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Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

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COVER: Hypertonic saline significantly attenuates TNF- α -induced NF- κ B nuclear localization. Immunofluorescent images show the intracellular localization of NF- κ B. The nuclear stains (blue) are omitted from the bottom row. In unstimulated cells, most of the NF- κ B p65 subunit (green) is sequestered in the cytoplasm (first column). Hypertonic saline pretreatment does not significantly change the intracellular location of the p65 subunit (second column). TNF- α causes the p65 subunit to accumulate in the nucleus at 30 min (third column). Hypertonic saline attenuates TNF- α -induced NF- κ B nuclear translocation (fourth column), with more of the p65 subunit left within the cytoplasm. The orange bar equals 10 μ m. All images acquired at 40 x magnification. See Nydam et al., pages 466–472, 2009.