Research Programmes

Oncology

Ángel R. Nebreda: Signalling and cell cycle laboratory

Group Members

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Highlights

• Chromatin remodeling mediated by SRCAP/p18Hamlet/H2A.Z is a new mechanism by which p38 MAPK signals facilitate transcriptional activation during mammalian cell differentiation.
• The CDK activator RINGO/Speedy C participates in the mitotic checkpoint, which is probably mediated by the recruitment of SAC components and the regulation of Aurora B kinase activity.
• The sequential phosphorylation of Myt1 by the kinases CDK1/XRINGO and p90Rsk facilitates the dephosphorylation of cyclin B-bound CDK1 on Thr14 and Tyr15, thereby ensuring the all-or-none response that characterizes meiosis I entry in oocytes.

Publications

The Signalling and Cell Cycle Laboratory joined IRB Barcelona in July 2010. The publications listed below include results obtained by the group in their previous affiliation at Spanish National Cancer Research Centre (CNIO).


Collaborations

• Molecular mechanisms of metastasis. Roger Gomis, IRB Barcelona (Barcelona, Spain)
• p38 MAPKs in T cell regulation. Jesus Salvador, Centro Nacional de Biotecnología/CSIC (Madrid, Spain)
• Stress-induced p38 MAPK signaling. Francesc Posas, Universitat Pompeu Fabra (Barcelona, Spain)
Research projects