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Lactogenic Hormone Signal Transduction FREE

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Abstract

The peptide hormone prolactin (PRL) is known to regulate numerous target tissues. Among the less well-known targets are cells of the immune system, including T cells, B cells, and macrophages. Our laboratory has cloned a panel of PRL-inducible T-cell activation genes for use in studies investigating how PRL modulates the biology of cells of the immune system. This article focuses on two such PRL-inducible genes. One is a transcription factor called interferon regulatory factor-1, whose expression is regulated by signaling molecules along the PRL-inducible JAK/Stat signaling pathway. These signaling molecules include Stat1 and CBP as positive mediators and, unexpectedly, Stat5b as a negative mediator. A second PRL-inducible gene is c15/RNUDC, a novel nuclear movement protein, which may provide a link between PRL signaling and signaling via the lipid second messenger, platelet activating factor.

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