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Endoplasmic reticulum stress-mediated pathways to both apoptosis and autophagy: significance for melanoma treatment

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Abstract

Melanoma is the most aggressive form of skin cancer. Disrupted intracellular signaling pathways are responsible melanoma's extraordinary resistance to current chemotherapeutic modalities. The pathophysiologic basis for resistance to both chemo- and radiation therapy is in altered genetic and epigenetic mechanisms that destroy cell death machinery and/or excessive activation of cell growth and survival-dependent pathways. Although most current melanoma therapies target mitochondrial dysregulation, there is increasing evidence that endoplasmic reticulum (ER) stress-

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