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Relevant articles (7 out of 36):

Posas, F., Wurgler-Murphy, S.M., Maeda, T., Witten, E.A., Thai, T.C. & Saito, H.
Yeast HOG1 MAP kinase cascade is regulated by a multistep phosphorelay
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Activation of the yeast SSK2 MAP kinase kinase kinase by the SSK1 two-component
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Regulation of the Sko1 transcriptional repressor by the Hog1 MAP kinase in response
to osmotic stress.
EMBO J. **20**: 1123-1133 (2001).

Alepuz PM, De Nadal E, Zapater M, Ammerer G & Posas, F.

Osmostress-induced transcription by Hot1 depends on a Hog1-mediated recruitment of the RNA Pol II.

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The Hog1 MAP kinase recruits the Rpd3 histone deacetylase to activate osmoreponsive genes.

Nature, 427 (6972): 370-374 (2004).

Escoté, X., Zapater, M., Clotet, J. & Posas F.

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Clotet J, Escote X, Adrover MA, Yaakov G, Gari E, Aldea M, de Nadal E, Posas F.

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Proft M, Mas G, de Nadal E, Vendrell A, Noriega N, Struhl K, Posas F.

The stress-activated Hog1 kinase is a selective transcriptional elongation factor for genes responding to osmotic stress.

Mol Cell. **21**;23(2):241-50 (2006).

Relevant contributions

Francesc Posas (EMBO Young Investigator, 2000) made contributions to our understanding of the osmostress signalling pathway in yeast as a postdoctoral fellow. Since establishing his own independent group in Spain in 1998, he has continued to make major new contributions to the field. The Posas group has extensive experience in the study of signal transduction pathways controlled by phosphorylation-dephosphorylation mechanisms. During the last 8 years members of the group have been working on the characterisation of the Hog1 MAPK pathway in yeast, identifying key pathway components required for signal transduction and characterising the molecular mechanisms underlying their function. They have also studied localisation of several of the components of the pathway, and more recently, have focussed on the identification of downstream targets for the MAP kinase, as well as the characterisation of novel mechanisms for the control of gene expression.

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