COST STSM Application Form

To be sent by the applicant as attachment by e-mail together with all the documents he/she would like to submit to support the application (full CV, detailed work plan, motivation, etc.) to the

* Host (who will send his agreement to host the applicant to the MC Chair)
* MC Chair for evaluation and approval

COST Office Science Officer: DR MAGDALENA RADWANSKA, magdalena.radwanska@cost.eu
COST MC Chair: PROF. PIERRE PAROT, parot@cea.fr
COST STSM Manager: PIERRE PAROT, pierre.parot@cea.fr

COST STSM Reference Number: COST-STSM-TD1002-10595
Period: 2012-04-23 00:00:00 to 2012-04-27 00:00:00
COST Action: TD1002
STSM type: Regular (from Portugal to France)

STSM Applicant: Mr Rui Chaves,IST-UTL,Lisboa(PT) , rmchaves@gmail.com
STSM Topic: High resolution AFM assembly
Host: Jean-Luc Pellequer,CEA Marcoule,Bagnols sur Ceze(FR), jlpellequer@cea.fr

Budget Request: Year-2012

Travel	400 Euro
Subsistence (hotel/meals)	400 Euro
Total	800 Euro

Short CV:

05/01/1983;

PhD, Physics Engineering, IST-UTL, 2012;

Graduation: Physics Engineering, IST-UTL, 2006.

Work Plan Summary:

The development of nanotechnologies and their applications in nanotoxicology and nanomedicine requires the control of molecular characterization of nanometer-sized objects. A major difficulty of conventional structural biology techniques (crystallography, NMR) pertains on proteins and their complexes with large size and flexibility. The host laboratory uses the atomic force microscopy (AFM) for gaining high-resolution structural information on these large molecules. Recently, a computational reconstruction protocol of large proteins using their constituent fragments and topographic information from AFM has been developed.

The week will be the opportunity for me to get familiar with this new concept in AFM.

I request the approval of a COST Short Term Scientific Mission as described above

Applicant
Mr Rui Chaves 19 Apr 2012