

Radiobiology of TGF-beta 1 in antitumor therapy

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The radiobiology of TGF-beta 1 is an insufficiently known but promising area of research exploring the role of transforming growth factor, a key cellular cytokine, in anticancer therapy. This report will focus on the mechanisms by which TGF-beta 1 regulates cellular processes (such as proliferation, differentiation, and apoptosis) and how it shapes the tumor microenvironment. We will also review the effects of radiotherapy on TGF-beta 1 and its receptors expression and how this knowledge may be used to develop new cancer treatments.

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