ent pathways to distinct sets of target genes. Furthermore, it was demonstrated that STAT1 proteins C-terminal fused with a CAAX-motif functioning as a membrane anchor are fully competent to induce TNFα-mediated apoptosis. In contrast, membrane-bound STAT1 lost the ability to activate IFNγ-dependent target genes. These results indicate that STAT1 dimers require nuclear localisation for the activation of IFNγ-dependent target genes and that nuclear accumulation is not necessary for the induction of the STAT1-dependent activation of caspase genes and TNFα-mediated apoptosis.

7. Eigene Veröffentlichungen

Begitt,A., Meyer,T., van Rossum,M. and Vinkemeier,U. (2000) Nucleocytoplasmic translocation of Stat1 is regulated by a leucin-rich export signal in the coiled-coil domain. *Proc. Natl. Acad. Sci. USA*, **97**, 10418-10423.

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Diese Veröffentlichung befindet sich zur Zeit in Revision:

Meyer,T., Hendry,L., **Begitt,A.**, John,S., and Vinkemeier,U. (2004) A single residue modulates tyrosin dephosphorylation, oligomerization and nuclear accumulation of Stat transcription factors. *J. Biol. Chem*. *in revision*.

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