



Barcelona
Biomedical
Research
Park



Postdoctoral position is available in our group: Francesc Posas and Eulàlia de Nadal

PRBB. Universitat Pompeu Fabra
Dr. Aiguader 88. Barcelona, 08003 (Spain)
Websites: <http://www.prbb.org>
<http://www.unicellsys.eu>

All organisms have sophisticated mechanisms to respond to environmental stress. In eukaryotic cells, stress-activated protein kinase (SAPK) pathways play an essential role in intracellular signaling for proper cell adaptation to extracellular stimuli. Cellular stress results in activation of a conserved family of SAPKs, which include the mammalian p38 and the yeast Hog1. These SAPKs elicit the program for stress cell adaptation that includes modulation of several aspects of cell biology, such as gene expression, translation and cell-cycle progression. We are interested in study how and by which mechanisms the SAPKs, either p38 in mammals as well as Hog1 in yeast, regulate cellular stress adaptation regarding processes such as cell cycle and transcription.

In the context of the "Unicellsys" proposal, we aim for a quantitative understanding of the control of cell cycle progression in response to environmental perturbations.

REFERENCES:

de Nadal, E., et al. **Nature**, 427 (6972): 370-374 (2004); Escoté, X., et al. **Nat. Cell. Biol.**, 6 (10): 997-1002 (2004); Clotet J, et al. **EMBO J.**, 25 (11):2338-46 (2006); Proft, M., et al. **Molecular Cell**, 23: 241-250 (2006).

CANDIDATE REQUIREMENTS:

Experience: PhD. Background in quantitative biology and/or cell cycle control will be considered.
Studies: Biology/Chemistry/Biochemistry
Languages: English

CONDITIONS:

Type of contract: EU-funded (UNICELLSYS).
Estimated annual gross salary: according to profile and experience.
Starting date: 2008

APPLICATION PROCEDURE:

CV including your contact details.
2 names of references (with e-mail addresses and phone numbers)
Please submit your applications to: montserrat.morillas@upf.edu