

MOLECULAR ENDOCRINOLOGY

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COVER: Model for GH-induced suppressor of cytokine signaling 3 (SOCS3) expression, based on BaF/3 cells expressing human GH receptor. Binding of GH to the GH receptor homodimer activates JAK2, which phosphorylates STAT5b, which then translocates to the nucleus and binds the proximal STAT Response Element (pSRE). JAK2 also activates p38 MAPK and JNK, which phosphorylate c-Fos and c-Jun, respectively, which then bind the AP1 response element. CREB is constitutively bound to the AP1 response element but is displaced following GH treatment. FOXO3a, which is constitutively associated with STAT5b, also binds the promoter following GH and may therefore bridge STAT5b and the AP1 transcription factors. From the article by Barclay *et al.*, in this issue, pages 2503–2515.

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