVT/100881/2008) co-financed by the Foundation for Science and the Technology (FCT) and by FEDER through Program POFC/QREN, under the following conditions:

1. **Duration and Regime of Activity:** 12 months, renewable up to 36 months, with beginning foreseen for **1 May 2010**, in regime of exclusiveness, as regulation of advanced training of human resources of FCT (<http://www.fct.mctes.pt/pt/apoios/formacao/ambitoprojectos>) and IPATIMUP - Institute of Pathology and Molecular Immunology of the University of Porto.
2. **Aims:** We will investigate the biological processes underlying mitochondrial DNA (mtDNA) deletions using computer simulations. We will also develop databases with molecular and clinical features of mtDNA deletions for practical applications in animal and veterinary sciences. Fundamental questions concerning mtDNA deletions (how and where are they generated in tissues) and their role in mitochondrial dysfunction, tissue degeneration and disease will also be analysed (Pereira F *et al.* 2008. *Mol Biol Evol* 25:2759; Krishnan KJ *et al.* *Nat Genet* 40:275; Samuels DC *et al.* *Trends Genet* 20:393).
3. **Scientific supervision:** Filipe Pereira.
4. **Academic Profile:** Graduates in bioinformatics, informatics, computer sciences, mathematics, engineering or a closely related field. Experience with programming and the R statistical language, as well as experience with databases such as MySQL is preferred. Prior successful experience working with sequence analysis, molecular modelling, simulation and database development would be a distinct advantage.
5. **Remuneration:** In accordance with values of Research Fellowships in the country attributed by FCT and IPATIMUP.
6. **Documents of application:** The interested parties must send a **detailed CV** and a **motivation letter** (in English or Portuguese) to:

Filipe Pereira
fpereira@ipatimup.pt

(please include “PTDC/CVT/100881/2008_**BI2**” in the subject line)

7. **Timeframe for application:** 5 to 20 April, 2010