Postdoctoral Position Available

Postdoctoral position is available to study nutrient sensing by the targets of rapamycin: the TOR kinase homologs. Previous experience with yeast as a model system and/or signal transduction mechanisms, gene expression analysis by microarray preferable. Proficiency in English required. Submit application with pdf files of CV, professional interest, publications, 3 reference names/Emails, to either: Dr. Joseph Heitman (heitm001@duke.edu) or Maria E. Cardenas (carde004@mc.duke.edu), Department of Molecular Genetics and Microbiology, Duke University Medical Center, Durham, NC.

Recent publications:

Shertz, C., Bastidas, R.J., Lee, S.C., Heitman, J. and Cardenas, M.E. (2010) Conservation, duplication, and loss of the Tor signaling cascade in the fungal kingdom. BMC Genomics 11:510.

Bastidas, R.J. and Cardenas, M.E. (2010). TORC1 signaling in the budding yeast endomembrane system and control of cell-cell adhesion in pathogenic fungi. The Enzymes, Vol. 27, Structure, Function and Regulation of TOR Complexes from Yeast to Mammals. F. Tamanoi and M. Hall, Eds. Elsevier, 199-227.

Bastidas, R.J., Heitman, J., and Cardenas, M.E. (2009). The protein kinase Tor1 regulates adhesin gene expression in *Candida albicans. PLoS Pathog.* 5-2, e1000294.

Puria, Rekha, Zurita-Martinez, S.A., and Cardenas, M.E. (2008). Nuclear translocation of Gln3 in response to nutrient signals requires Golgi to endosome trafficking in *Saccharomyces cerevisiae. Proc. Natl. Acad. Sci. USA*. 105:7194-7199.

Puria, R. and Cardenas, M.E. (2008). Rapamycin bypasses vesicle-mediated signaling events to activate Gln3 in *Saccharomyces cerevisiae. Commun. & Integrat. Biol.* 1, 23-25.

Rohde, J.R., Bastidas, R., Puria, Rekha, and Cardenas, M.E. (2008). Nutritional control via Tor signaling in *Saccharomyces cerevisiae. Curr. Opin. Microbiol.* 11:153-160.

Rutherford, J.C., Chua, G., Hughes, T., Cardenas, M.E., and Heitman J. (2008) A Mep2-dependent transcriptional profile links permease function to gene esxpression during pseudohyphal growth in *Saccharomyces cerevisiae.* Mol. Biol. Cell. 19:3028-3039.

Zurita-Martinez, S.A., Puria, Rekha, Pan, X., Boeke, J.D., and Cardenas, M.E. (2007). Efficient Tor signaling requires a functional Class C Vps protein complex in *Saccharomyces cerevisiae. Genetics* 107, 2139-2150.

Bahn, Y-S., Xue, C., Idnurm, A., Rutherford, J.C., Heitman, J., and Cardenas, M.E. (2007). Sensing the environment: lessons from fungi. *Nat. Rev. Microbiol.* 5:57-69.