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Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

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COVER: A, Estrogen-mediated genomic action. When an estrogen molecule binds to an estrogen receptor, the hormone-receptor complex then moves to the nucleus, where it binds to DNA and initiates transcription. B, Estrogen-mediated nongenomic action, membrane-initiated steroid signaling. In the case of the nongenomic, that is, MISS estrogen signaling pathway, estrogen receptors are located in the cell membrane. Their activity is linked to the P13K/Akt or MAPK pathway, resulting in a rapid, nonnuclear effect, and is associated with the novel growth factor GPR30. See Yu et al., pages 227–237, 2009.